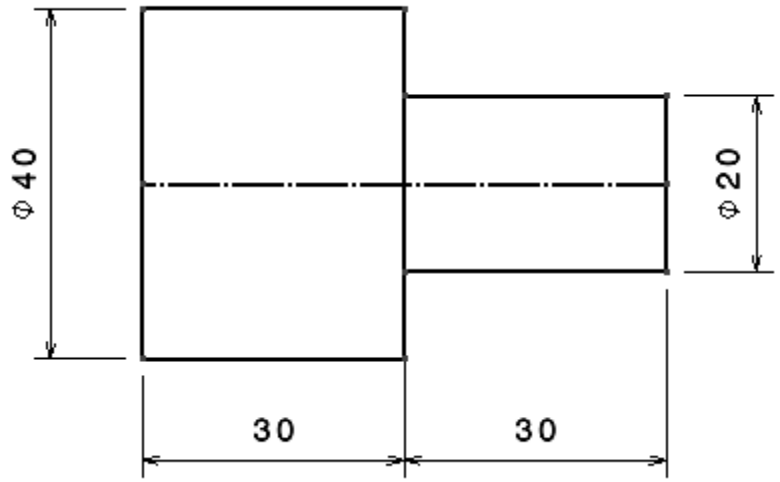
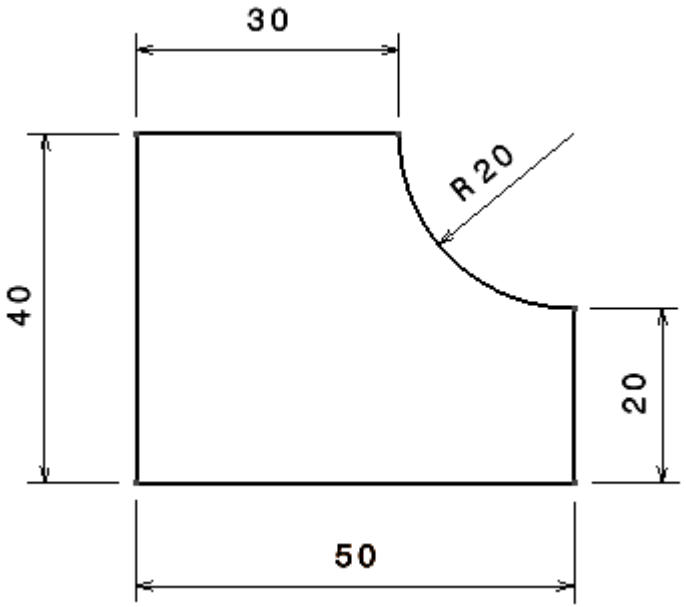

SKETCHER

EX: 1



EX: 2

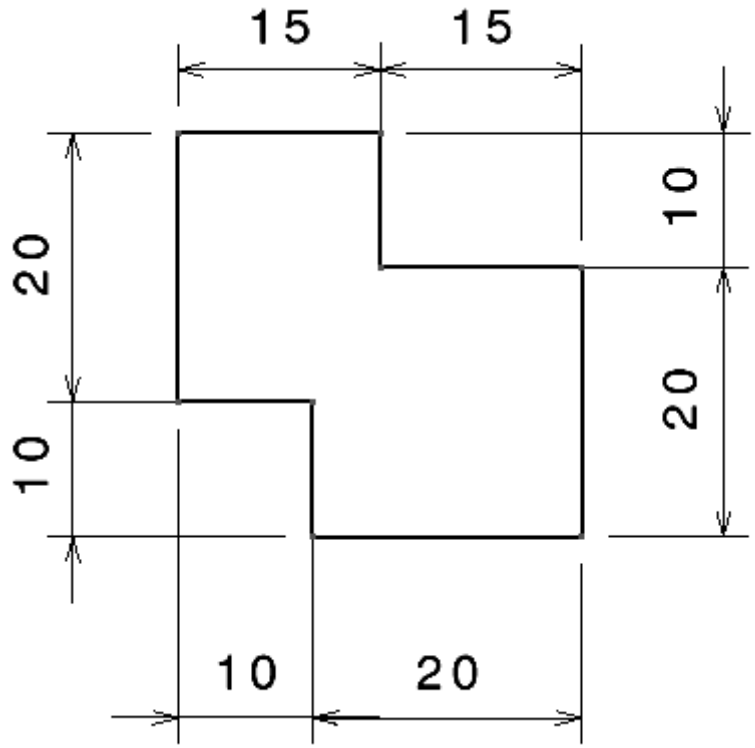


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

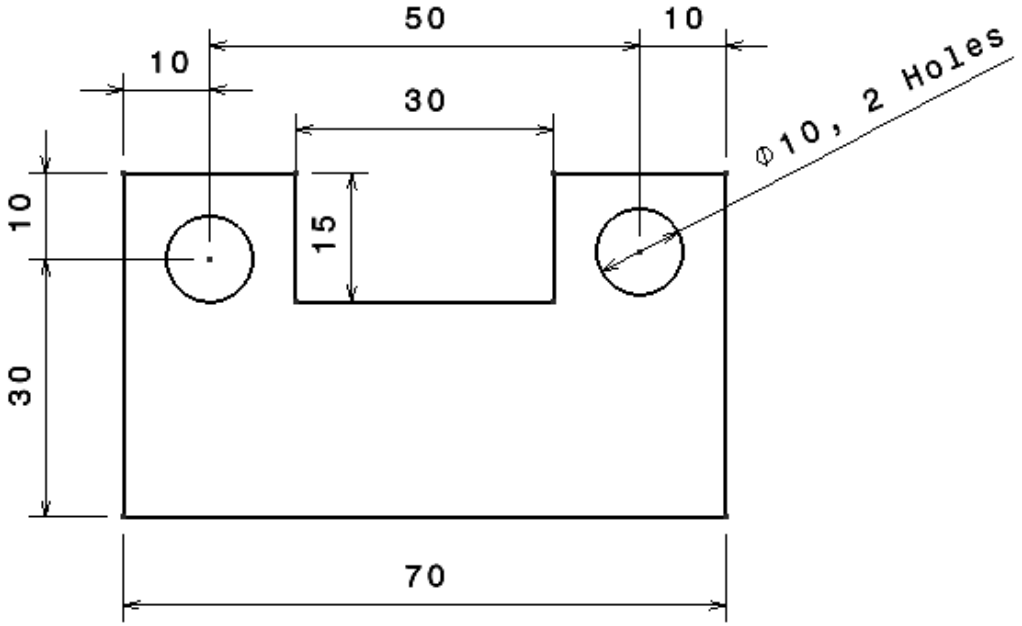
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

EX: 3



EX: 4

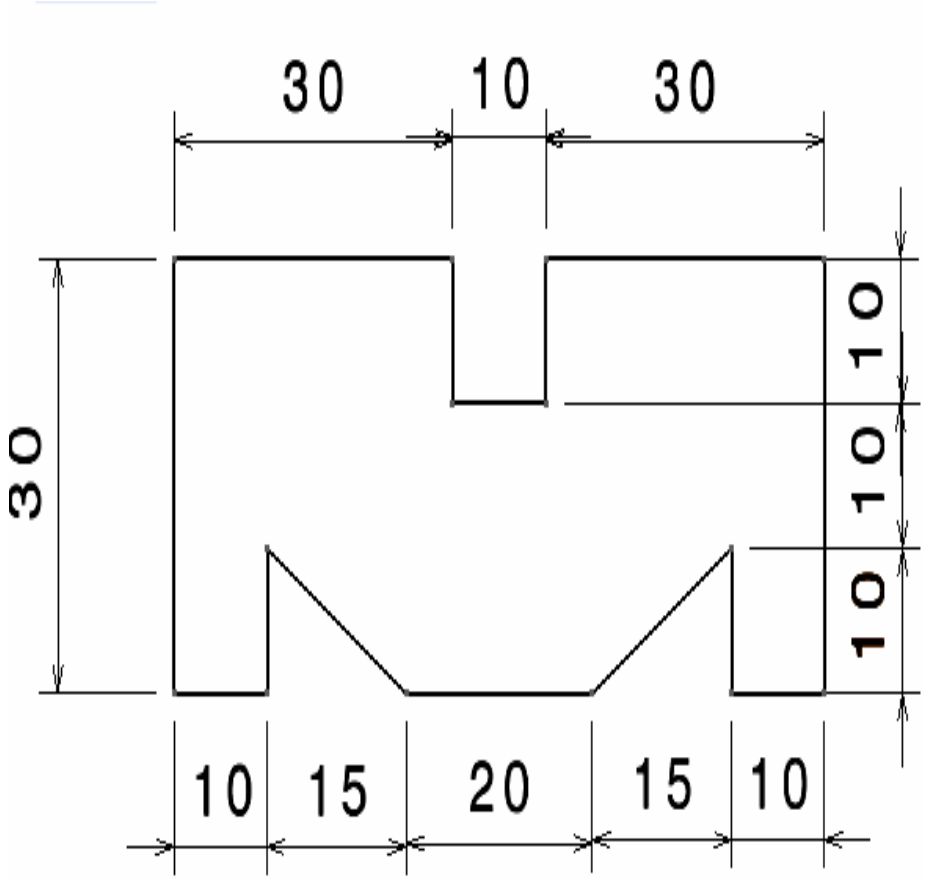


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

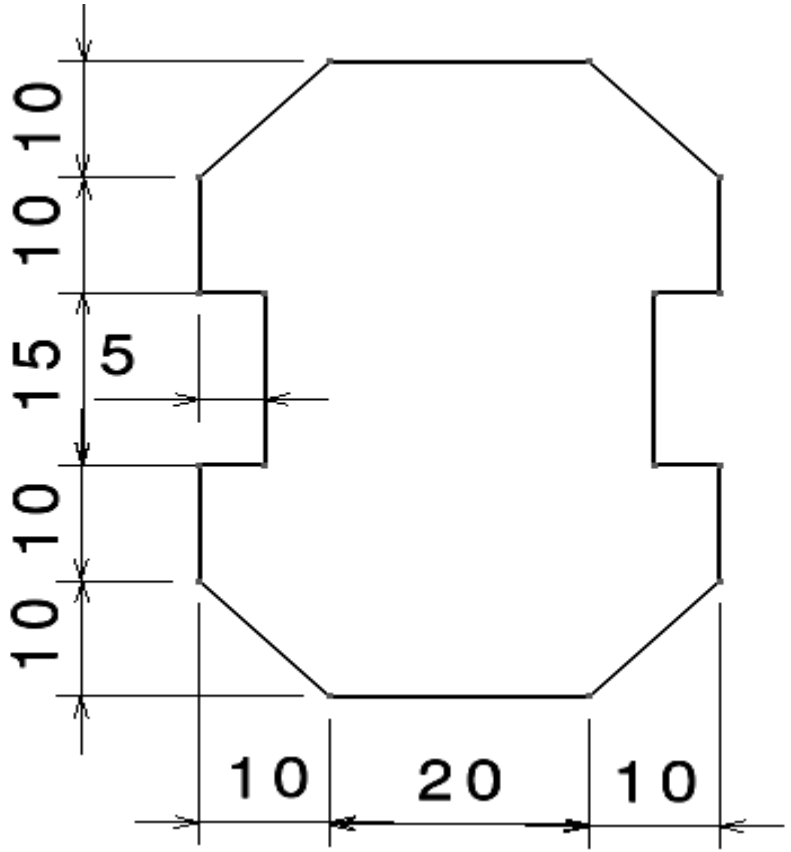
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

EX: 5



EX: 6

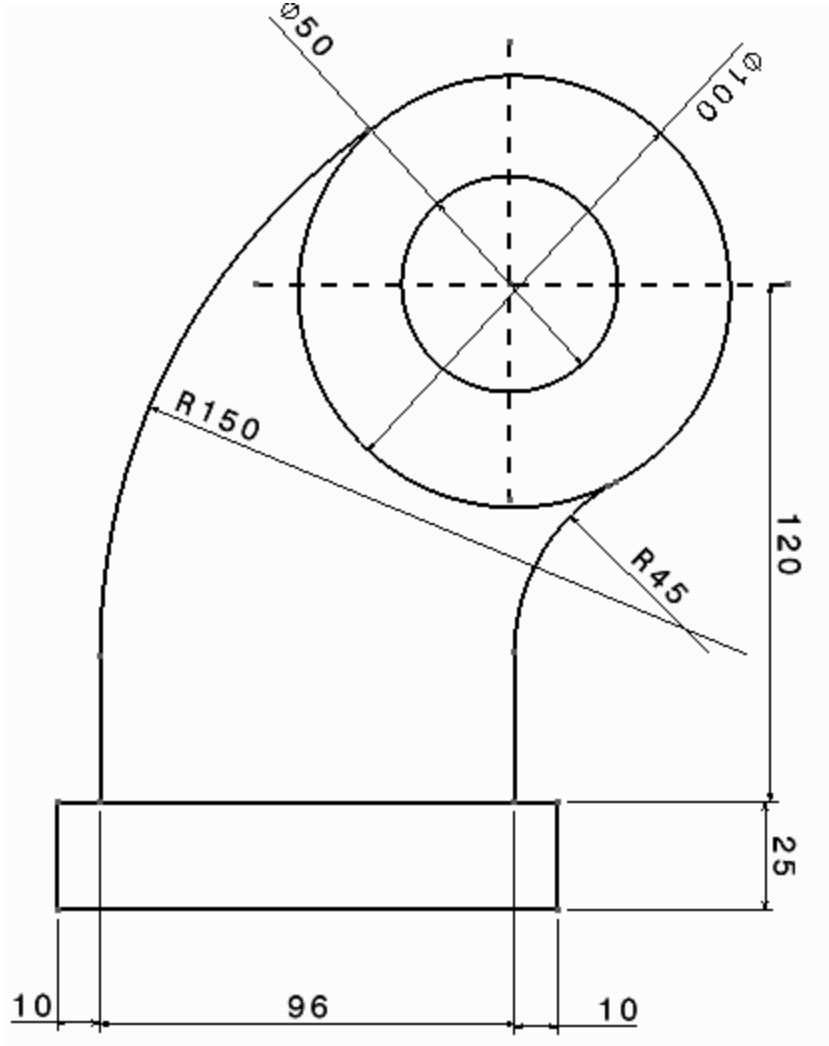


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

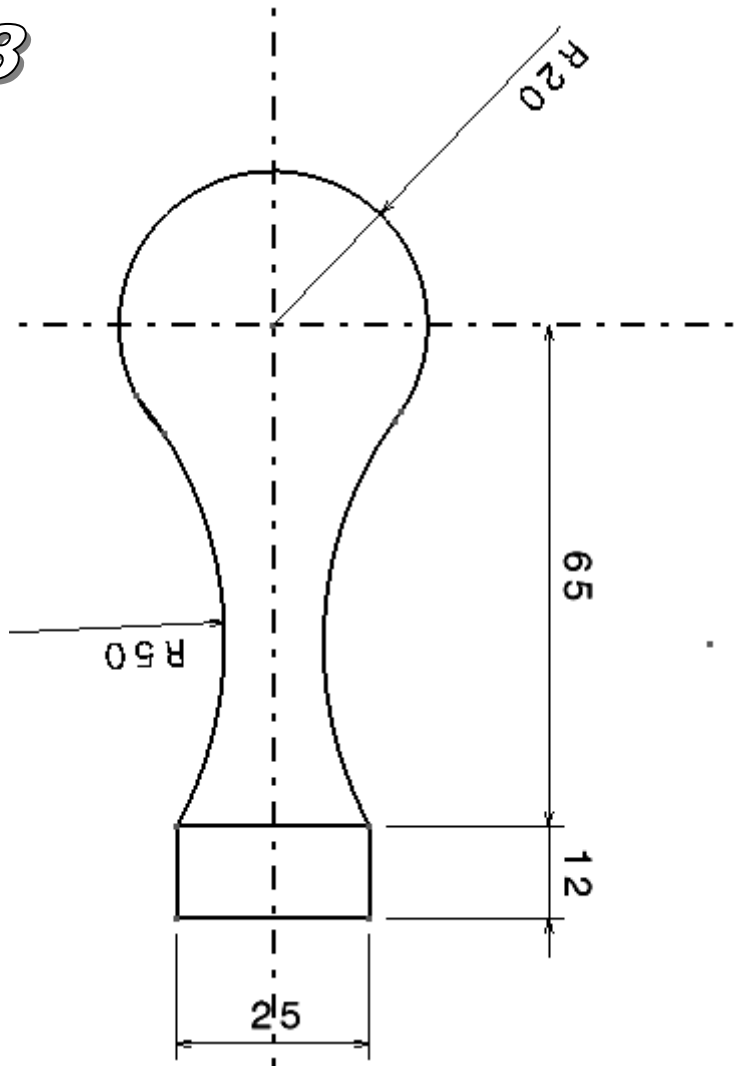
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

EX: 7



EX: 8

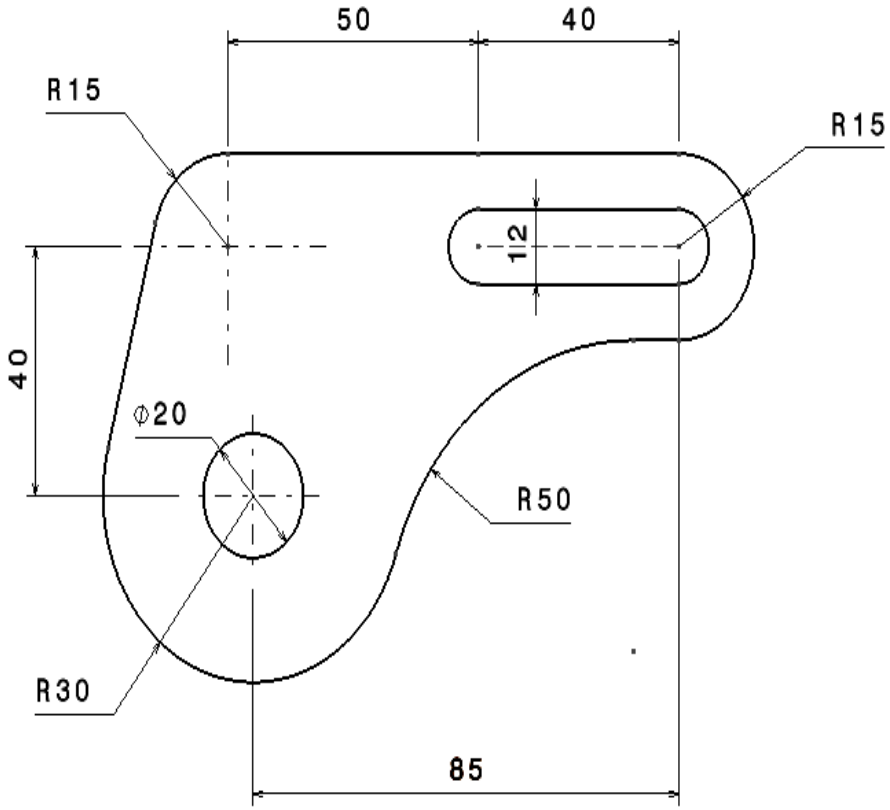


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

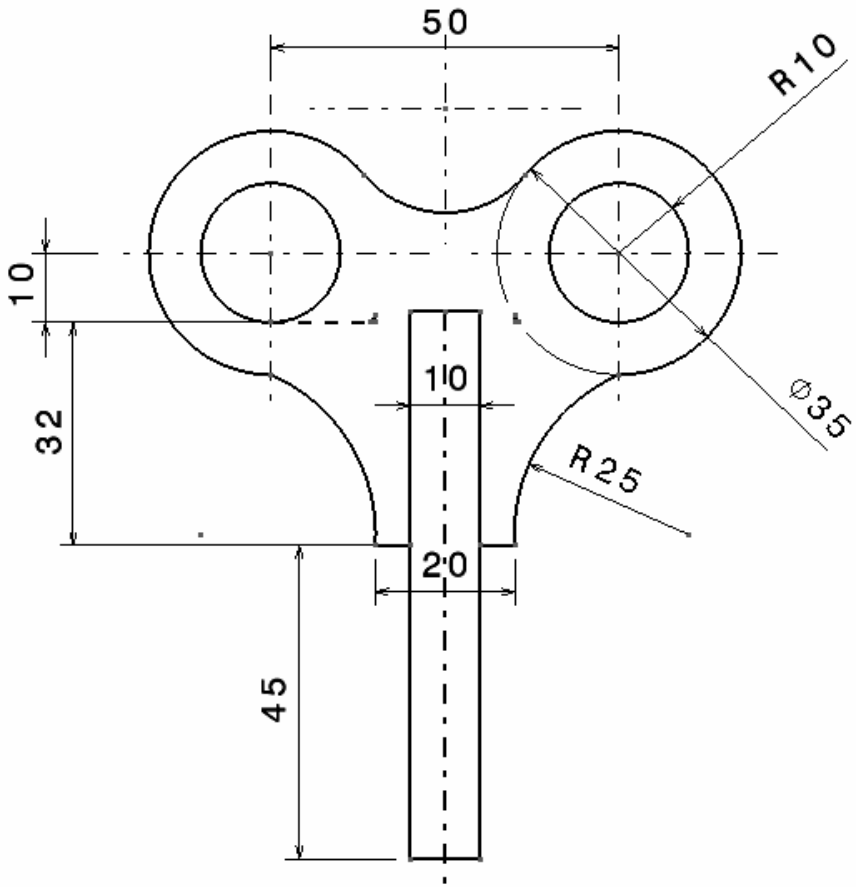
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

EX: 9



EX: 10

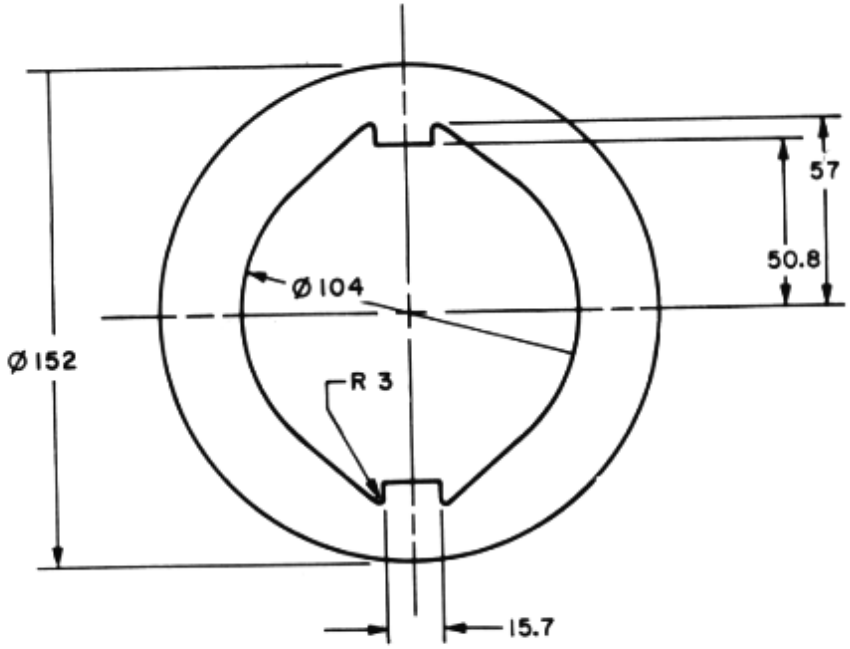


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

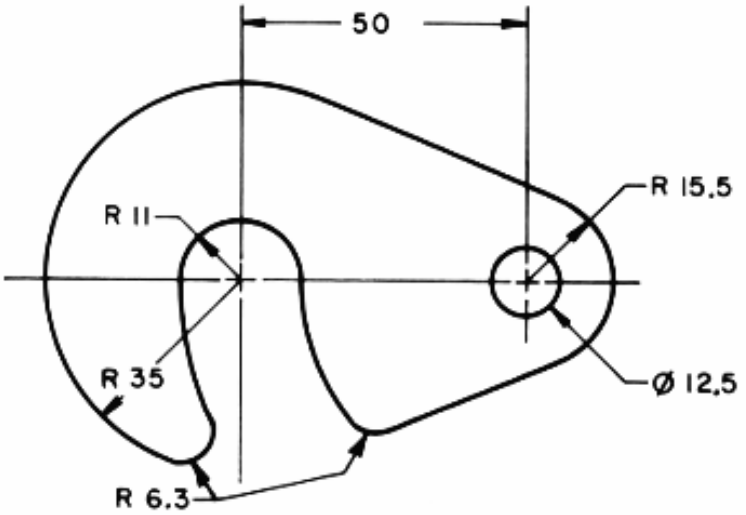
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

EX: 13



THRUST WASHER

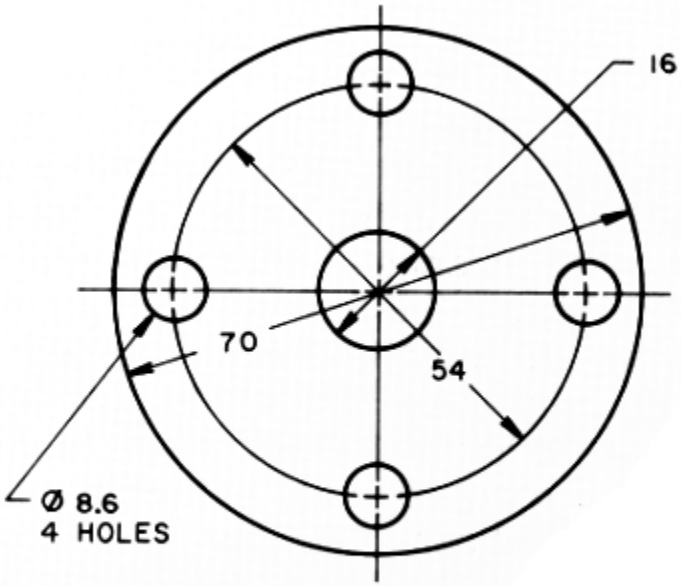
EX: 14



SWING C – WASHER

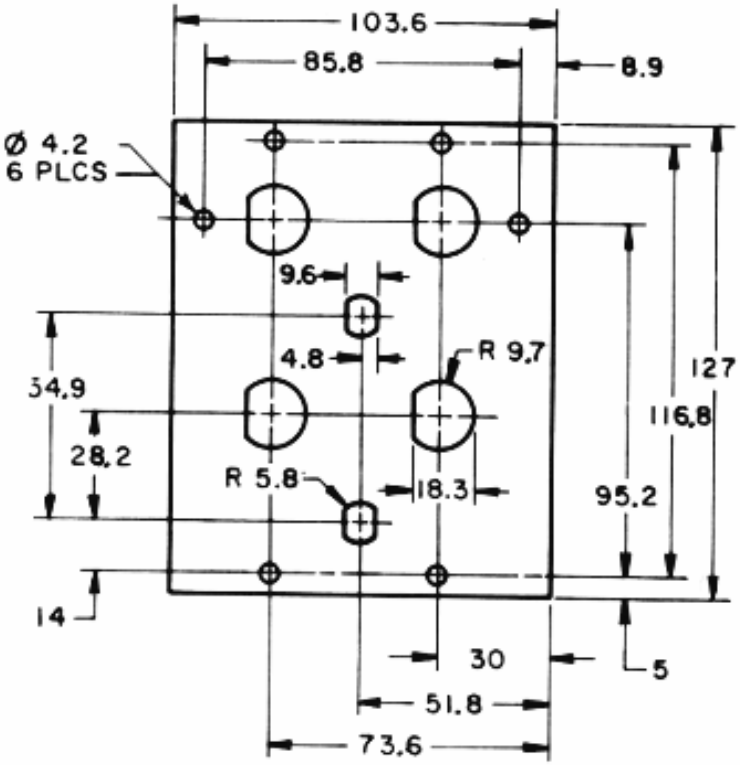
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				
MSME TOOL ROOM AURANGABAD INDO GERMAN TOOL ROOM AURANGABAD				DRG. NO. / DRG. TYP / SHEET / SIZE / CONT. NO	

EX: 15



SPACER

EX: 16



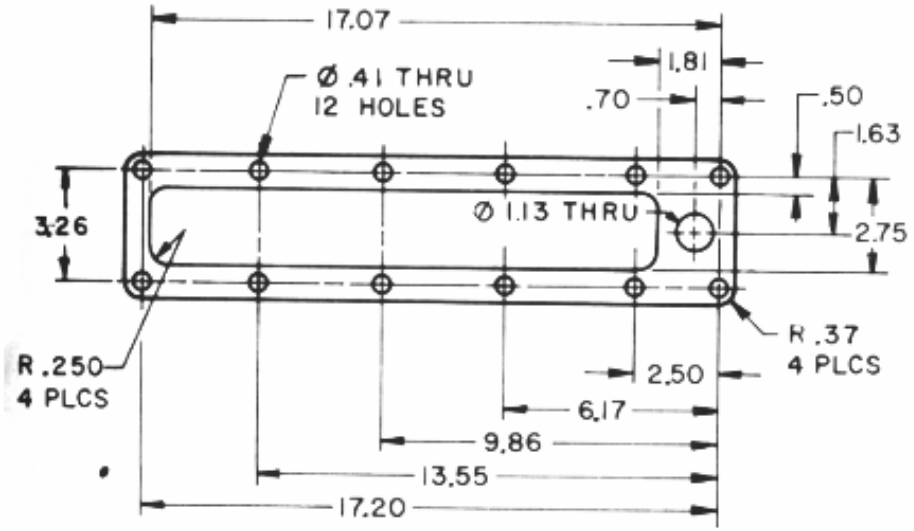
PLATE, FRONTAL

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

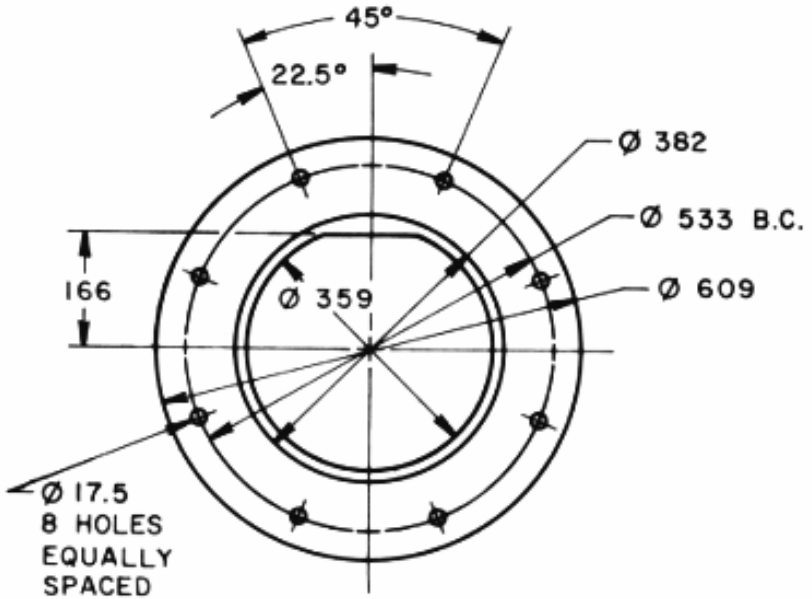
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

EX: 17



GASKET, WATER INLET CONN

EX: 18



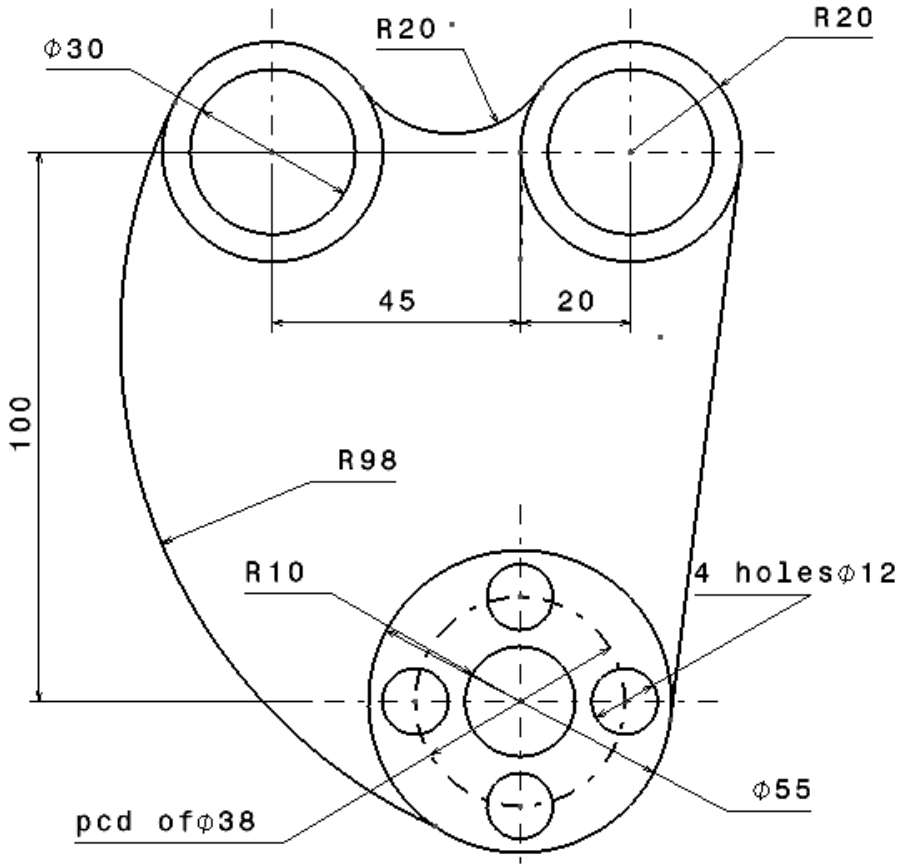
RETAINER

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

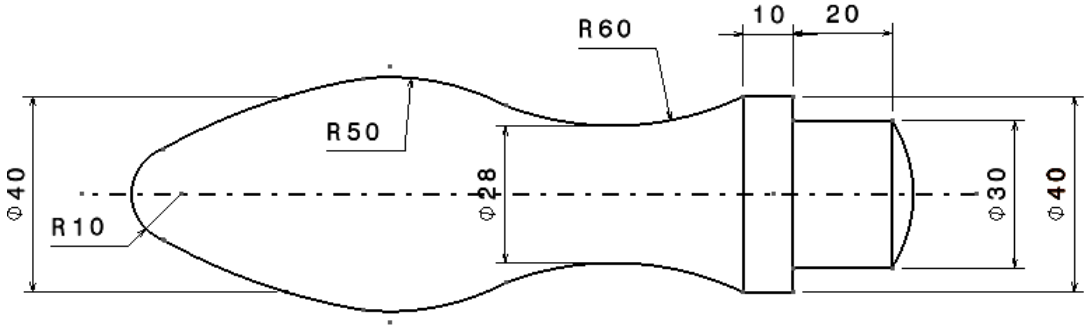
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

EX: 19



EX: 20

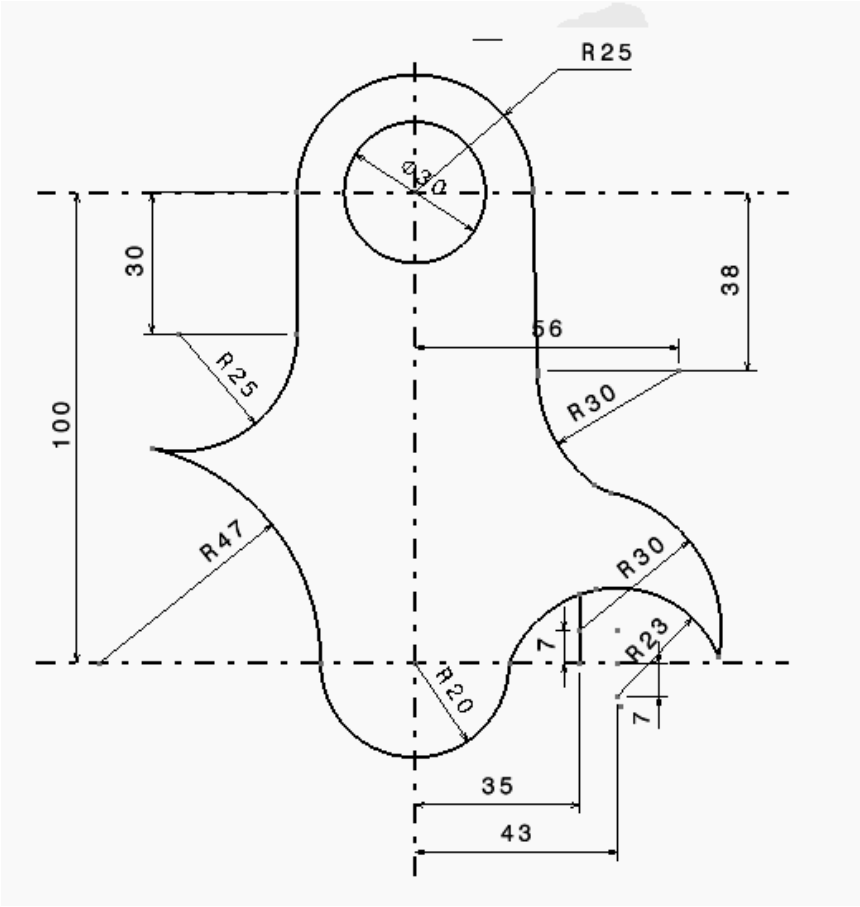


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

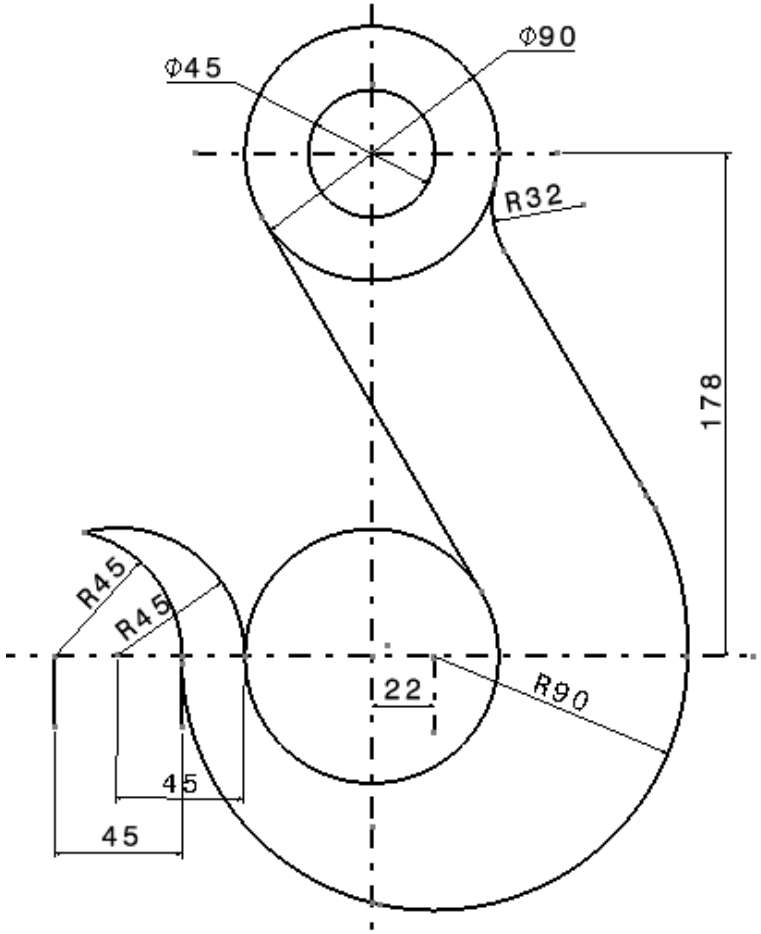
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

EX: 21



EX: 22

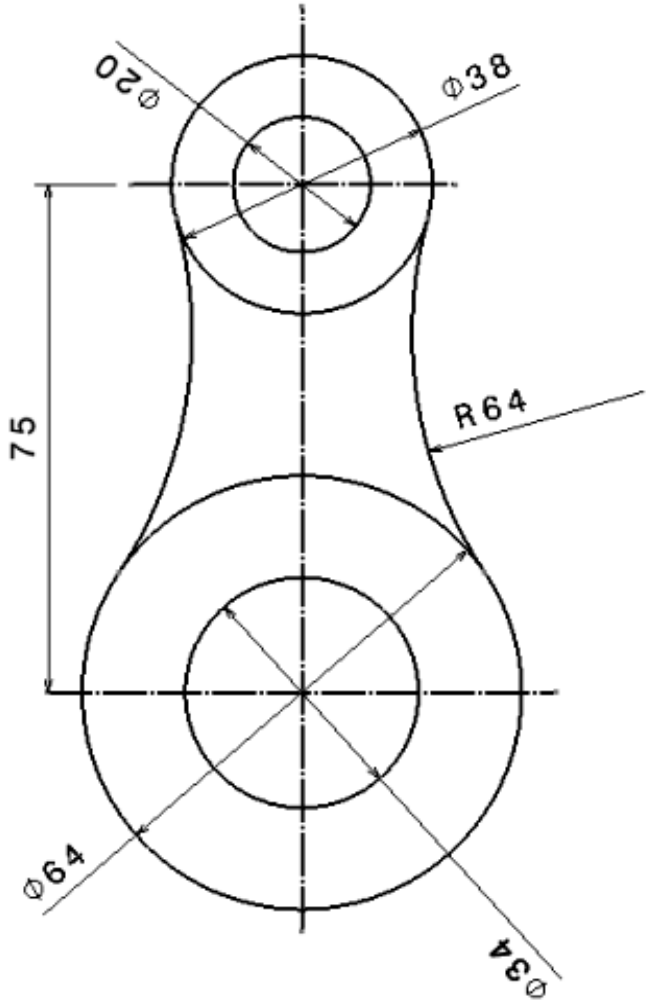


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

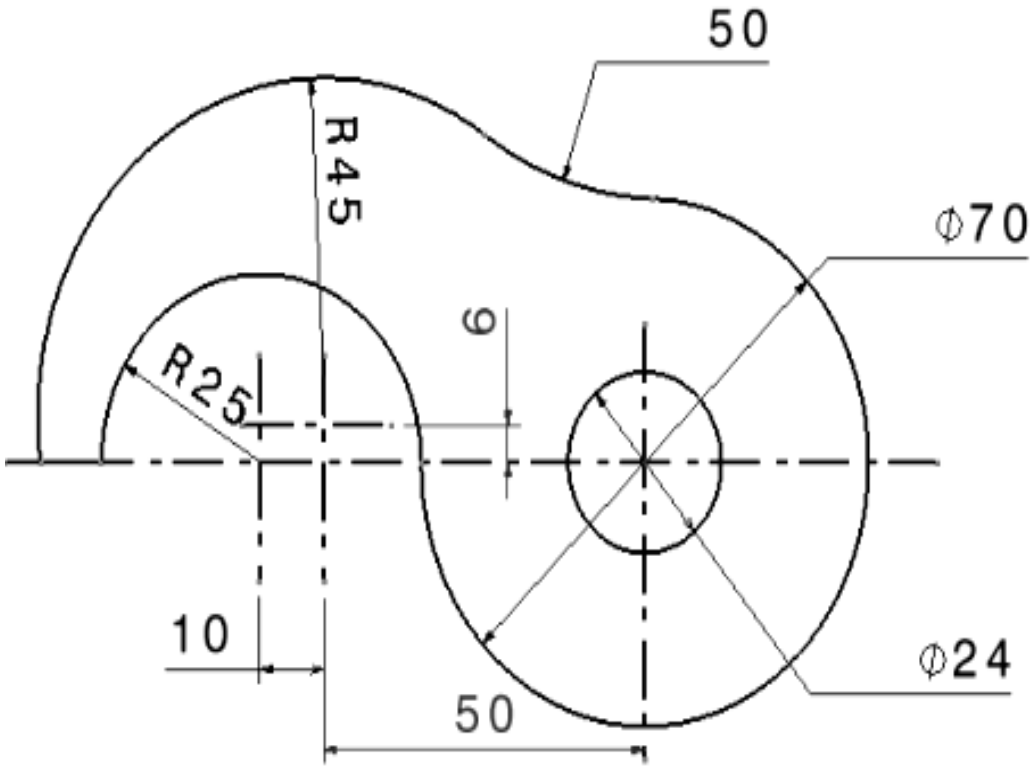
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

EX: 25



EX: 26

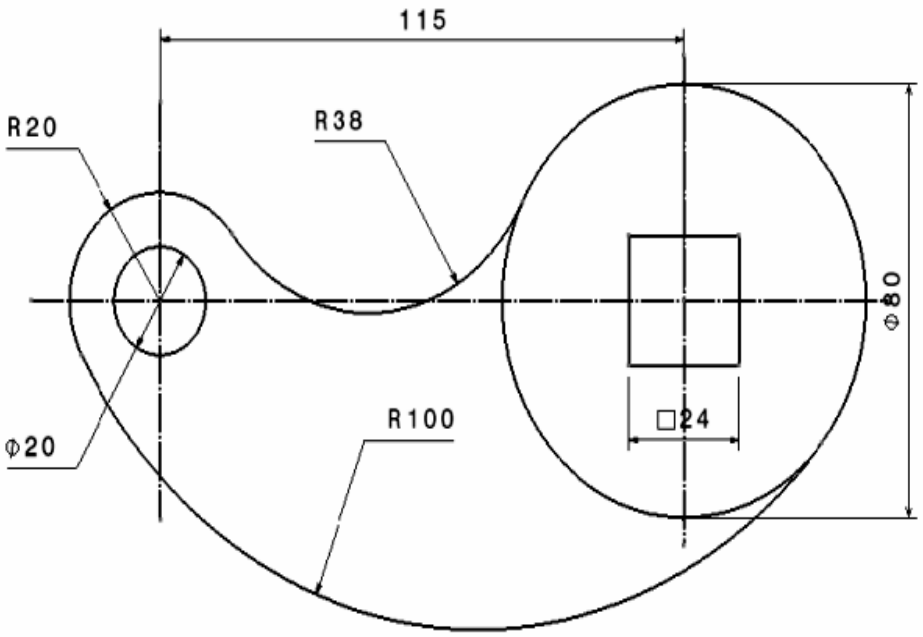


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

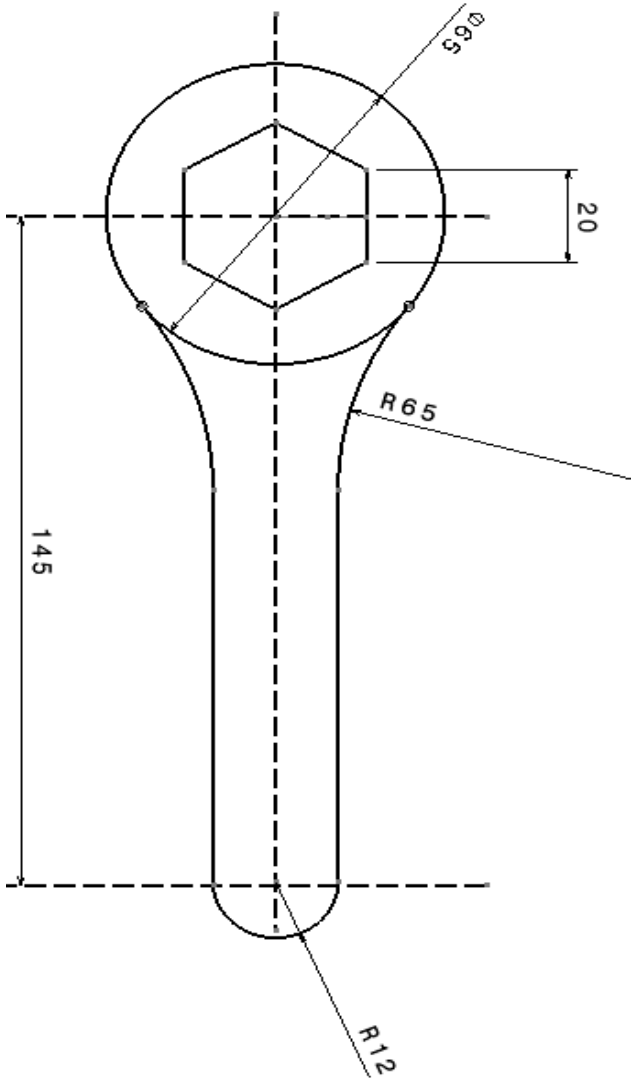
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

EX: 27



EX: 28

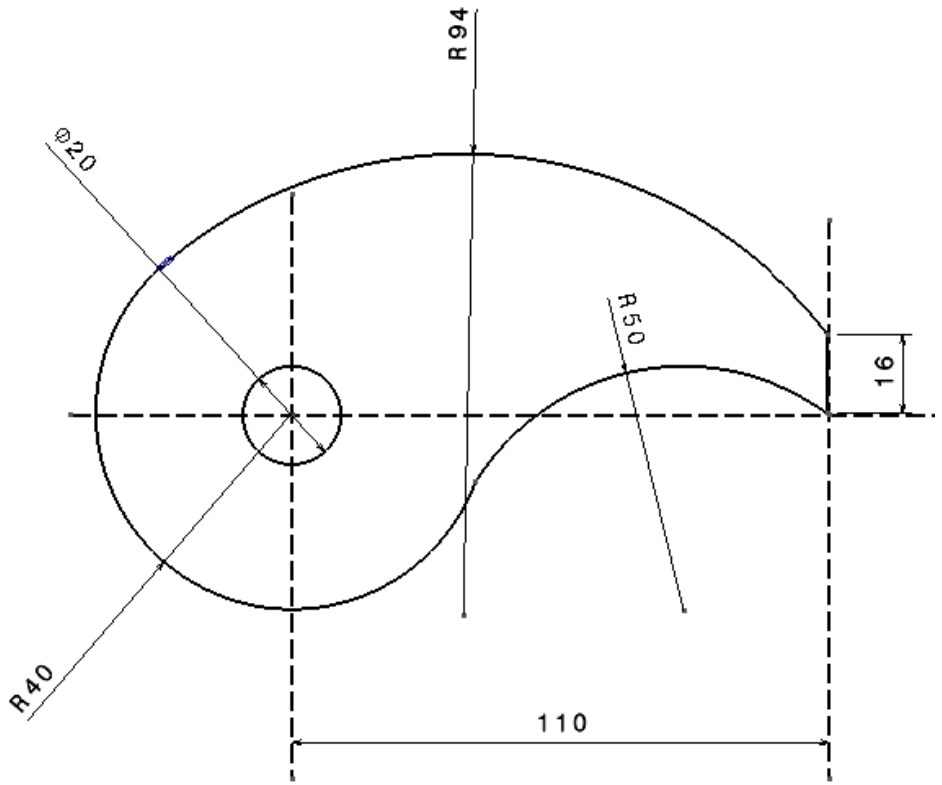


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

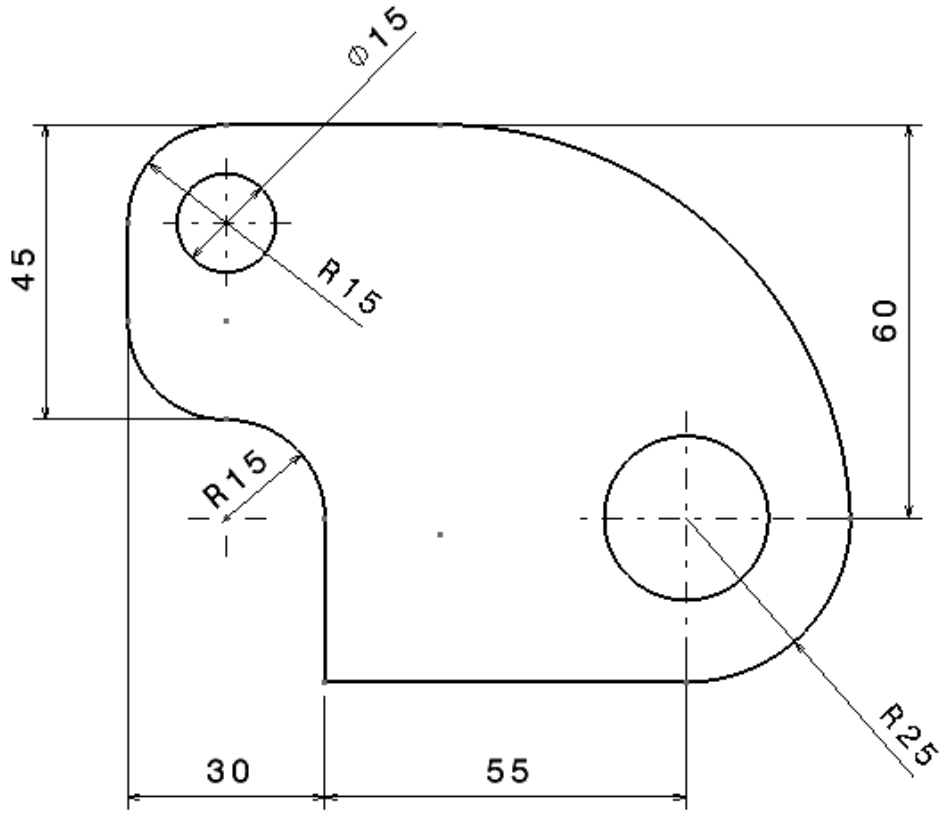
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

EX: 29



EX: 30

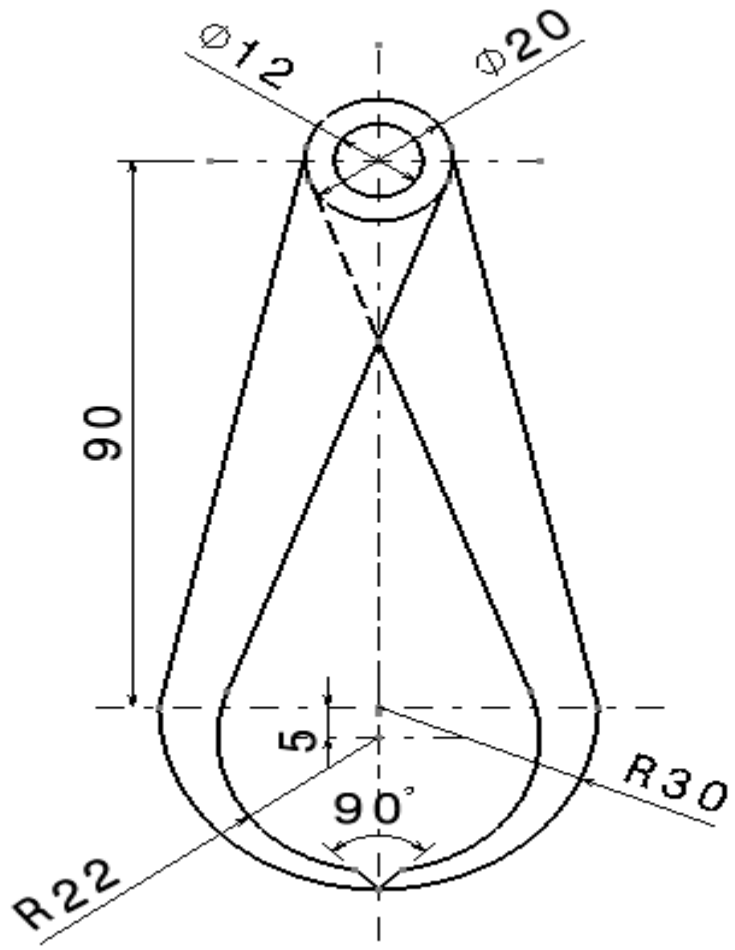


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

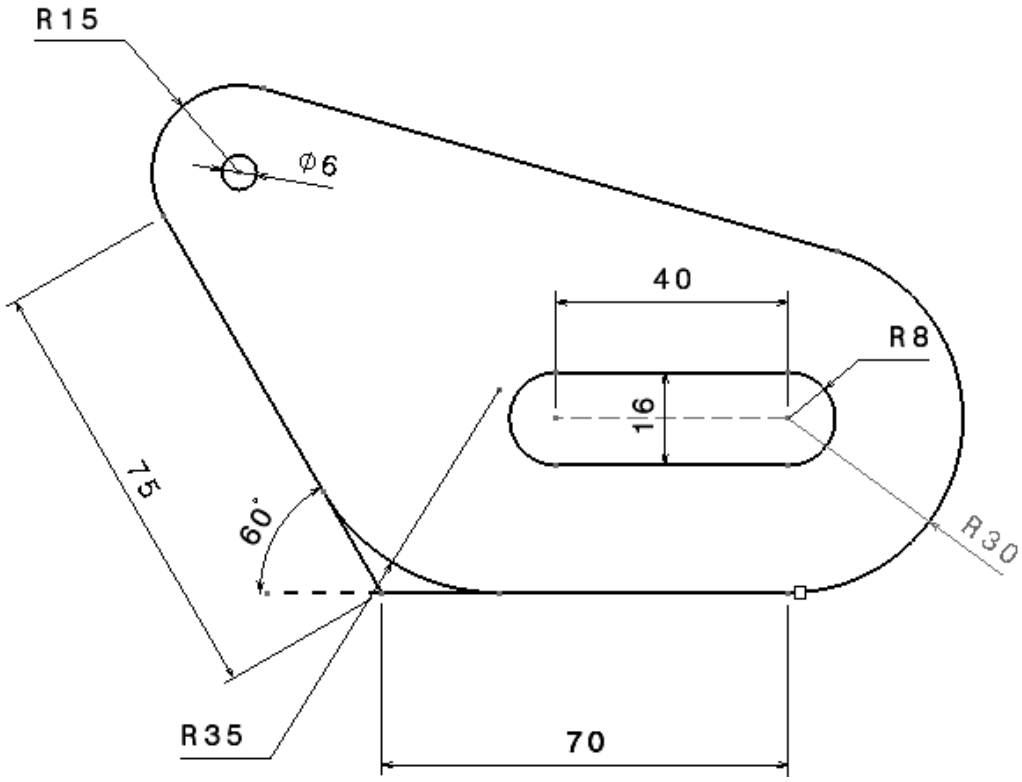
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

EX: 33



EX: 34

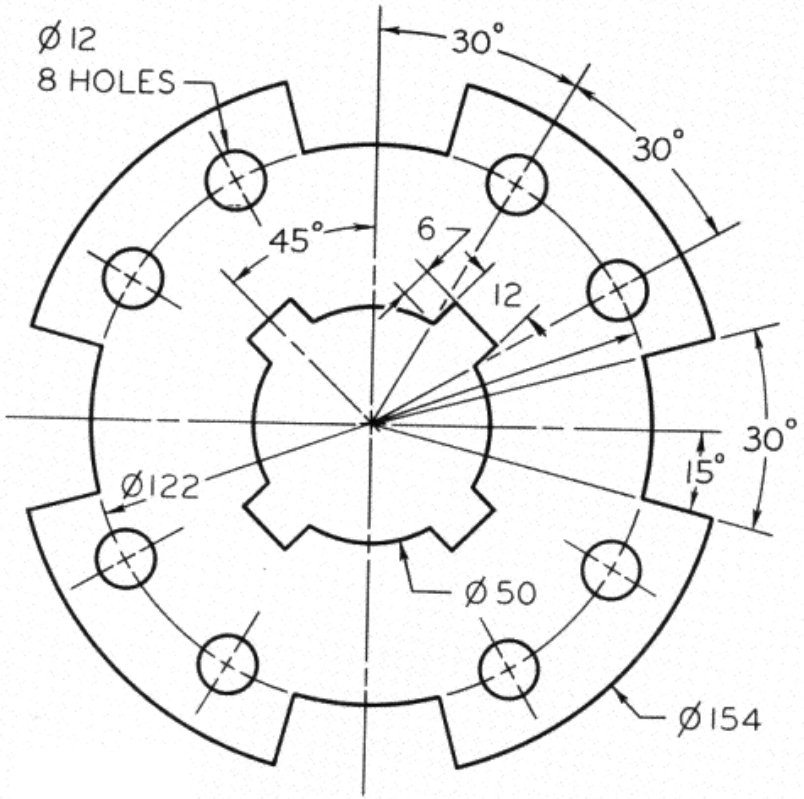


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

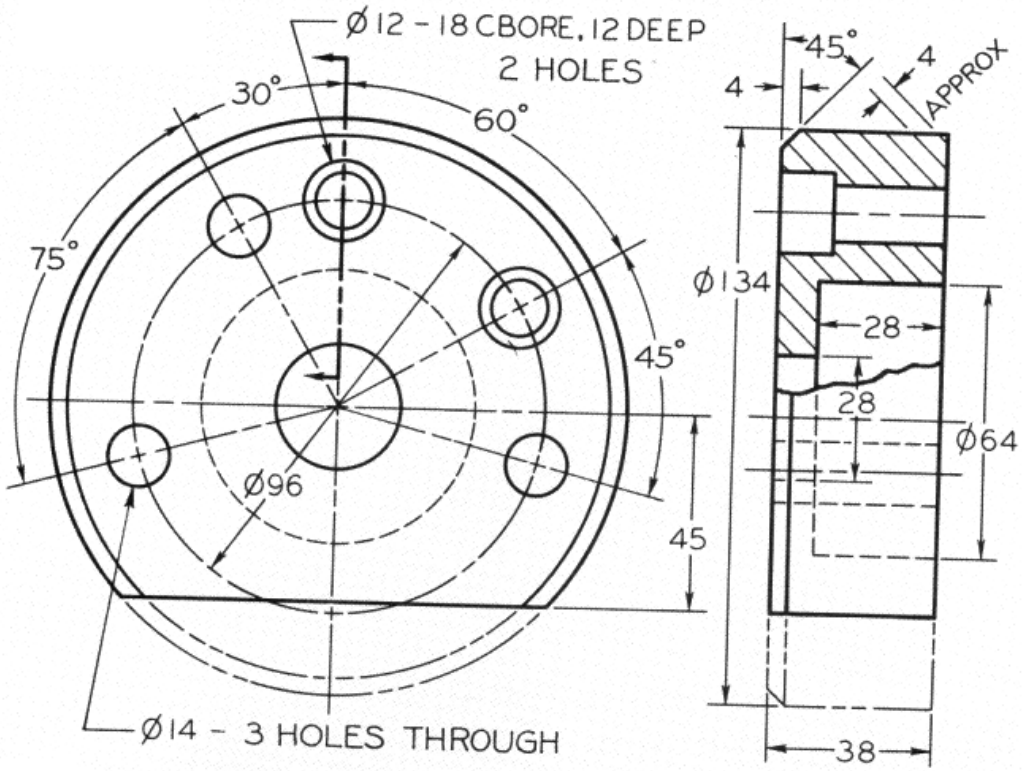
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

EX: 37



Friction Plate.

EX: 38



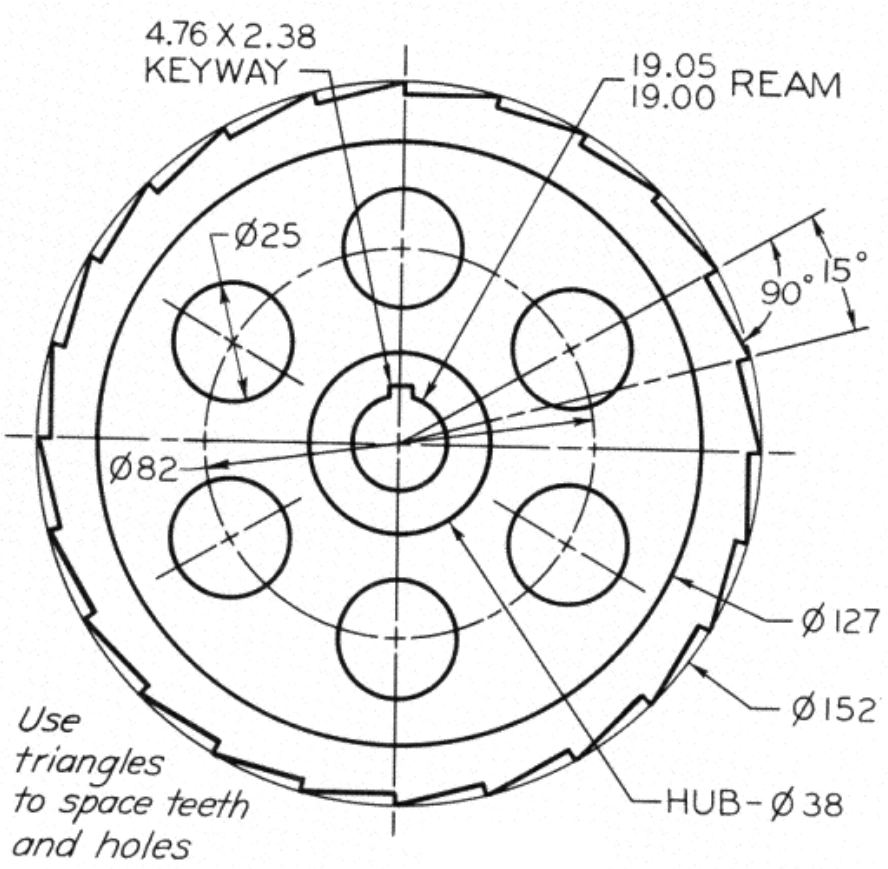
Seal Cover.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

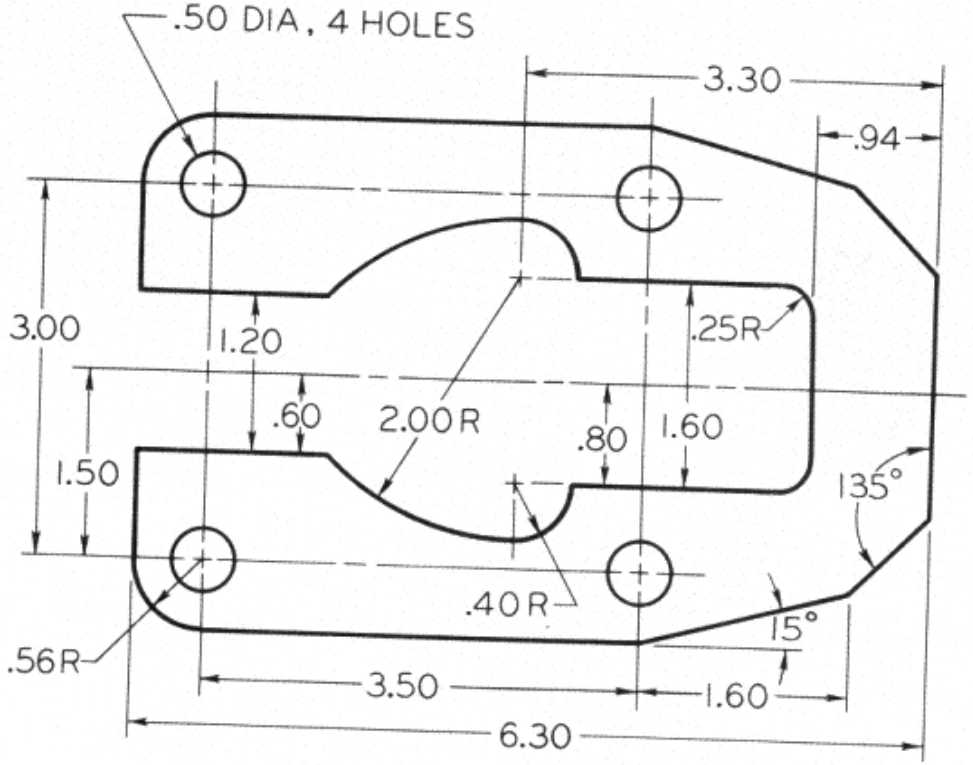
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

EX: 39



Ratchet Wheel.

EX: 40



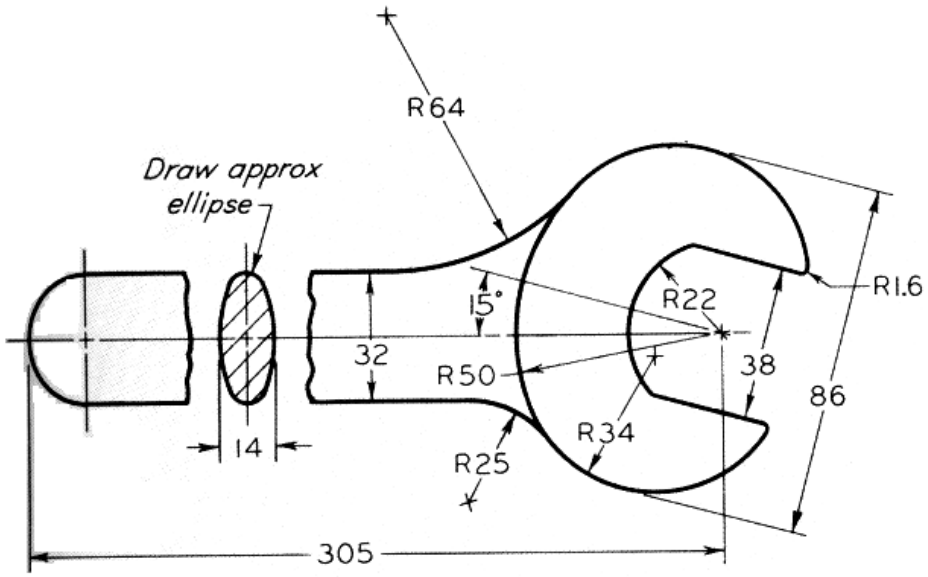
Latch Plate.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

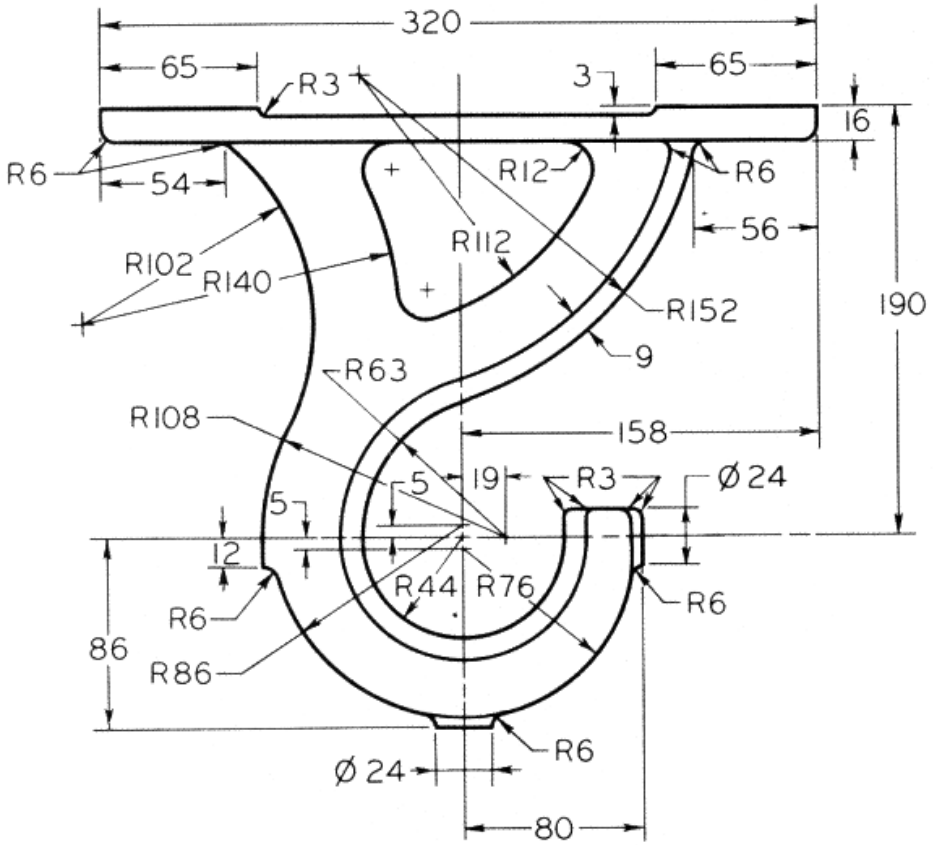
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

EX: 41



Spanner.*

EX: 42



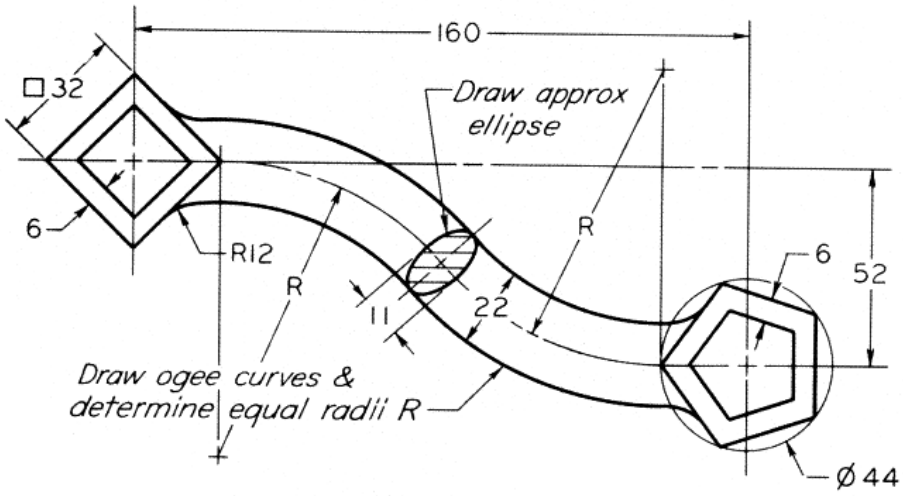
Shaft Hanger Casting.*

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

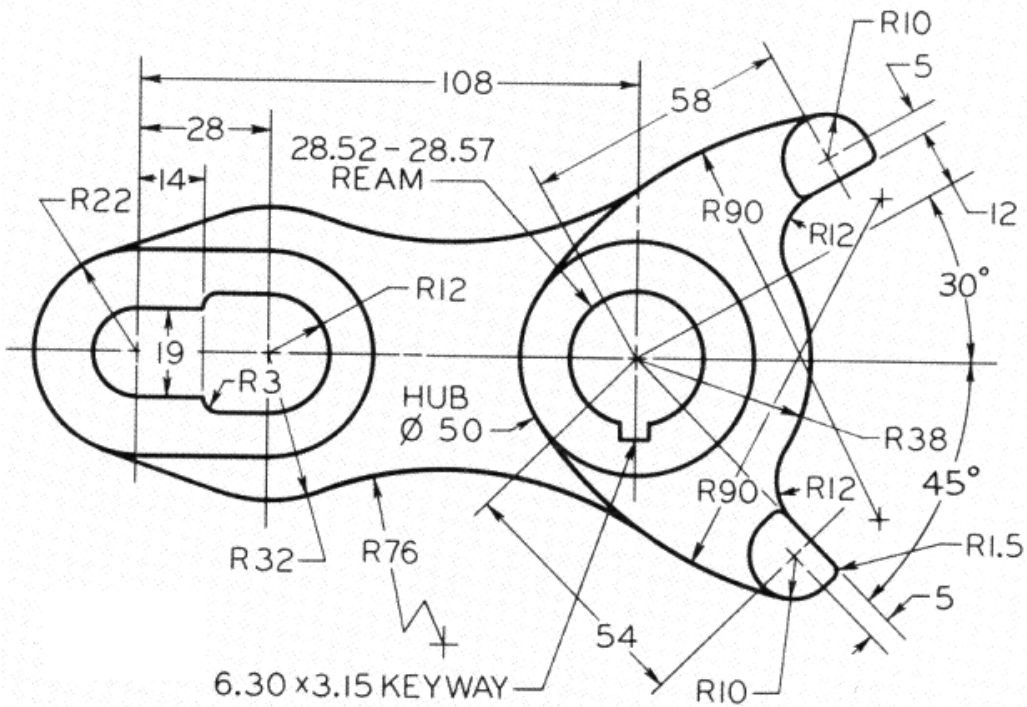
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

EX: 43



Special S-Wrench.

EX: 44



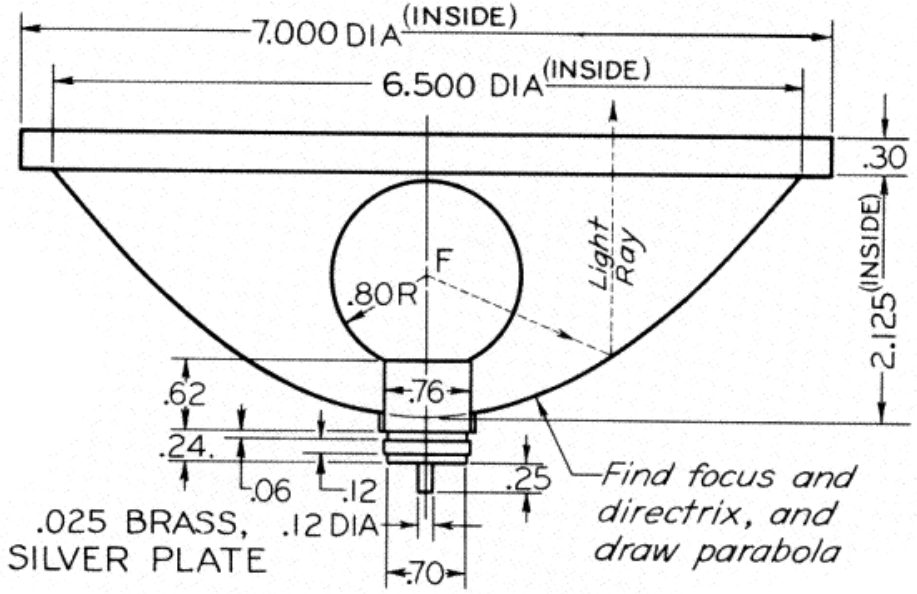
Form Roll Lever.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

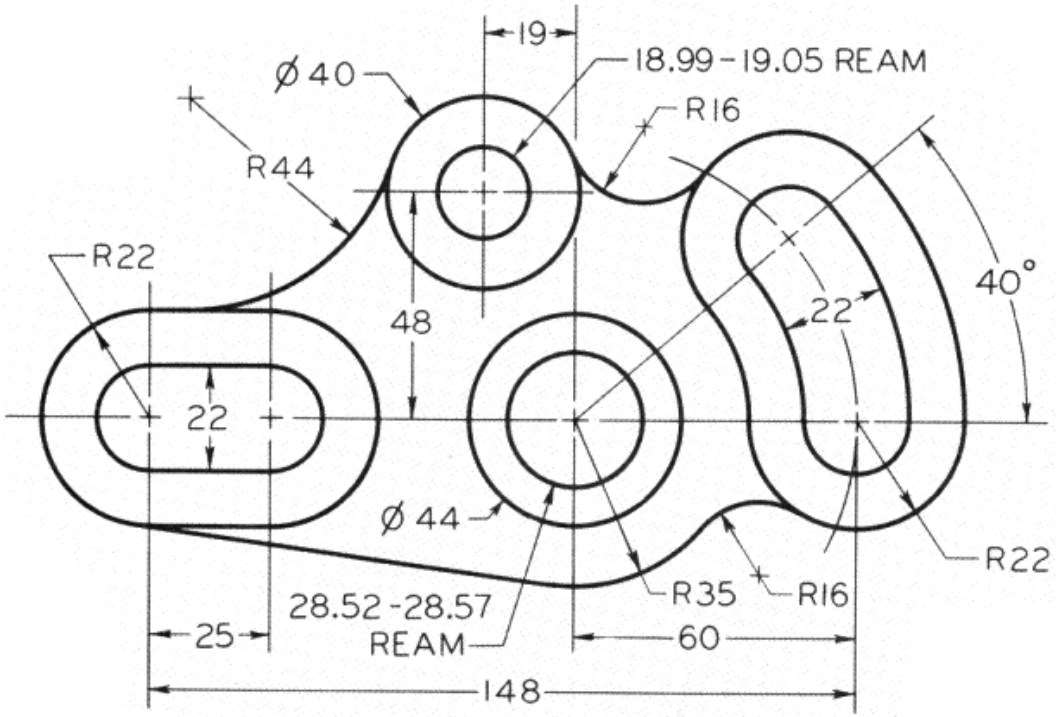
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

EX: 45



Auto Headlight Reflector.

EX: 46



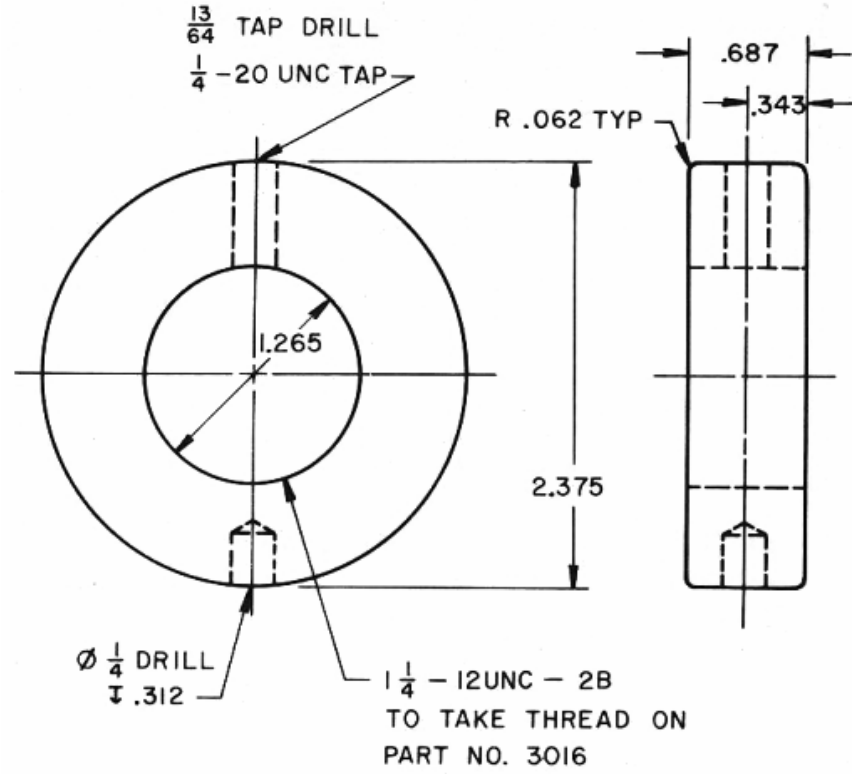
Gear Arm.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

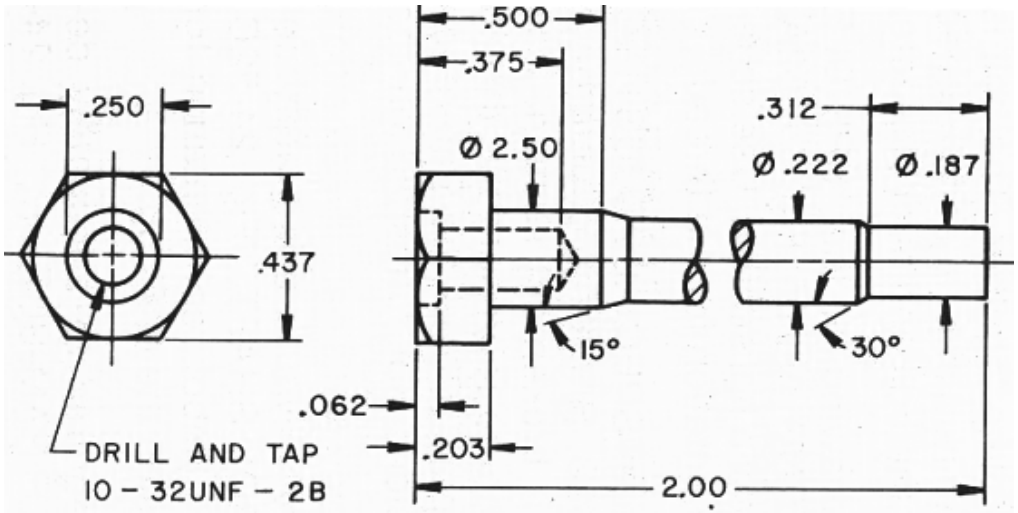
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

EX: 47



SPINDLE BEARING ADJ. NUT

EX: 48



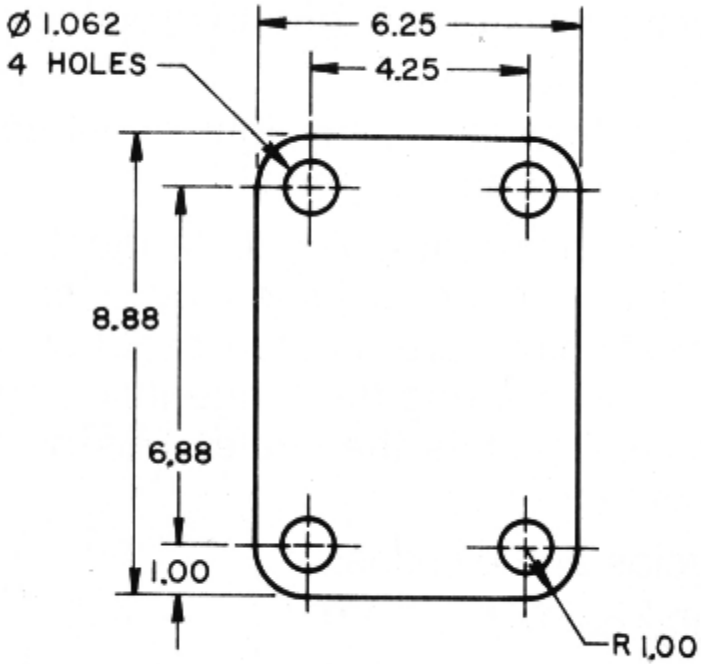
SPECIAL ADJUSTING SCREW

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

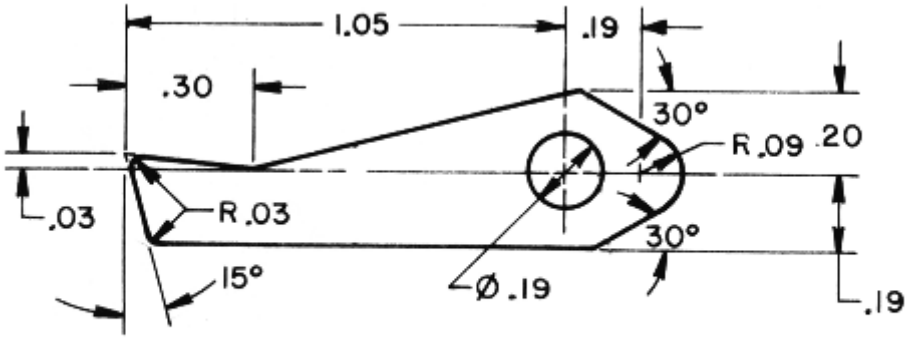
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX: 49



PLATE

EX: 50



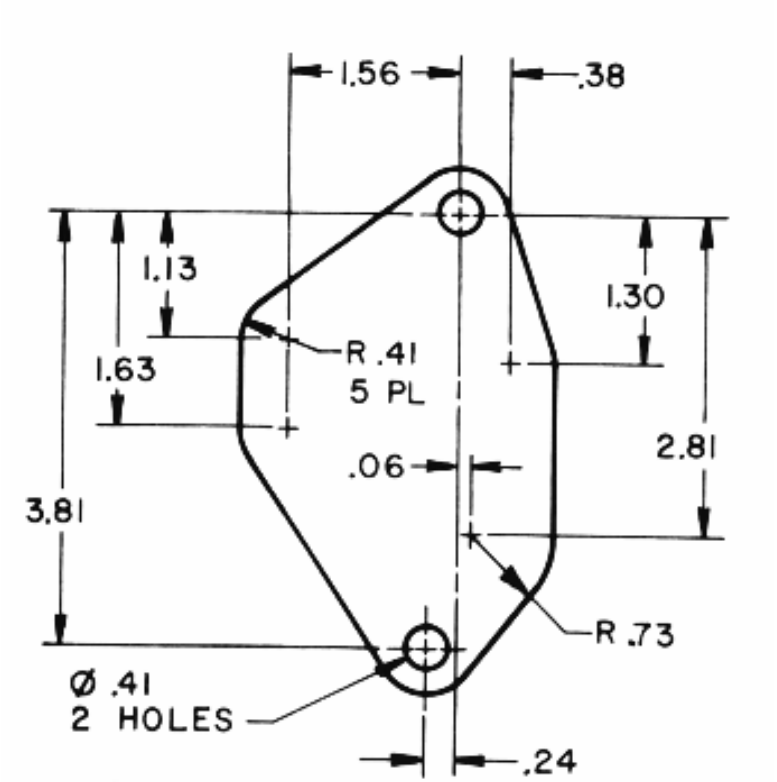
PAWL

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

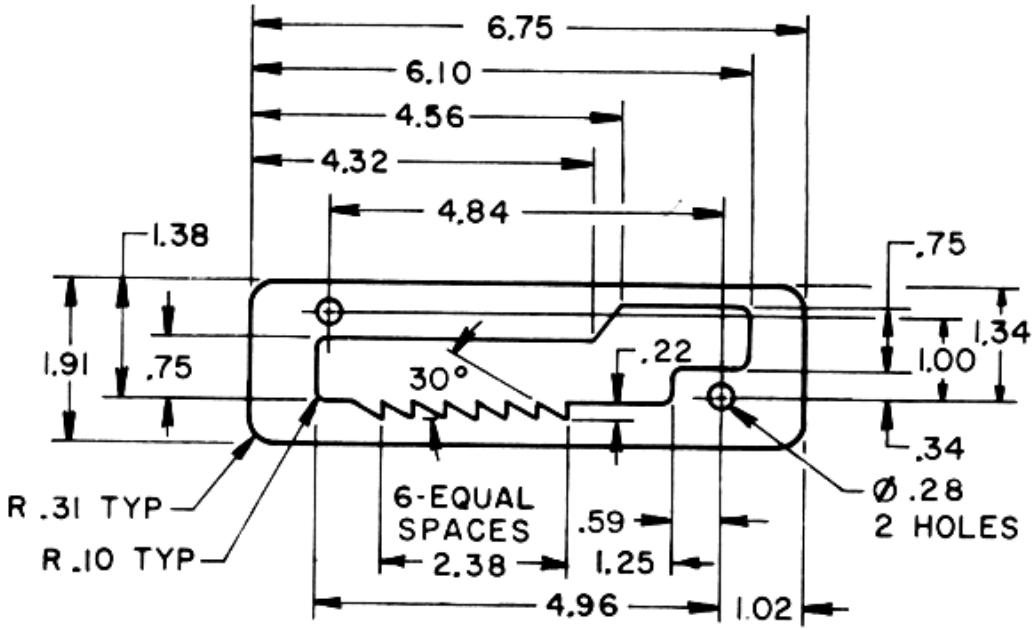
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX: 51



PLATE, COVER

EX: 52



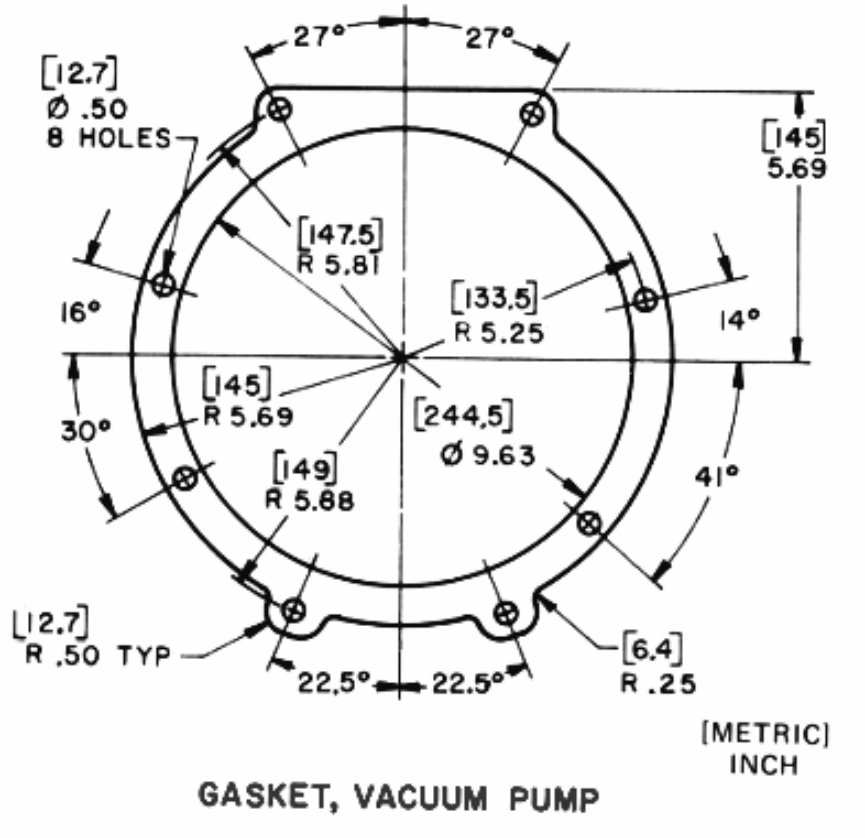
GATE, THROTTLE GUIDE

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

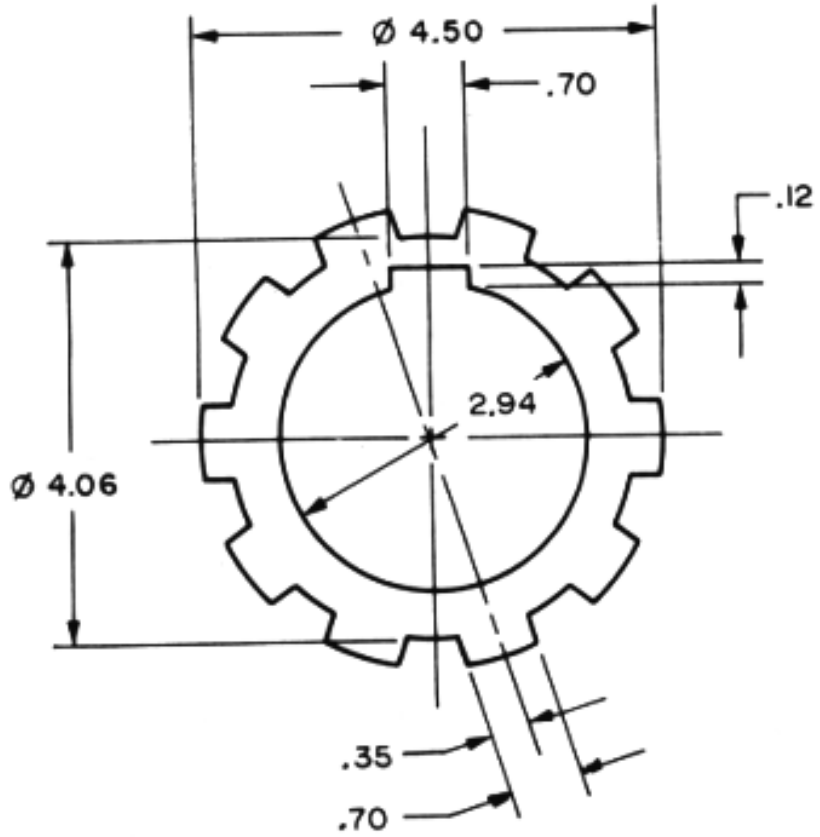
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX: 53



GASKET, VACUUM PUMP

EX: 54



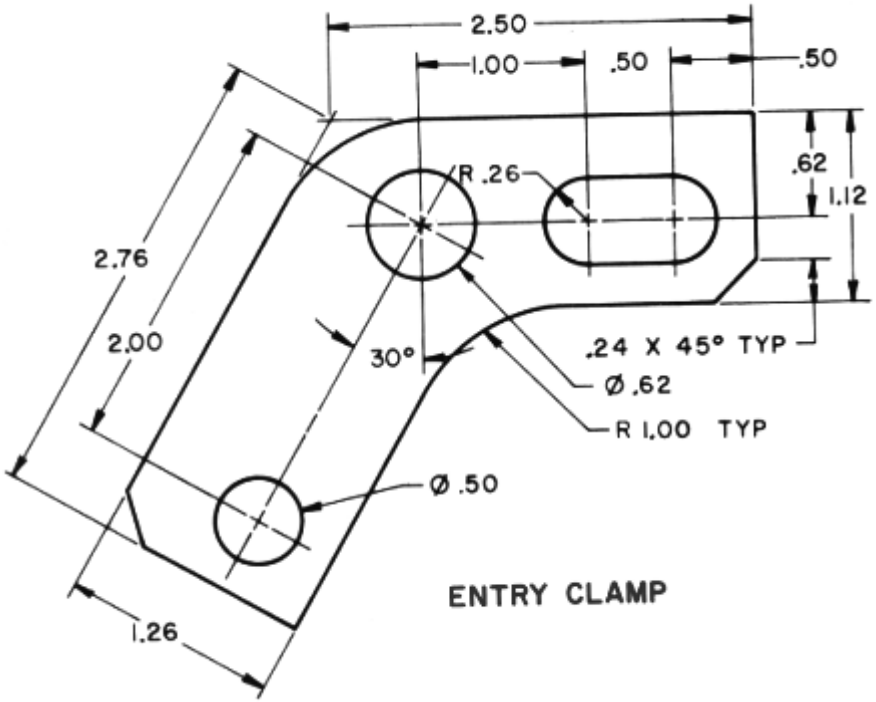
TEMPLATE

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

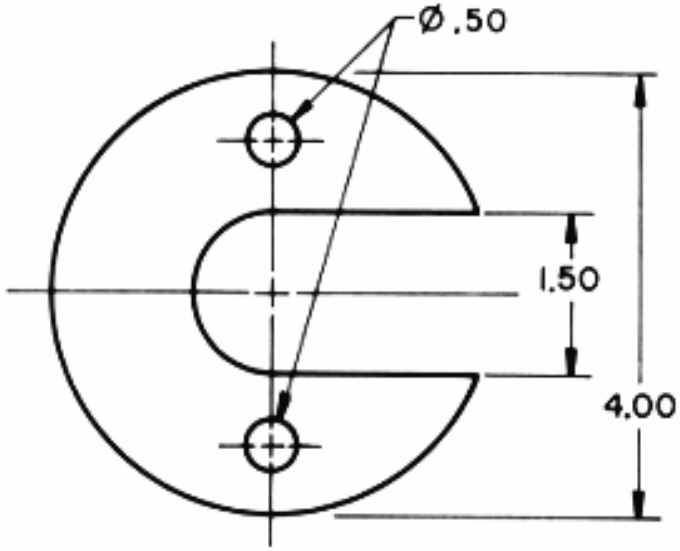
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX: 55



ENTRY CLAMP

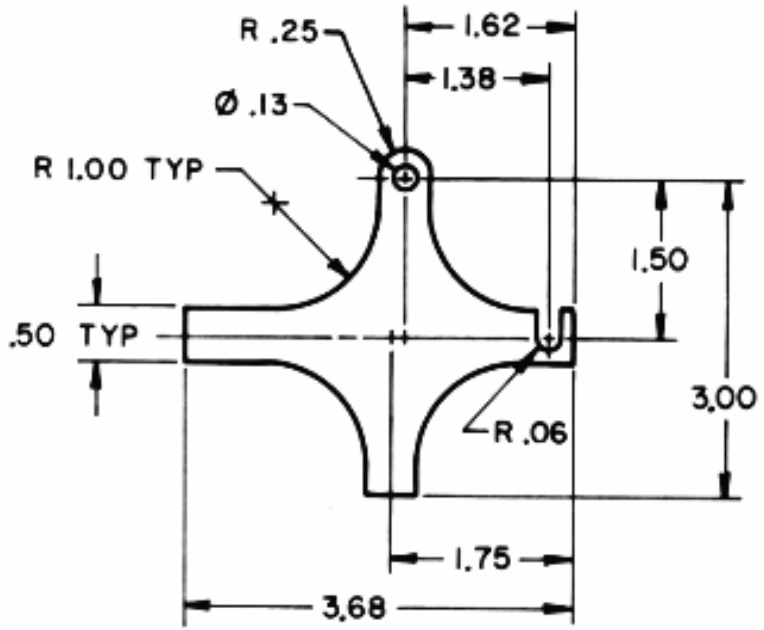
EX: 56



C – WASHER

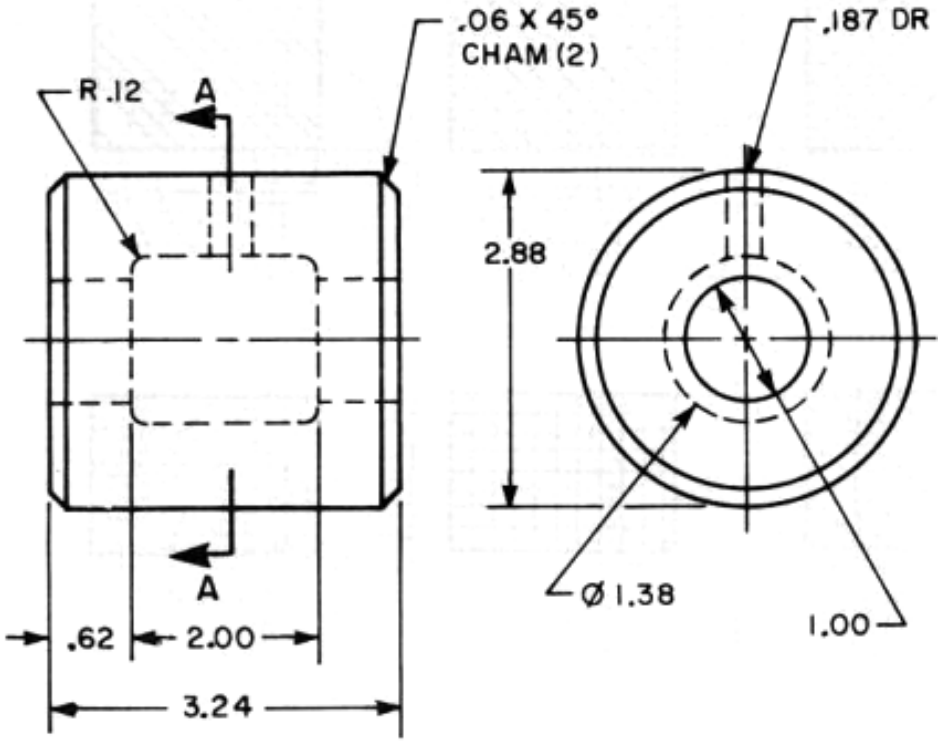
ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				
MSME TOOL ROOM AURANGABAD INDO GERMAN TOOL ROOM AURANGABAD				DRG. NO.	DRG. TYP / SHEET / SIZE / CONT. NO.

EX: 57



DRILL JIG

EX: 58



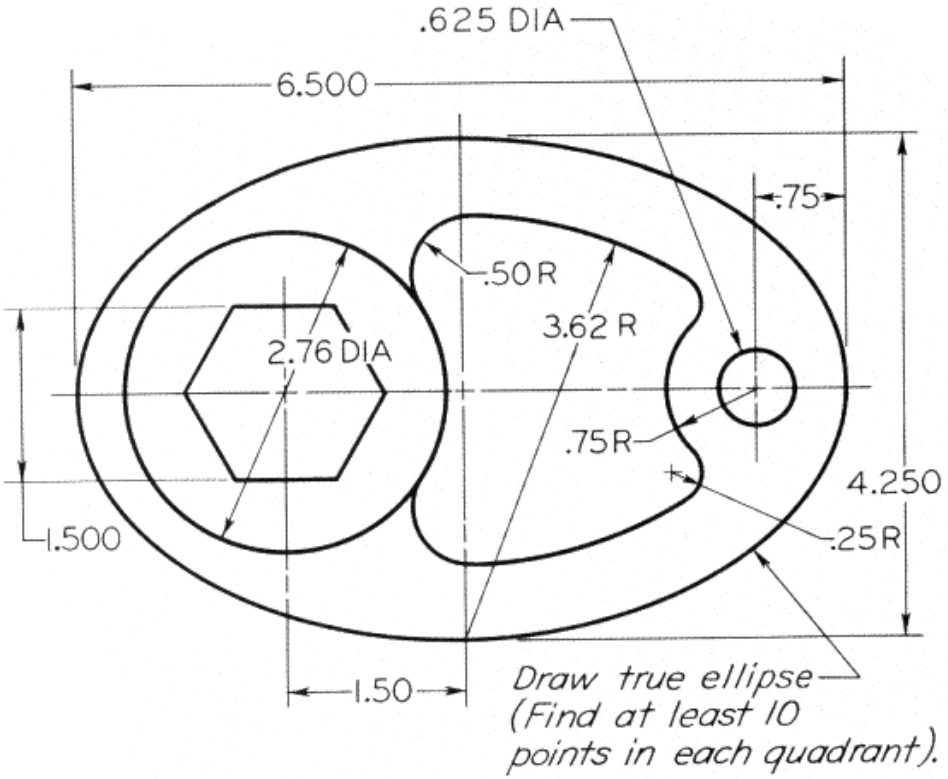
SLEEVE

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

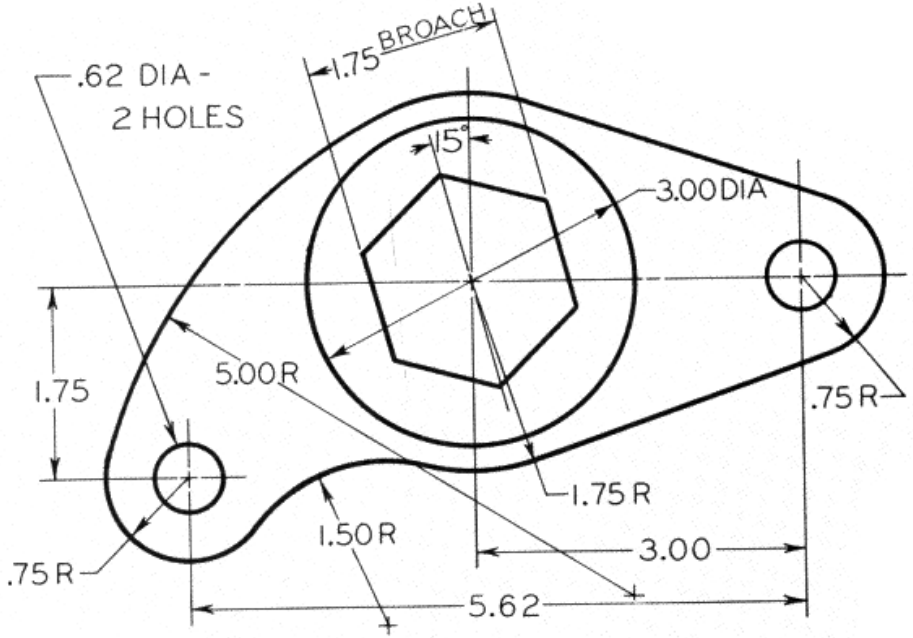
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX: 59



Special Cam.*

EX: 60



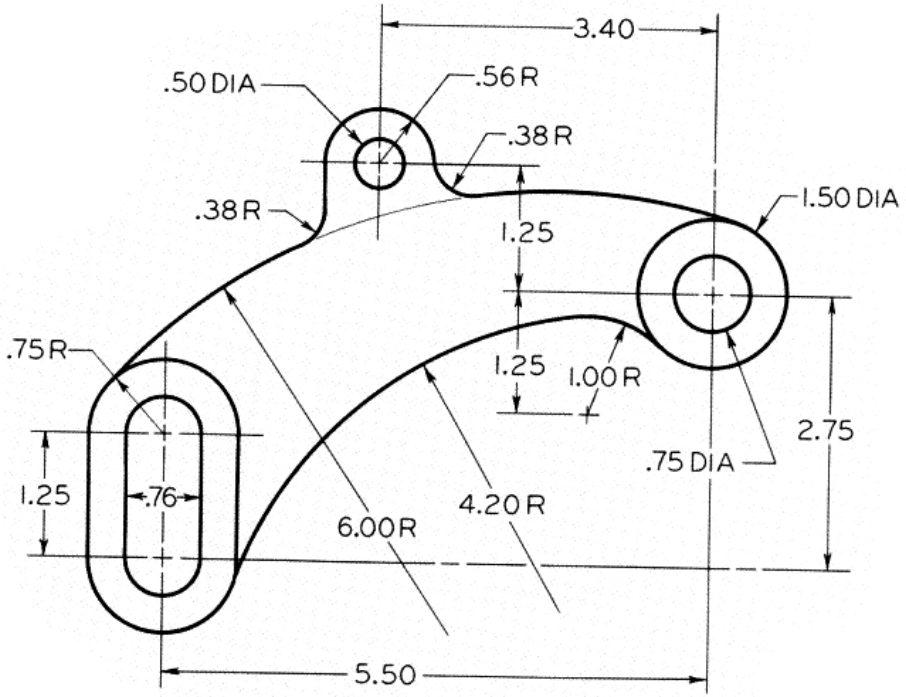
Rocker Arm.*

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

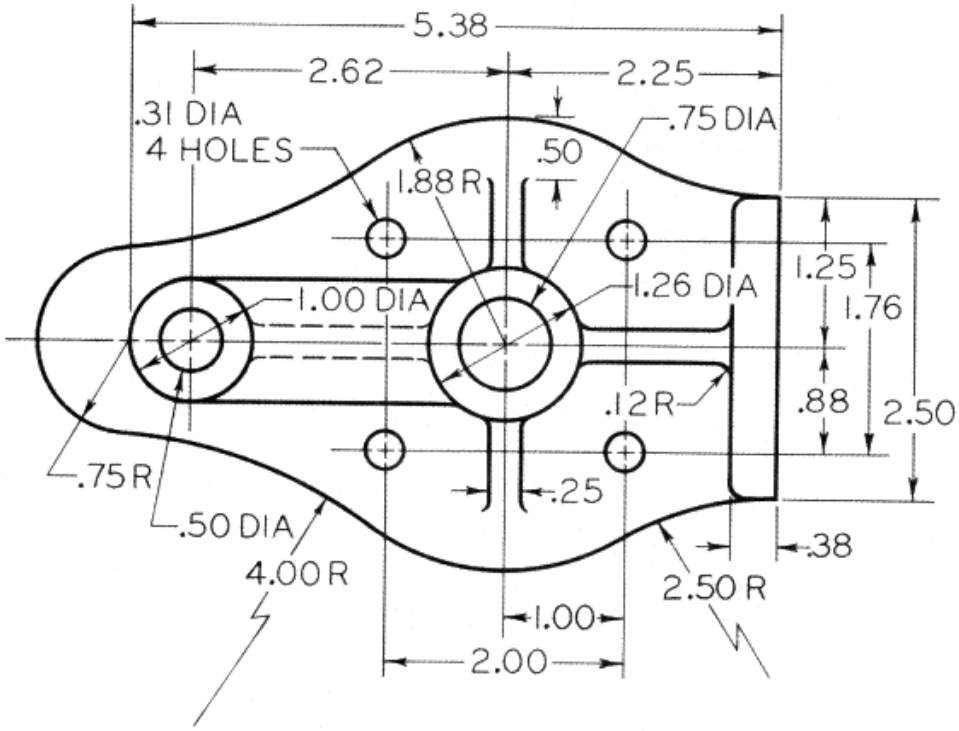
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX: 61



Shift Lever.

EX: 62



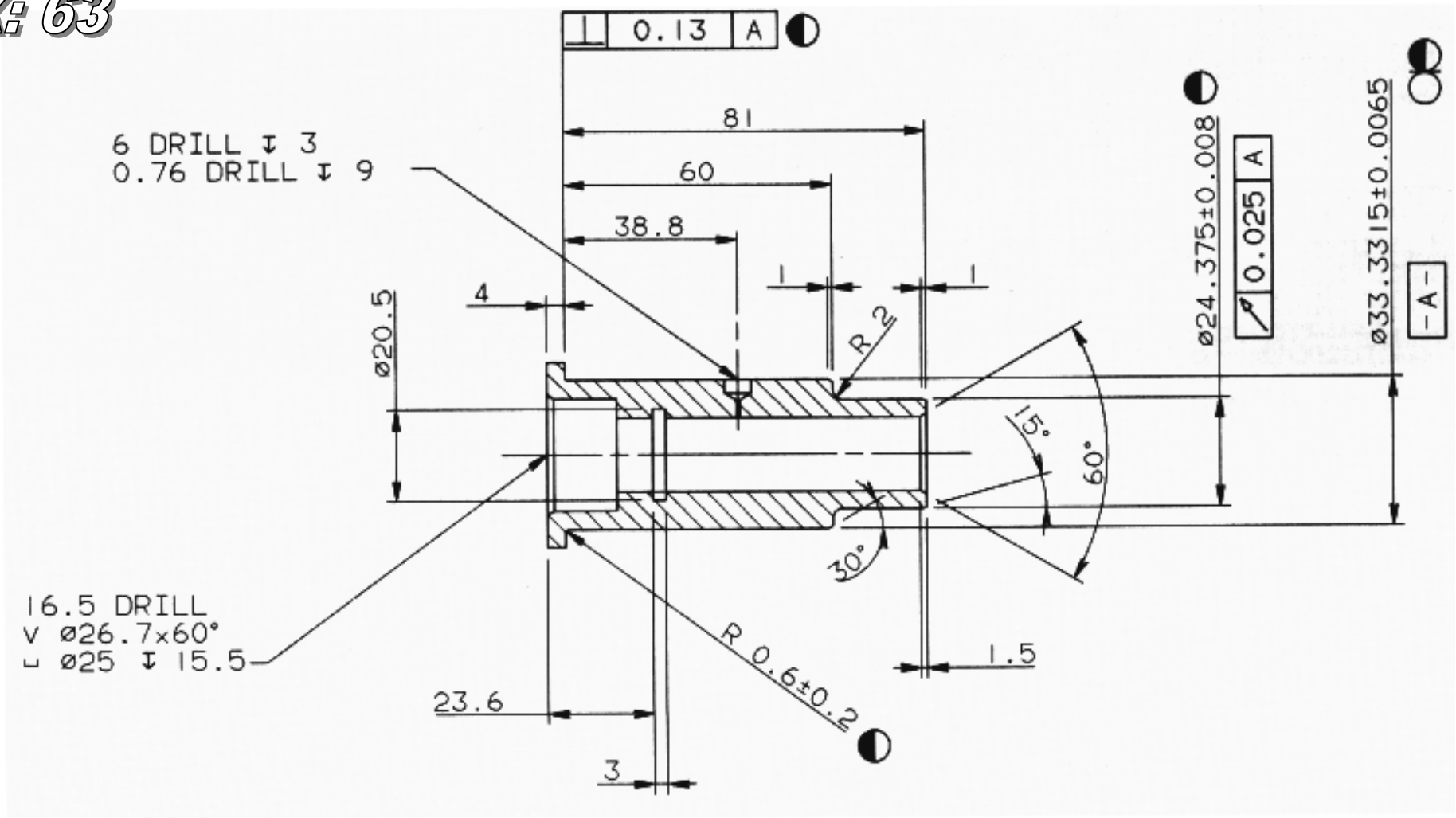
Press Base.*

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

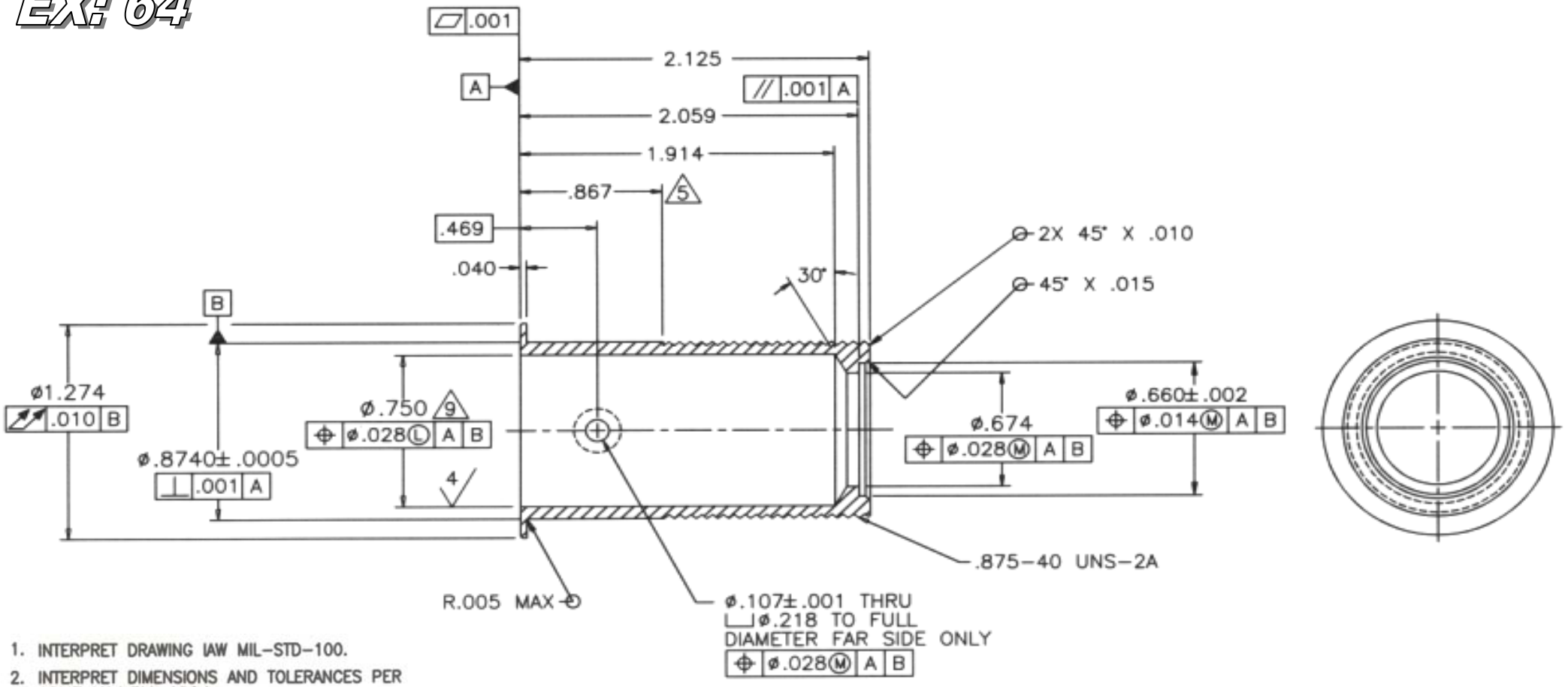
EX: 63



5. IDLER GEAR SHAFT

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				
MSME TOOL ROOM AURANGABAD INDO GERMAN TOOL ROOM AURANGABAD				DRG. NO. / DRG. TYP / SHEET / SIZE / CONT. NO.	

EX: 64



1. INTERPRET DRAWING IAW MIL-STD-100.
2. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994.
3. PART TO BE FREE OF BURRS AND SHARP EDGES.
4. VACUUM BAKE (10^{-4} TO 10^{-5} TORR). TEMP RISE 300° C/10 MIN TO 900° C. HOLD FOR 15 MIN AT 900° C. COOL TO 500° C IN 10 MIN, 500° C TO 100° C IN 30 MIN, REMOVE AND AIR COOL TO ROOM TEMP (20° C).

(5) THREAD RELIEF .10 LONG MAX.

6. IDENTIFY IAW MIL-STD-130 BY BAG AND TAG INCLUDE LATEST REV LEVEL.

(7) ELECTROLESS NICKEL PLATE PER MIL-C-26074, CL 2 (.0001/.0002 THK).

8. DIMENSIONS TO APPLY AFTER FINISH.

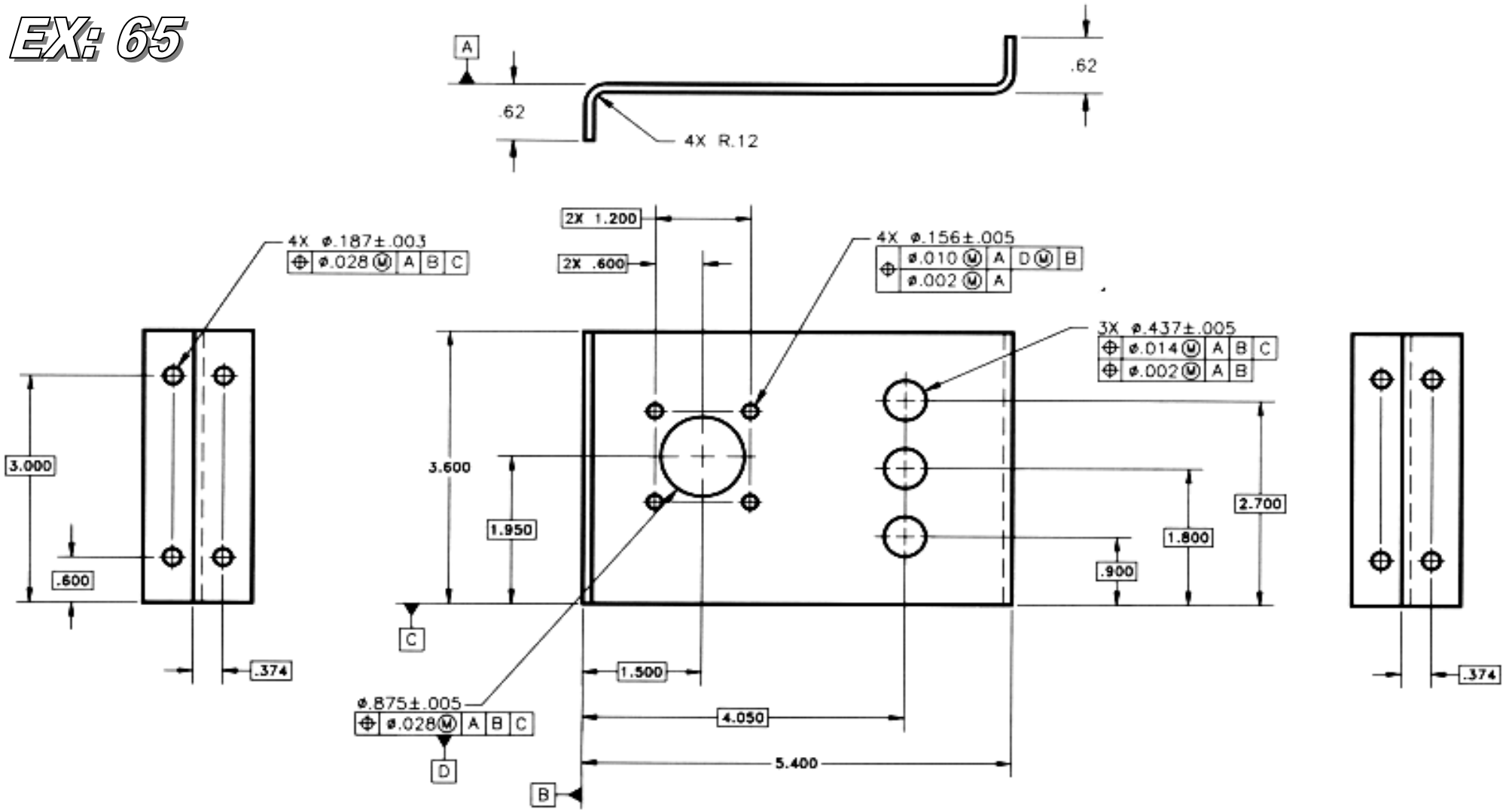
(9) GOLD PLATE INDICATED SURFACE PER MIL-G-45204, TYPE I, GRADE A, CLASS OPTIONAL, THICKNESS TO BE LESS THAN .0005 PER SURFACE.

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX: 65

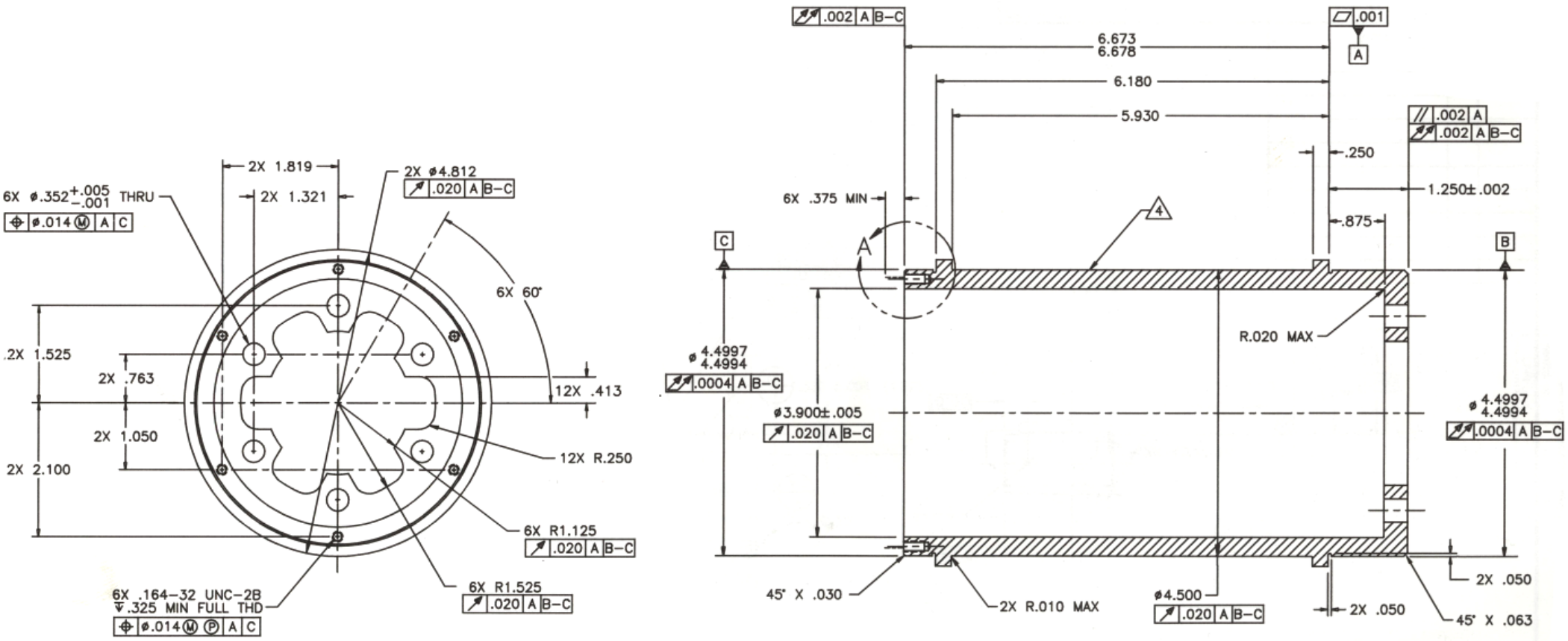


ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX: 66

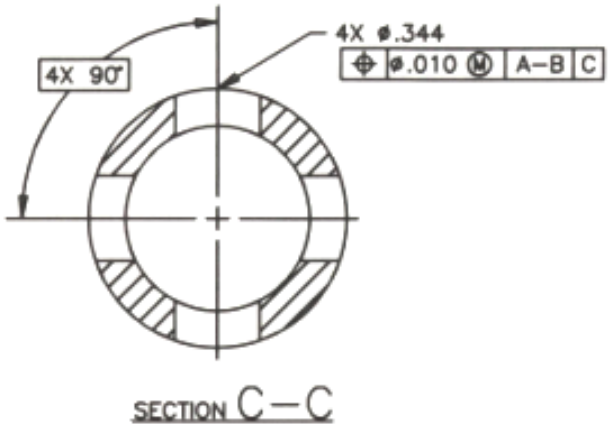


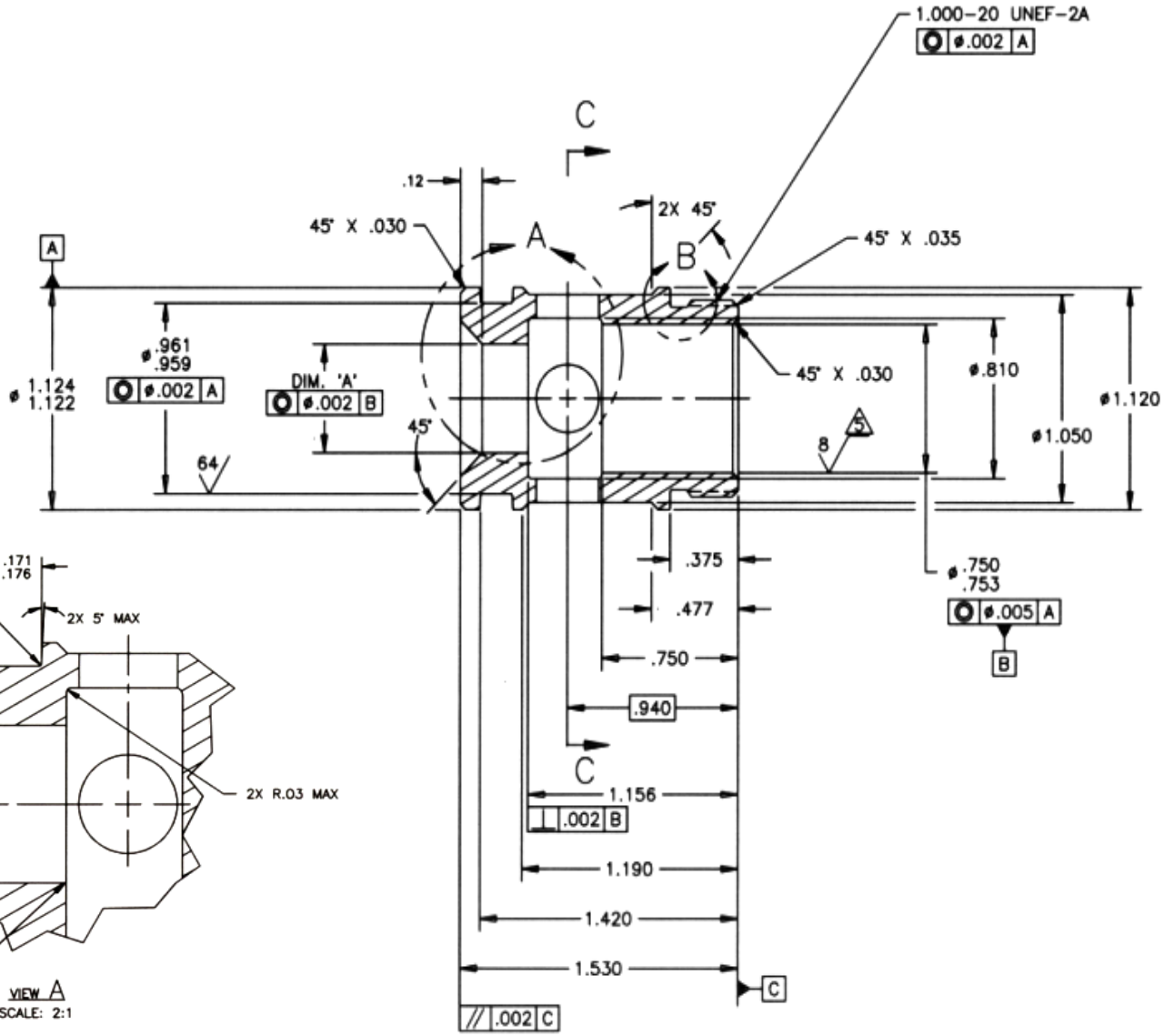
ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

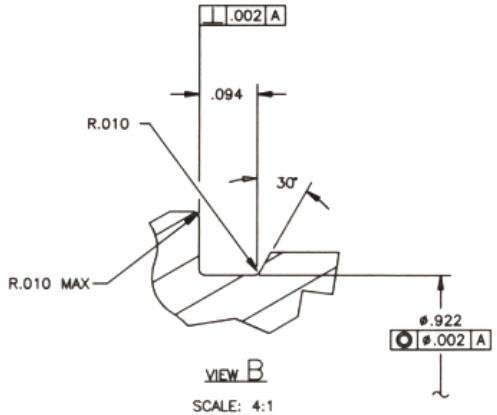
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX: 67





VIEW A
SCALE: 2:1



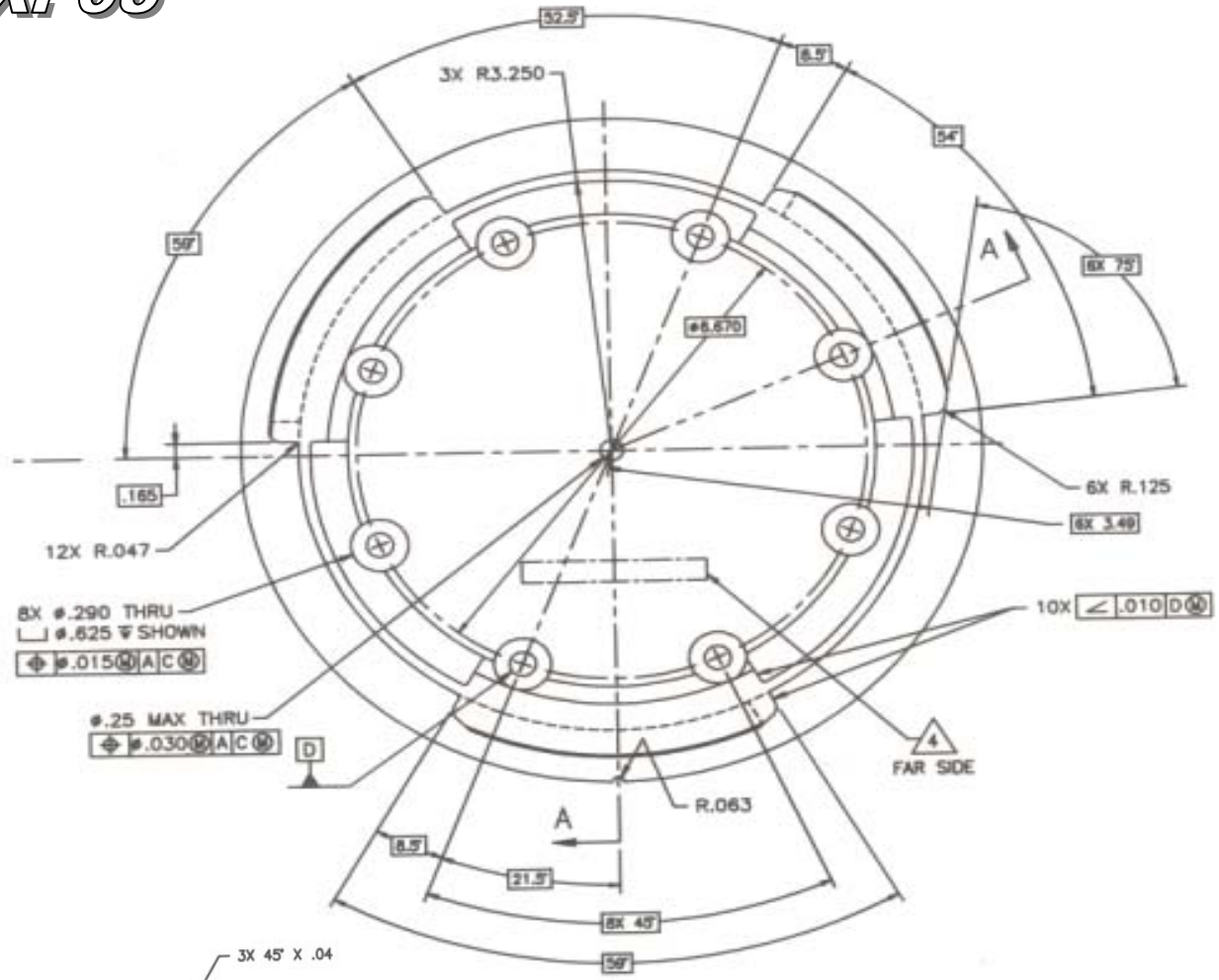
VIEW B
SCALE: 4:1

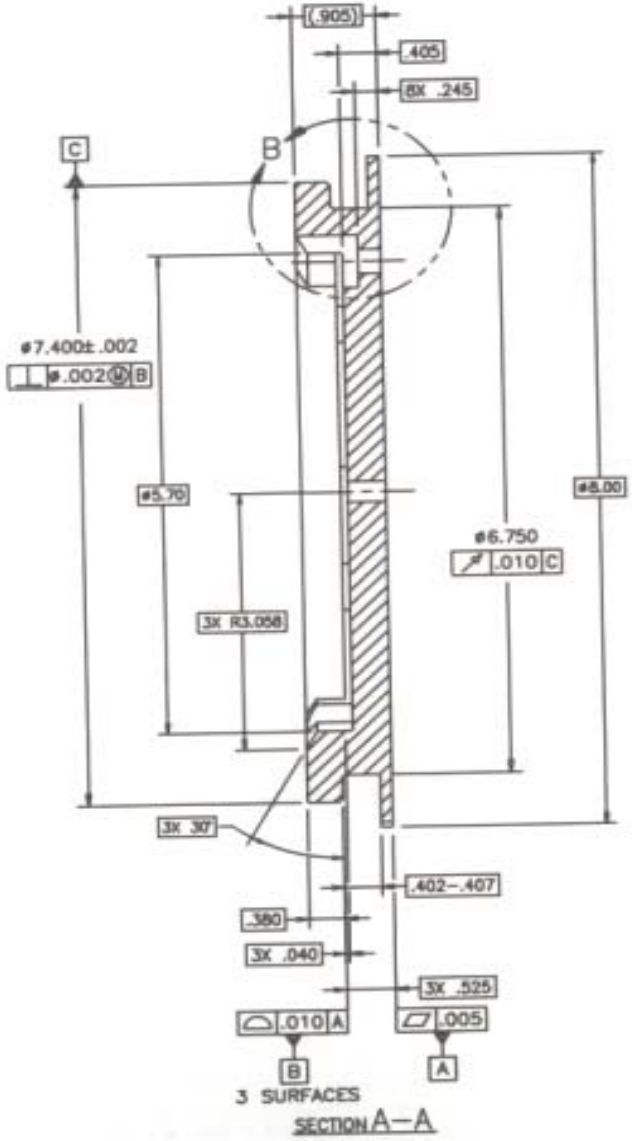
ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

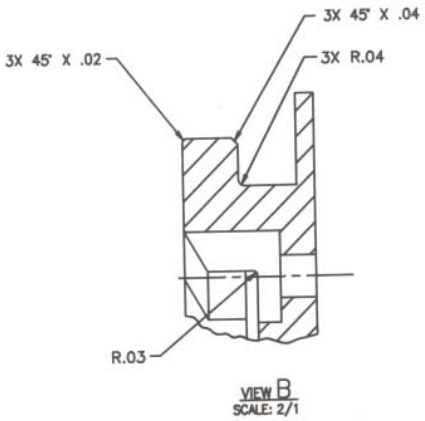
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX: 68





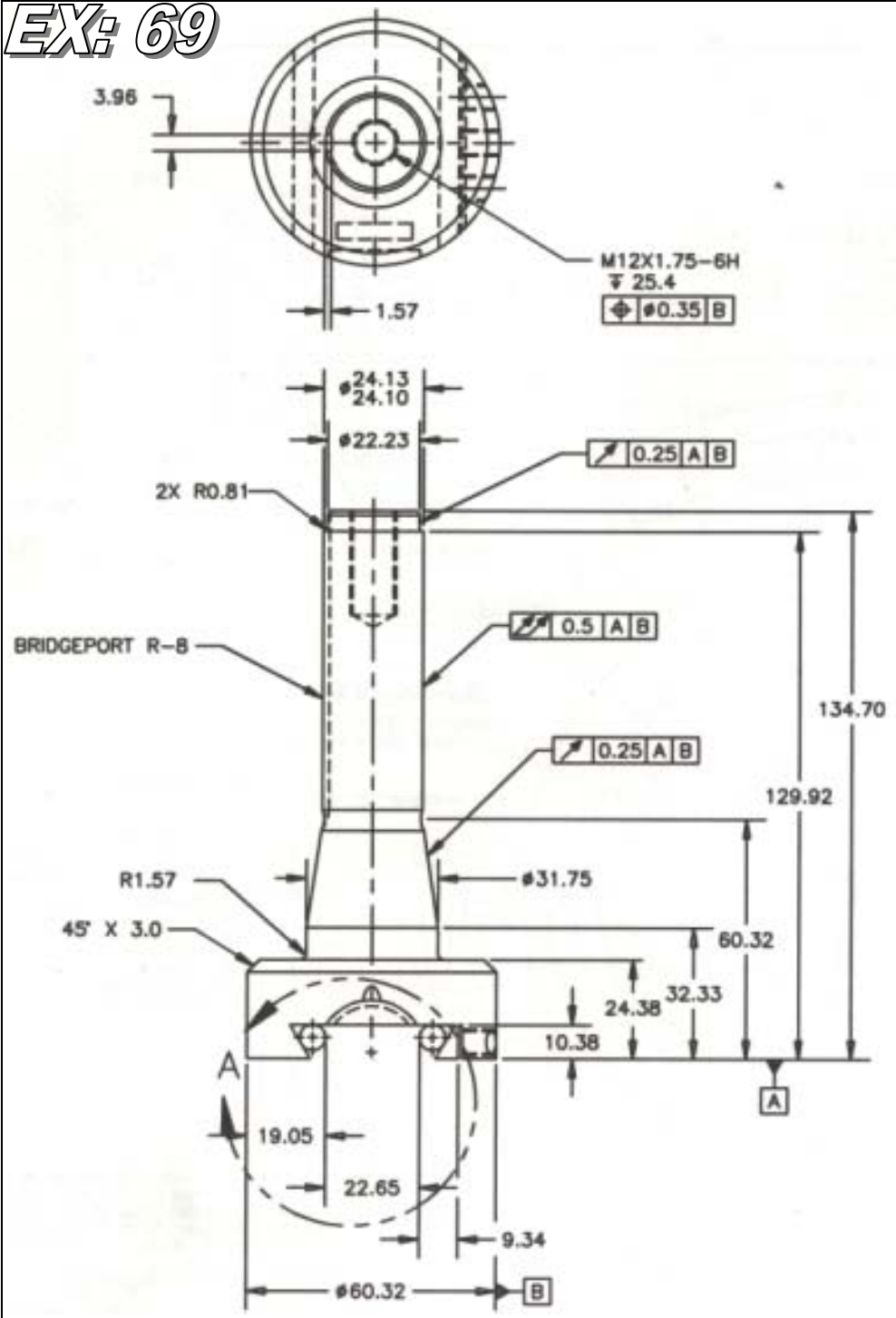


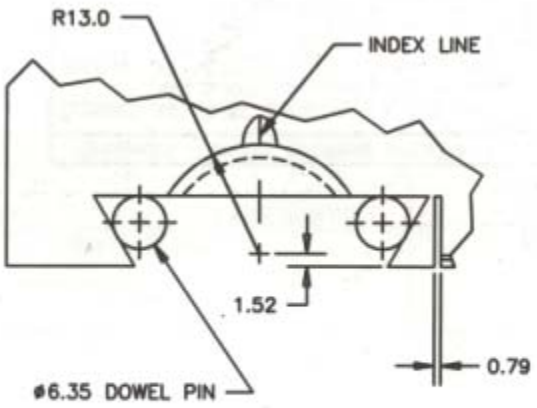
ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

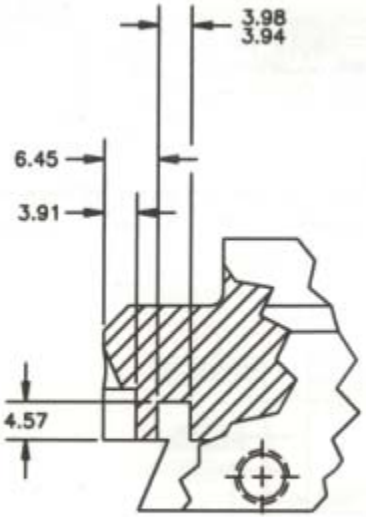
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX: 69

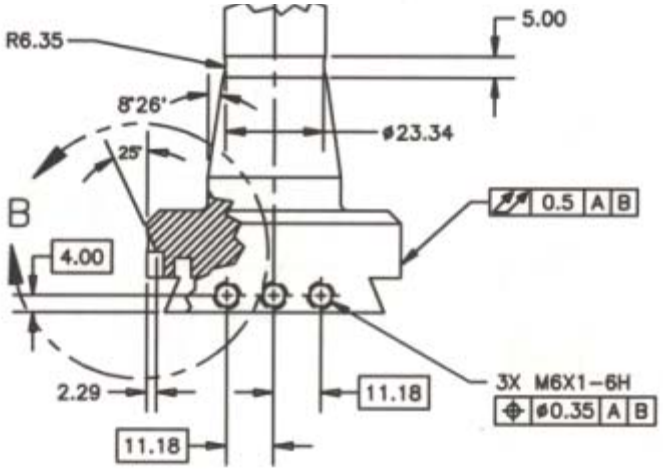




VIEW A
SCALE 2:1



VIEW B
SCALE 2:1

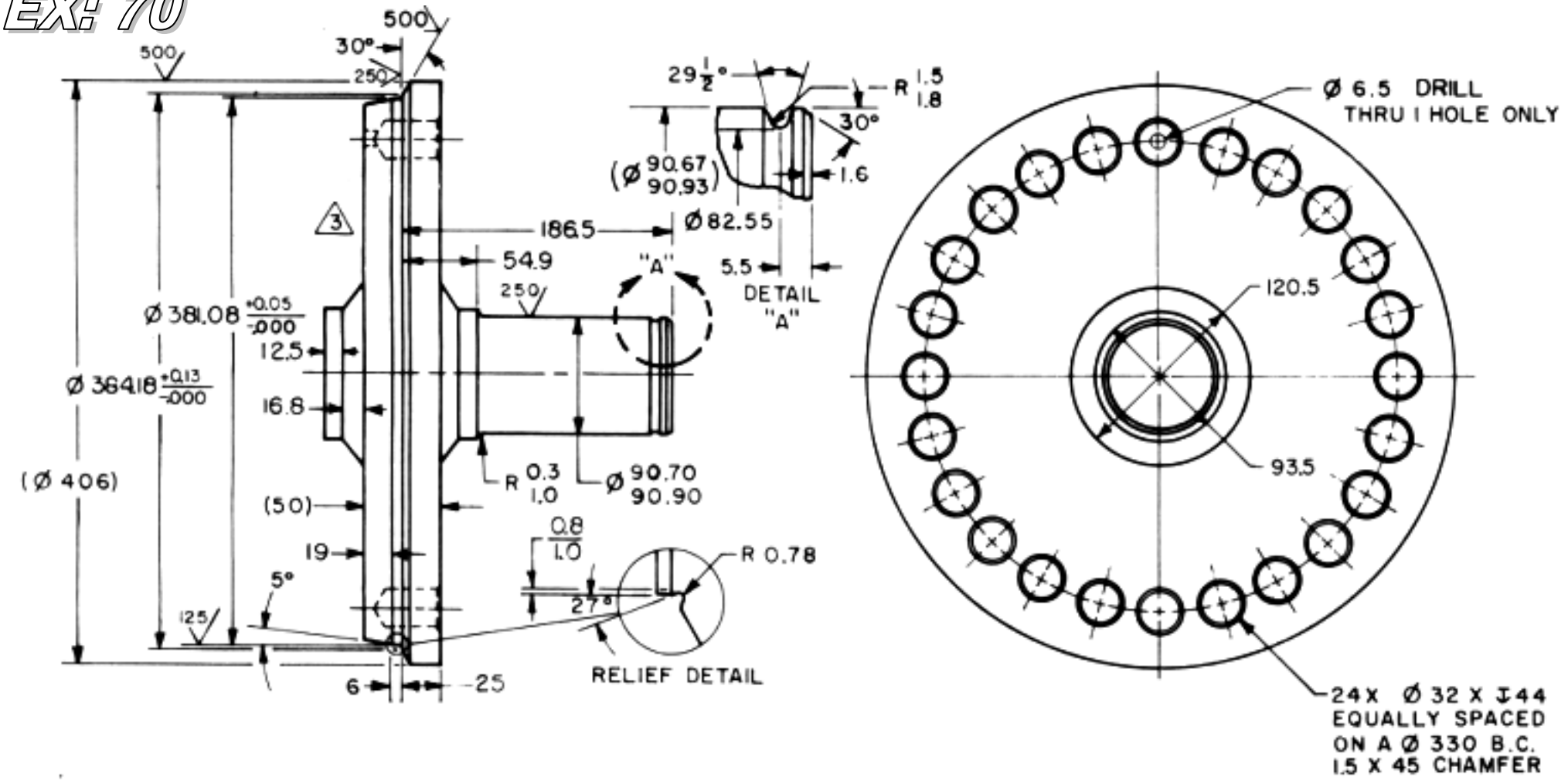


ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX: 70



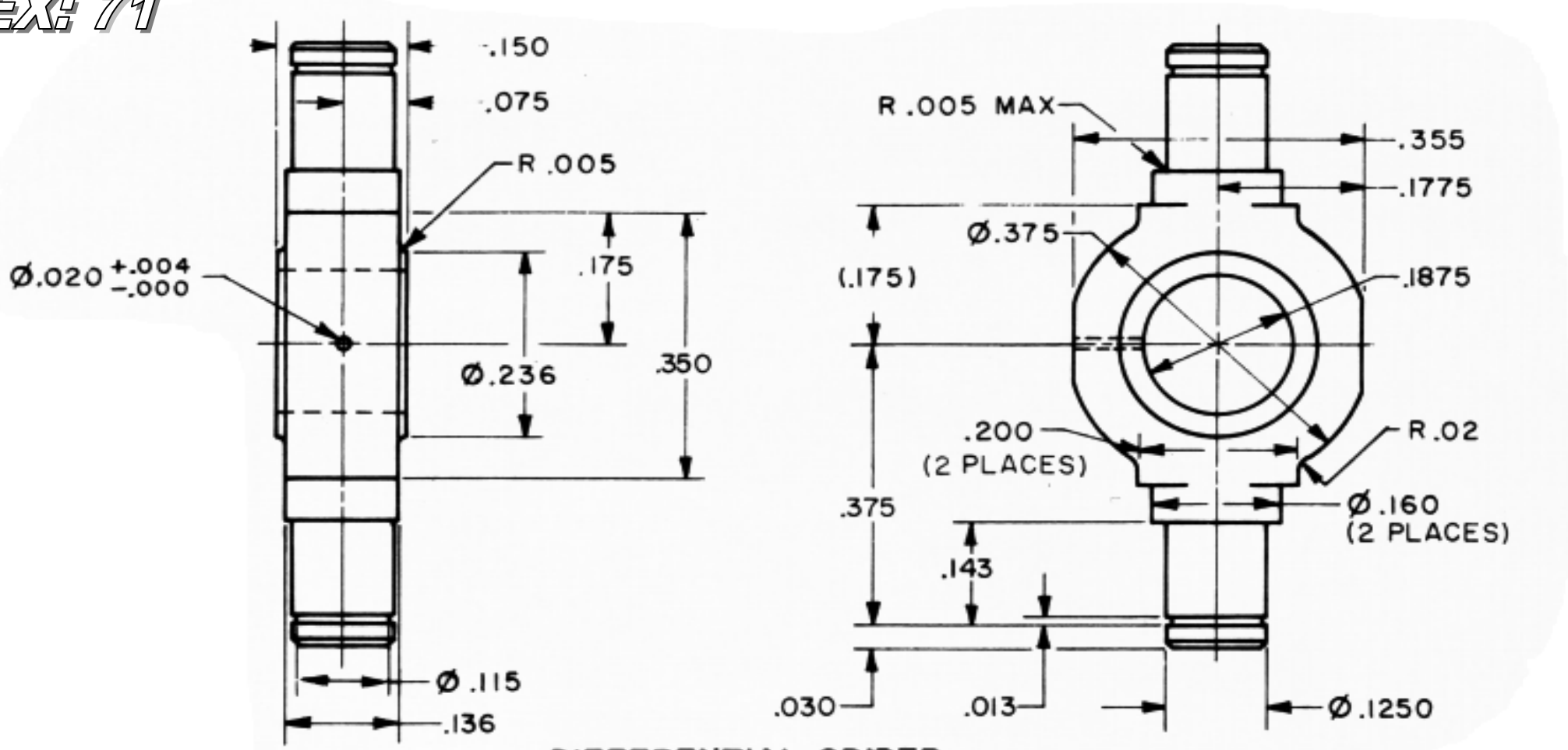
TRUNNION IDLER

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

EX: 71



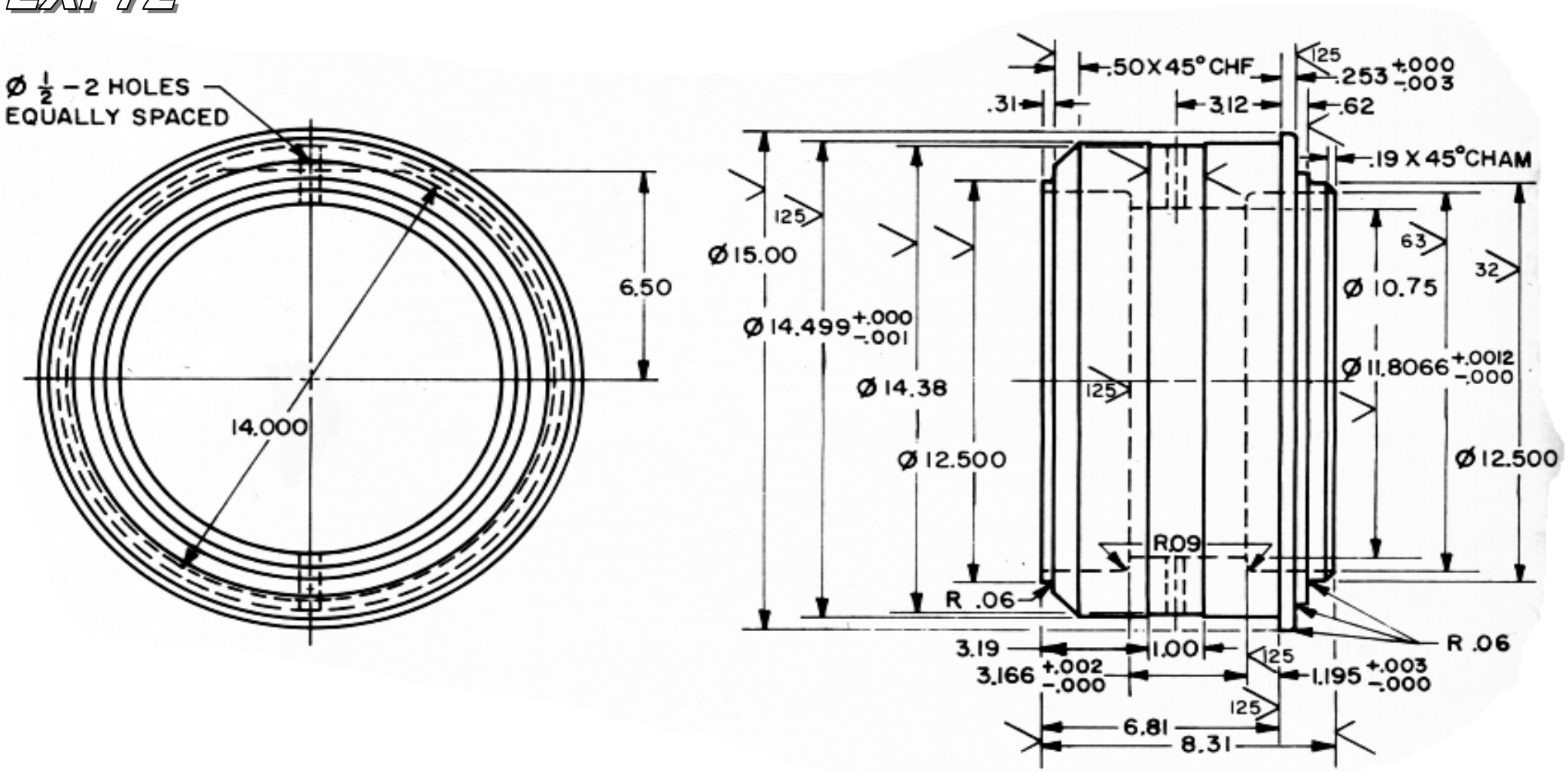
DIFFERENTIAL SPIDER

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX: 72



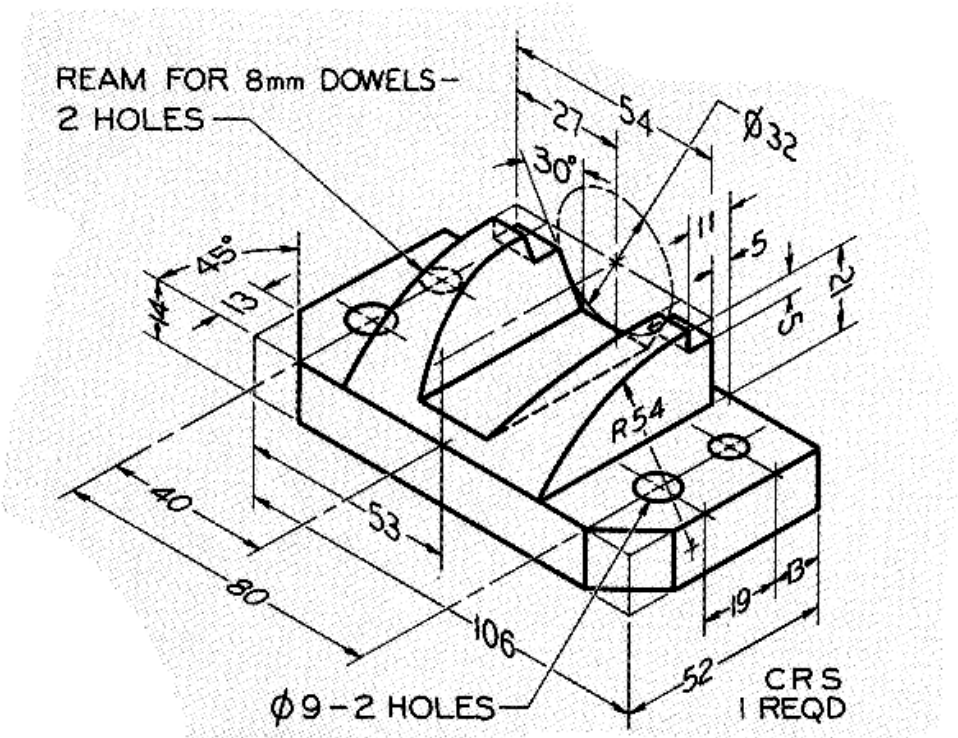
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SKETCHER	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

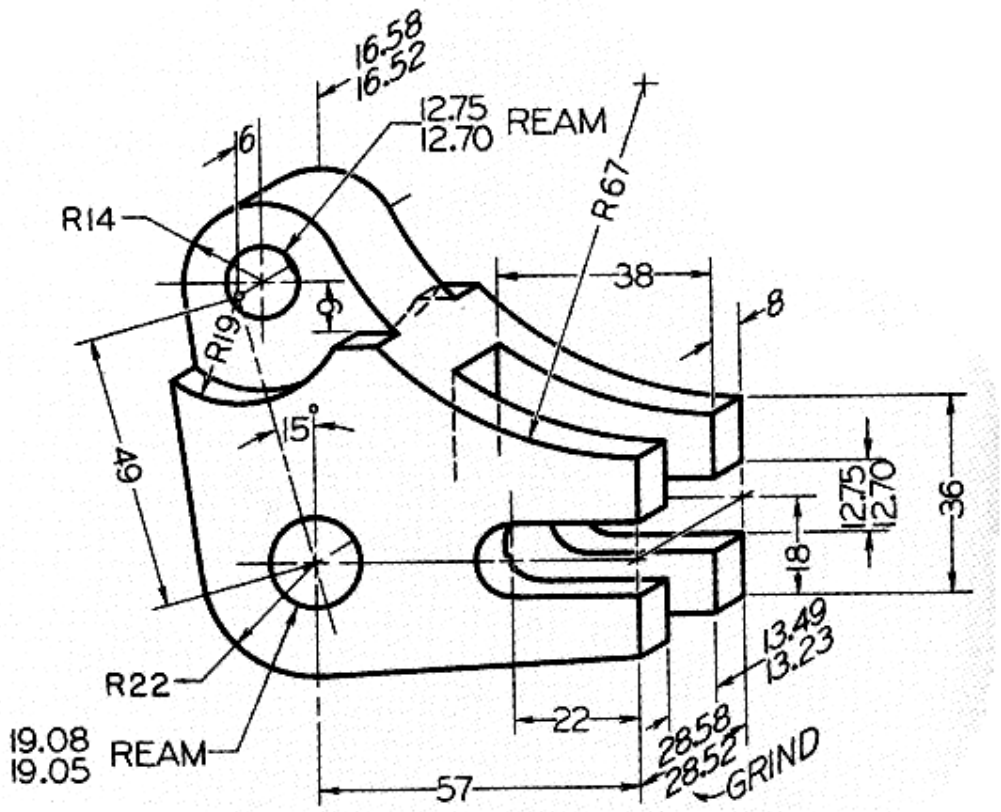
PART DESIGN

EX:50



Locating Finger

EX:51



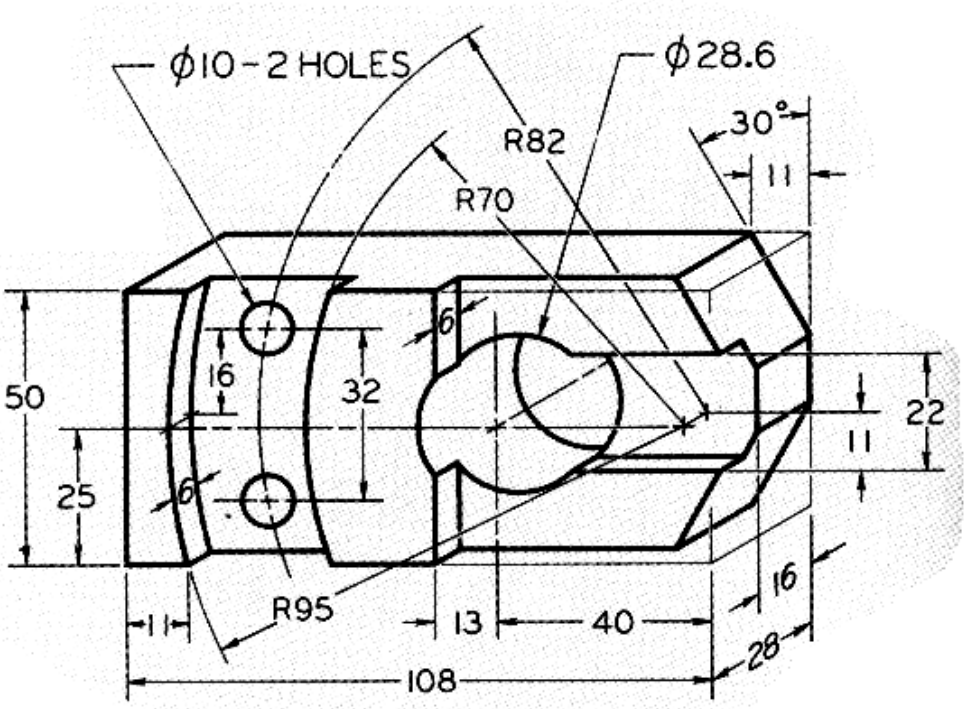
Toggle Lever

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

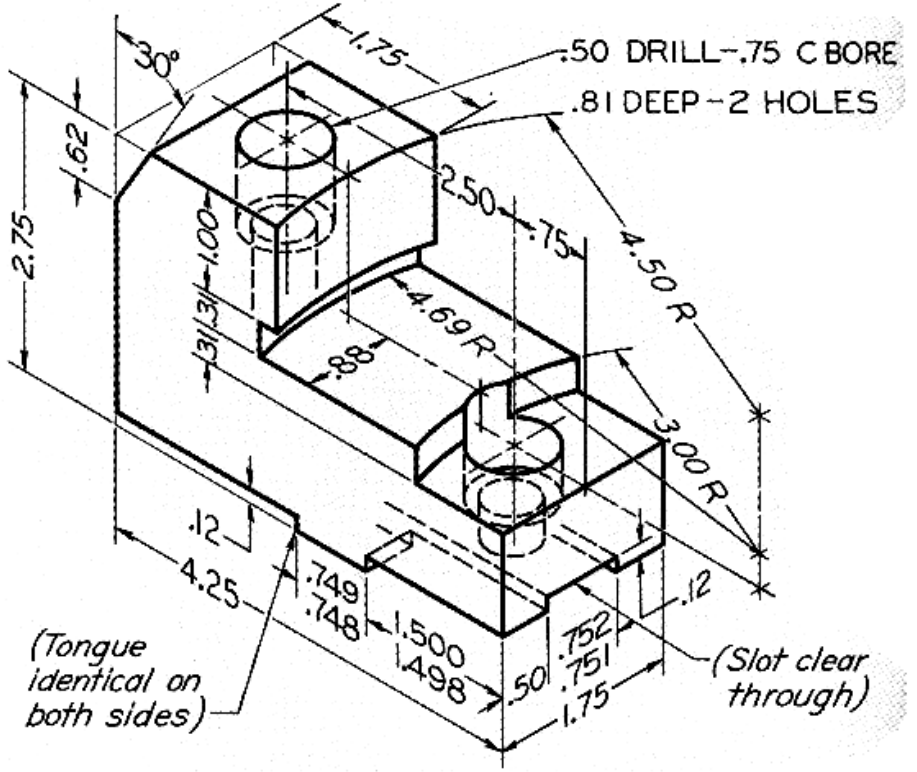
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:52



Index Slide

EX:53



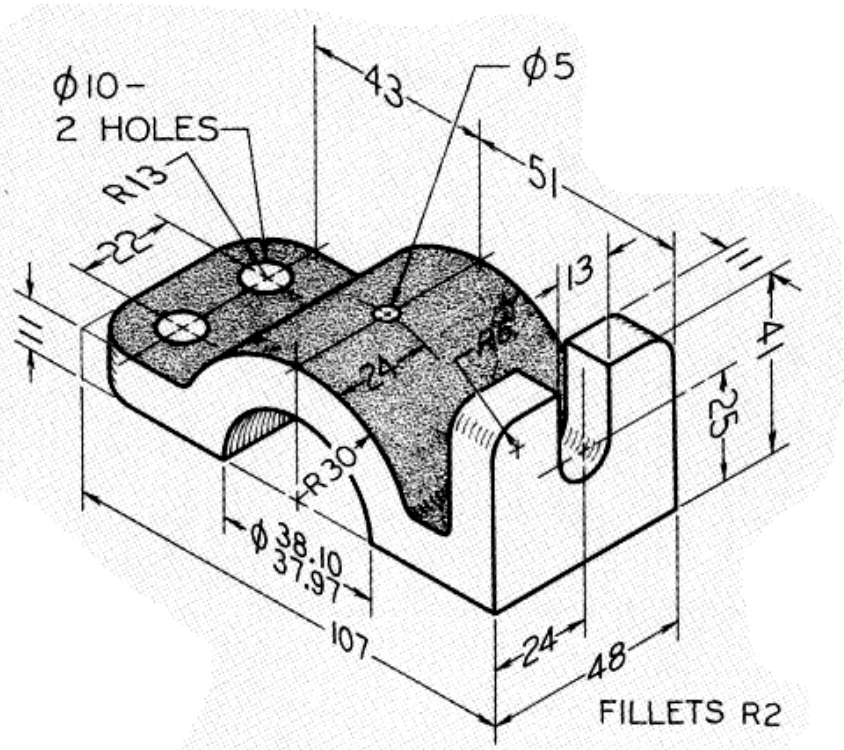
Chuck Jaw

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

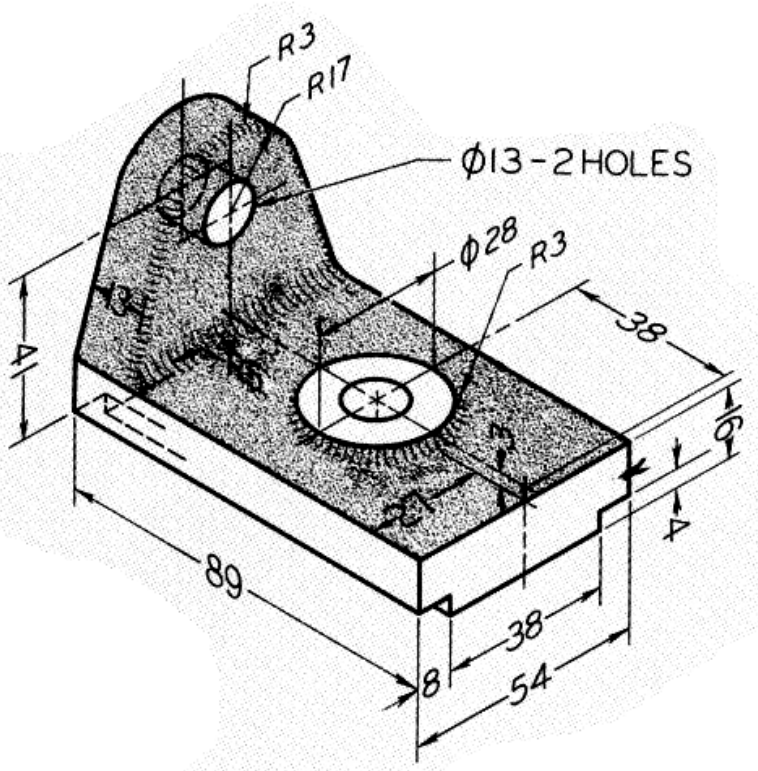
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:54



Frame Guide

EX:55



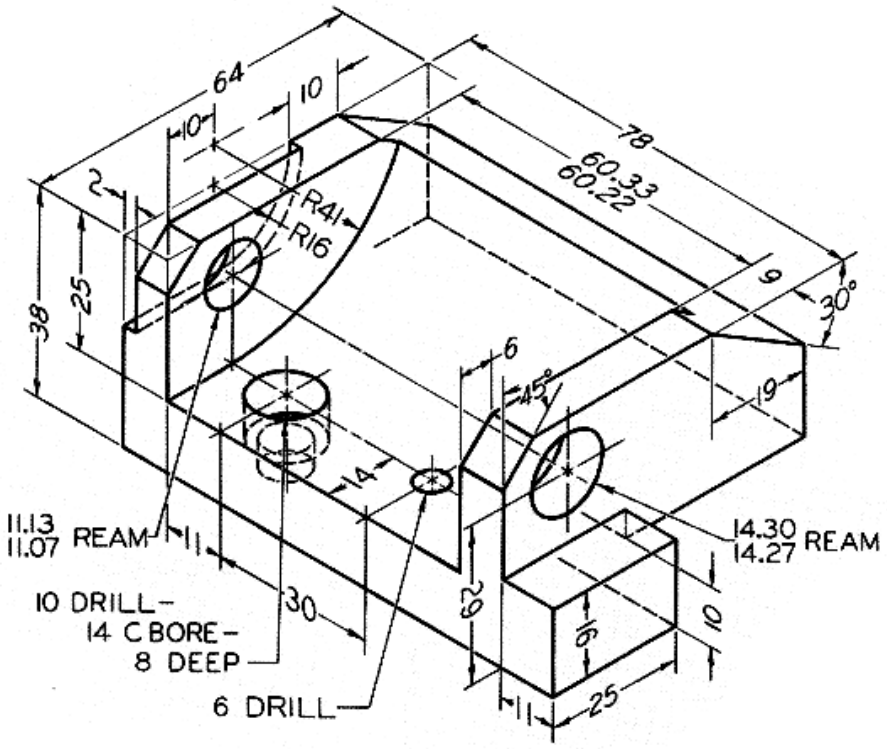
Cut-off Holder

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

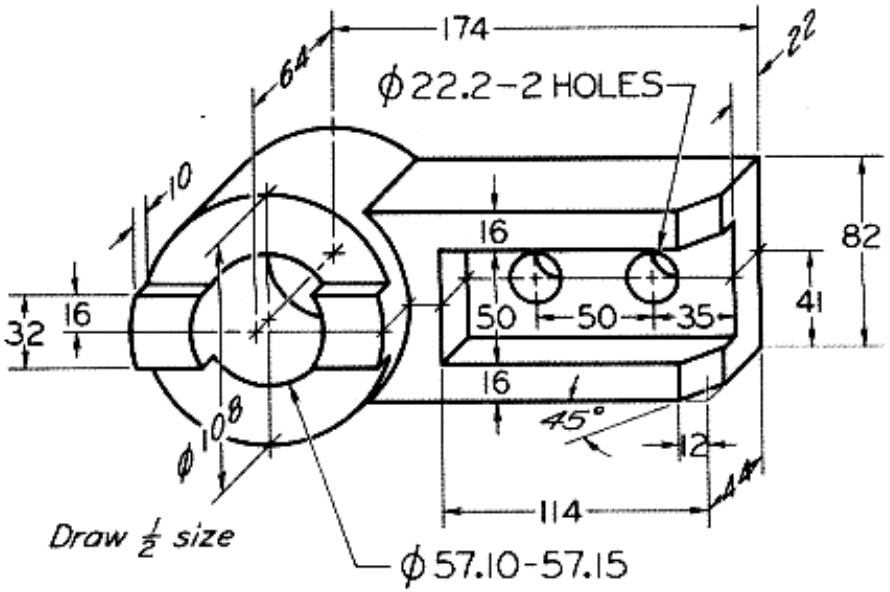
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:56



Hinge Block

EX:57



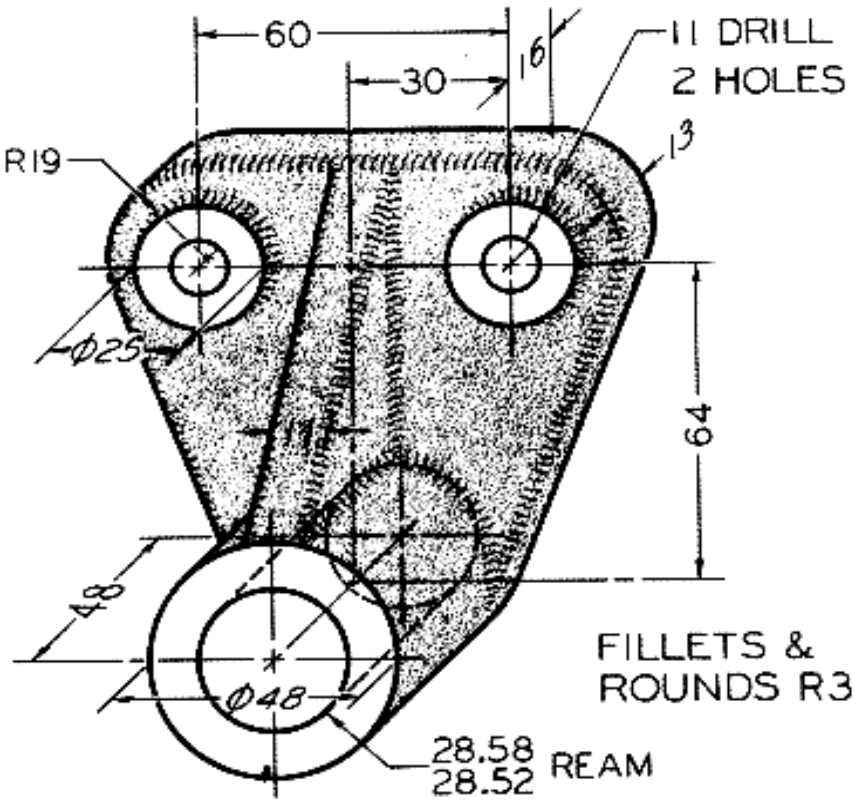
Lever Hub

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

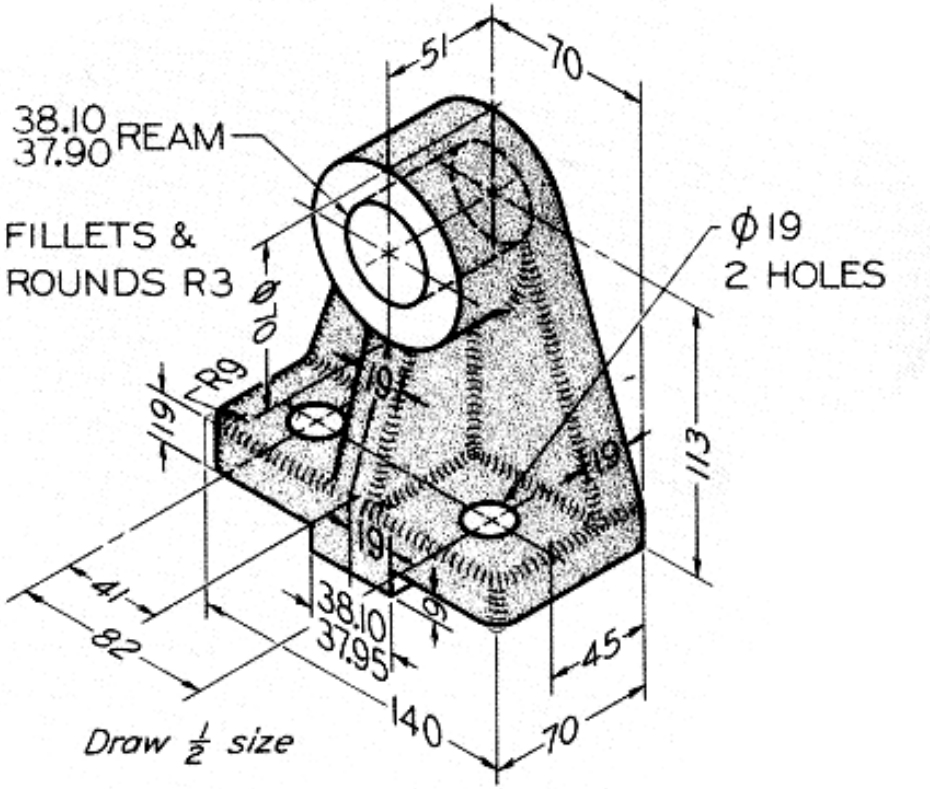
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:59



Feed Rod Bearing



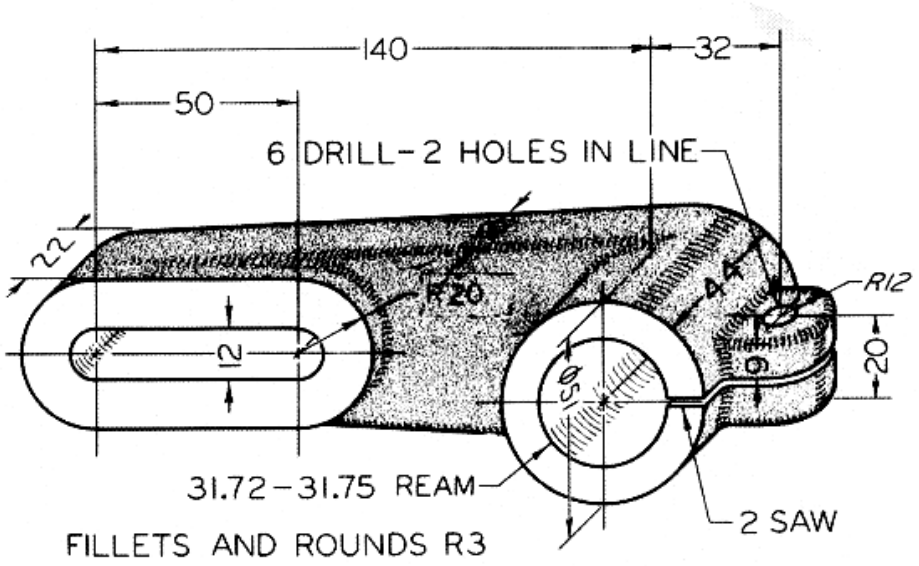
Counter Bearing Bracket

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

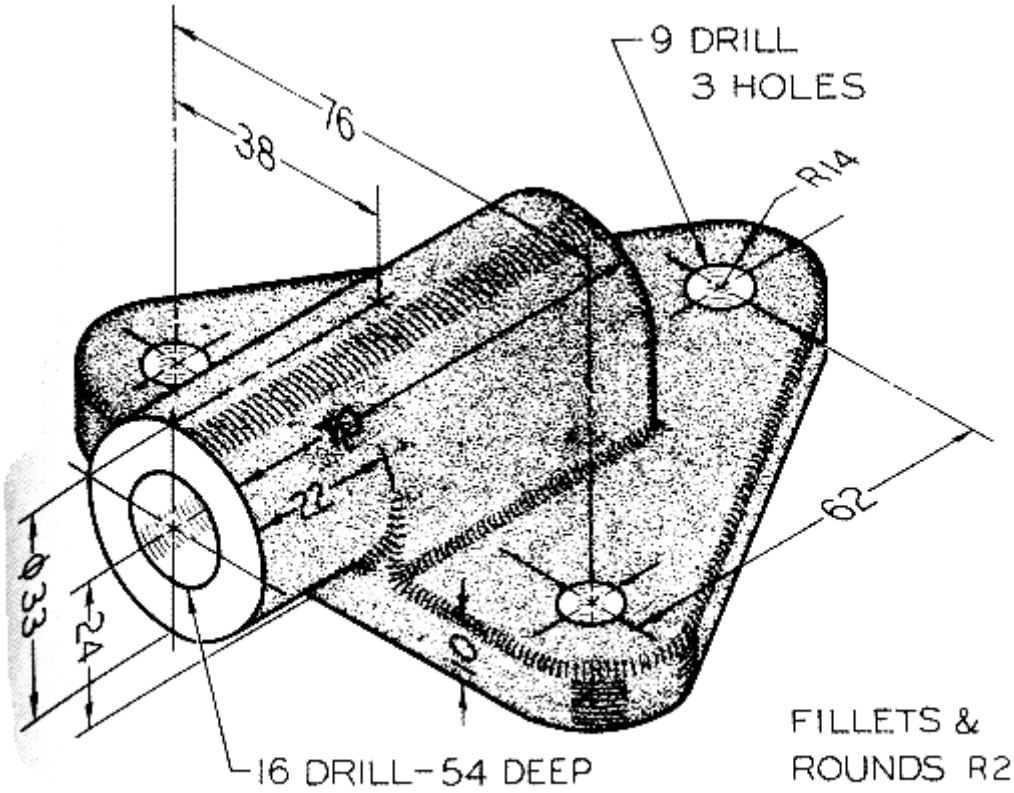
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:60



Anchor Bracket

EX:61



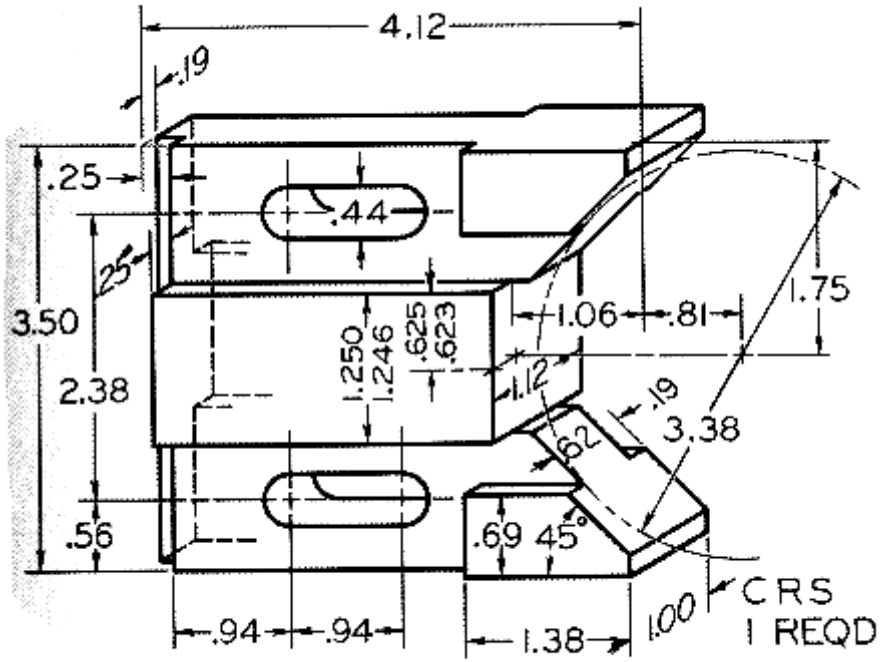
Socket Bearing

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

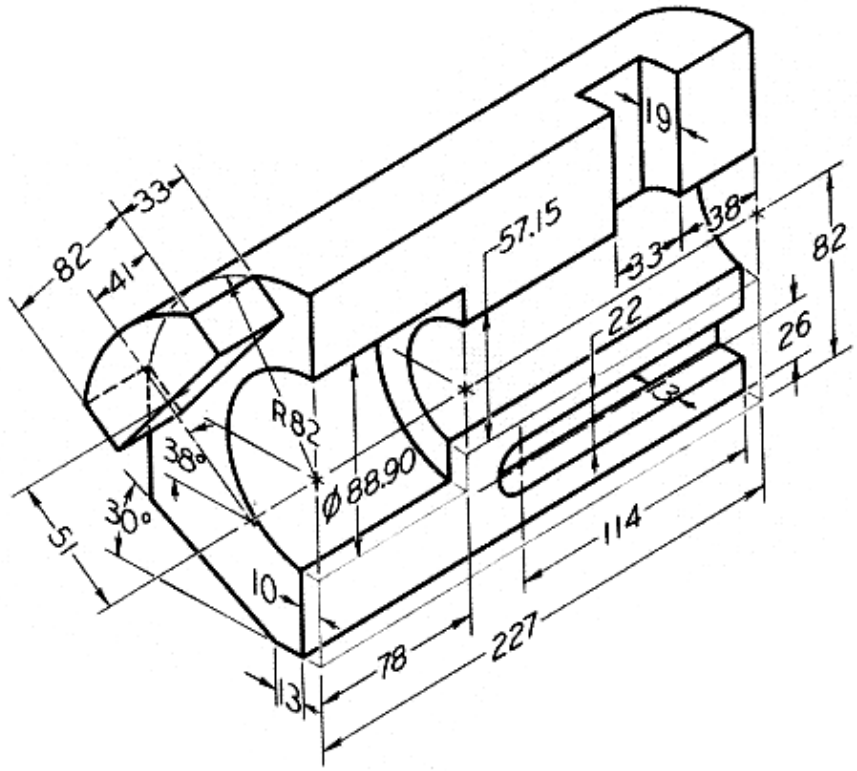
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:62



Locating V-Block

EX:63



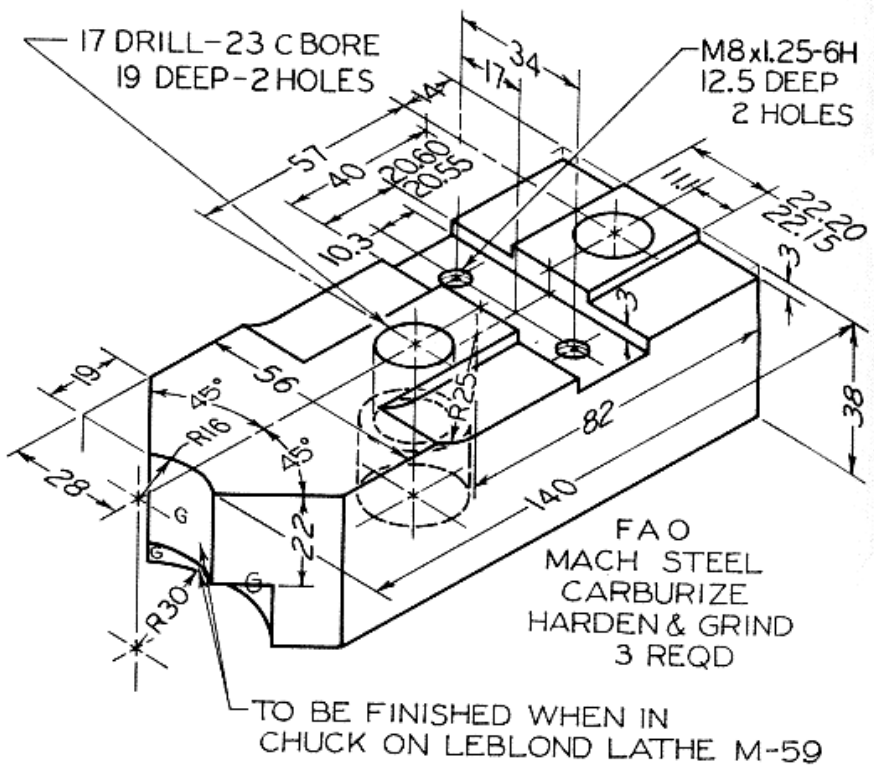
Control Block

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

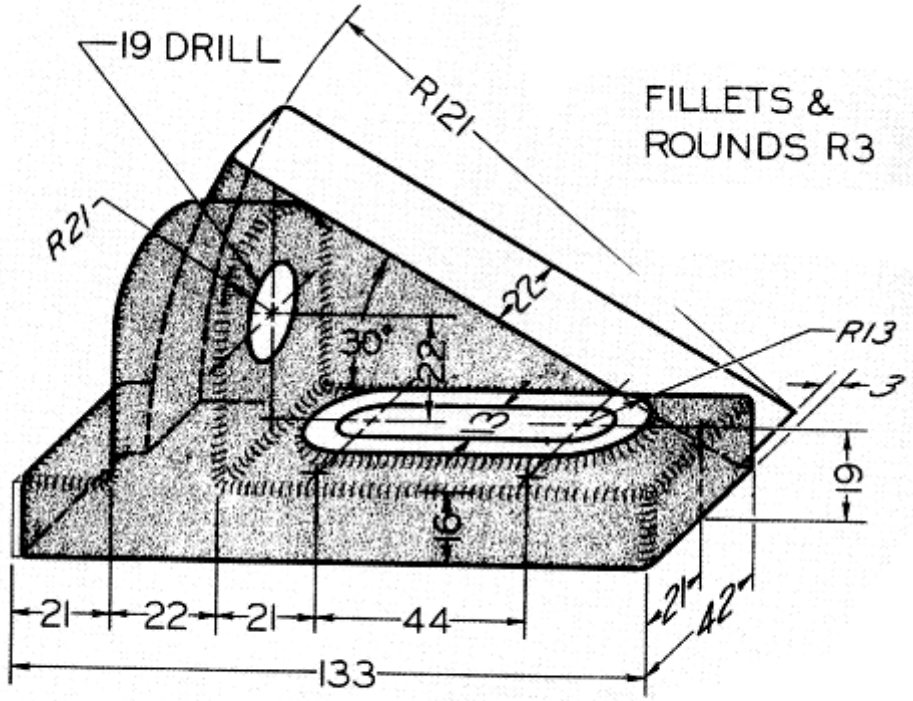
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:64



Chuck Jaw

EX:65



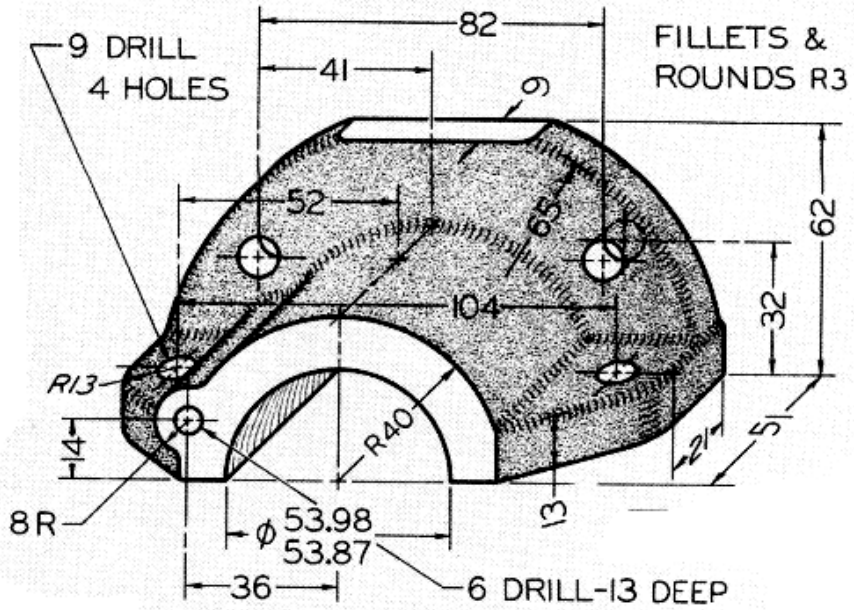
Centering Wedge

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

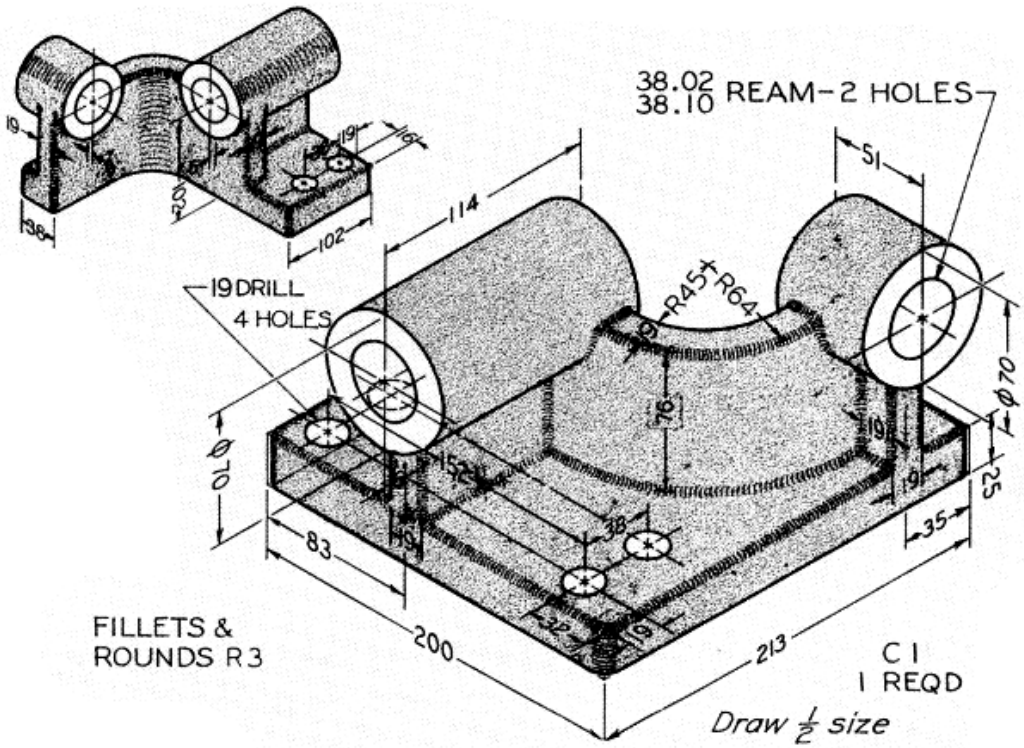
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:66



Dust Cap

EX:67



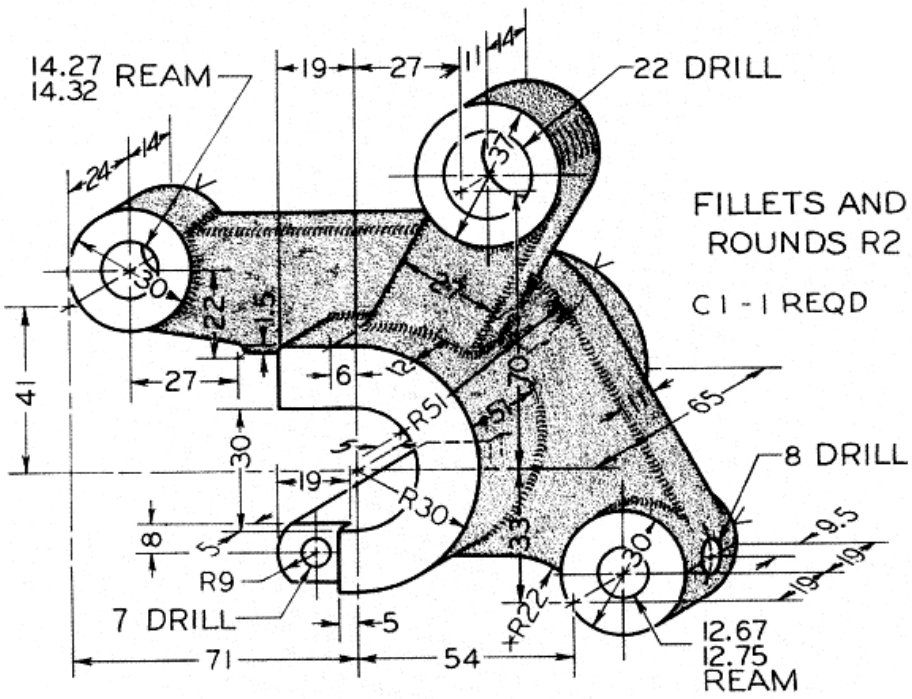
Lead Screw Bracket.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

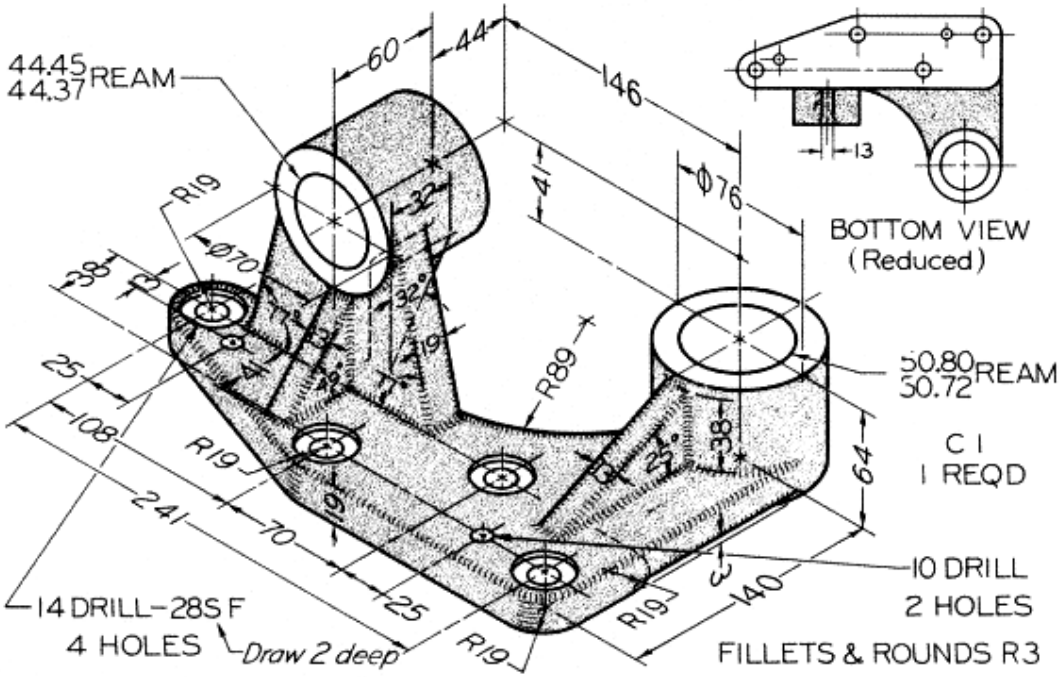
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:68



Socket Form Roller—LH.

EX:69



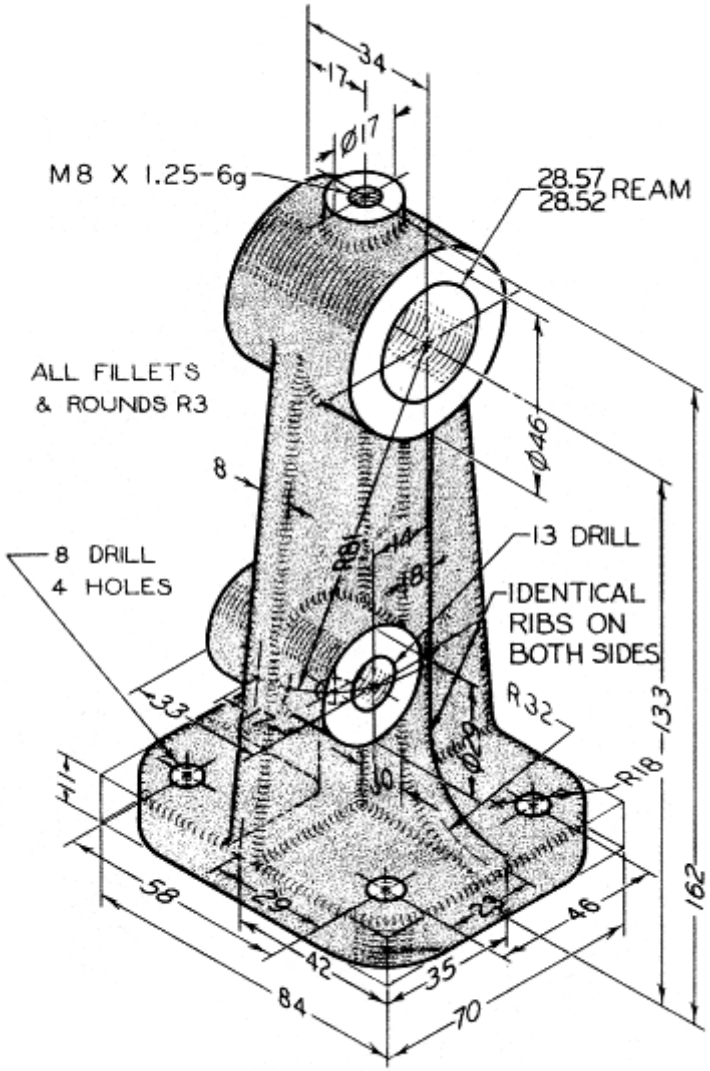
Lever Bracket.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

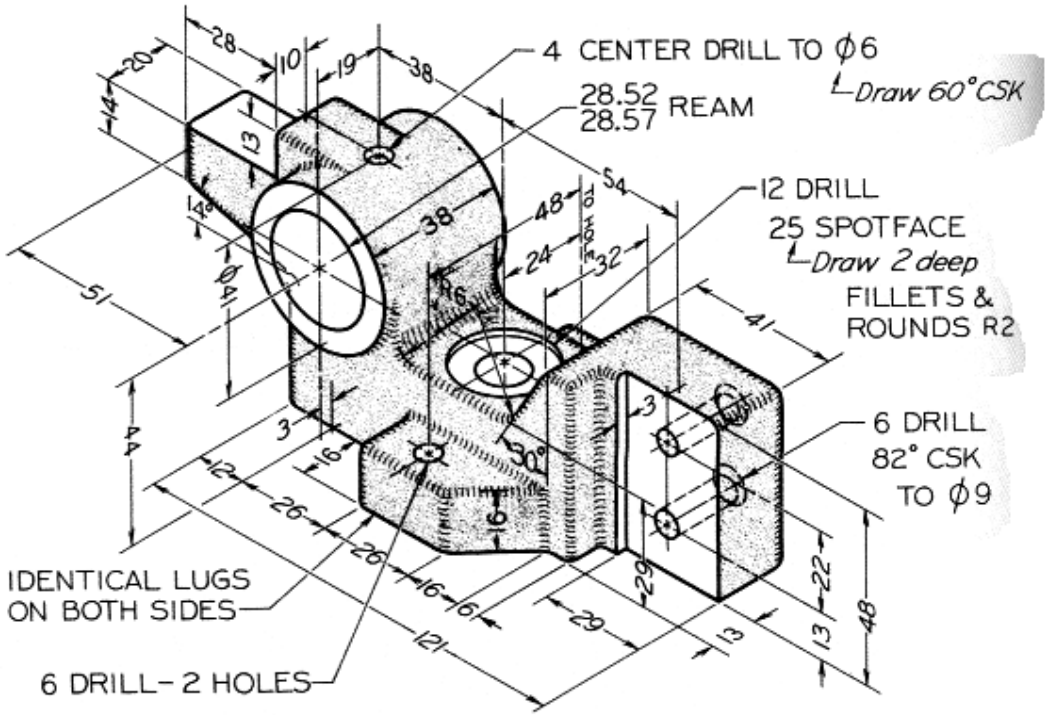
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:70



Bearing Bracket.

EX:71



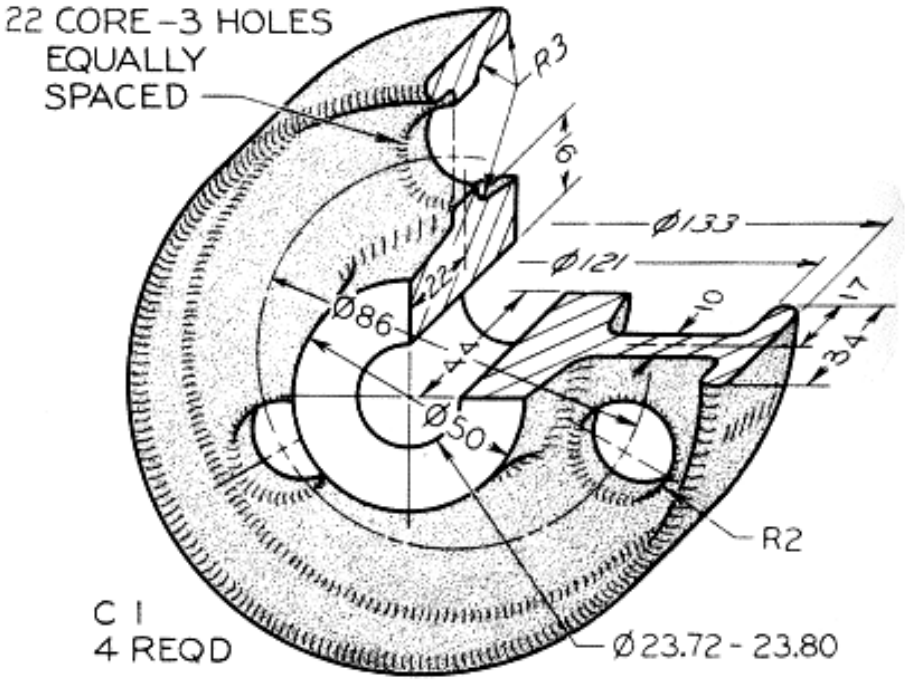
Gripper Rod Center.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

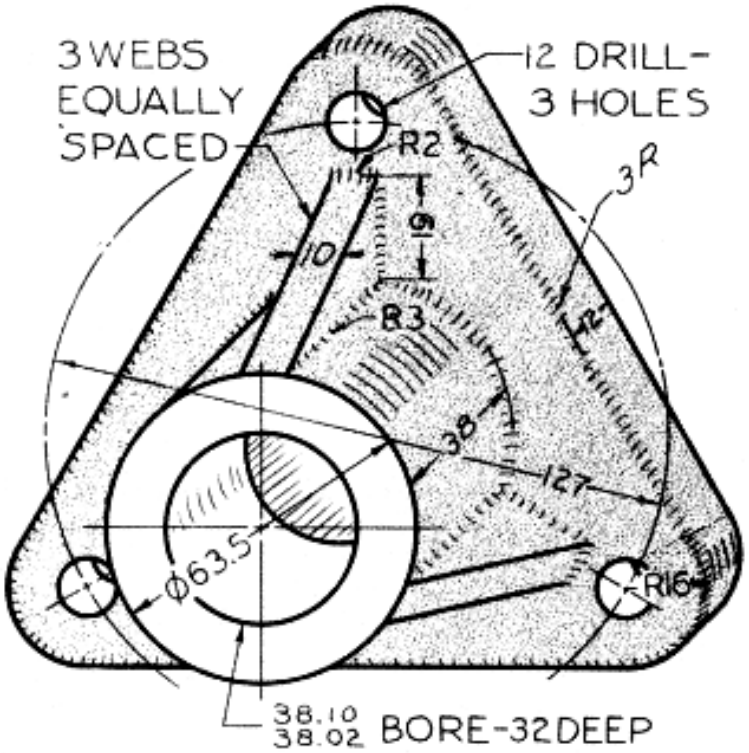
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:72



Truck Wheel.

EX:73



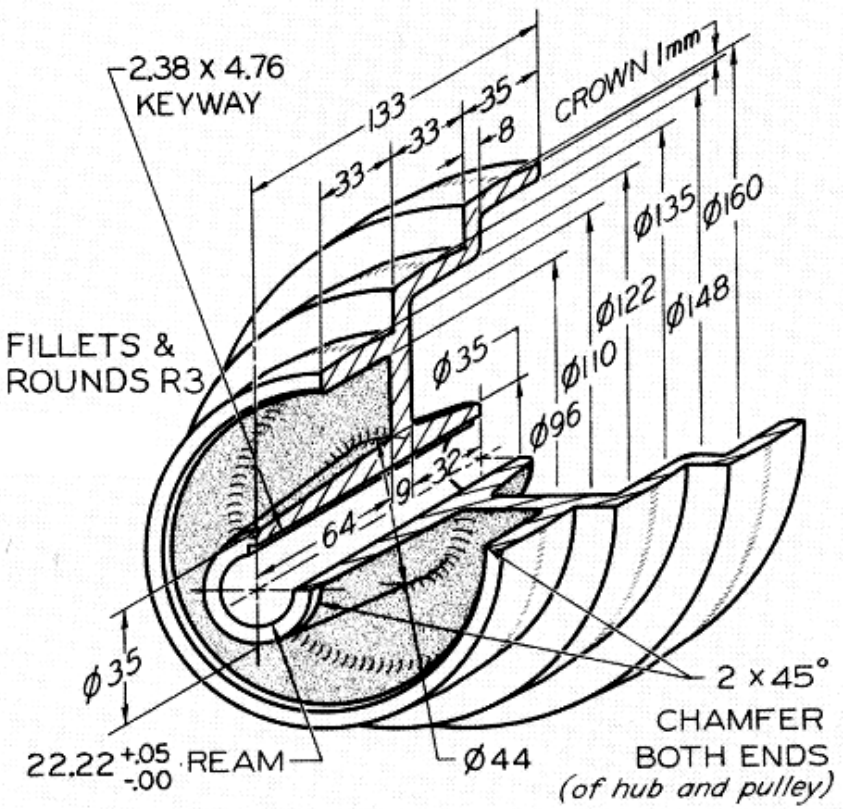
Column Support.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

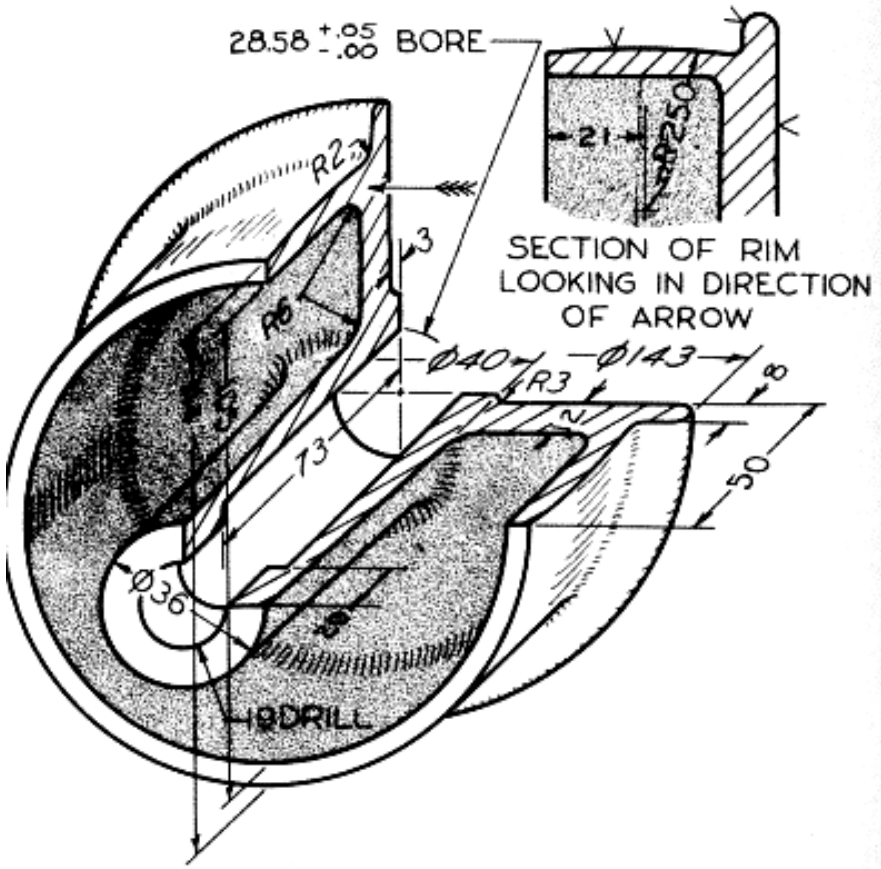
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:74



Step-Cone Pulley.

EX:75



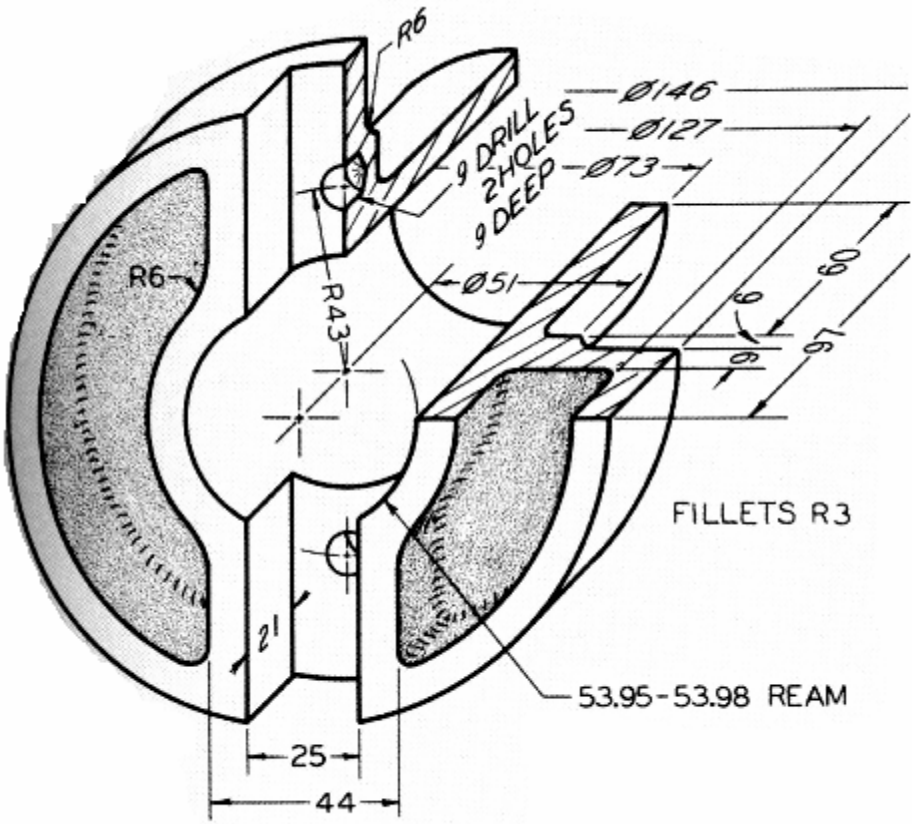
Idler Pulley.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

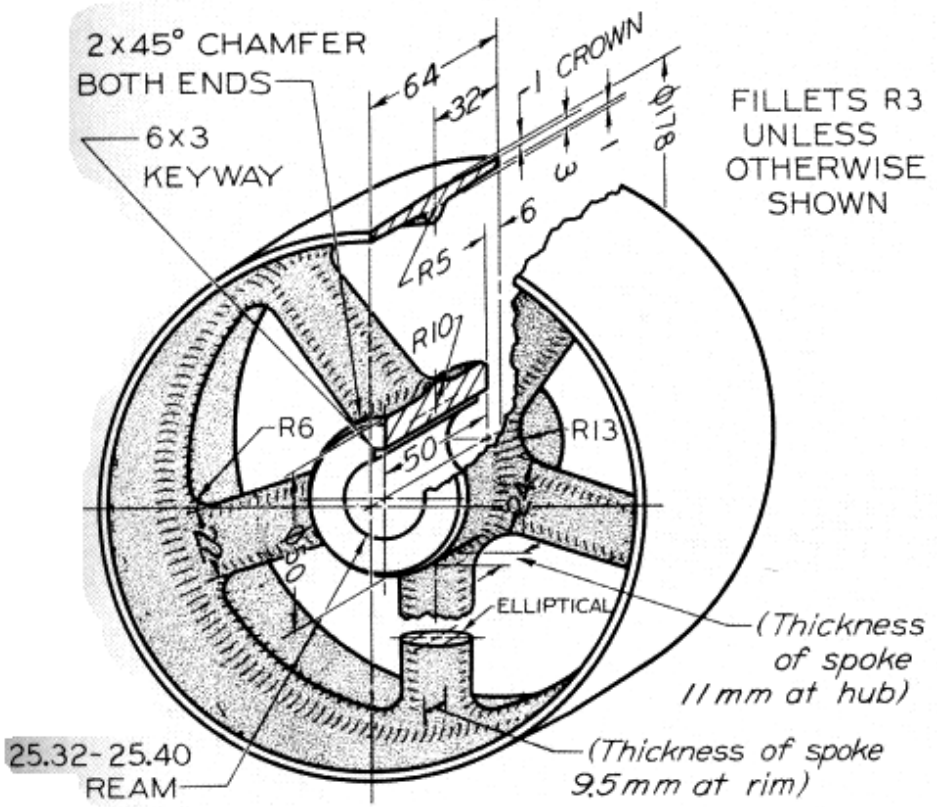
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:76



Stock Guide.

EX:77



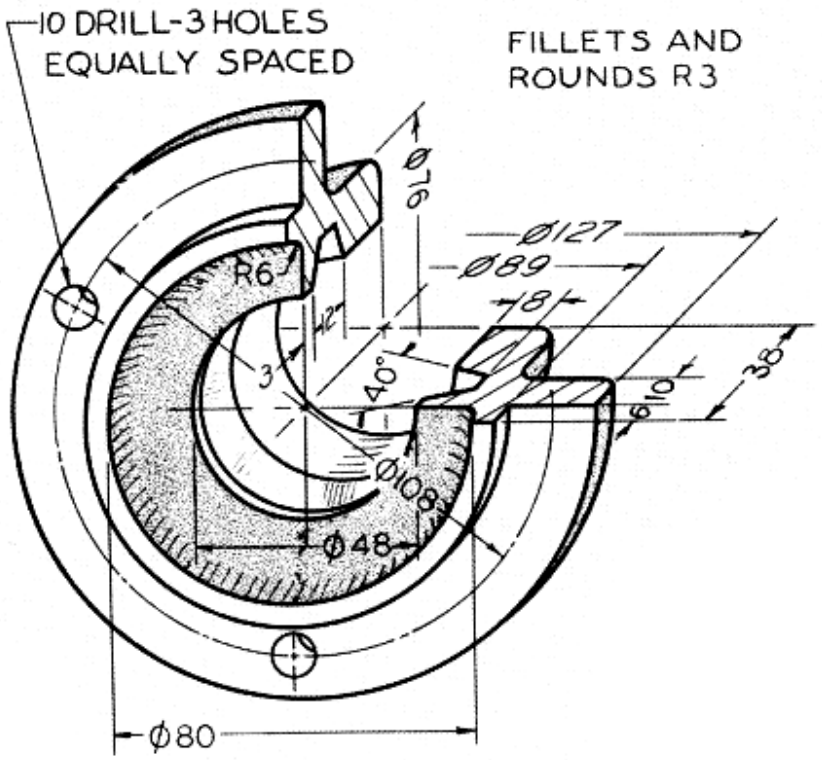
Pulley.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

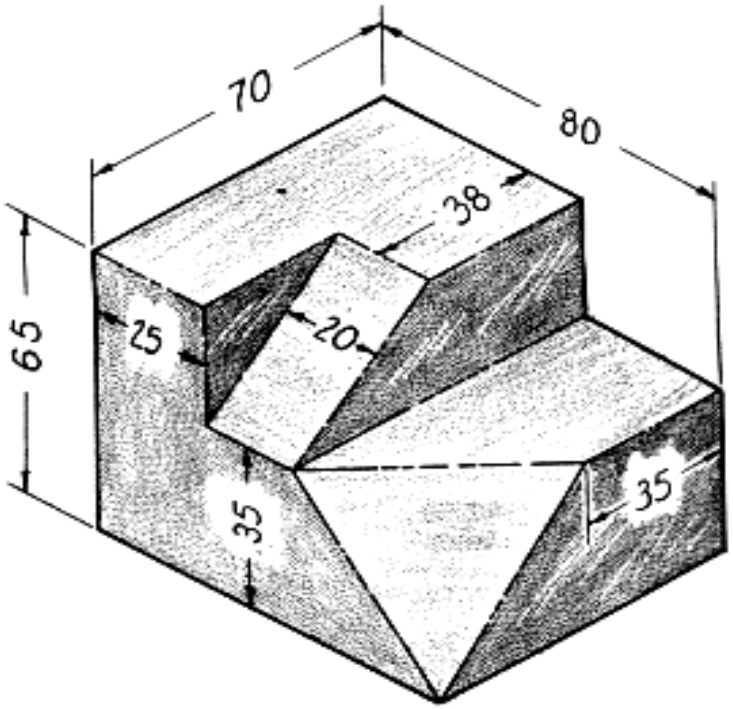
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:78



Fixed Bearing Cup.

EX:79



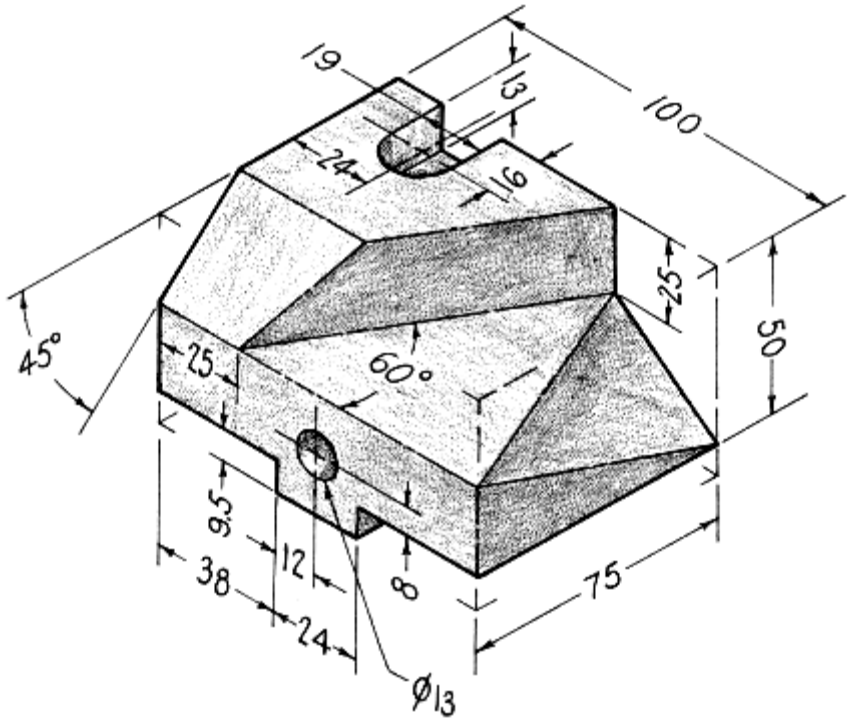
Corner block

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

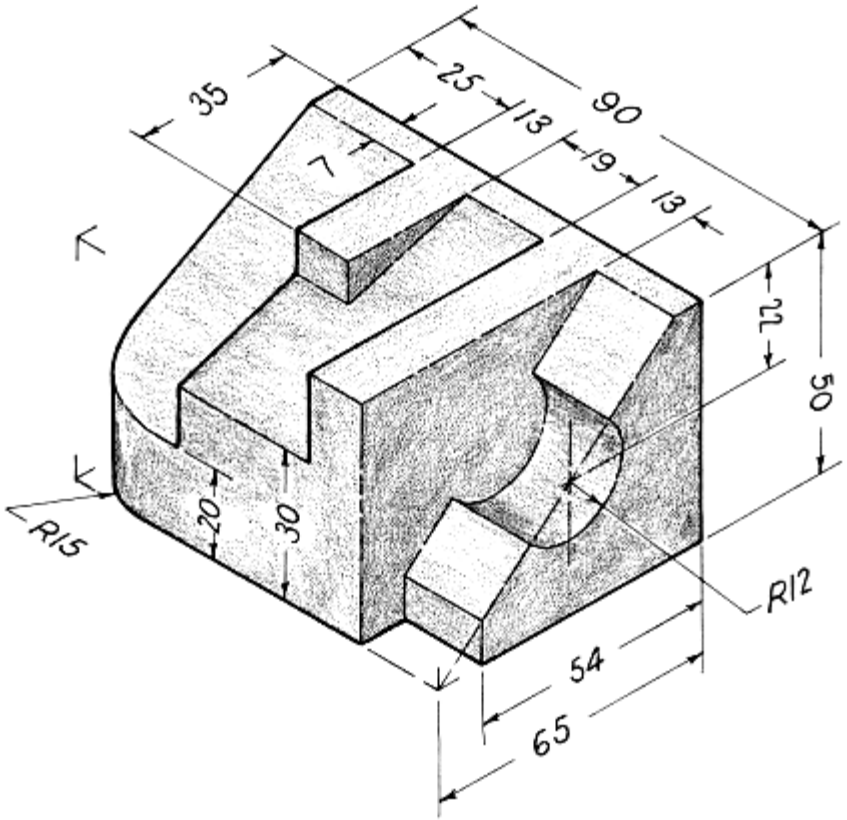
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:19



Locating block.

EX:20



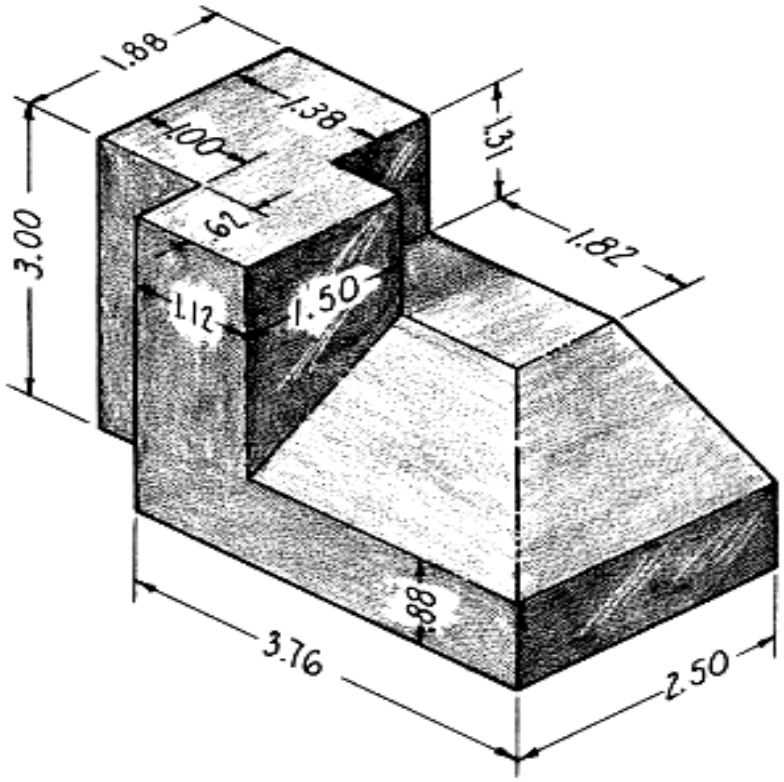
Safety block.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

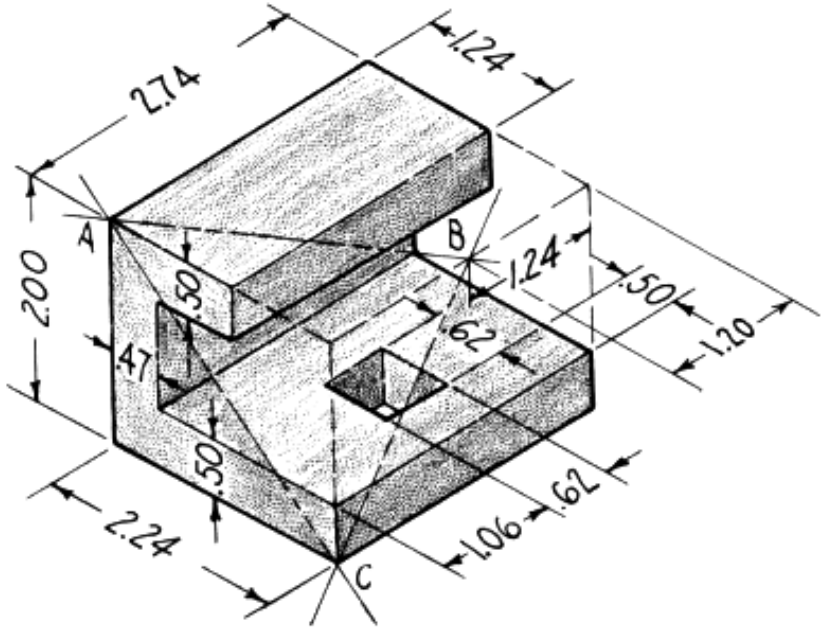
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:13



Angle block.

EX:14



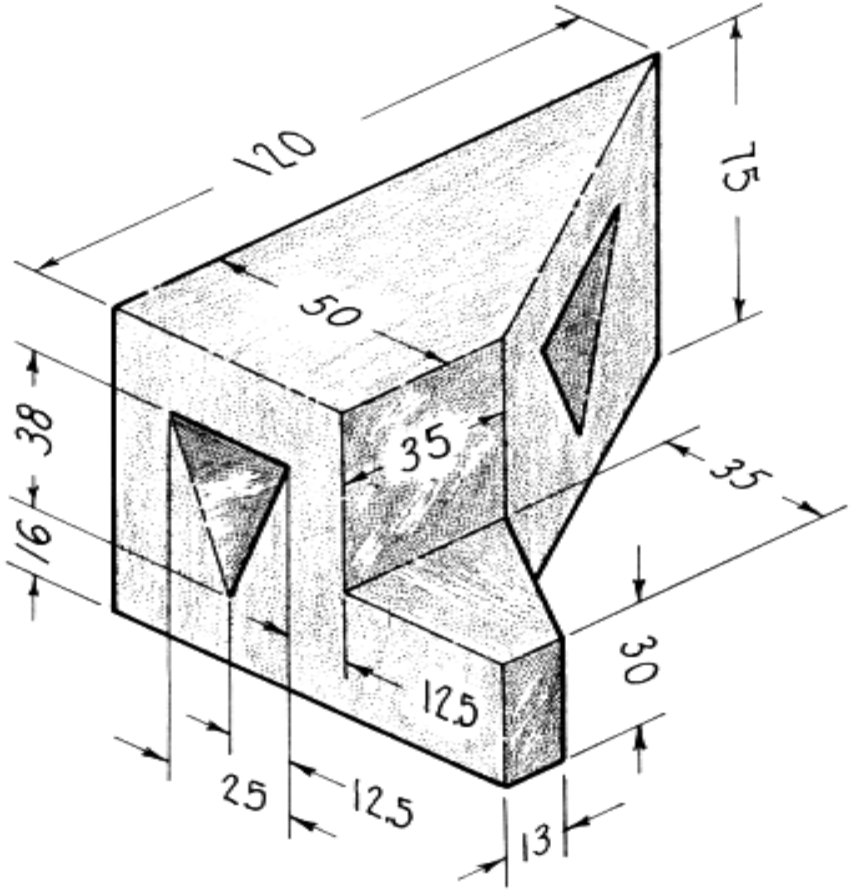
Stabilizer block.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

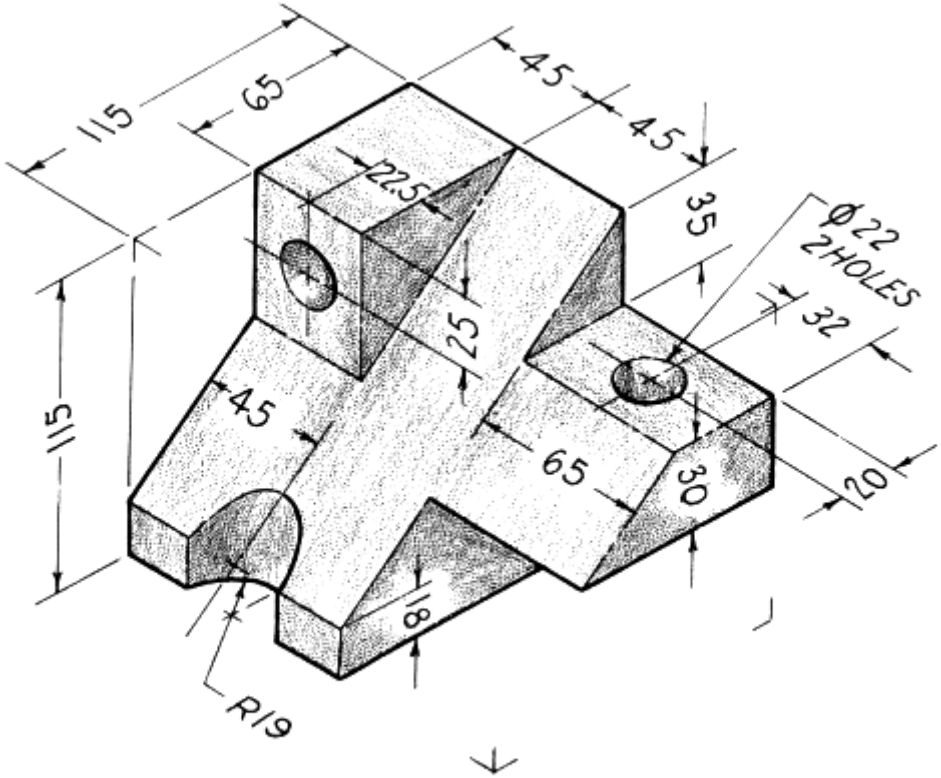
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:15



Bevel block.

EX:16



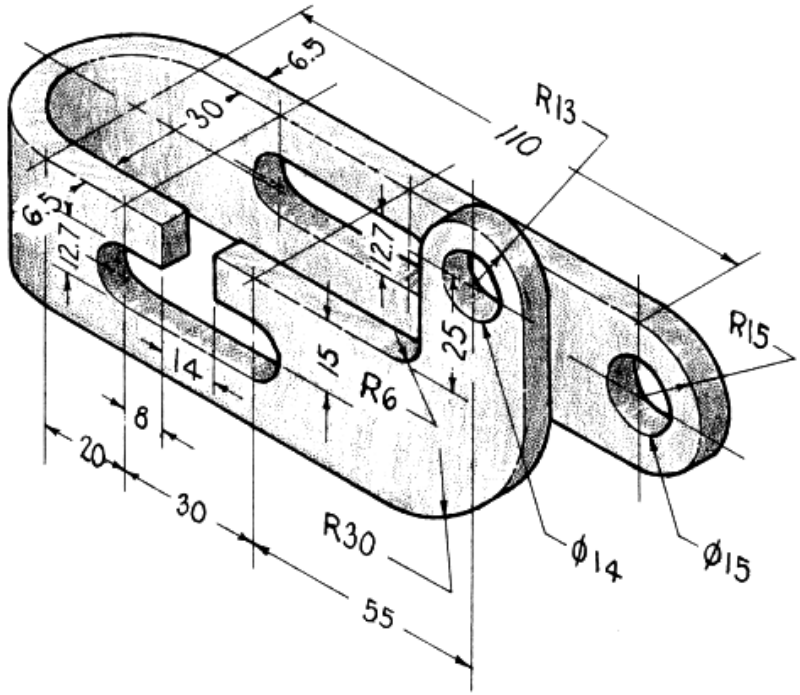
Cross stop.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

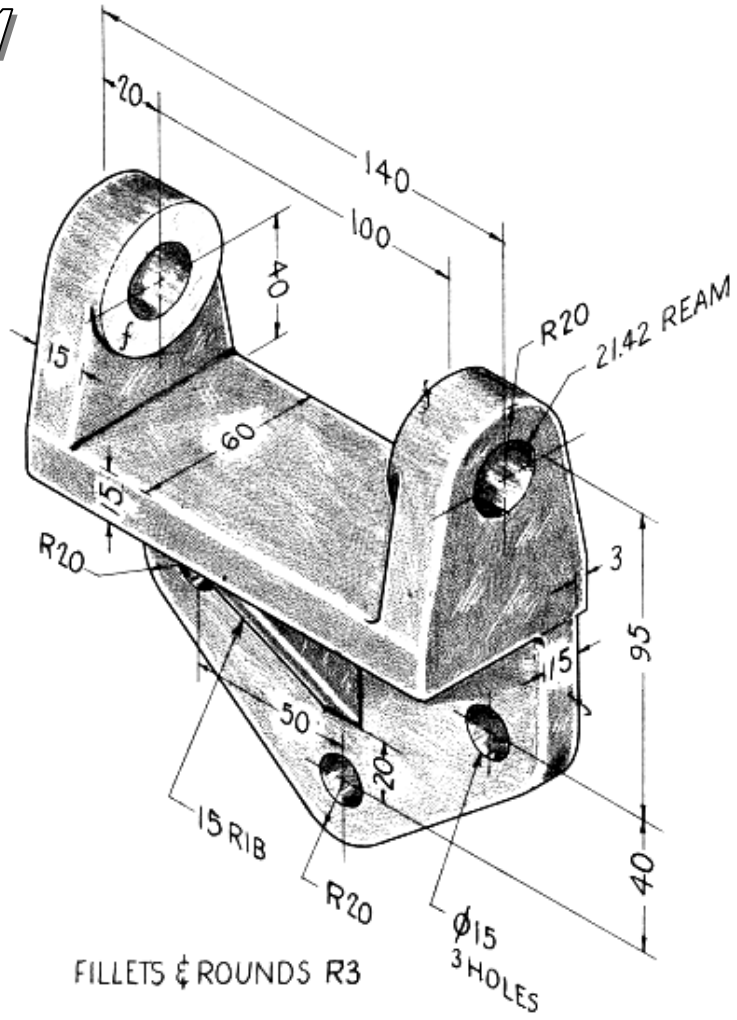
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:80



Control guide.

EX:81



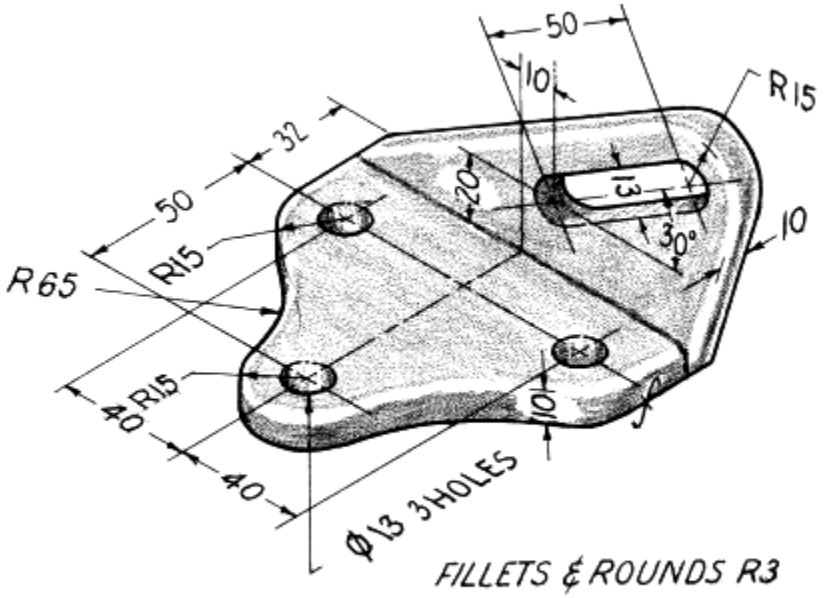
Guide bracket.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

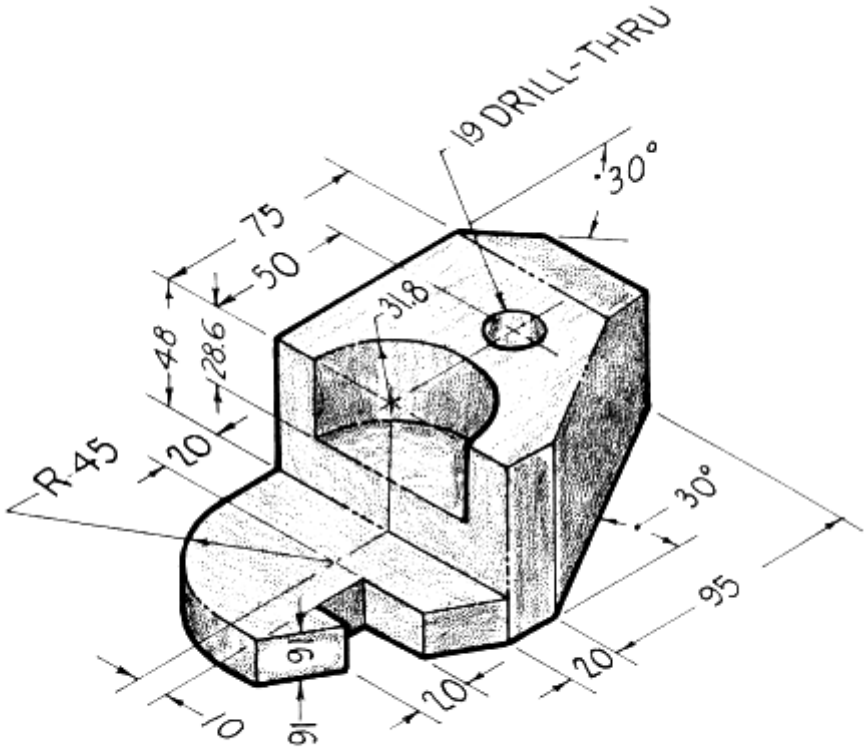
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:17



Mounting bracket.

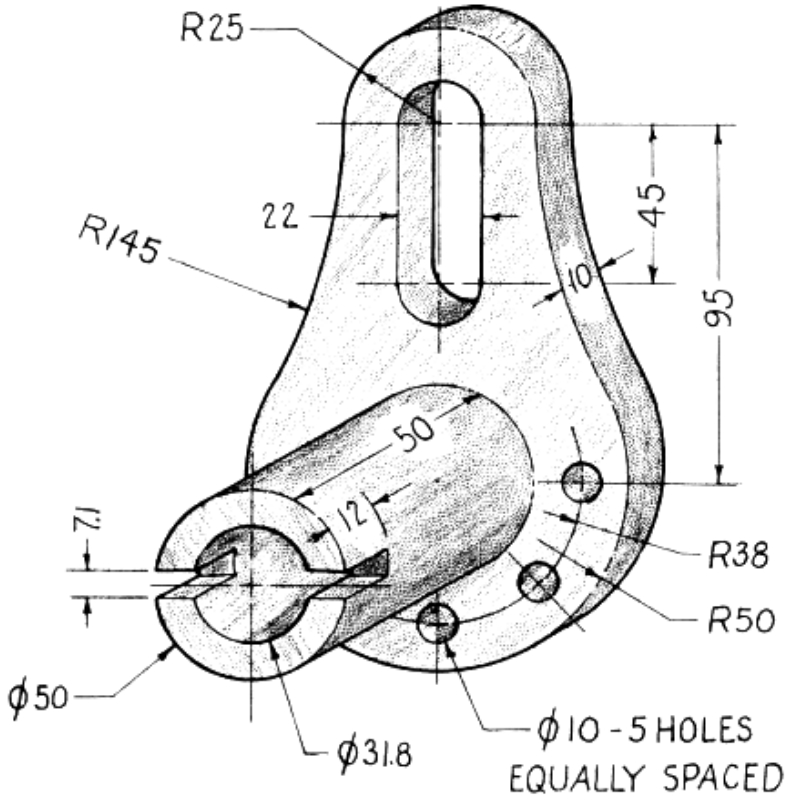
EX:18



Holder block.

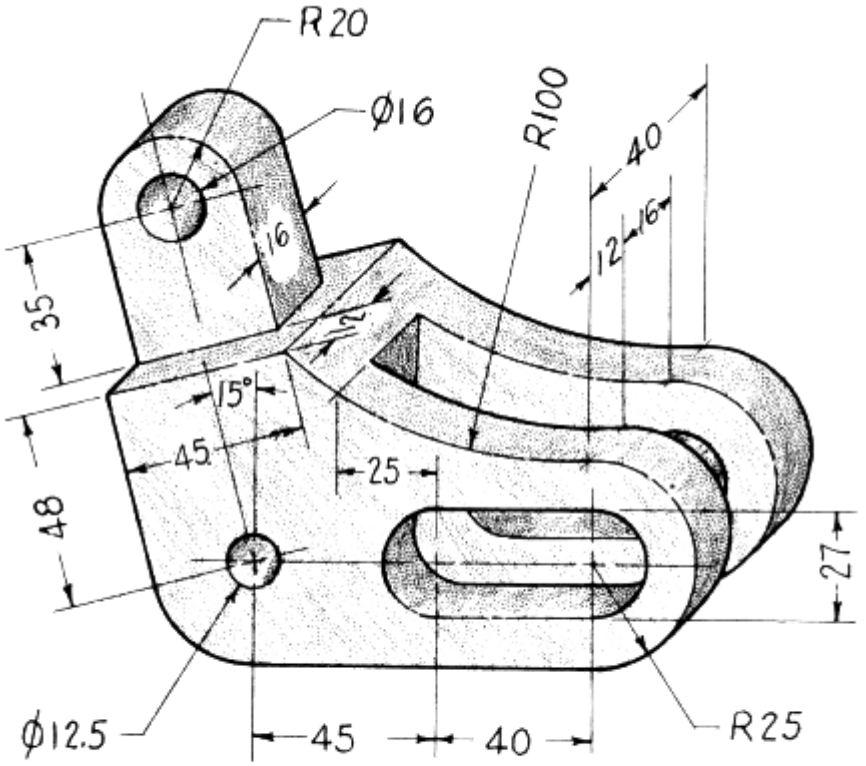
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				
MSME TOOL ROOM AURANGABAD INDO GERMAN TOOL ROOM AURANGABAD				DRG. NO.	DRG. TYP SHEET SIZE CONT. NO.

EX:82



Slotted guide.

EX:83



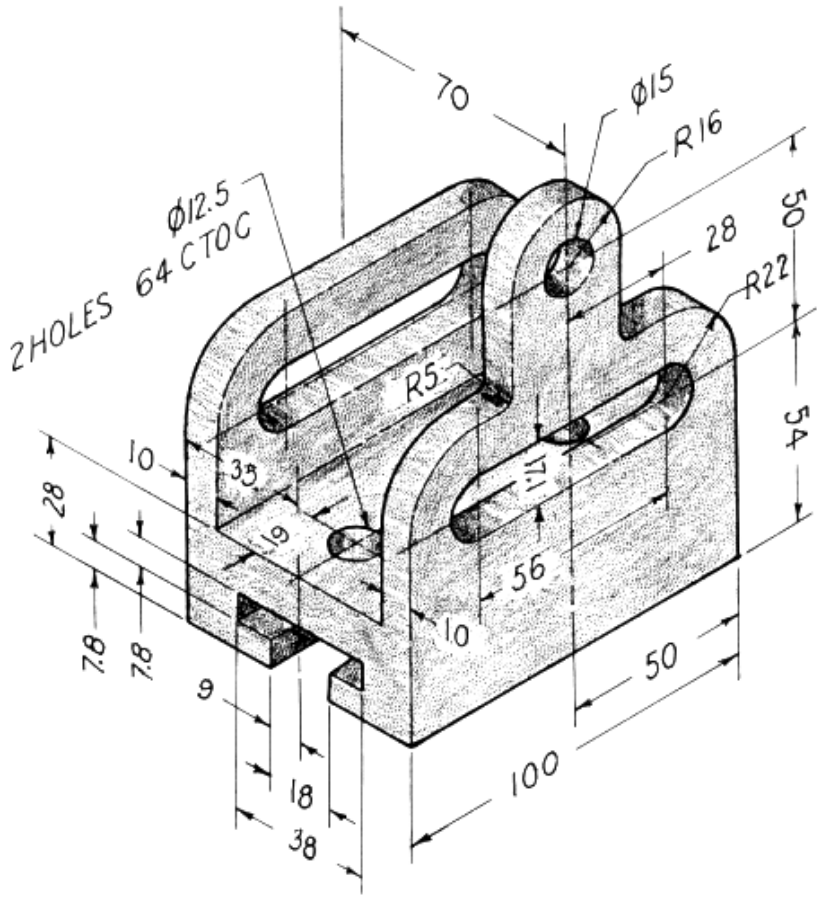
Pivot guide.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

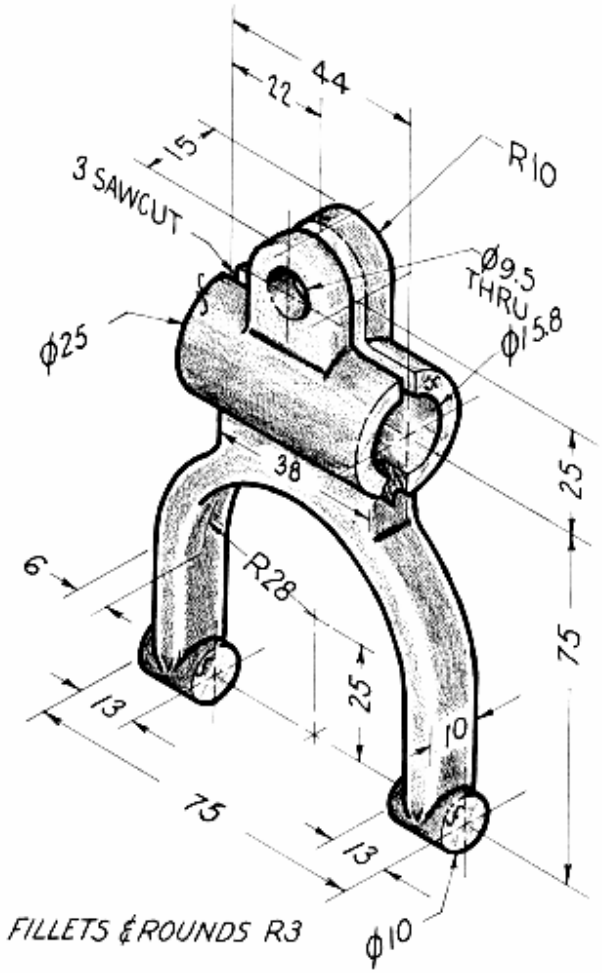
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:84



Control guide.

EX:85



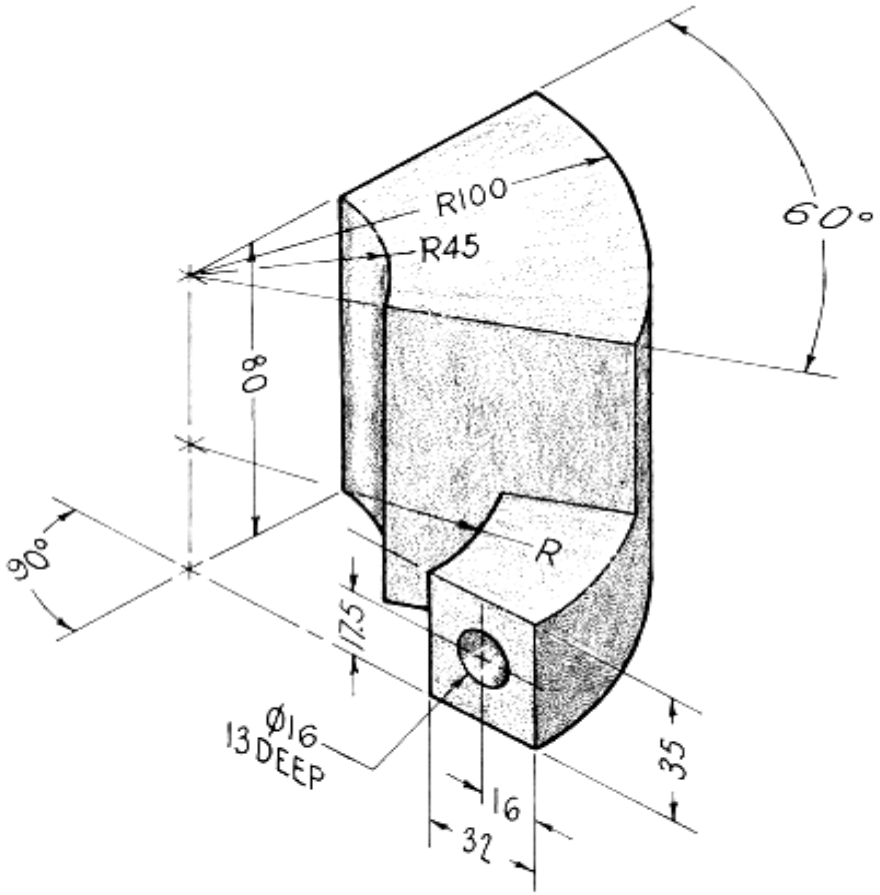
Auxiliary fork.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

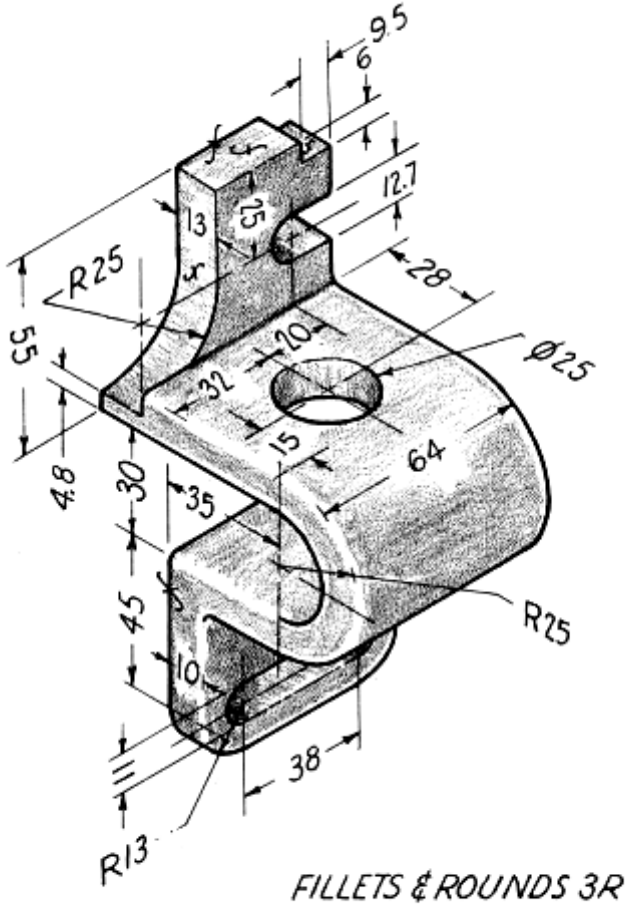
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:86



Jaw block.

EX:87



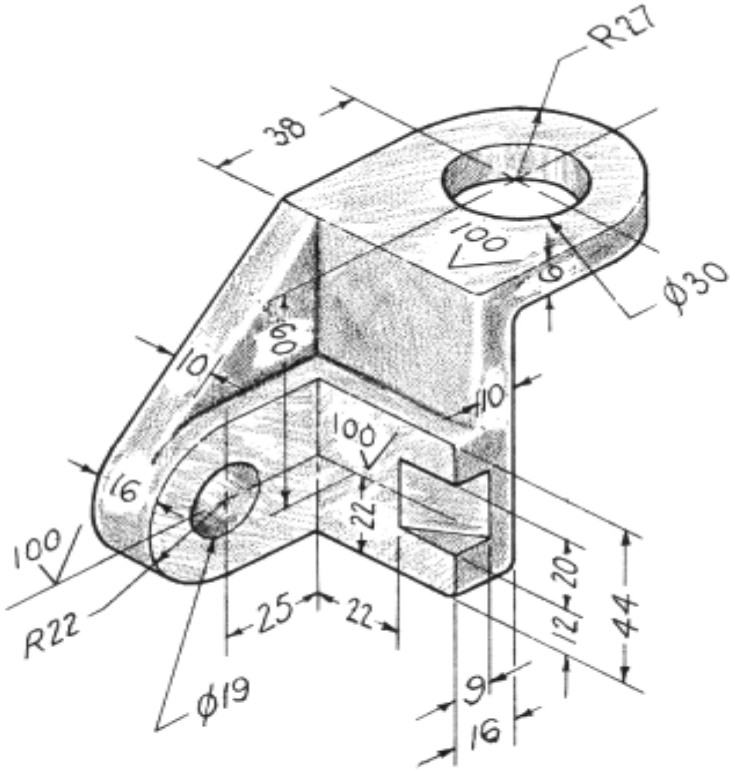
Guide clip.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

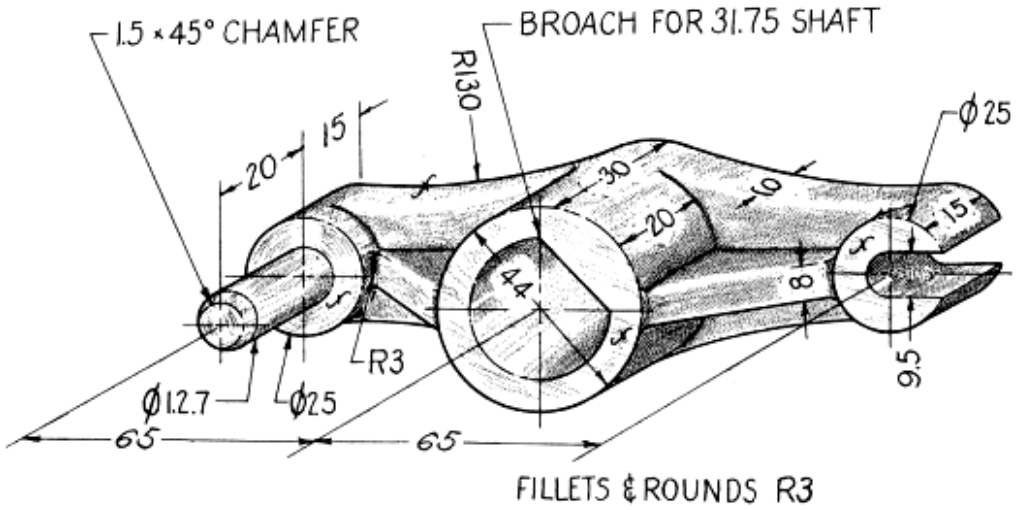
EX:88



FILLETS & ROUNDS R3

Ejector bracket.

EX:89



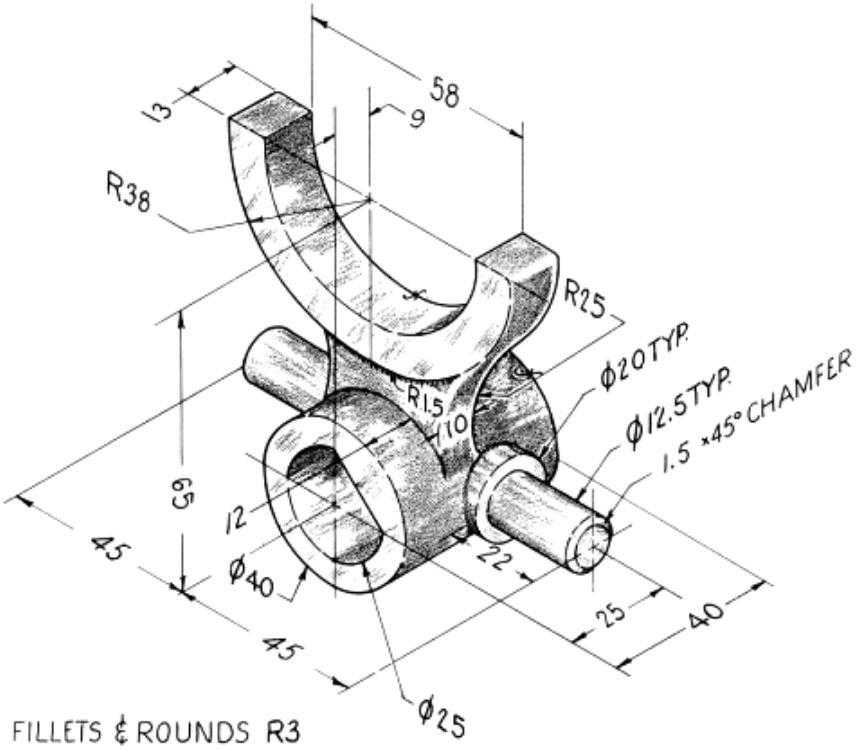
Stud guide.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

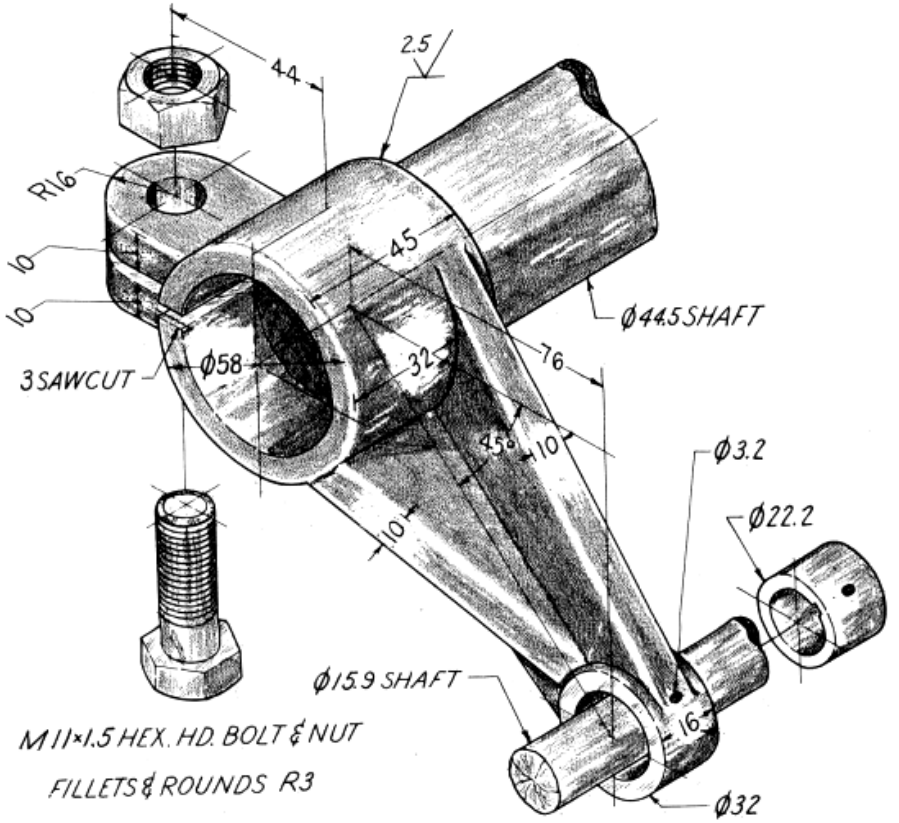
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:90



Shifter.

EX:91



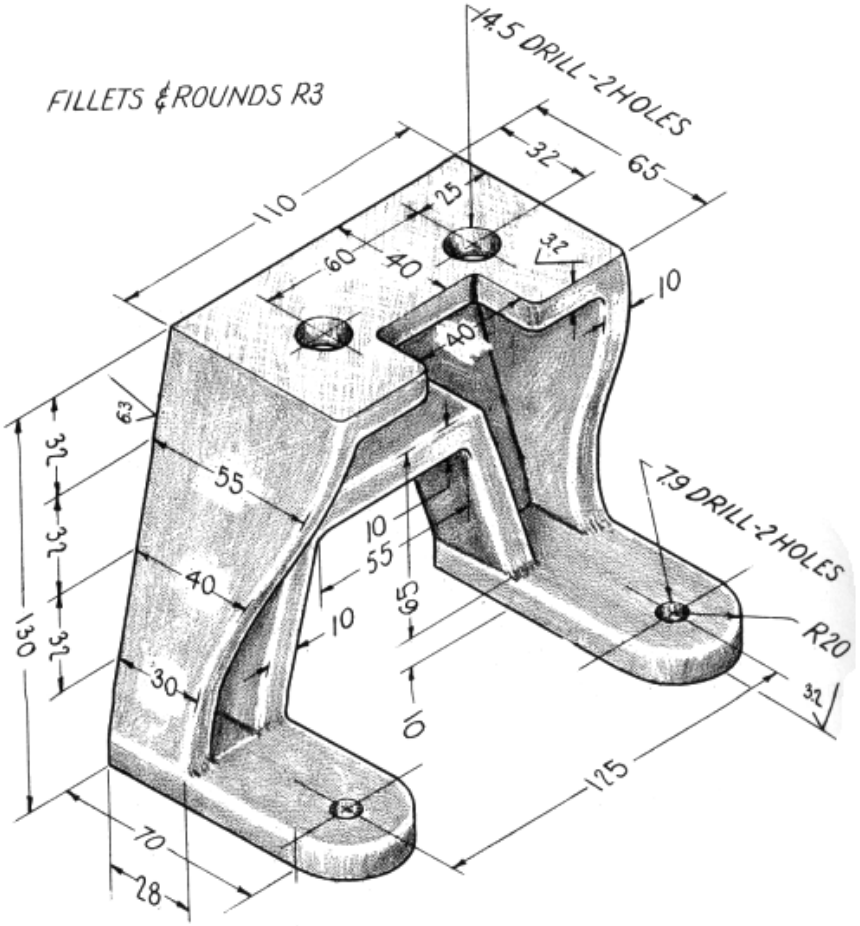
Shaft bracket.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

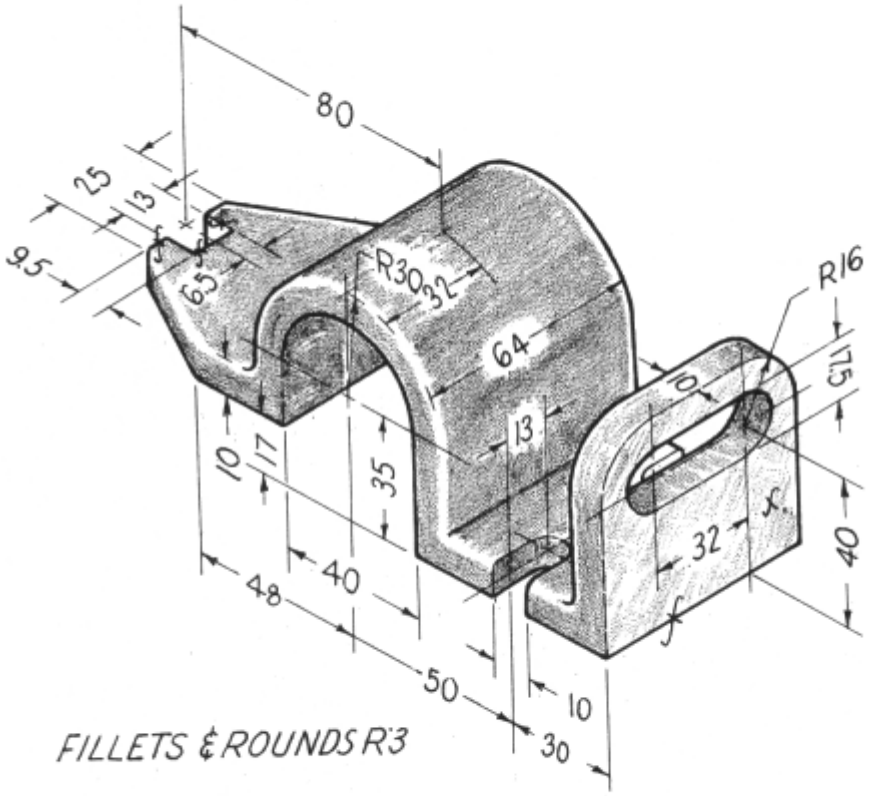
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:92



Lathe leg.

EX:93



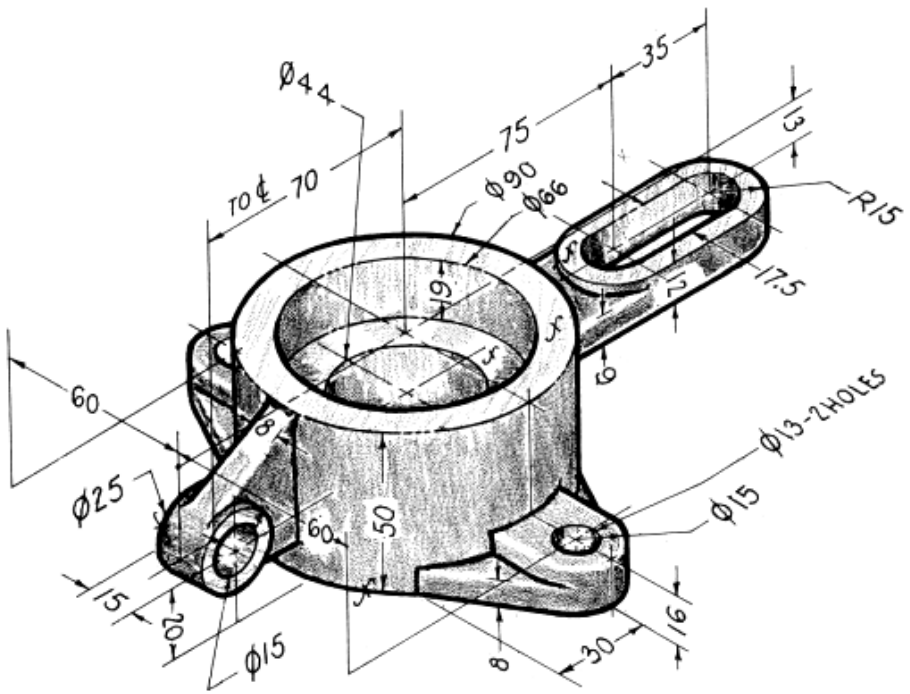
Feed guide.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

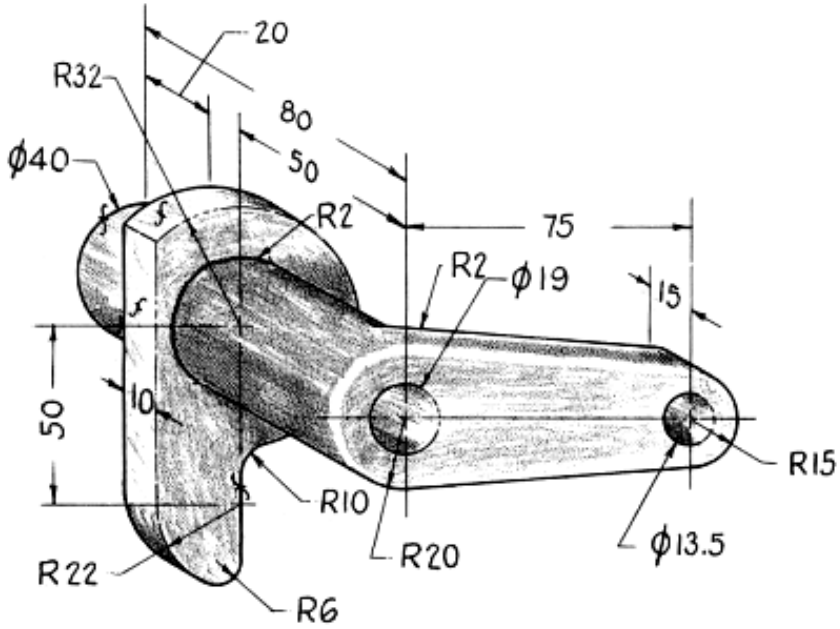
EX:94



FILLETS & ROUNDS R3

Control bracket.

EX:95



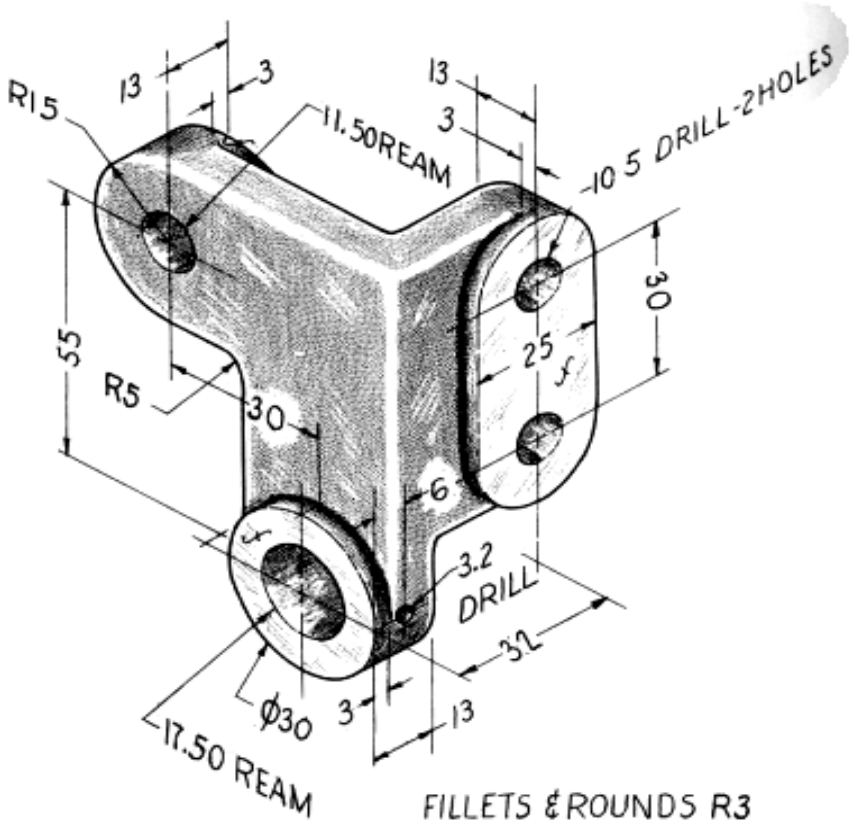
Offset trip lever.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

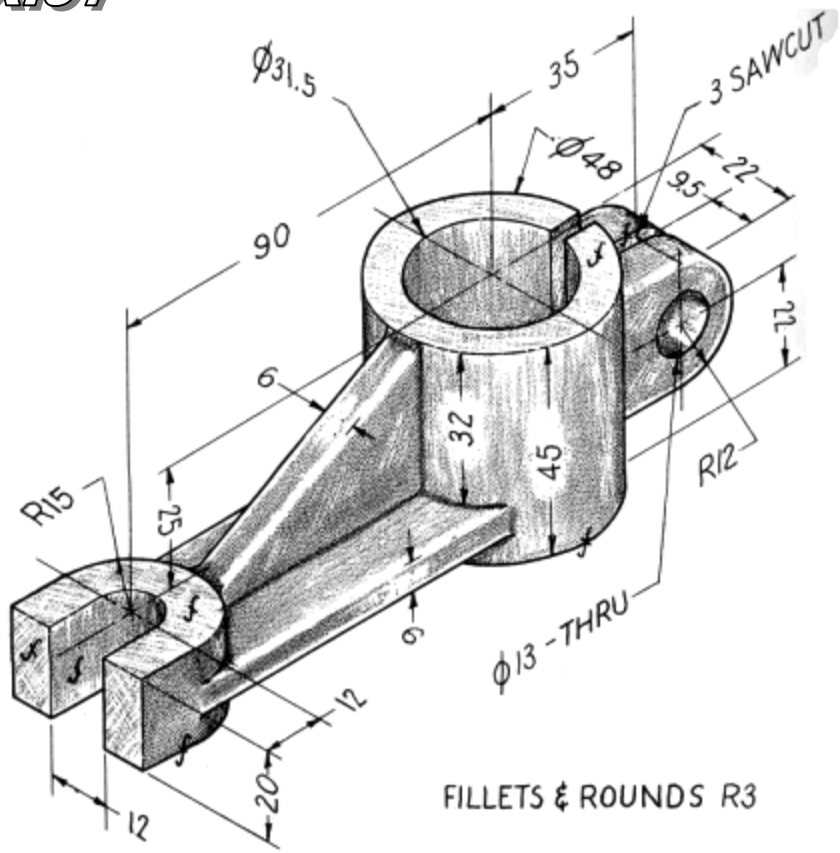
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:96



Guide link.

EX:97



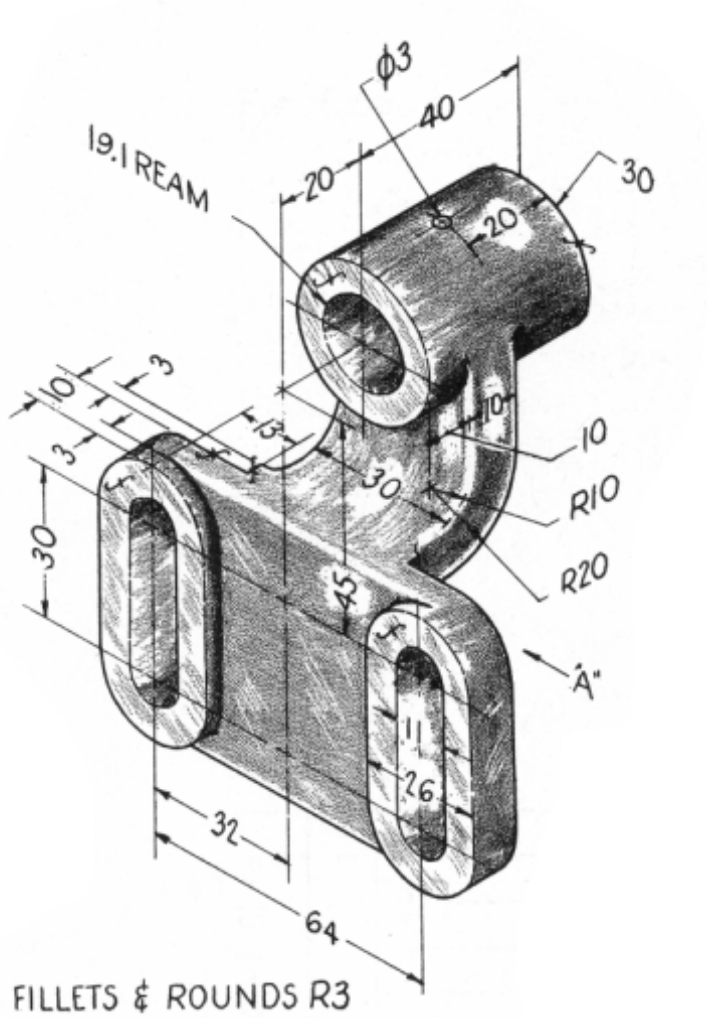
Shifter.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

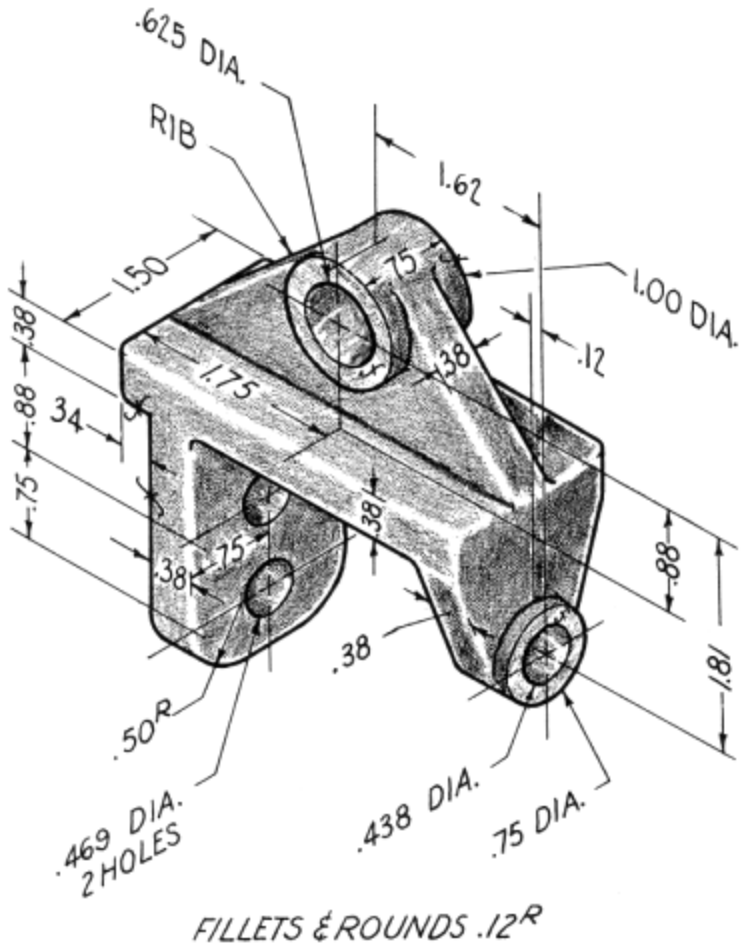
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:98



Bearing bracket.

EX:99



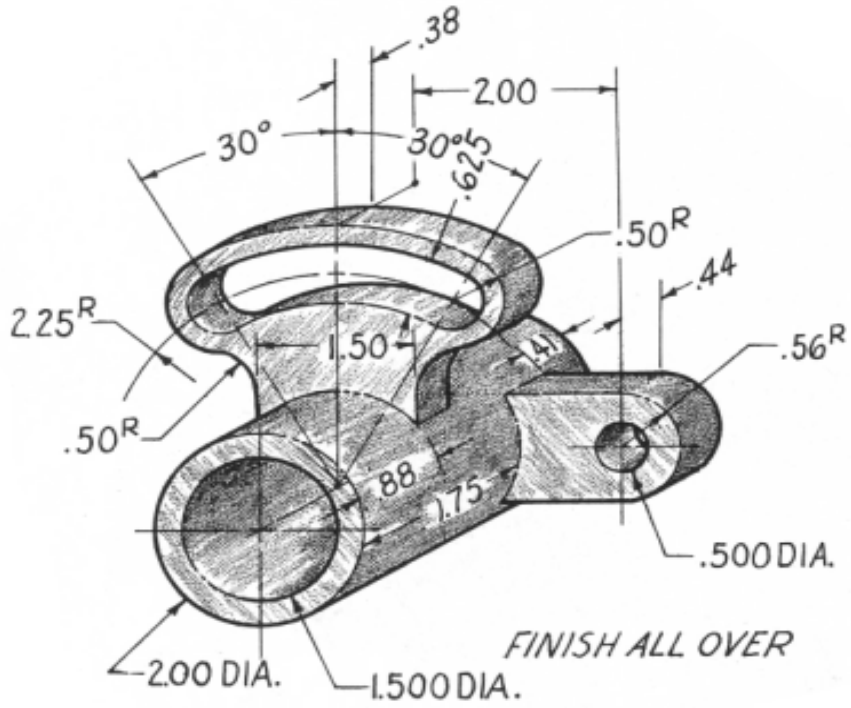
Rear support bracket.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

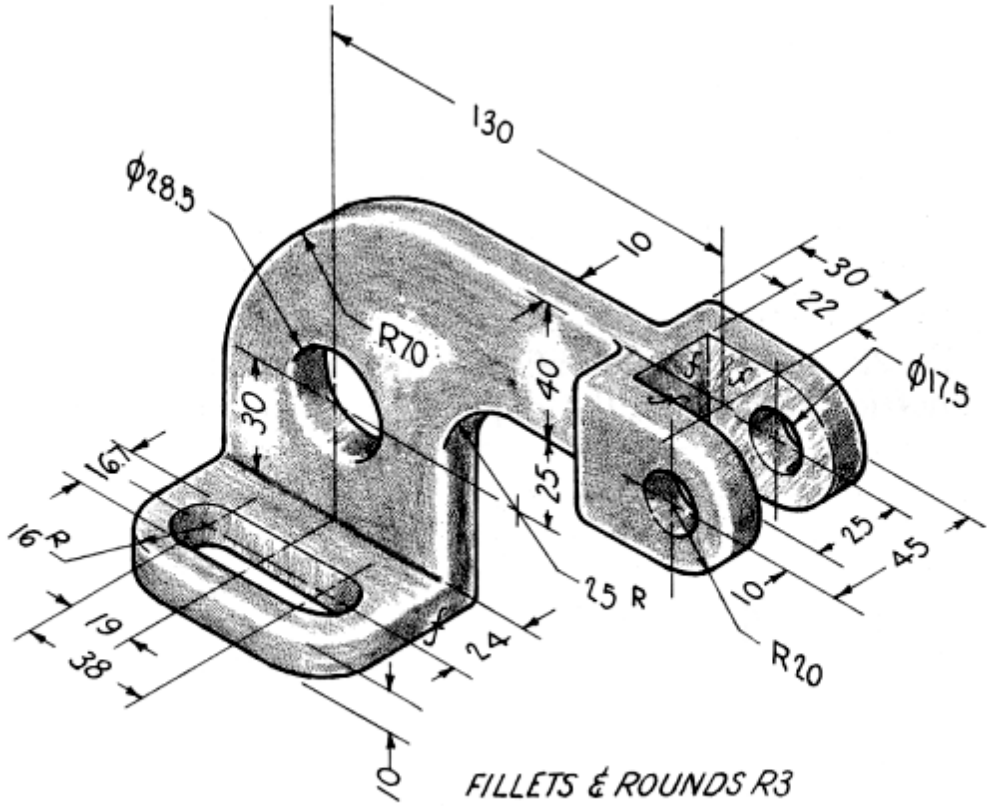
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:100



Index guide.

EX:101



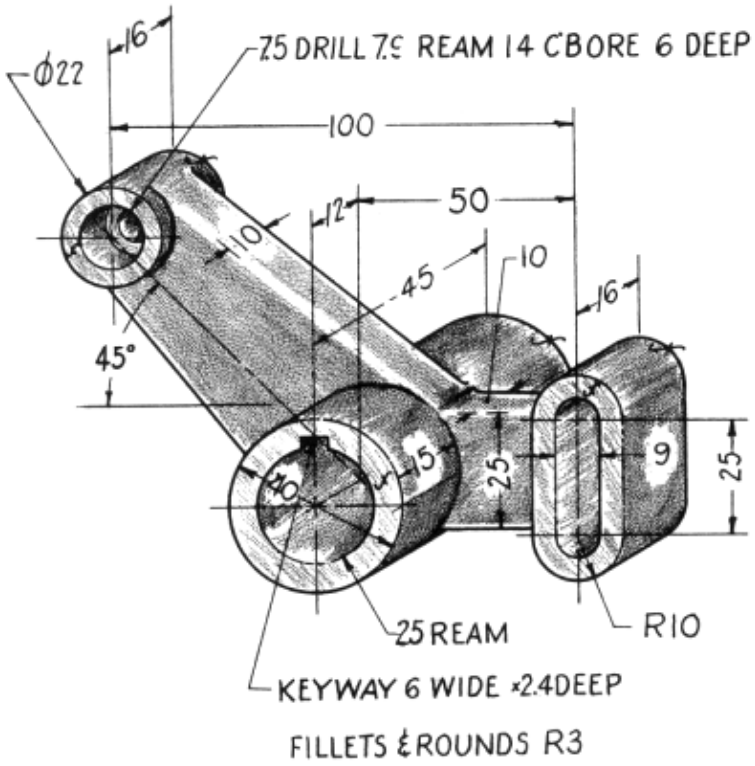
Arm bracket.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

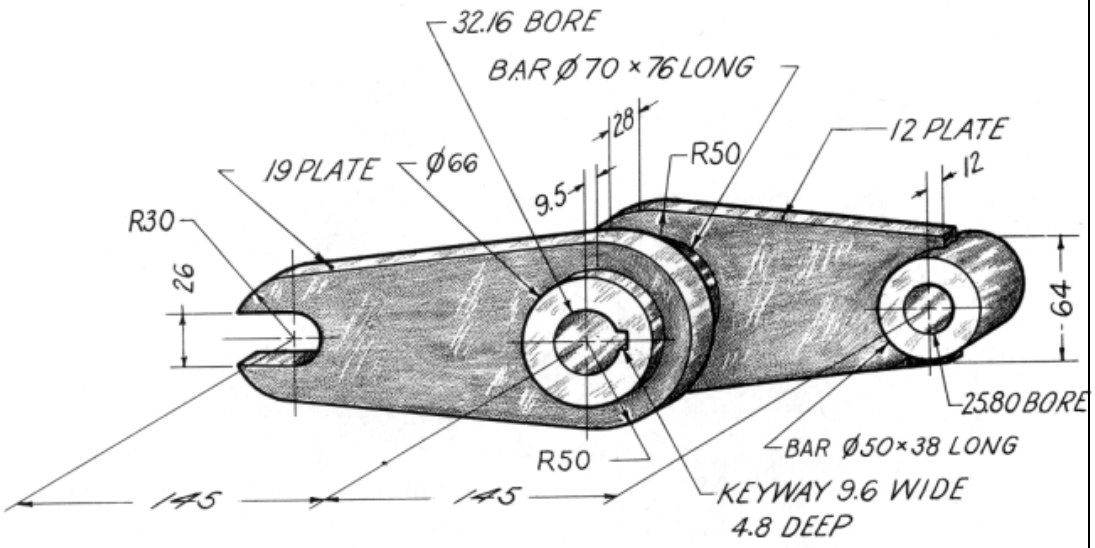
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:102



Control bracket.

EX:103



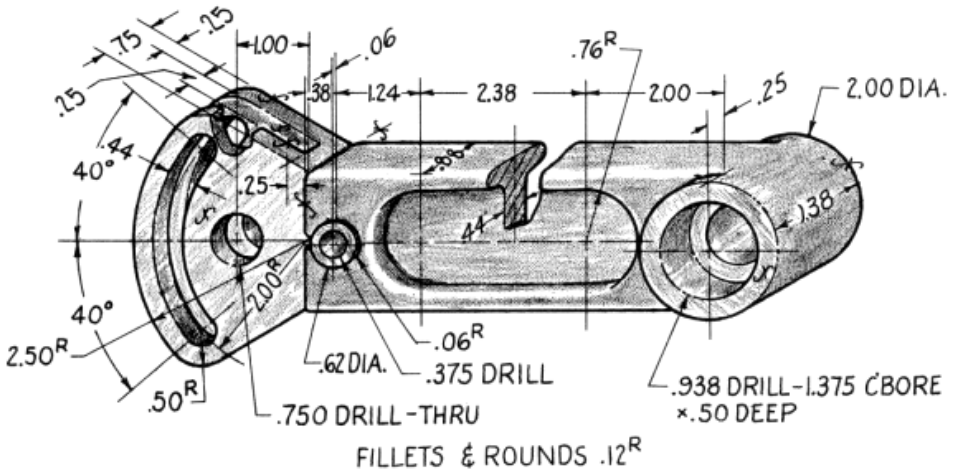
Idler lever (weldment).

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

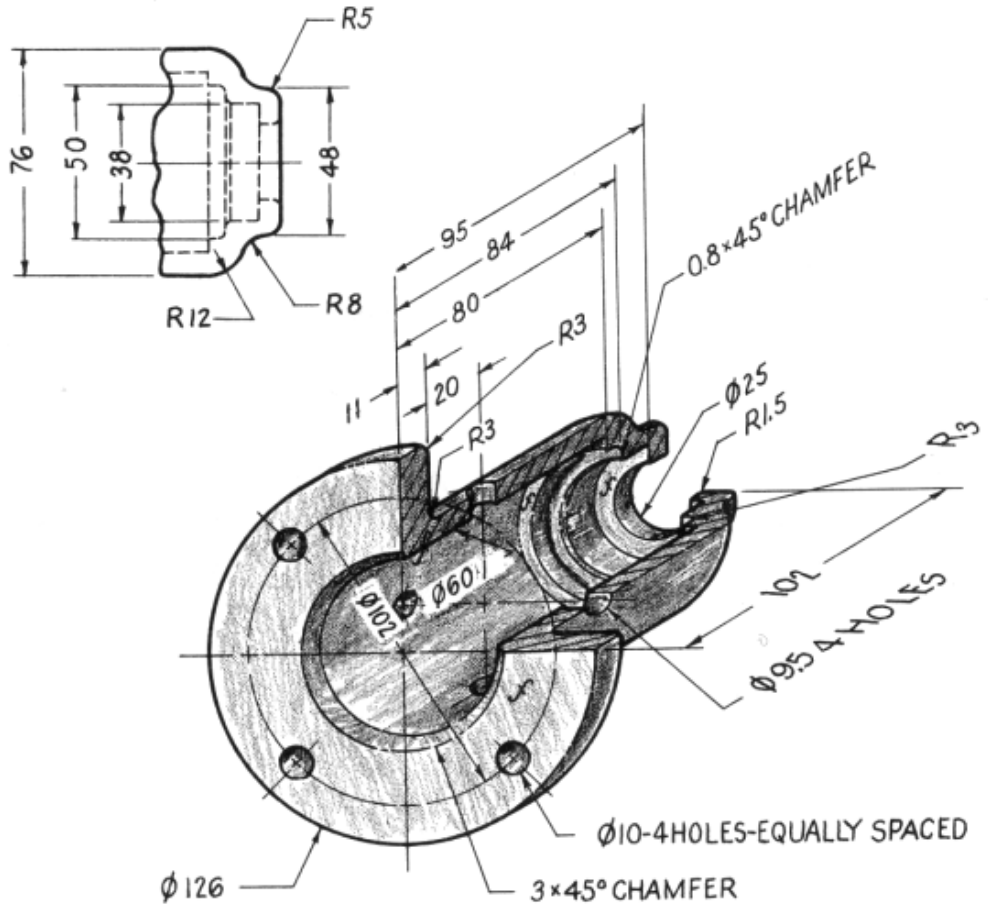
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:104



Slotted guide link.

EX:105



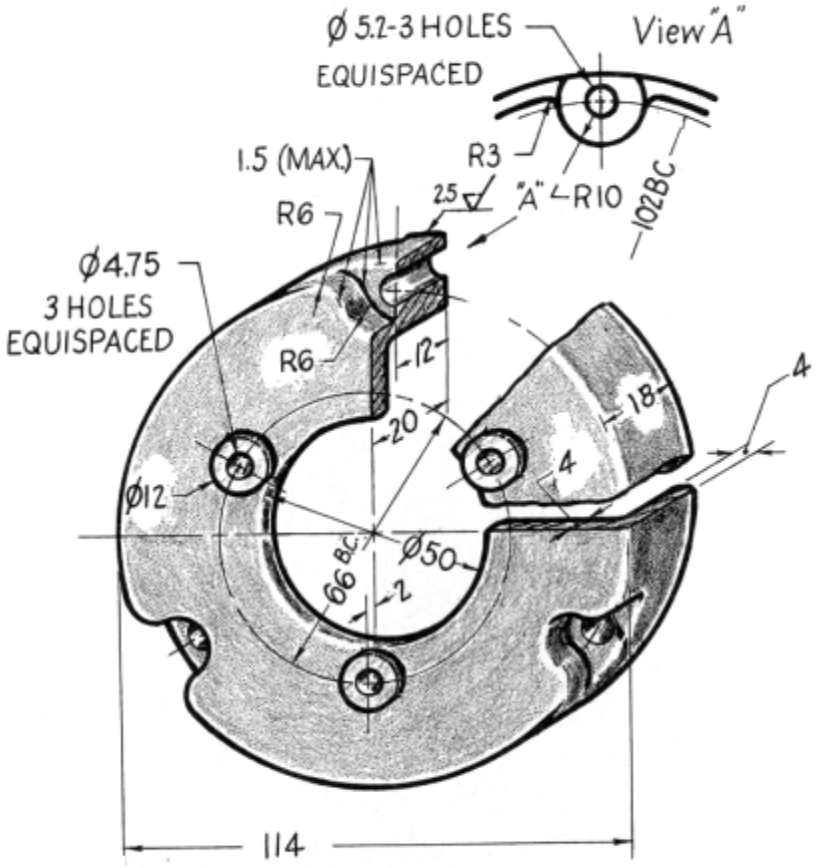
Centering bearing.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

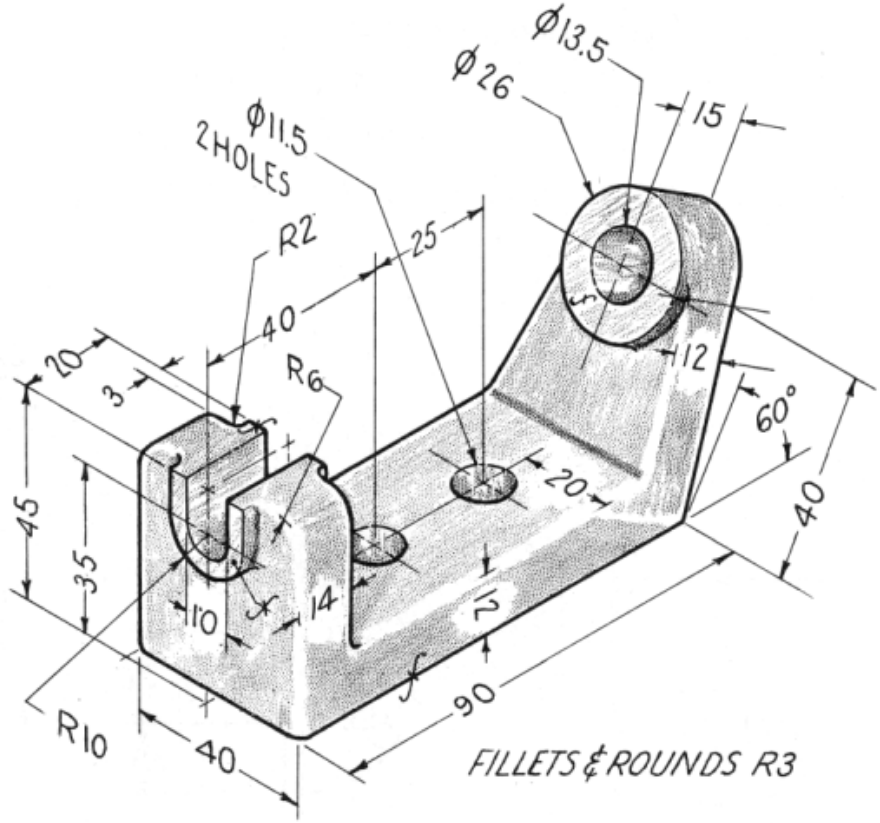
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:106



Cover.

EX:107



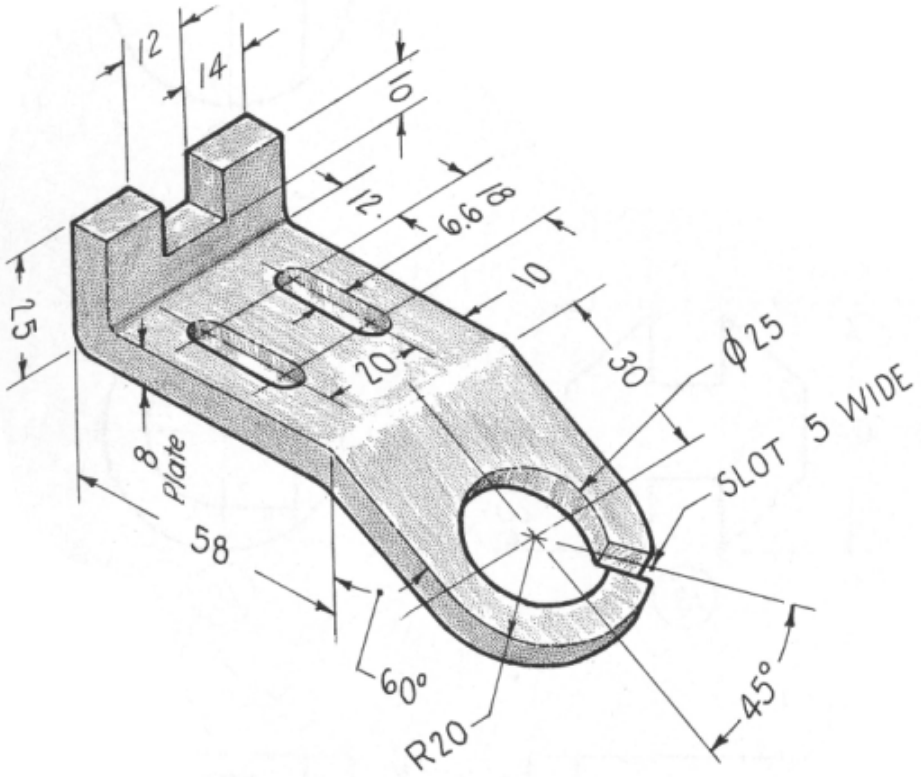
Anchor bracket.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

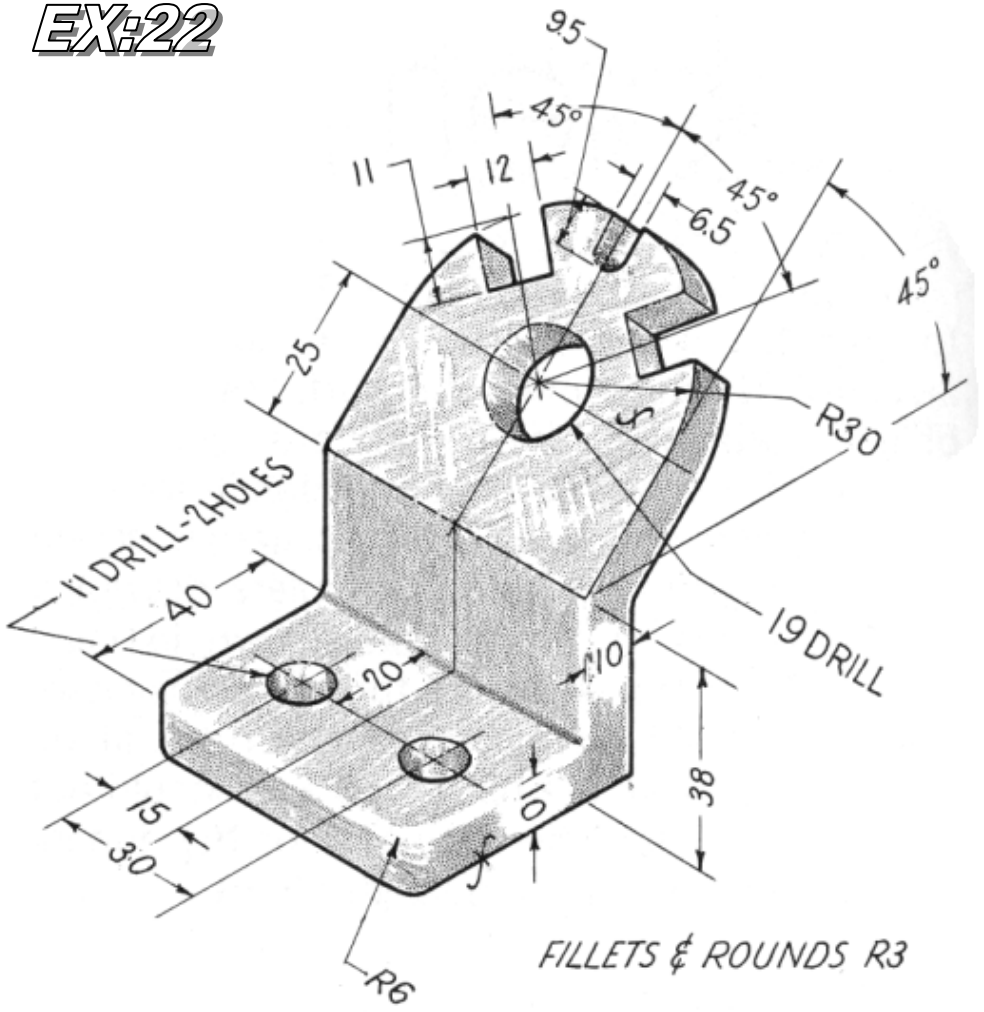
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:21



Anchor clip.

EX:22



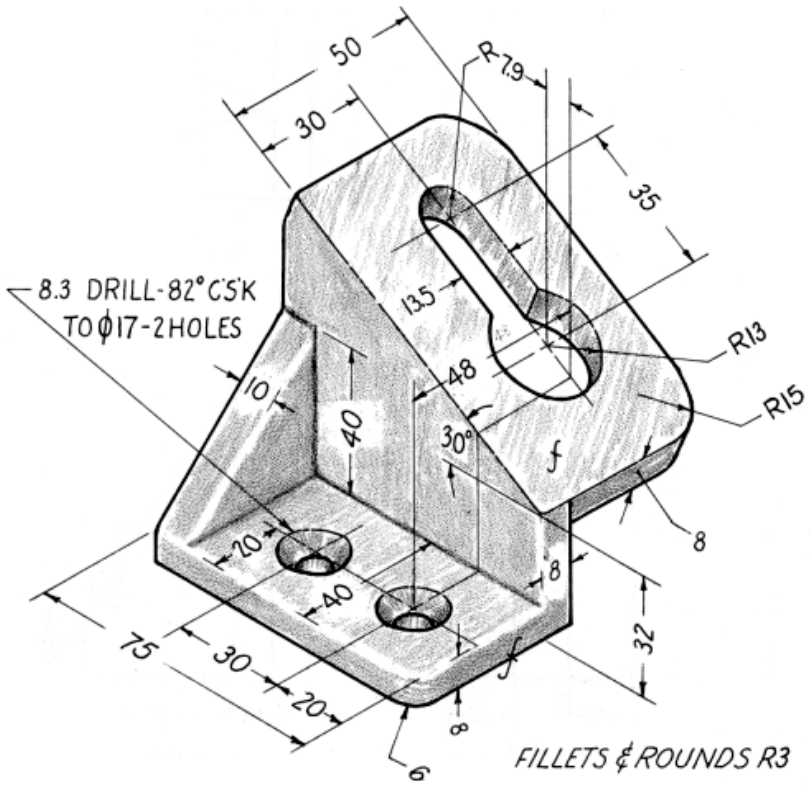
Feeder bracket.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

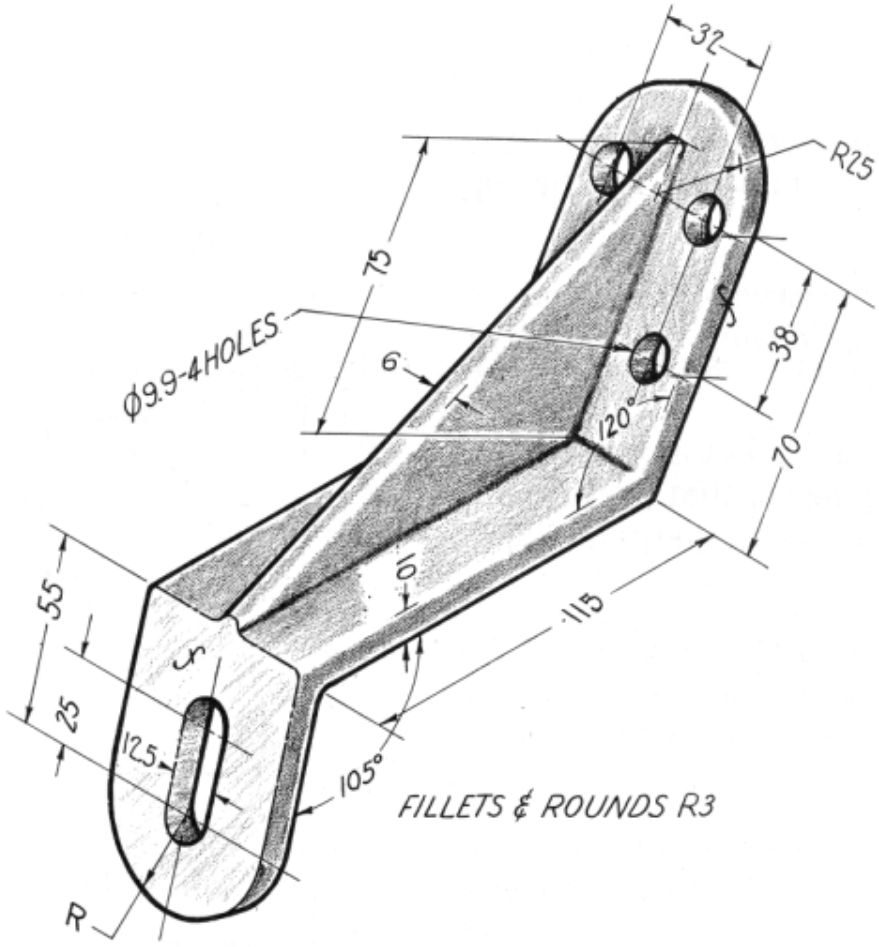
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:108



Offset guide.

EX:109



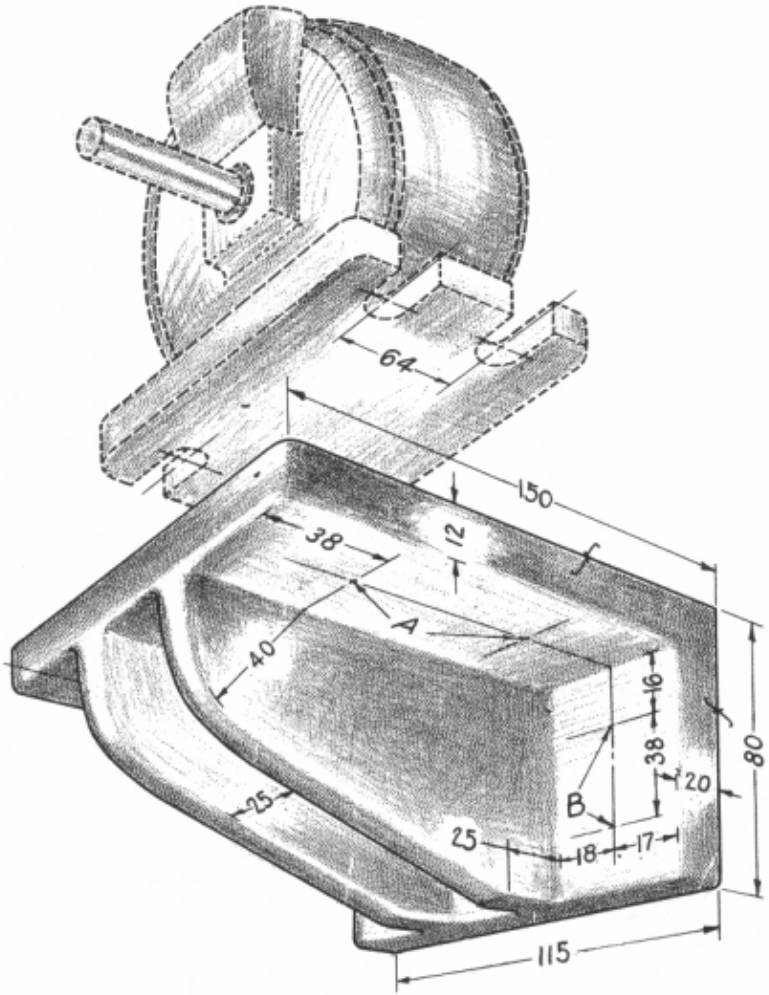
Angle bracket.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

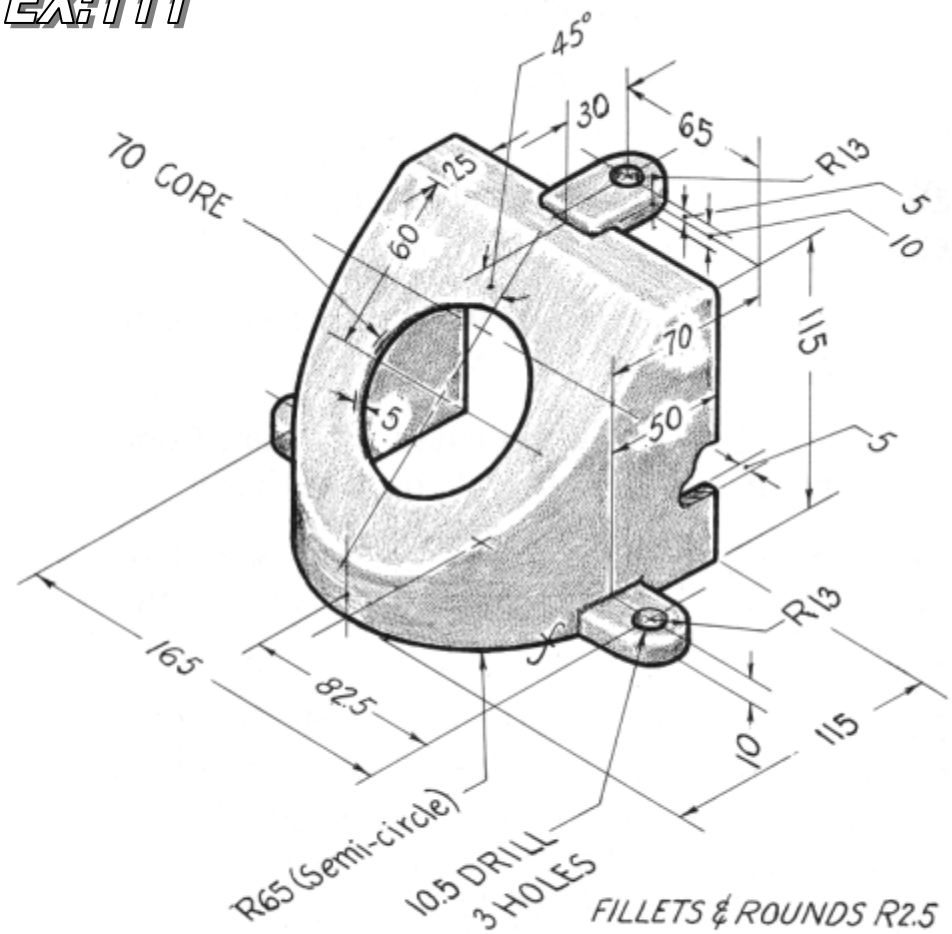
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:110



Motor base.

EX:111



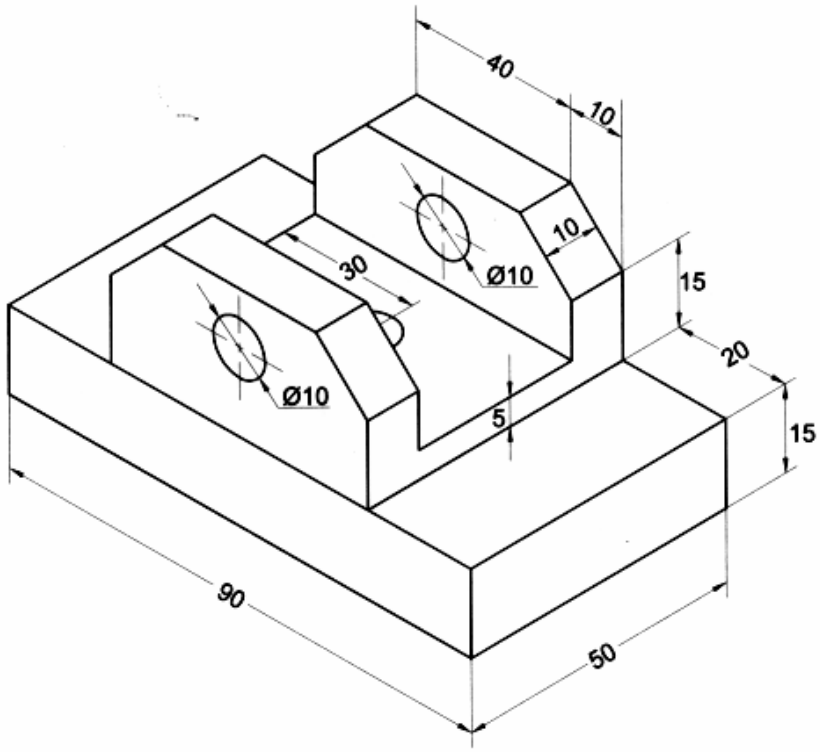
Gear cover.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

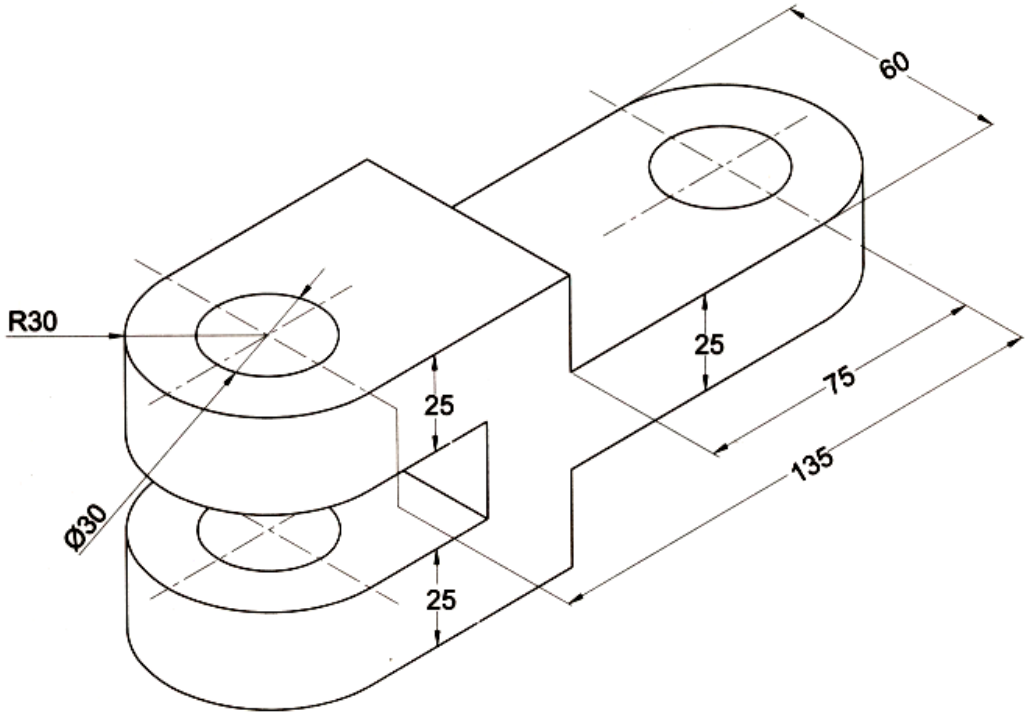
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:5



EX:6

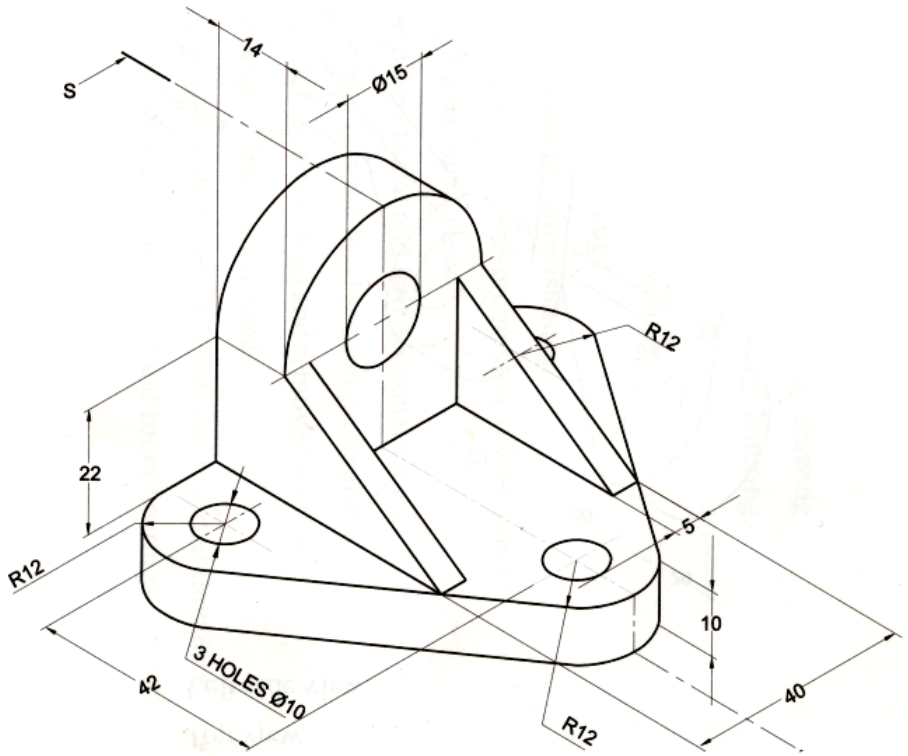


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

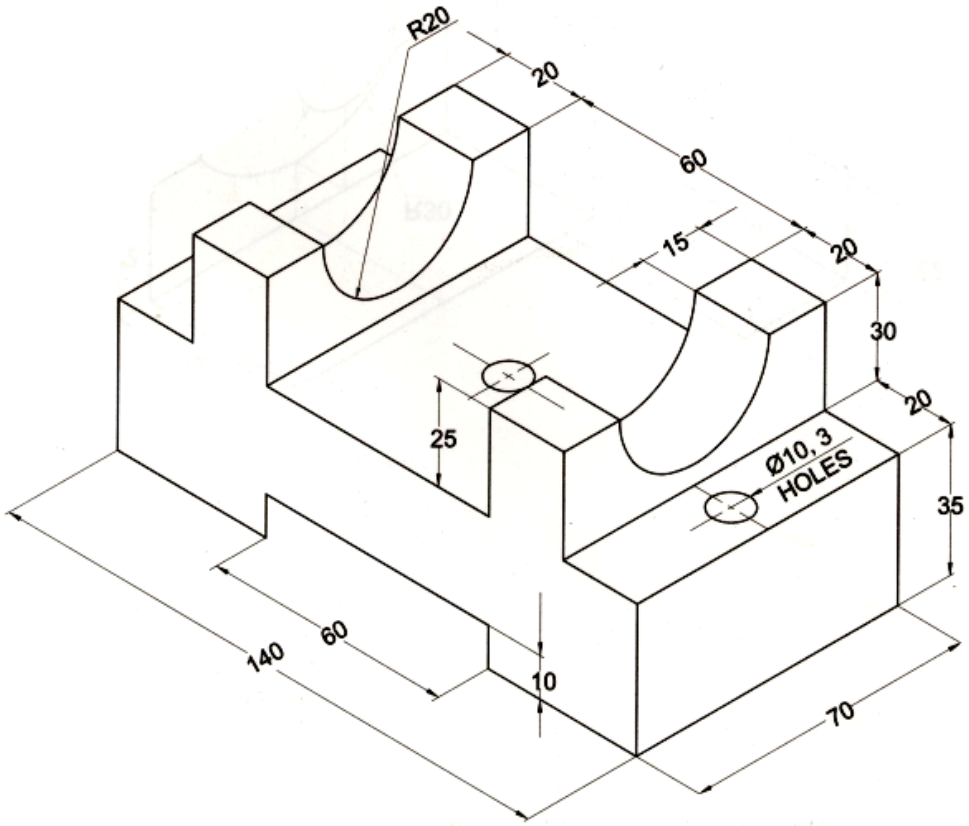
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:7



EX:8

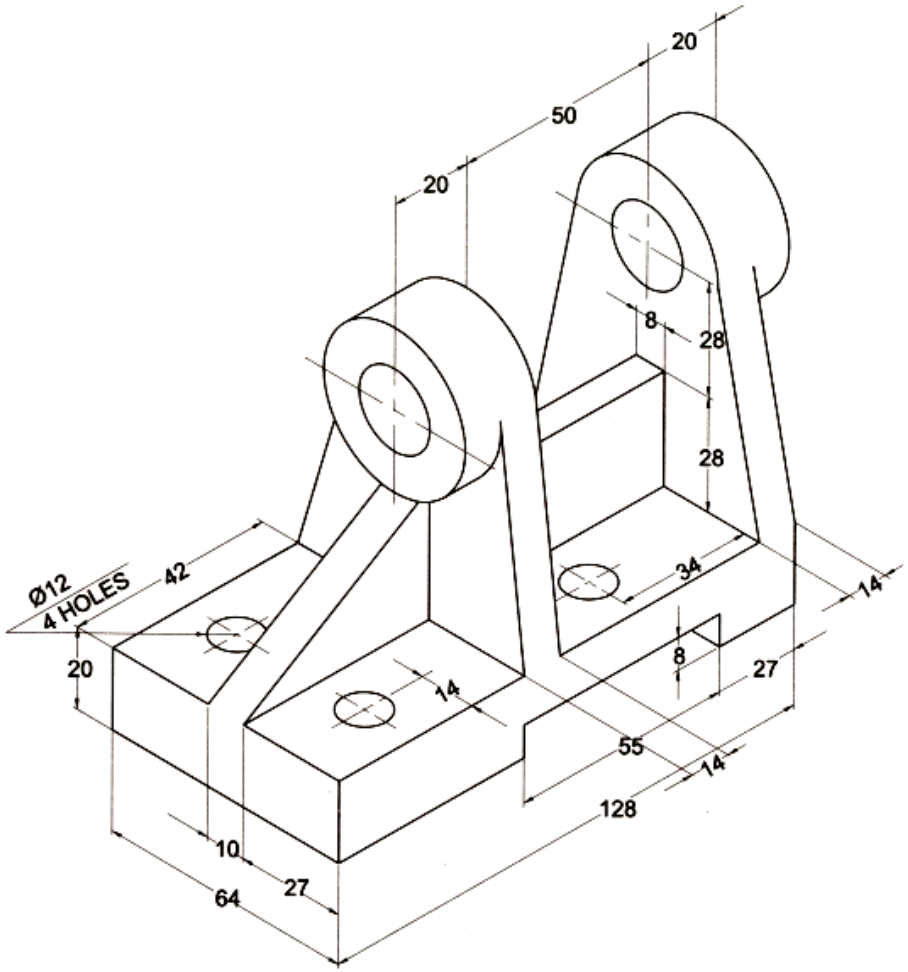


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

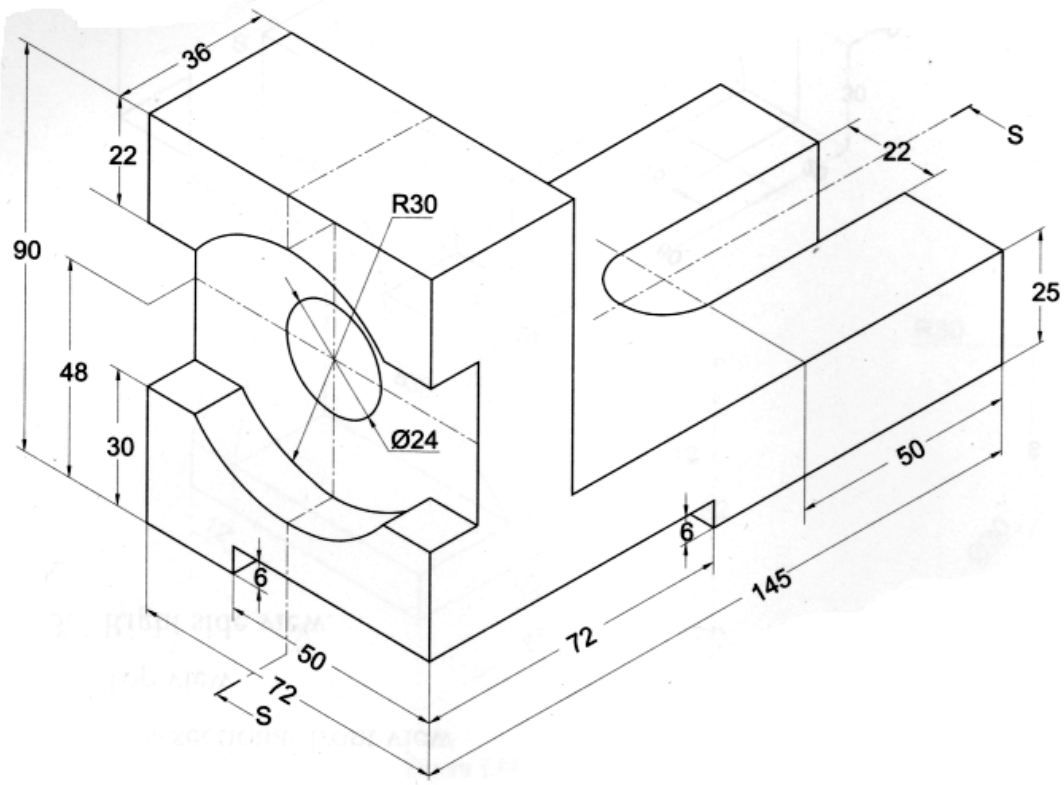
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:9



EX:10

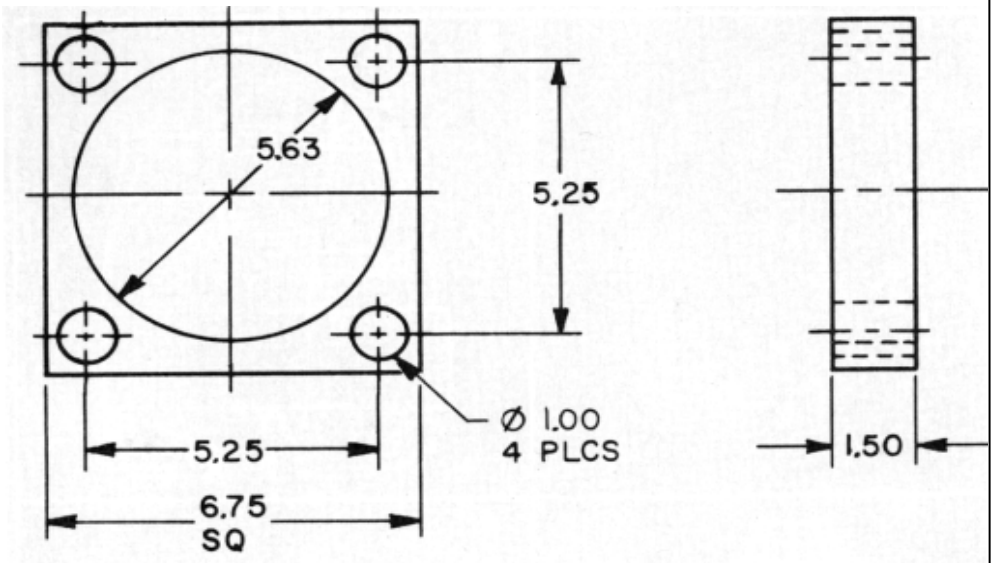


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

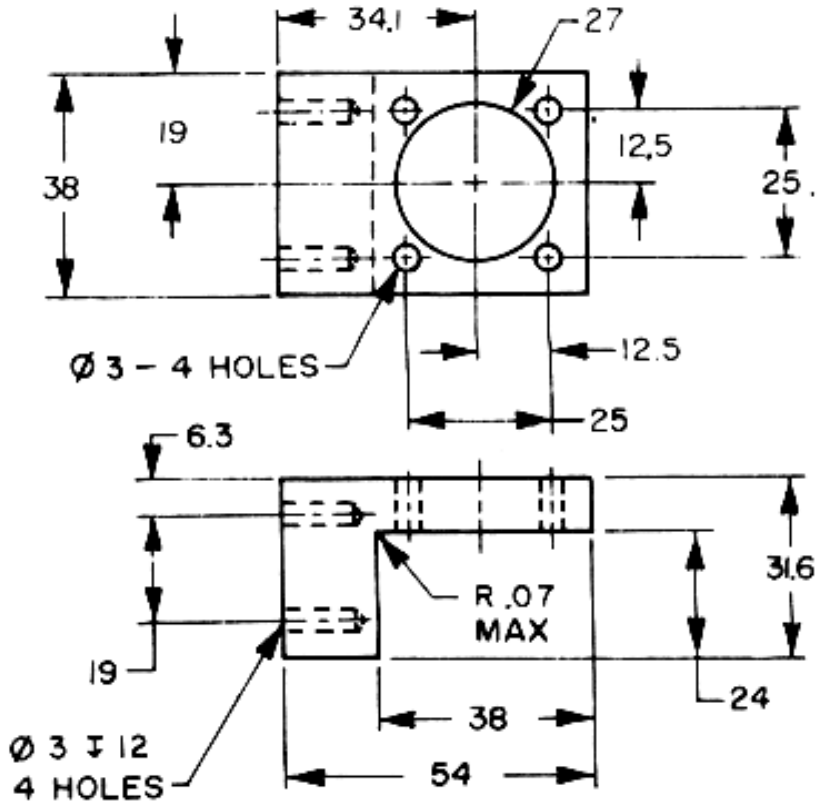
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:11



FLANGE, MOUNTING

EX:12



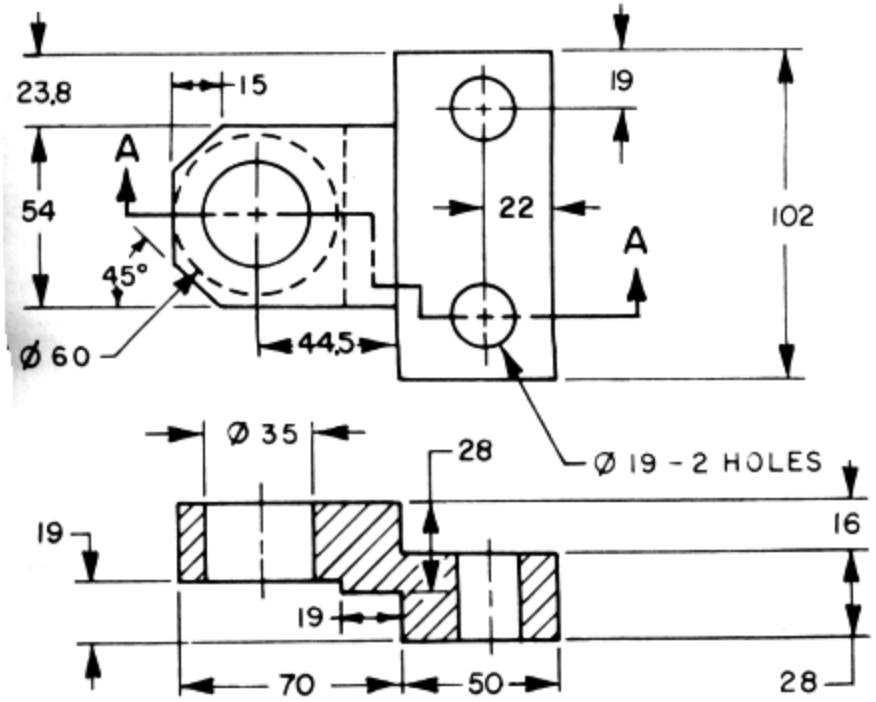
MOTOR MOUNT

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

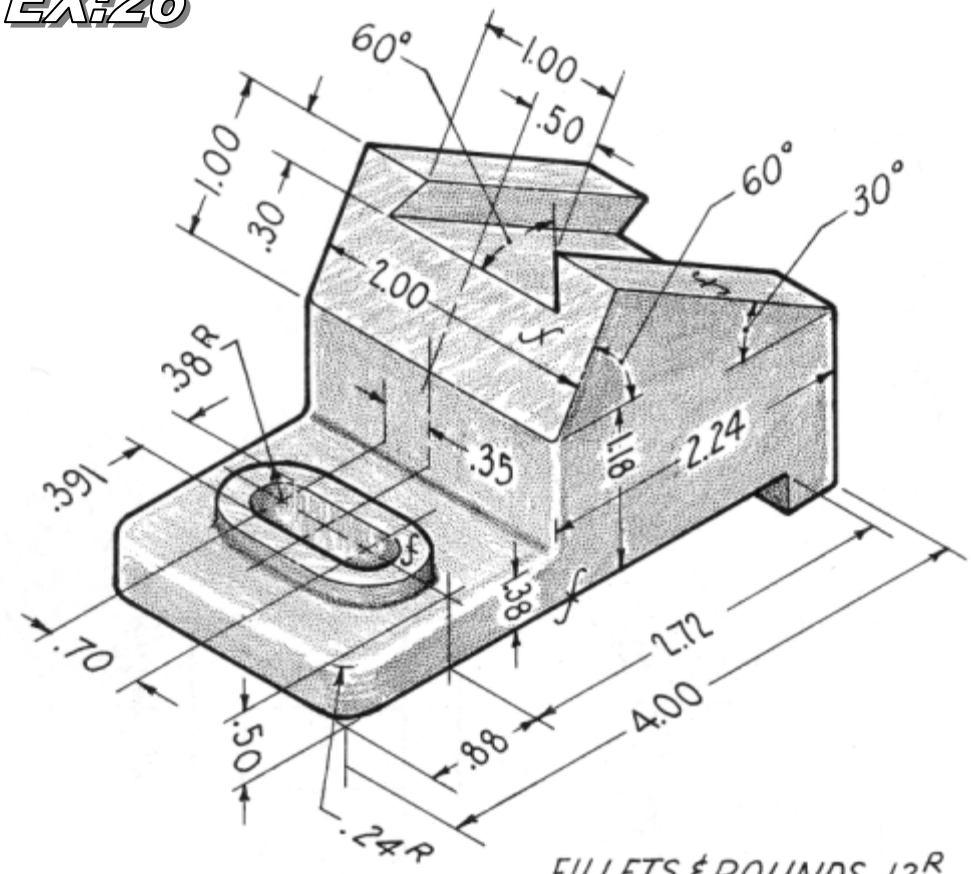
EX:25



SECTION A-A

SHAFT SUPPORT

EX:26



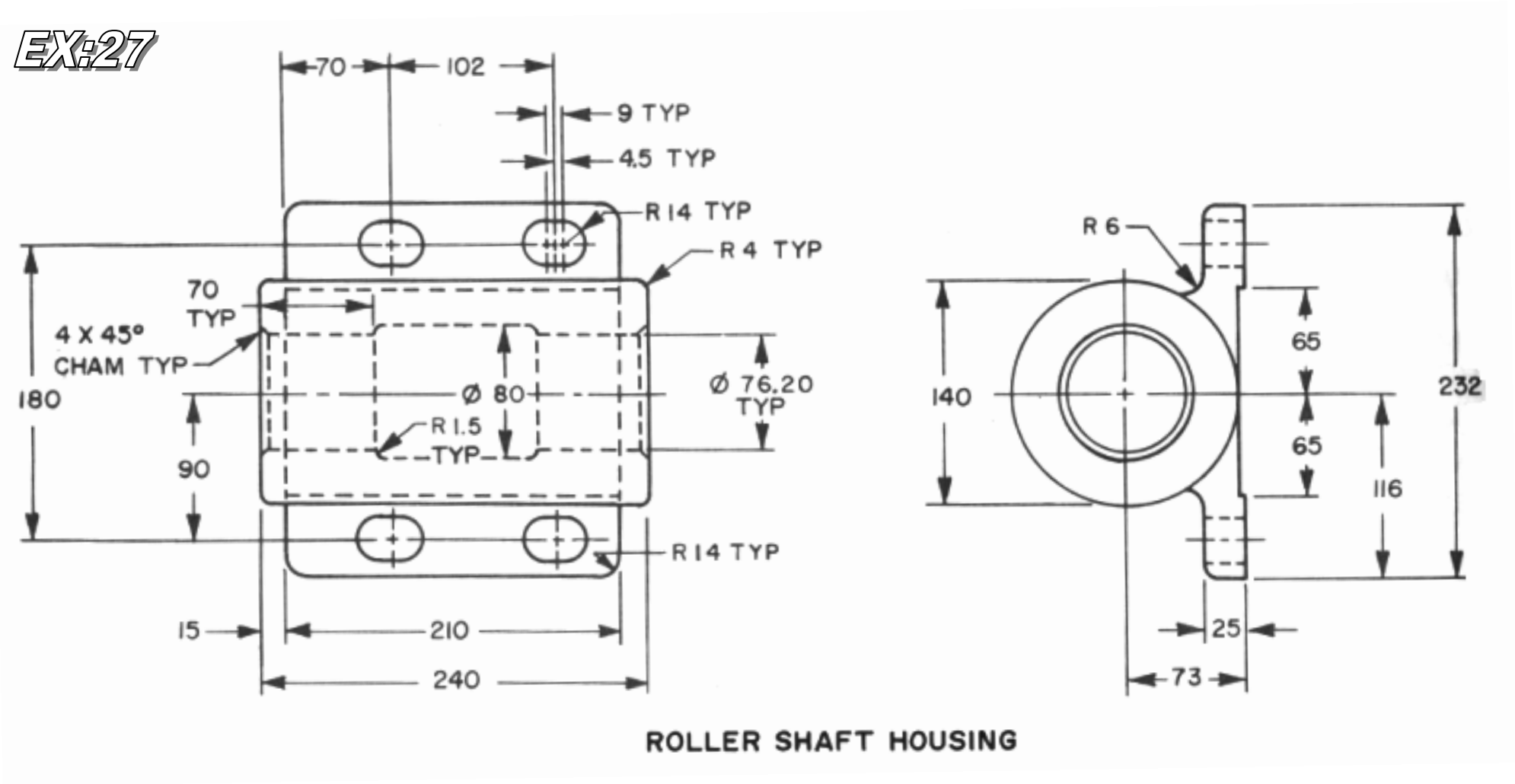
Dovetail bracket.

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:27



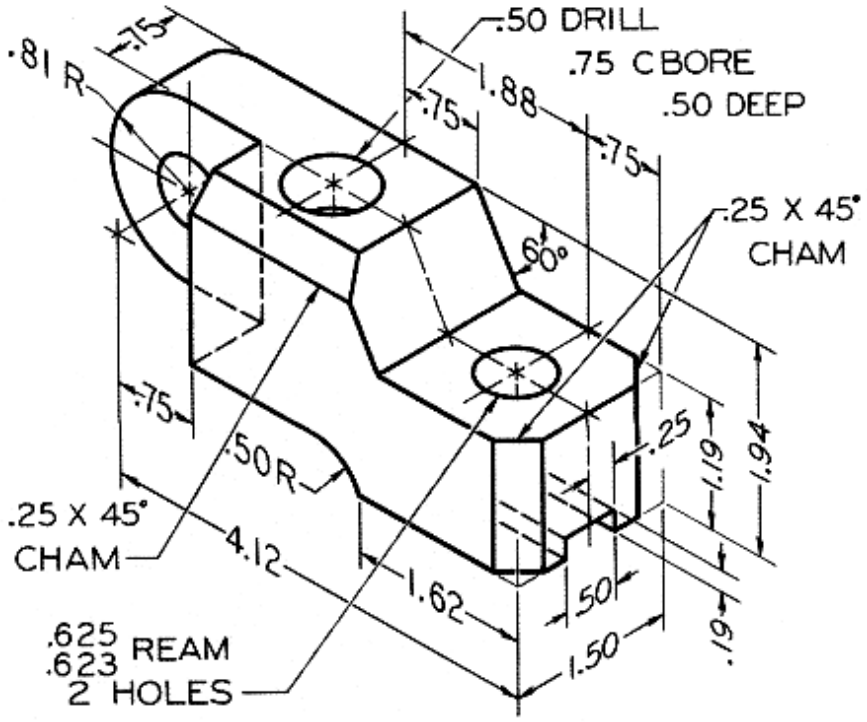
ROLLER SHAFT HOUSING

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

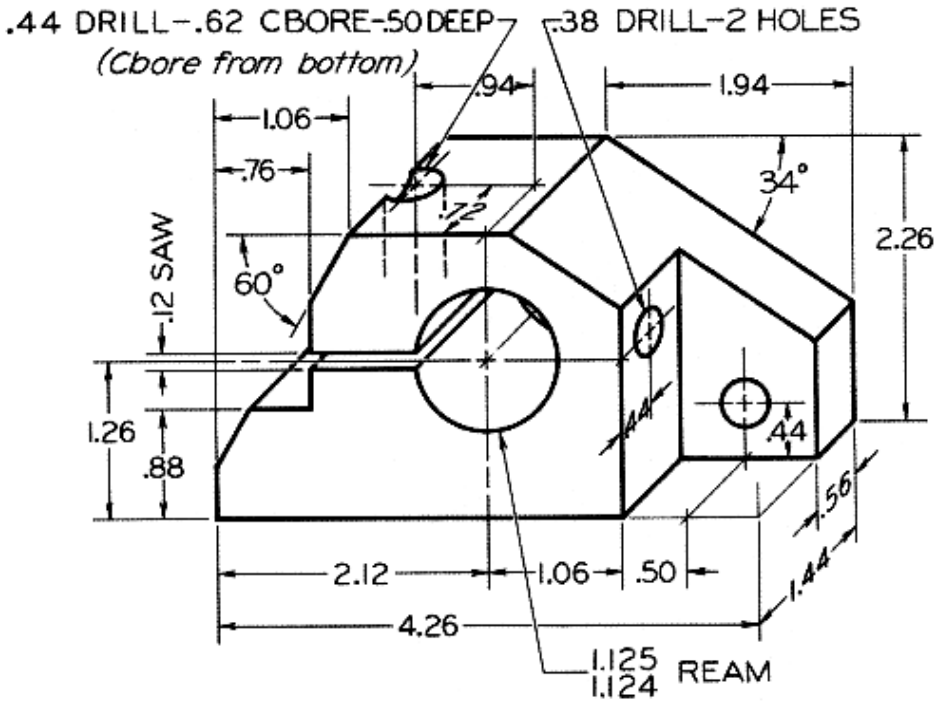
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:23



Vibrator Arm

EX:24



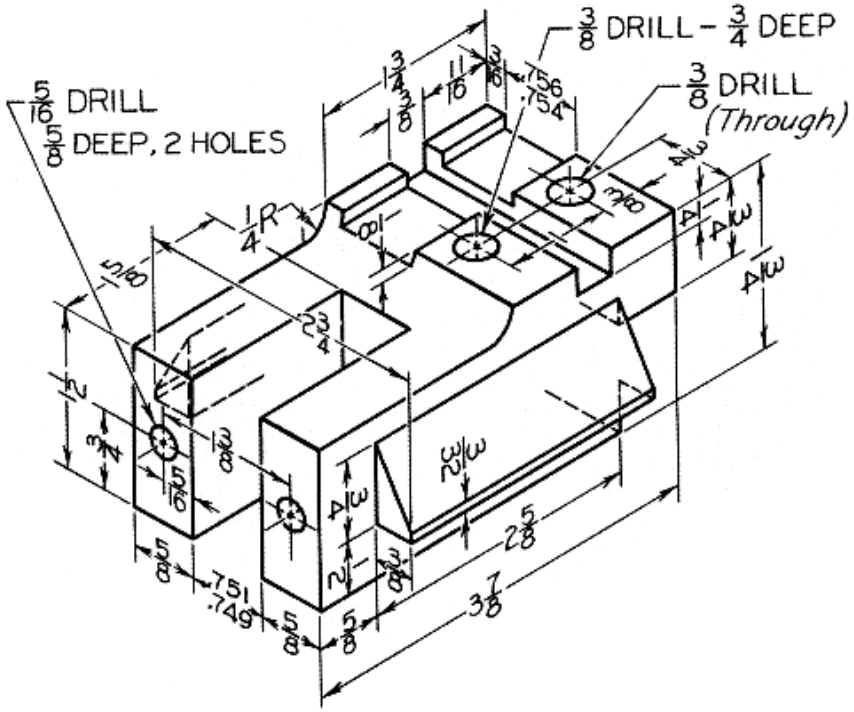
Clutch Lever

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

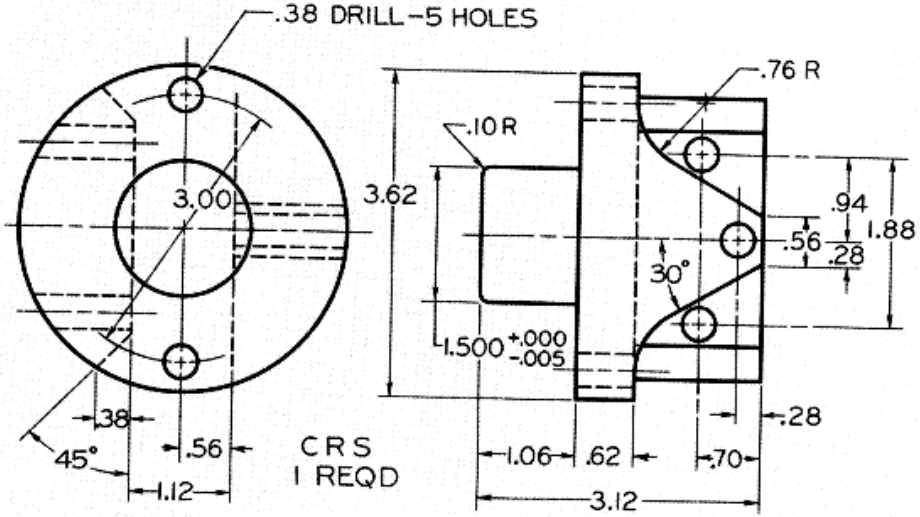
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:28



Tool Holder

EX:29



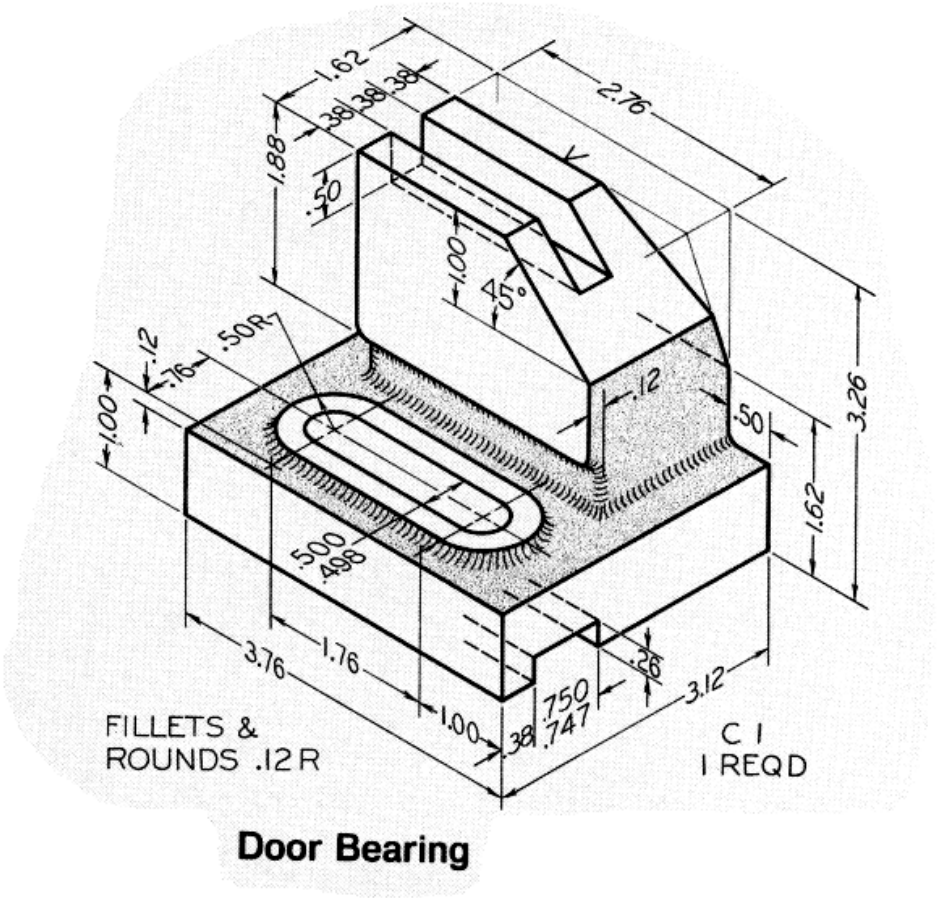
Holder

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

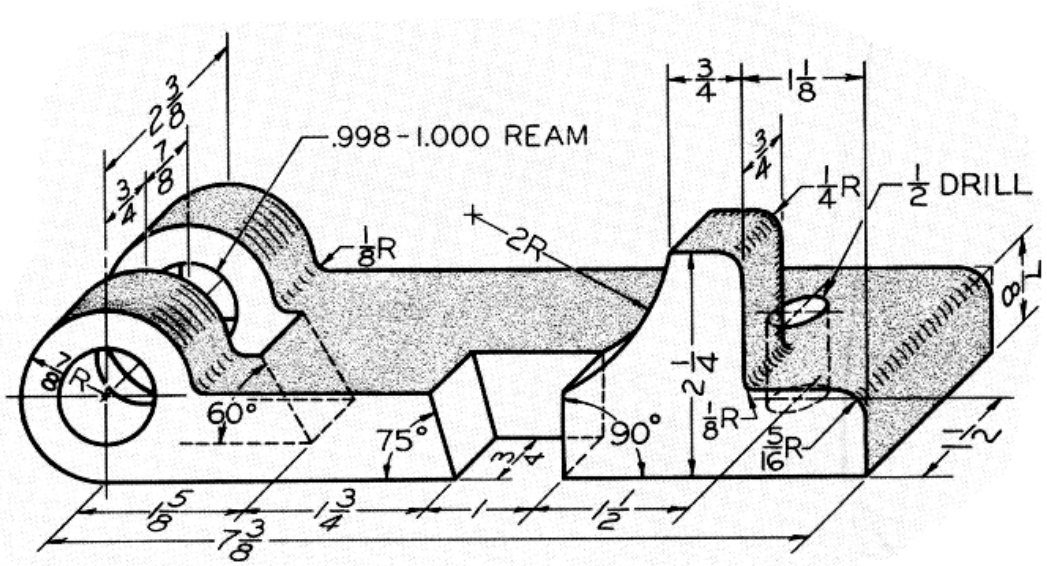
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:30



Door Bearing

EX:31



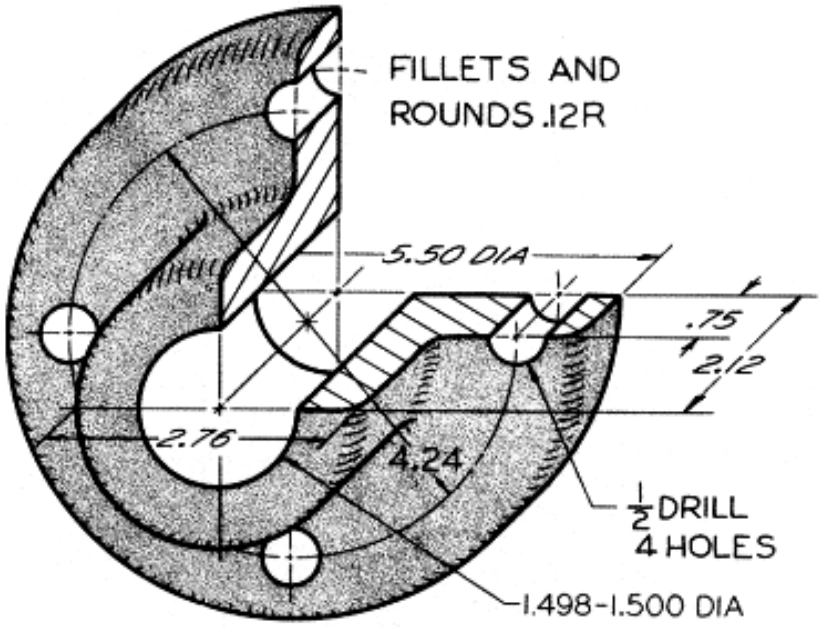
Hinge Base.

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

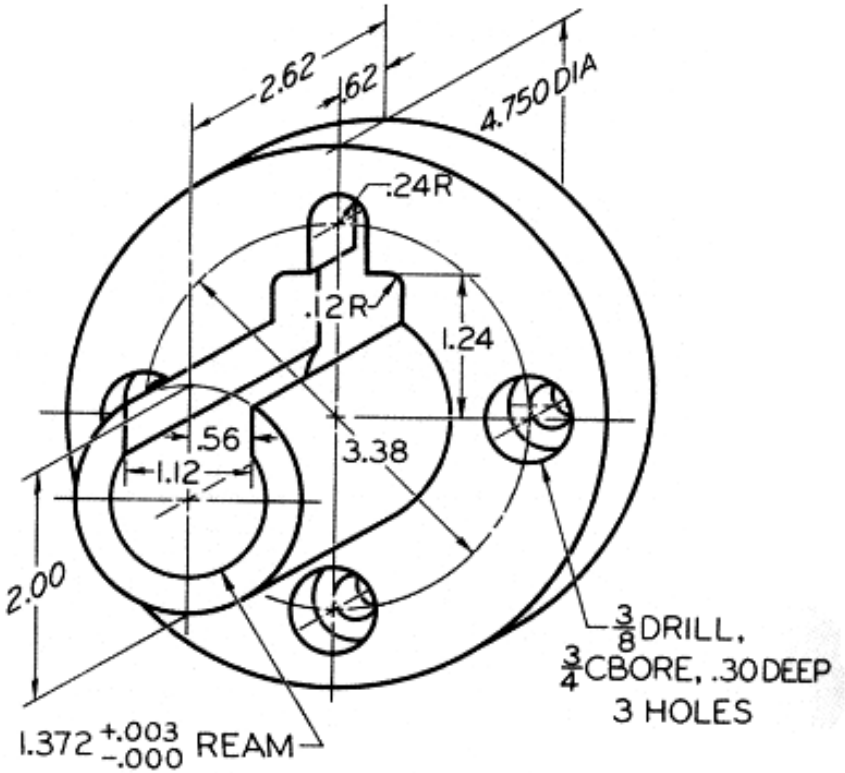
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:32



Bearing.

EX:33



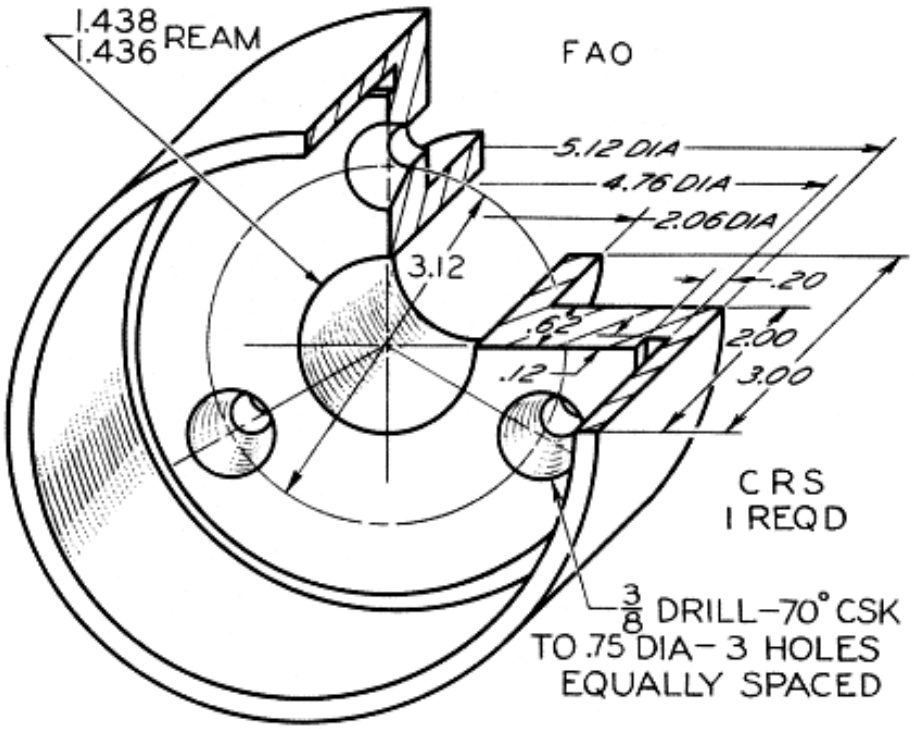
Centering Bushing.

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

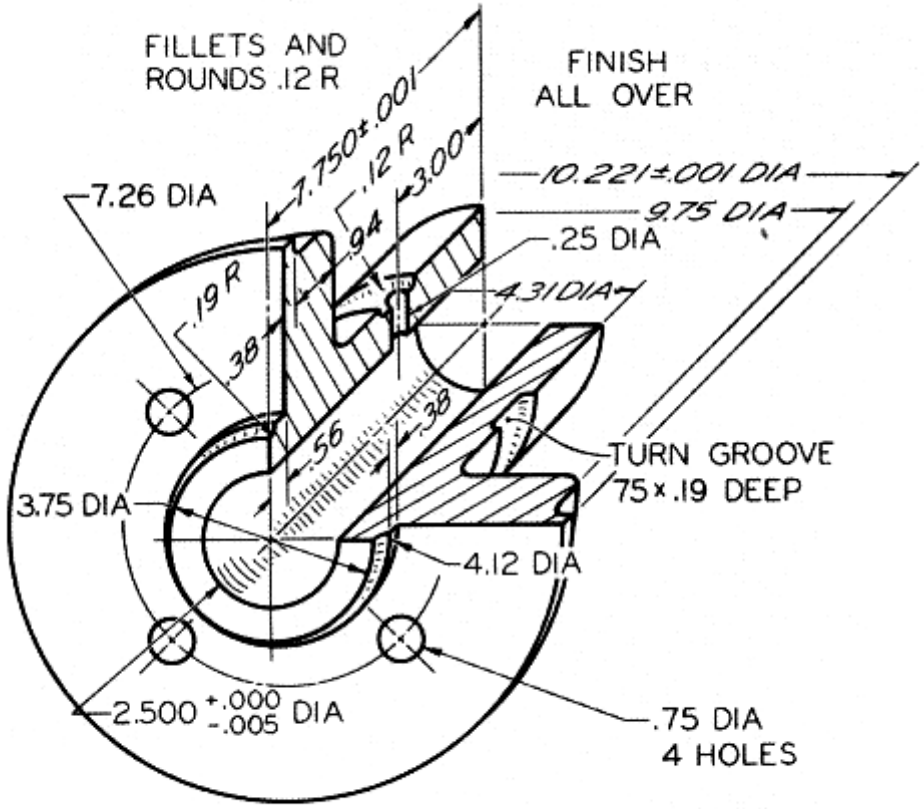
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:34



Special Bearing.

EX:35



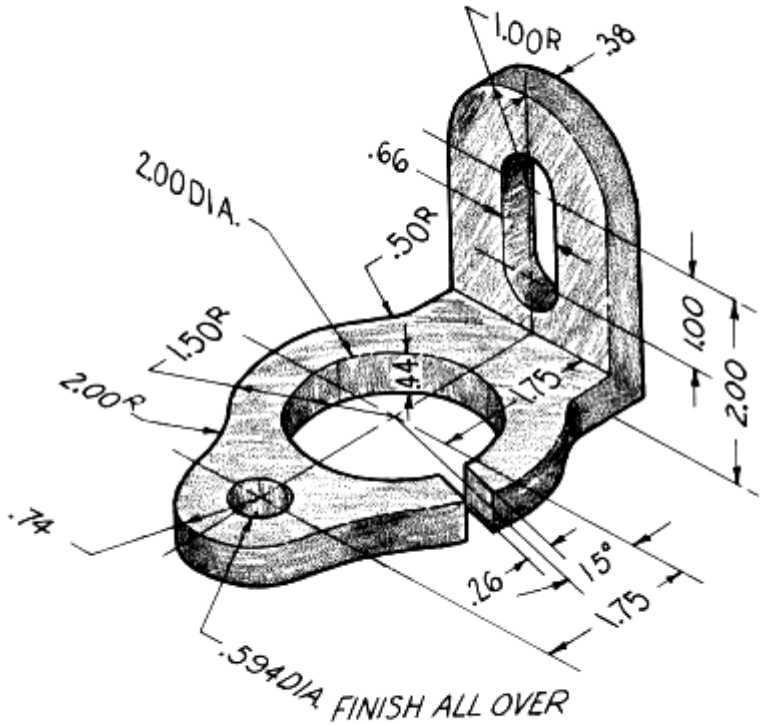
Bearing.

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

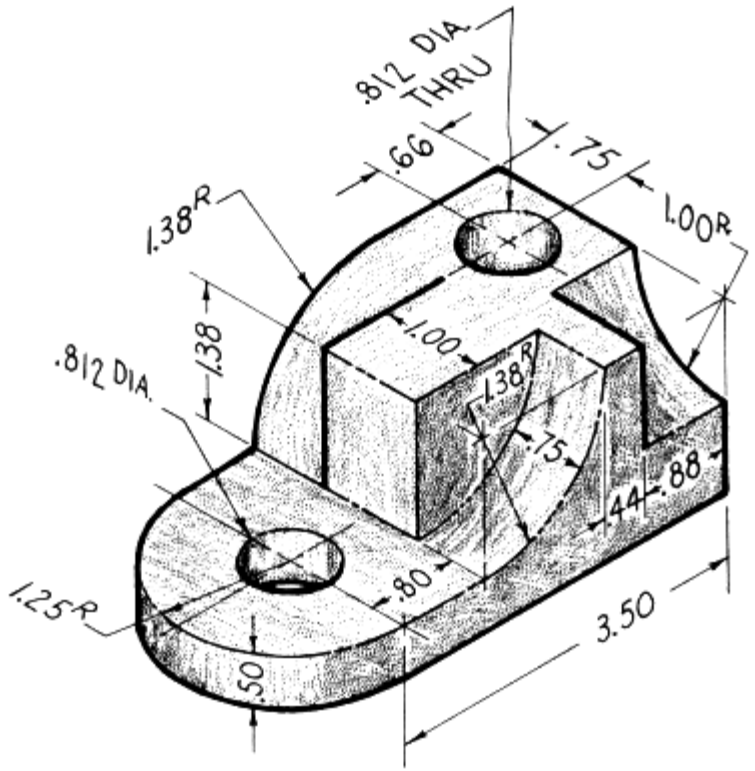
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:38



Index guide.

EX:39



Shoe block.

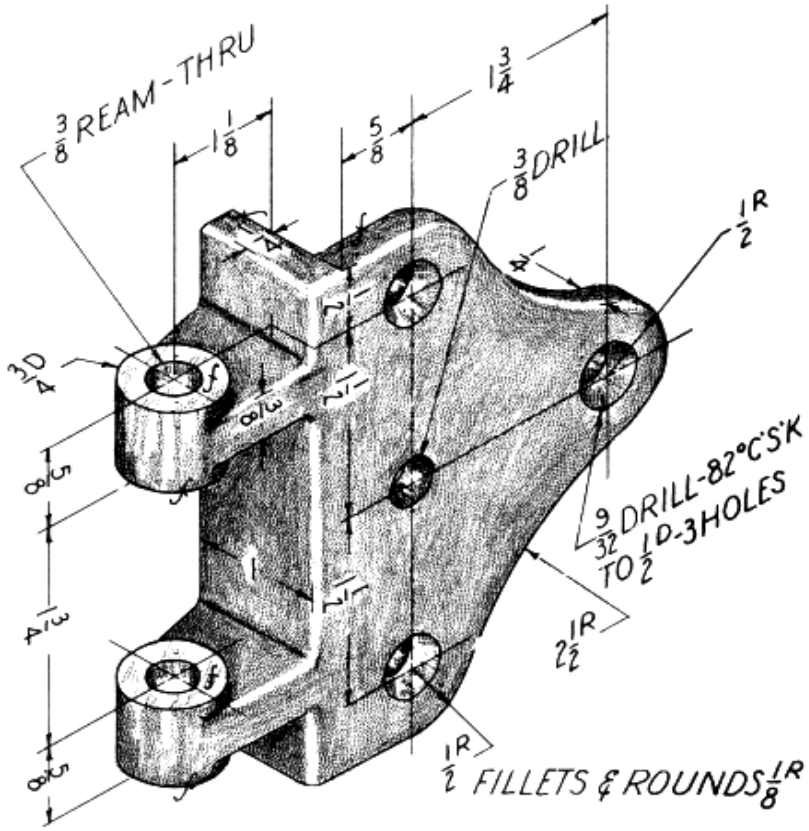
Cup Washer.

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

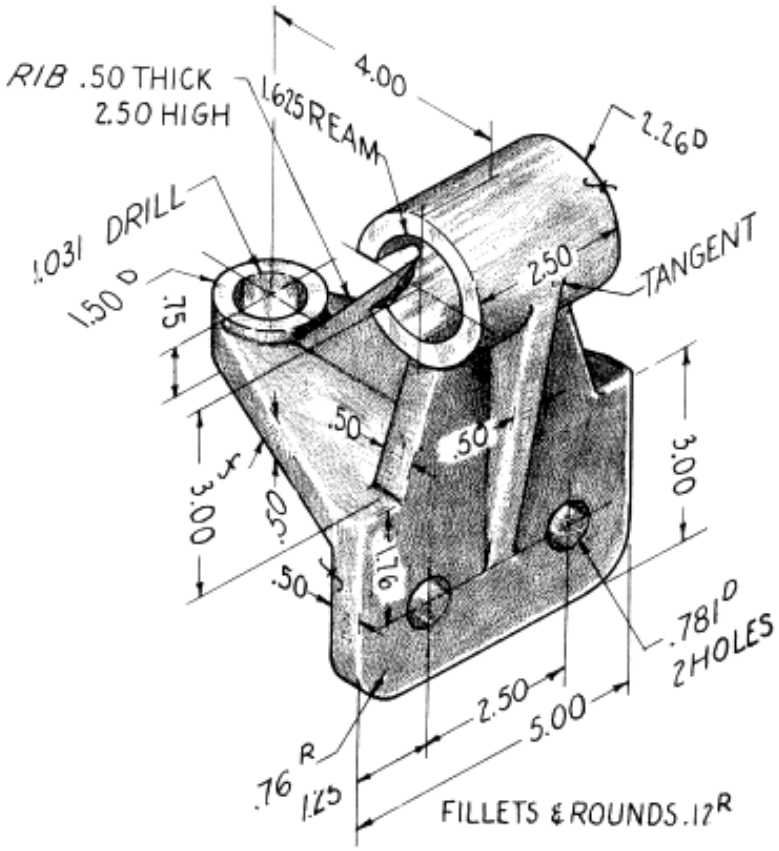
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:40



Corner bracket.

EX:41



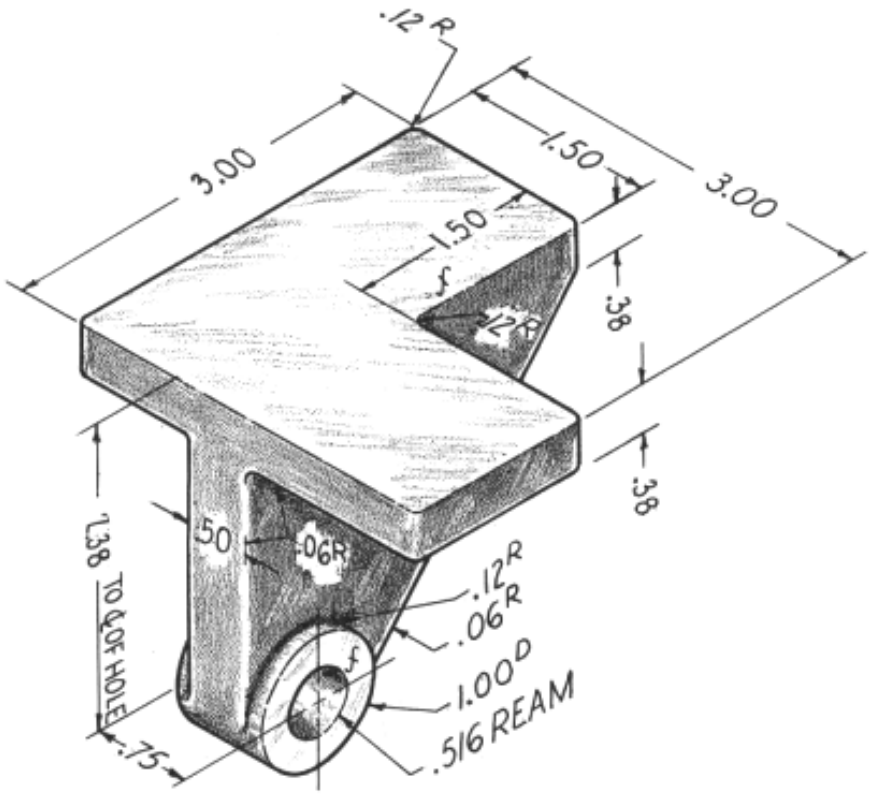
Control rod guide.

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

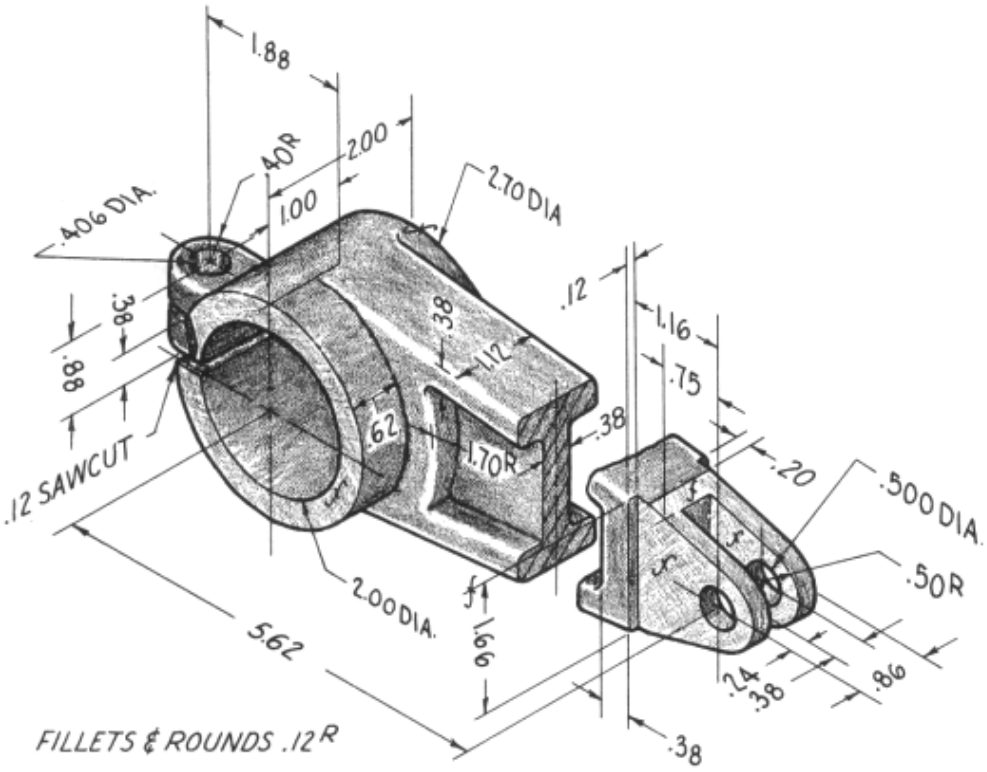
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:42



Tool rest.

EX:43



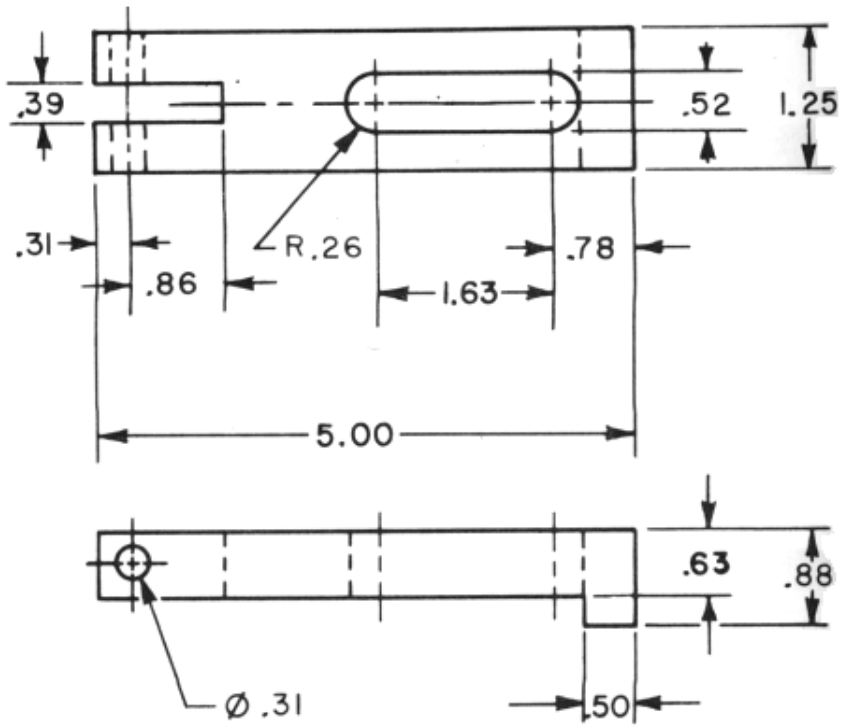
Shifter link.

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

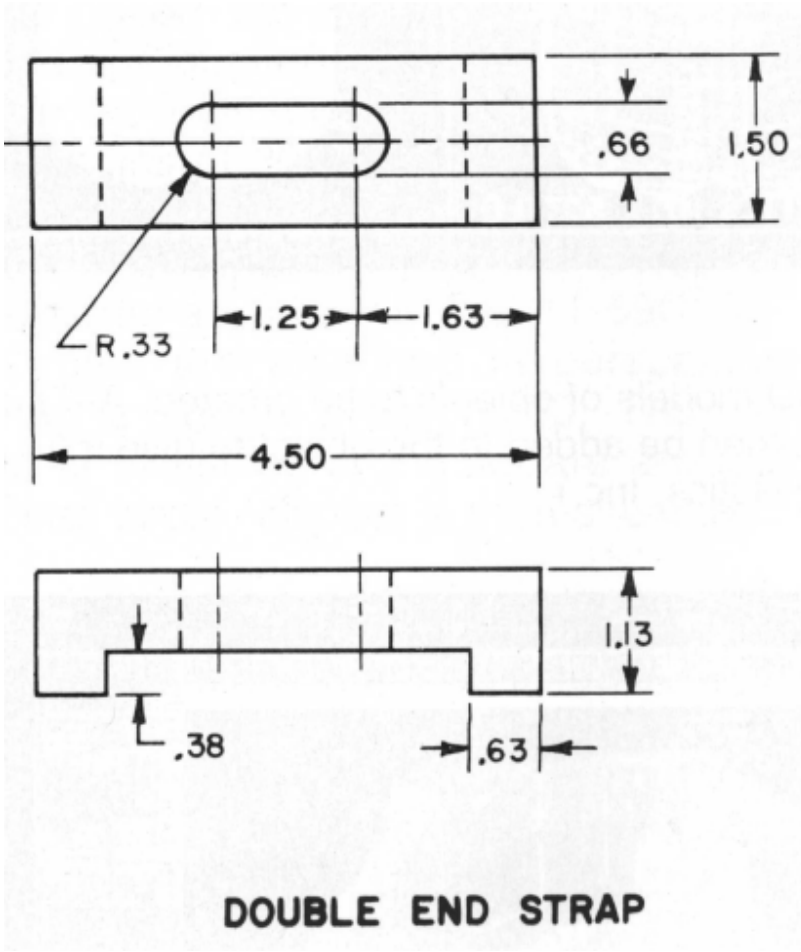
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:44



CAM STRAP

EX:45



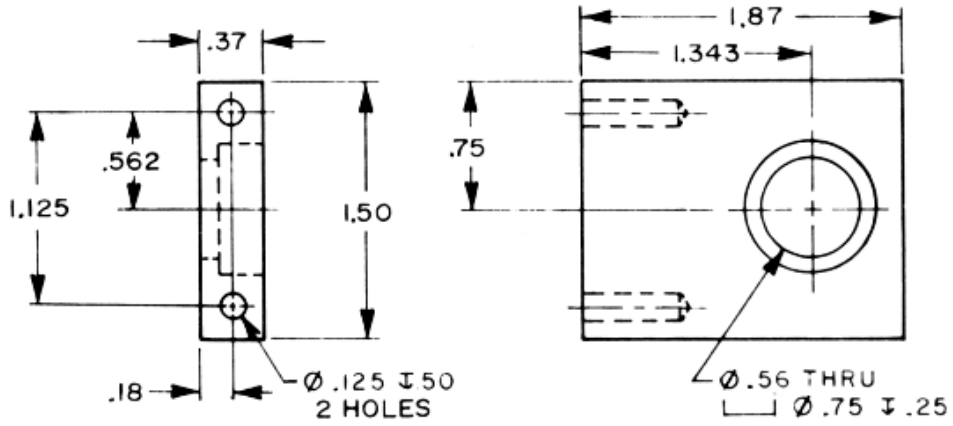
DOUBLE END STRAP

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

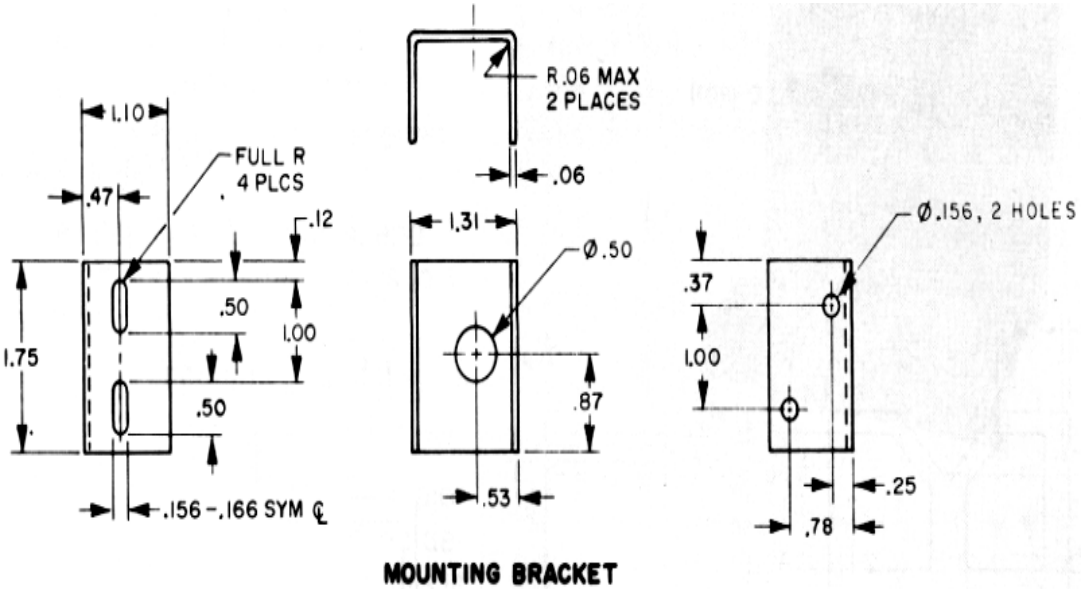
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:47



BEARING MOUNT

EX:48



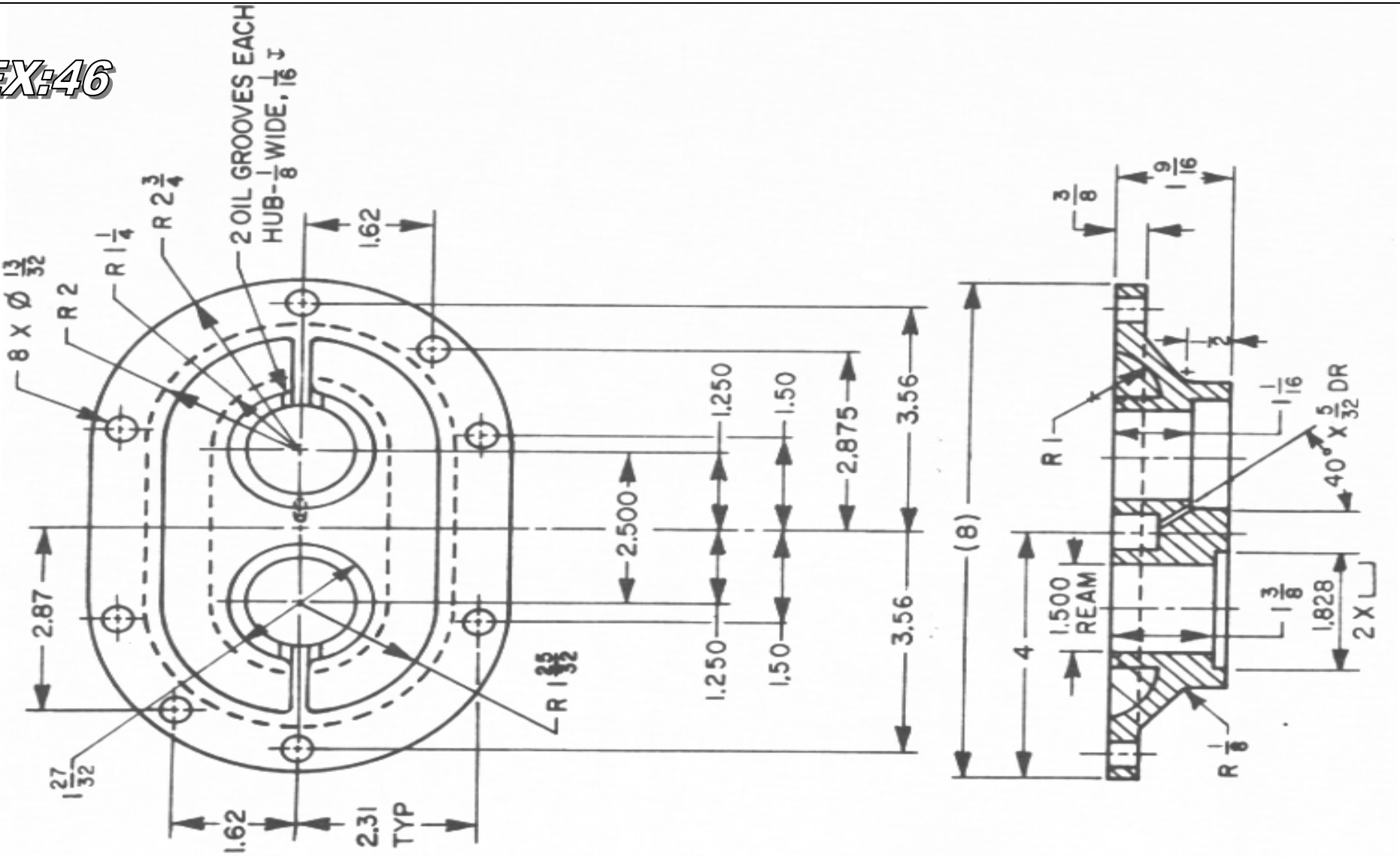
MOUNTING BRACKET

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:46



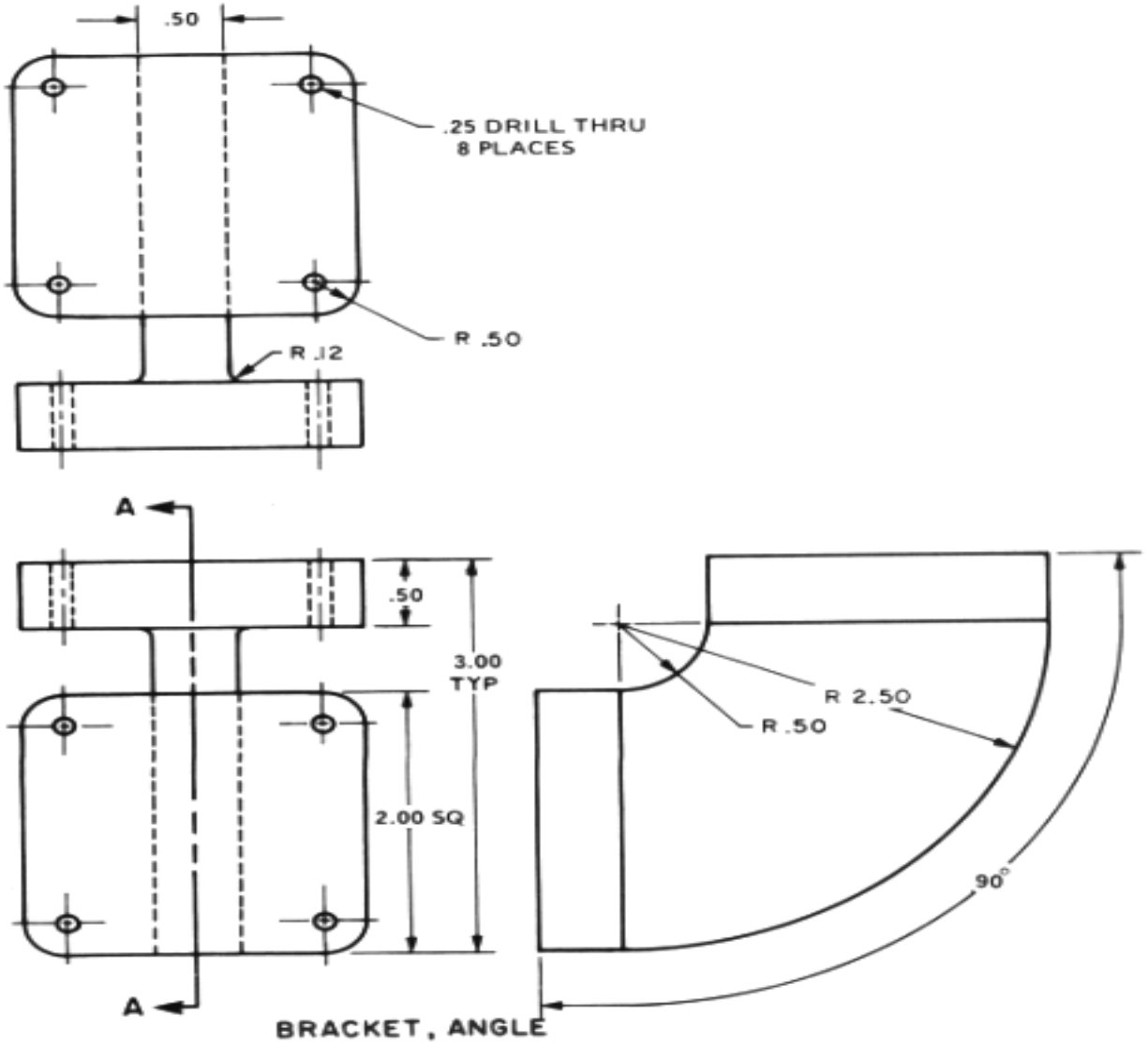
GEAR COVER PLATE

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX:49



BRACKET, ANGLE

ALL DIMENSIONS ARE IN INCHES			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PART DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

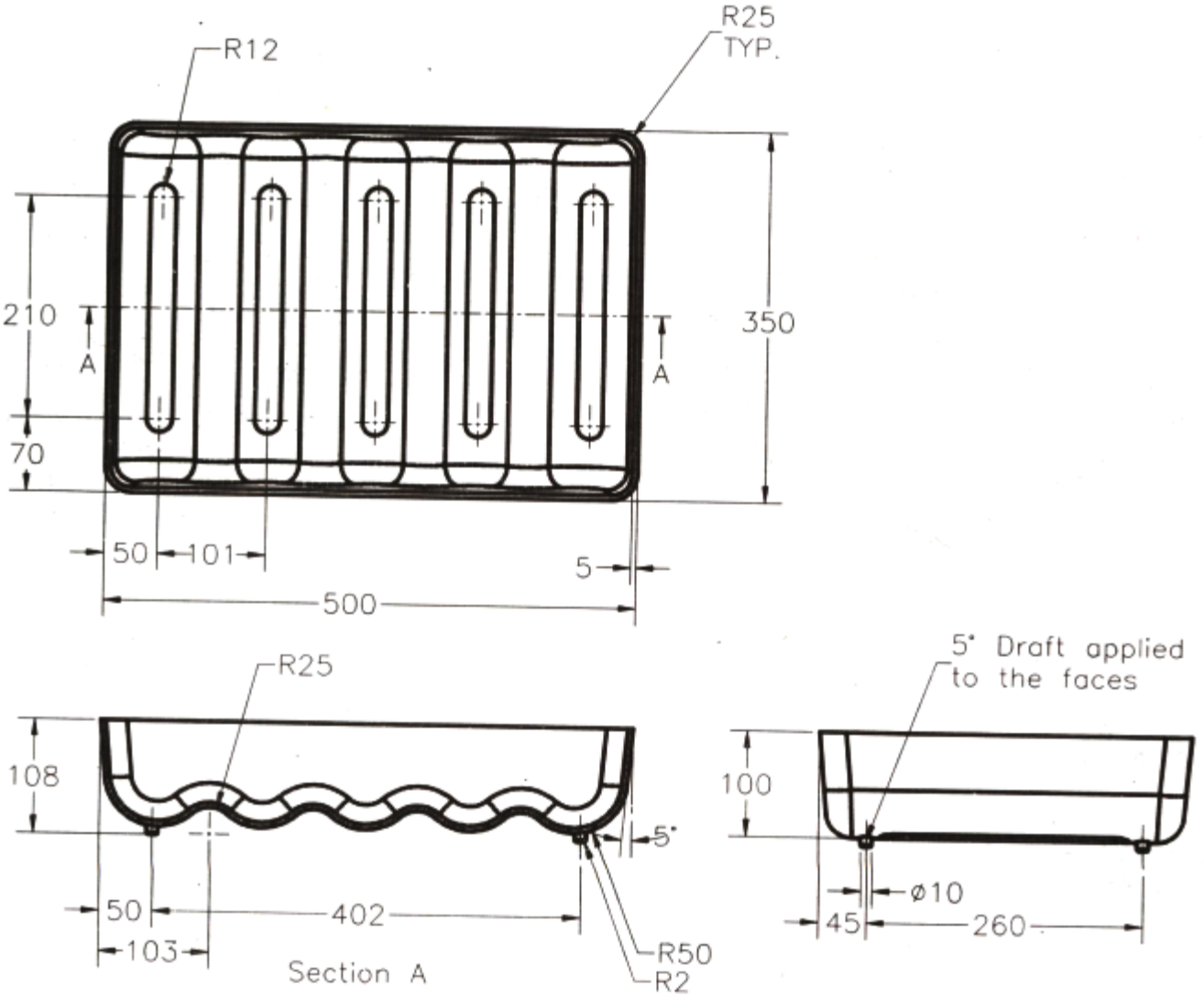
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

SURFACING

EX: 1



Soap Case

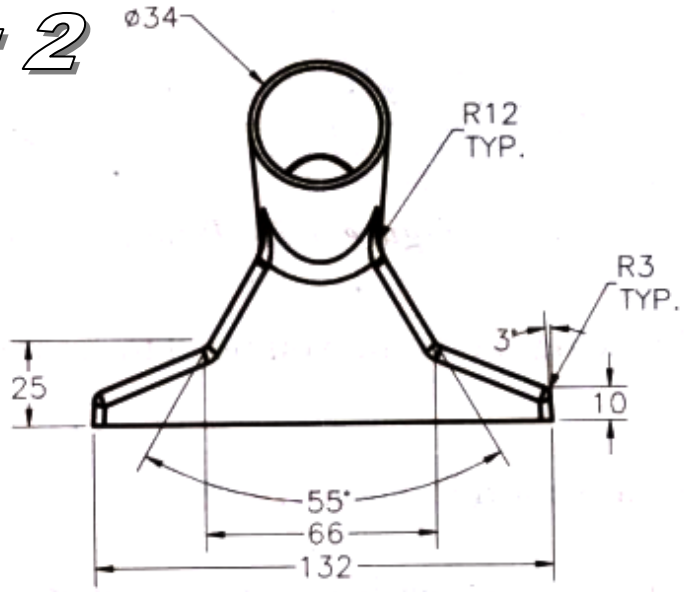


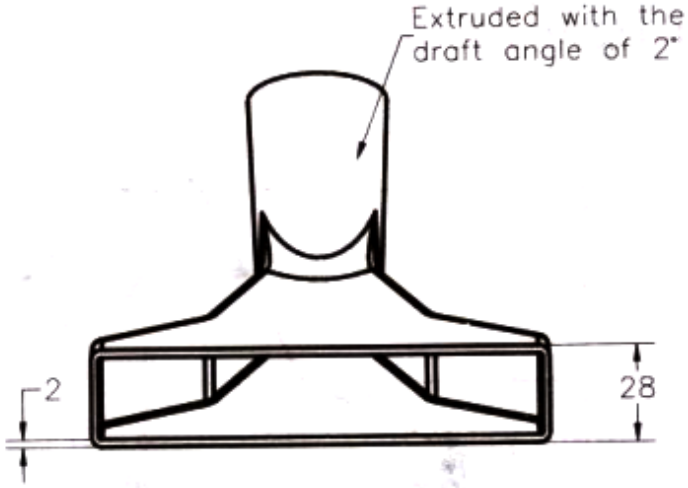
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SURFACING	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

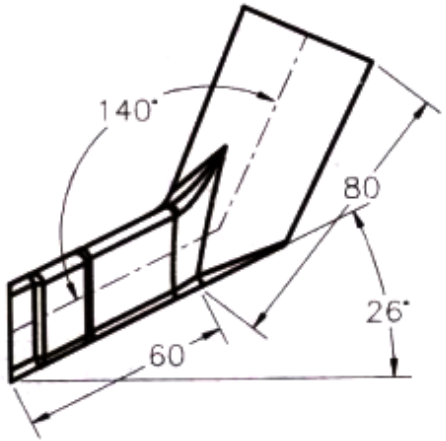
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX: 2









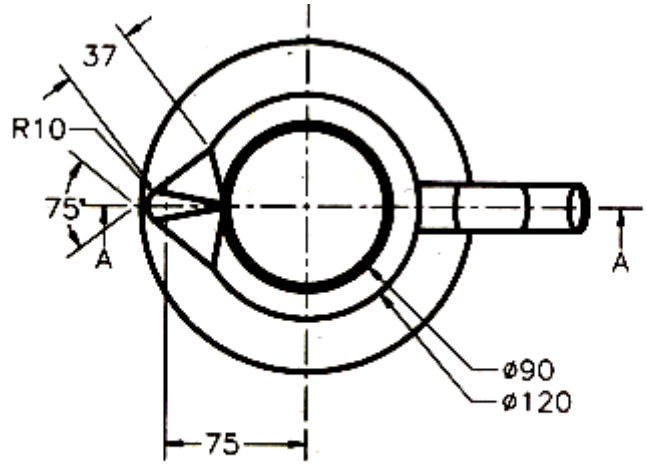
Vacuum Cleaner

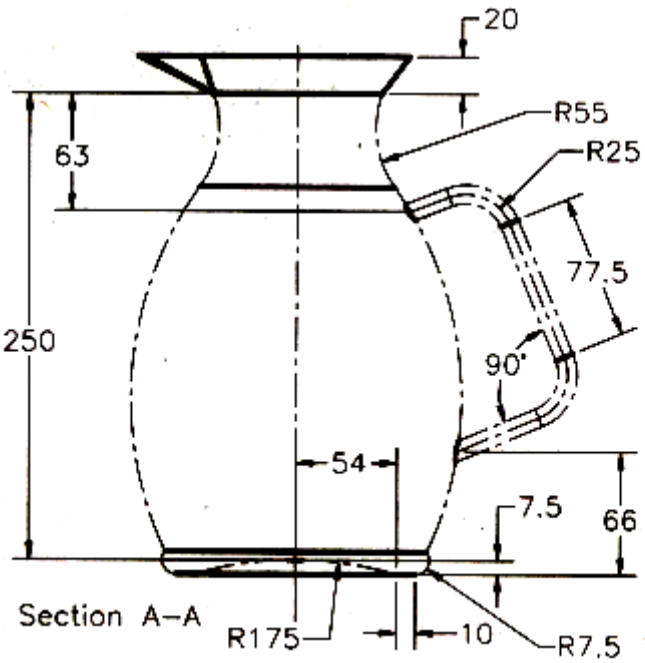
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SURFACING	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

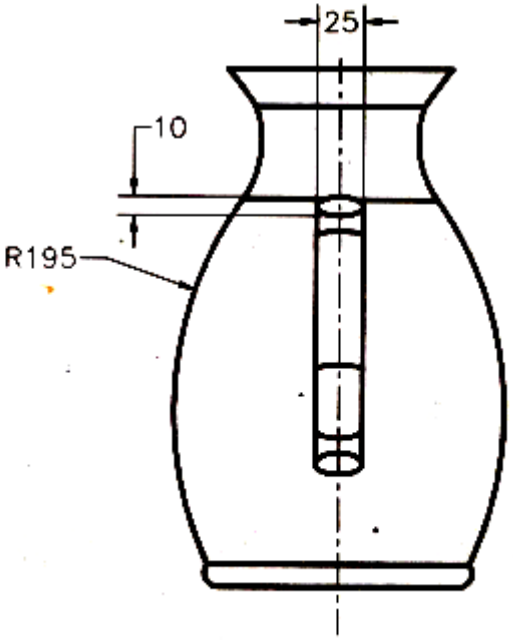
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX: 3







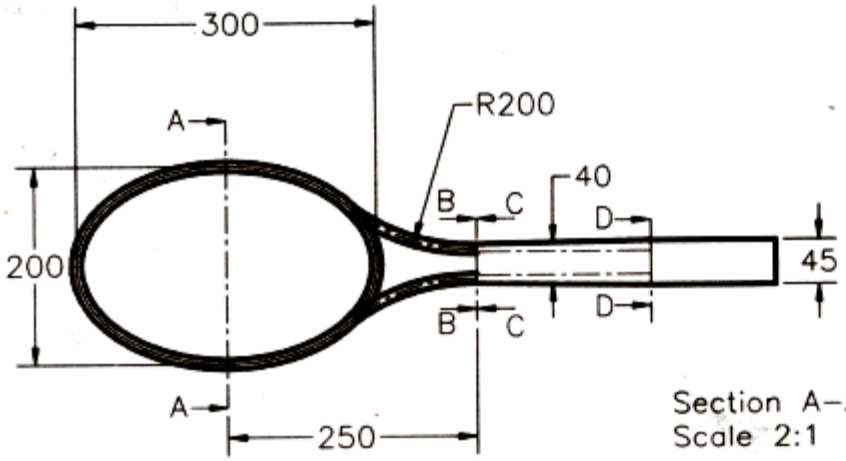


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SURFACING	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

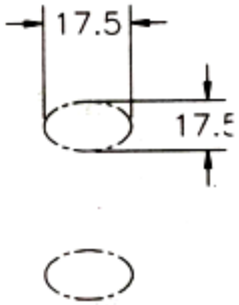
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX: 4



Section A–A
Scale 2:1

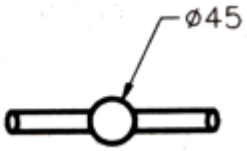


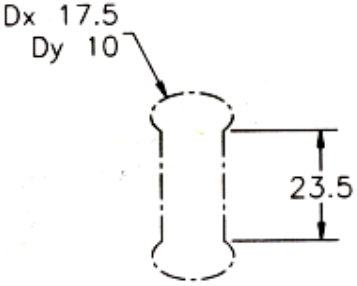


Section C–C
Scale 5:1

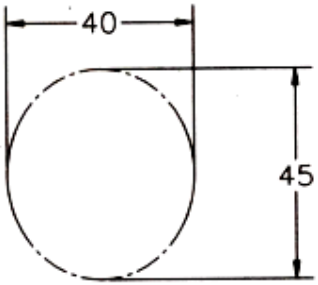




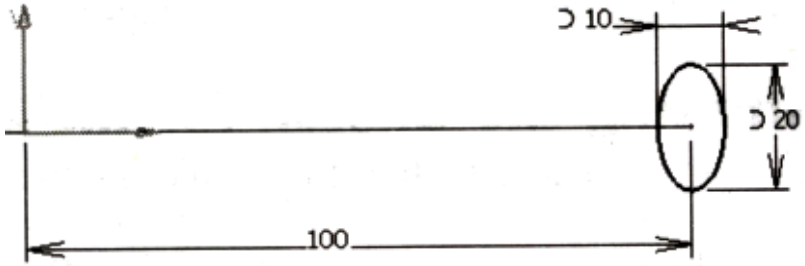




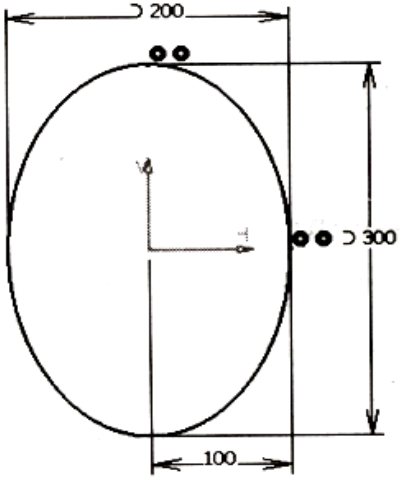
Section B–B
Scale 5:1



Section D–D
Scale 5:1



The sweep profile



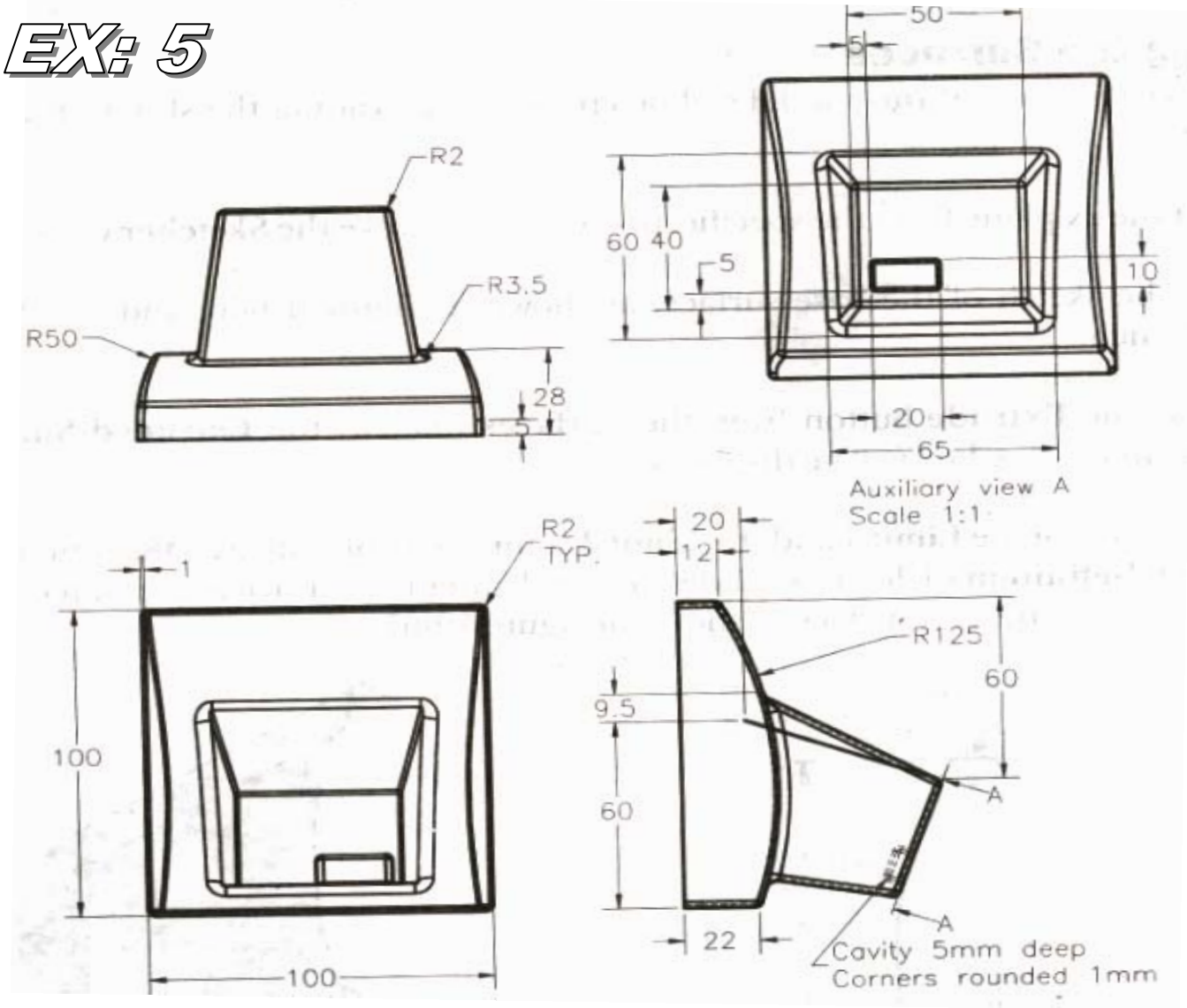
The guide curve

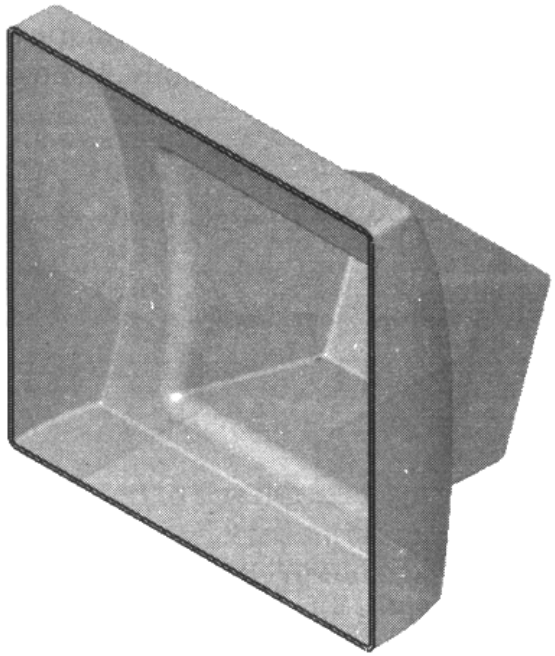
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SURFACING	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EX: 5





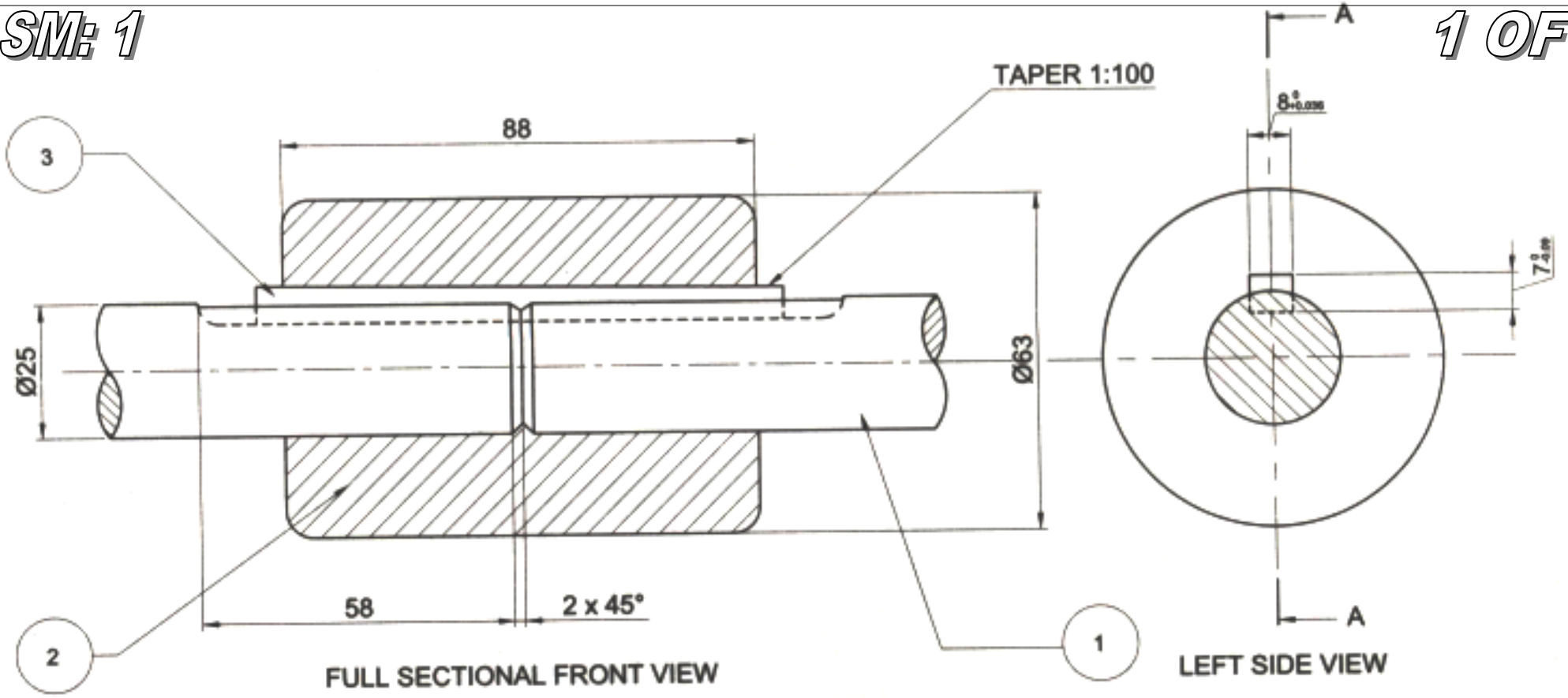
Back cover of the toy monitor

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SURFACING	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

ASSEMBLY DESIGN



FILLET RADIUS R3 WHEREVER NOT SPECIFIED

ALL DIMENSIONS IN mm

ITEM NO	DESCRIPTION	MATERIAL	NO OFF
3	TAPER KEY	Fe-410 W	1
2	MUFF	C I	1
1	SHAFT	Fe-410 W	2

Parts details of solid muff coupling

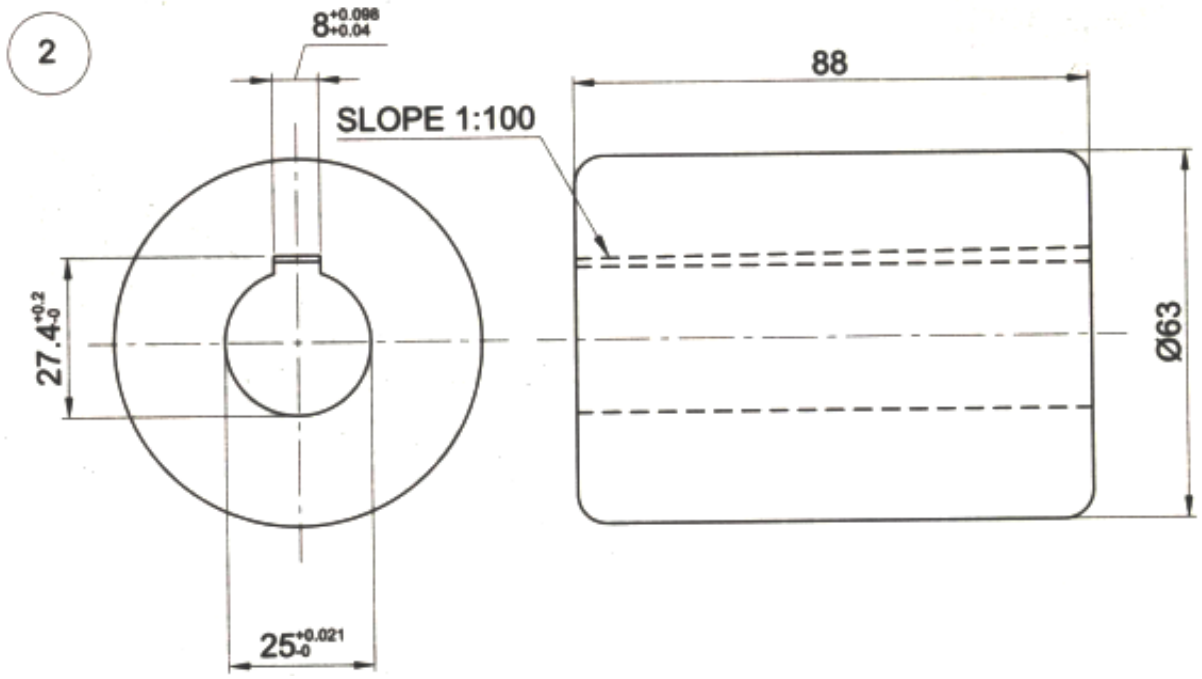
Solid muff coupling

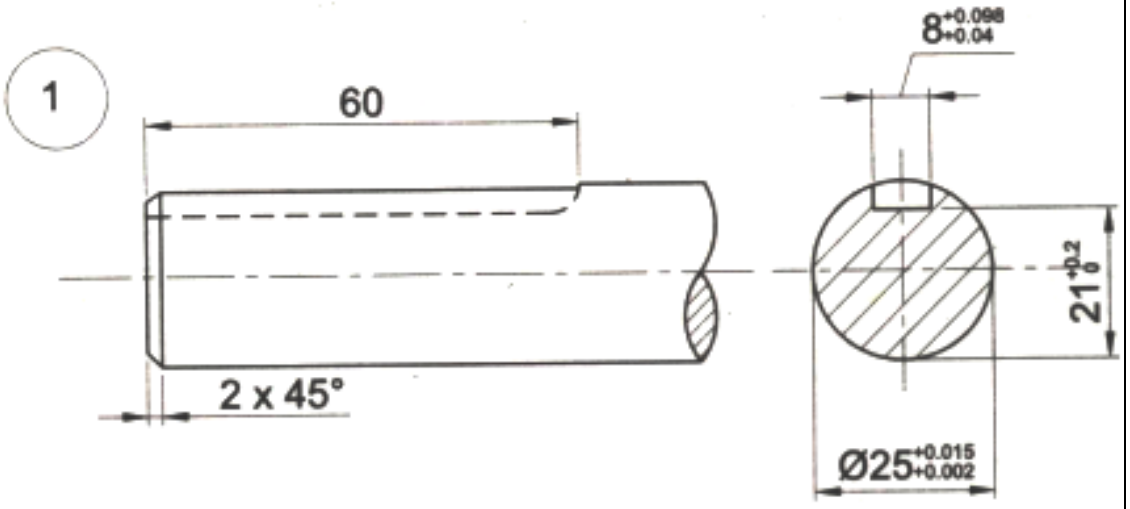
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

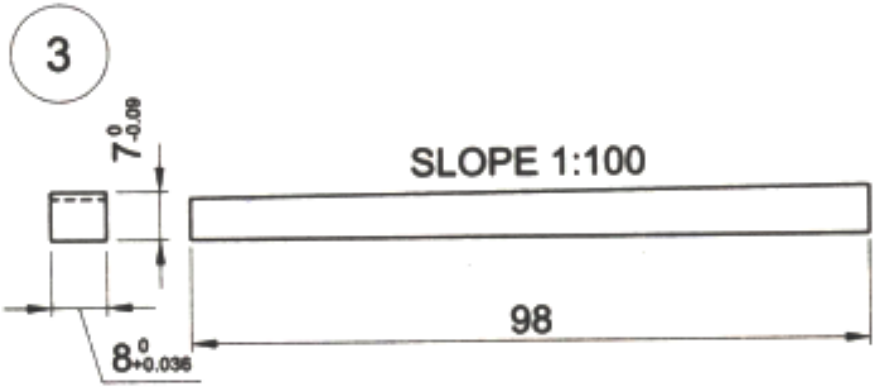
MSME TOOL ROOM AURANGABAD

INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.







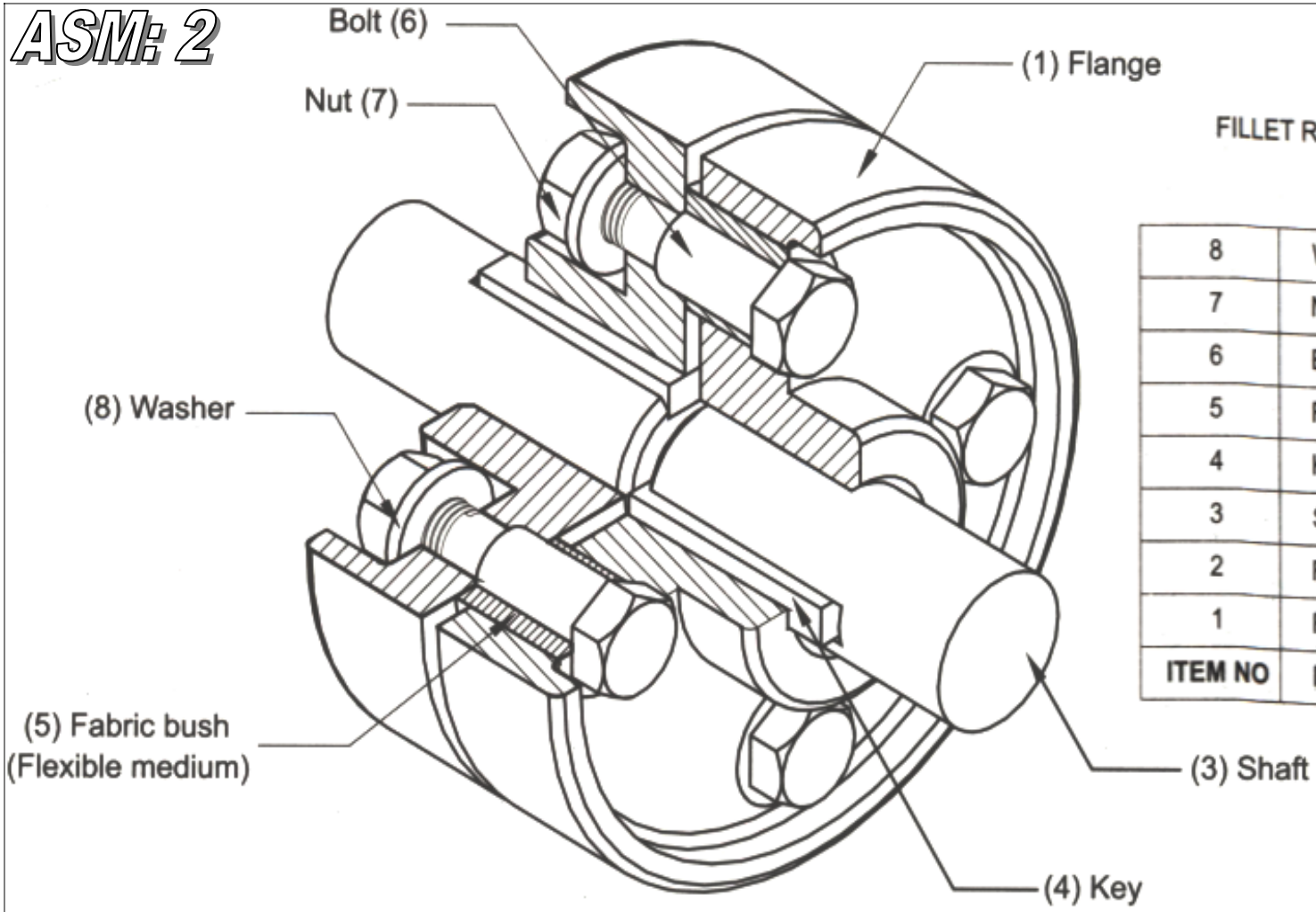
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

ASM: 2

1 OF 2



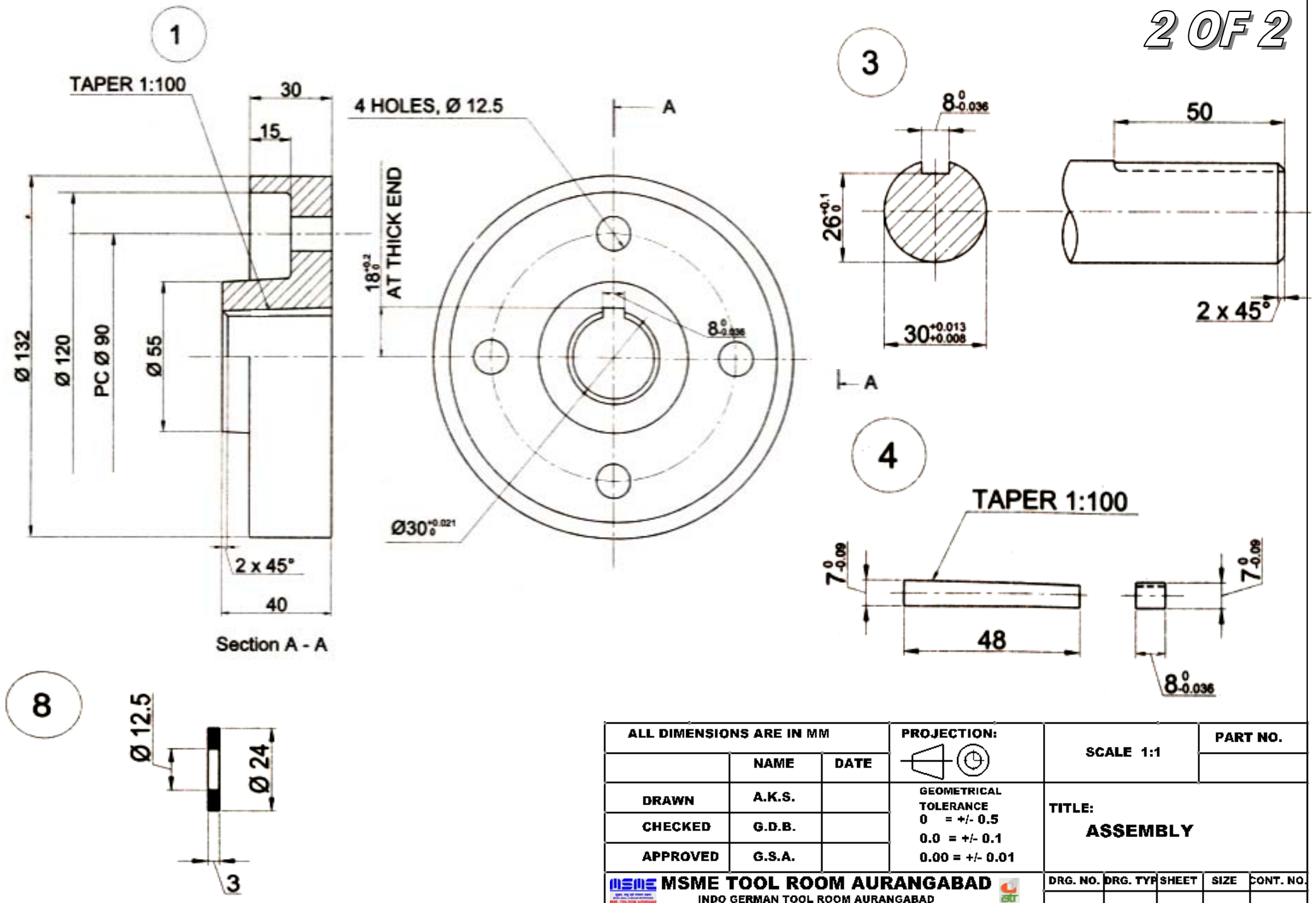
FILLET RADIUS R3 WHEREVER NOT SPECIFIED

ALL DIMENSIONS IN mm

ITEM NO	DESCRIPTION	MATERIAL	NO OFF
8	WASHER	FE 410 W	4
7	NUT	FE 410 W	4
6	BOLT	FE 410 W	4
5	FABRIC BUSH	FABRIC	4
4	KEY	FE 410 W	2
3	SHAFT	FE 410 W	2
2	FLANGE (driven)	CI	1
1	FLANGE(driver)	CI	1

Bush type ßexible coupling

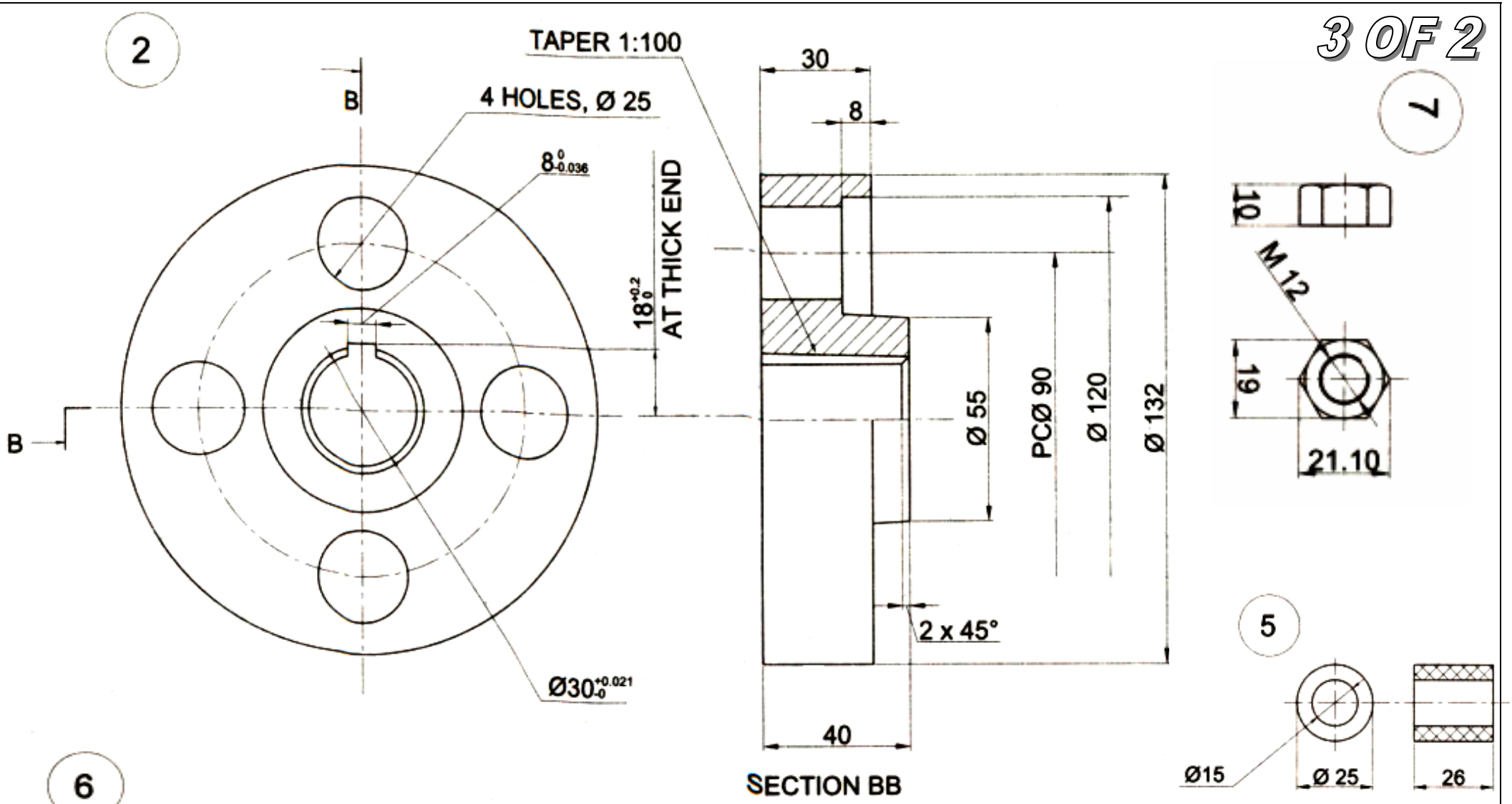
Parts details of bush type flexible coupling



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

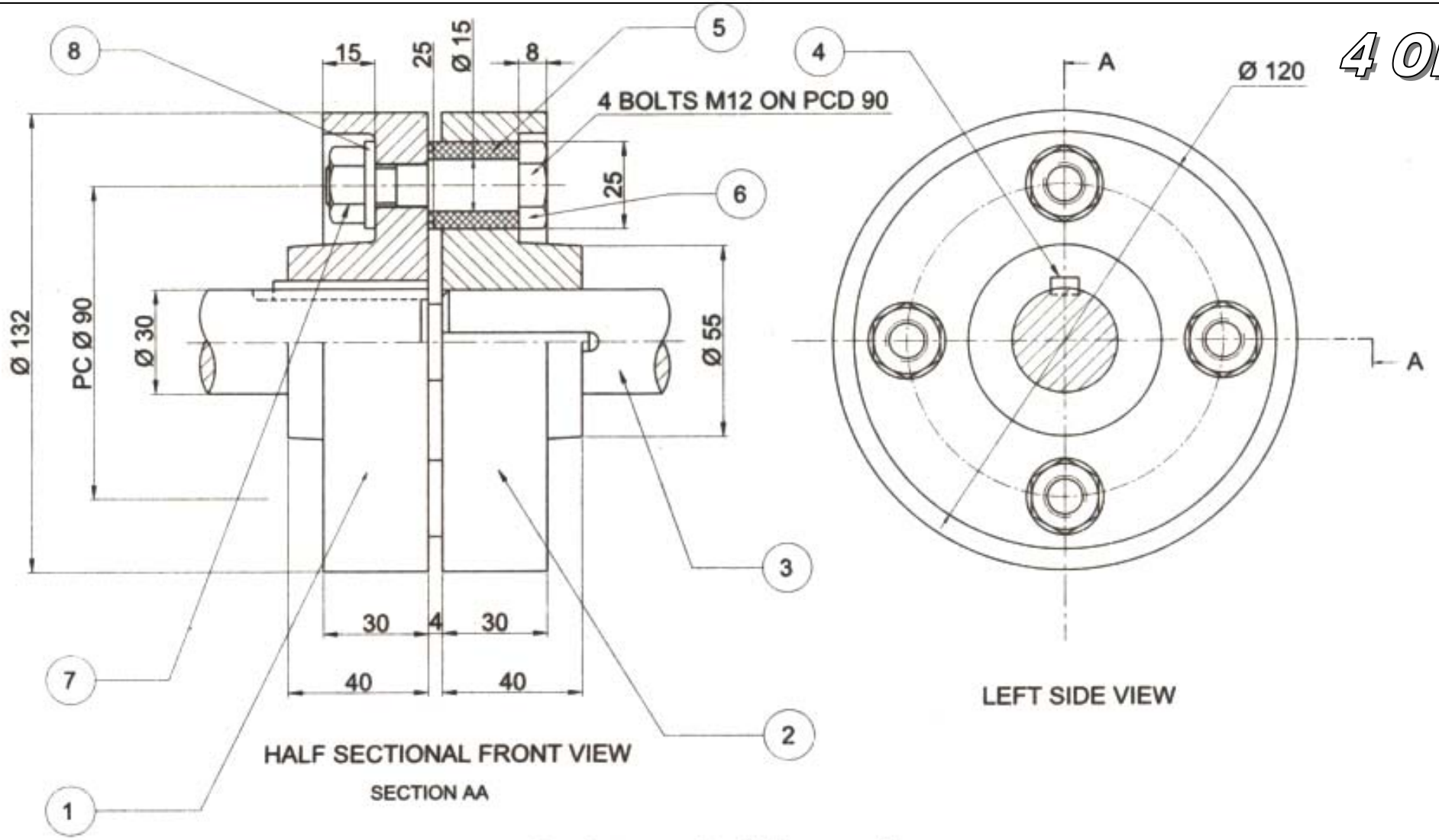
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

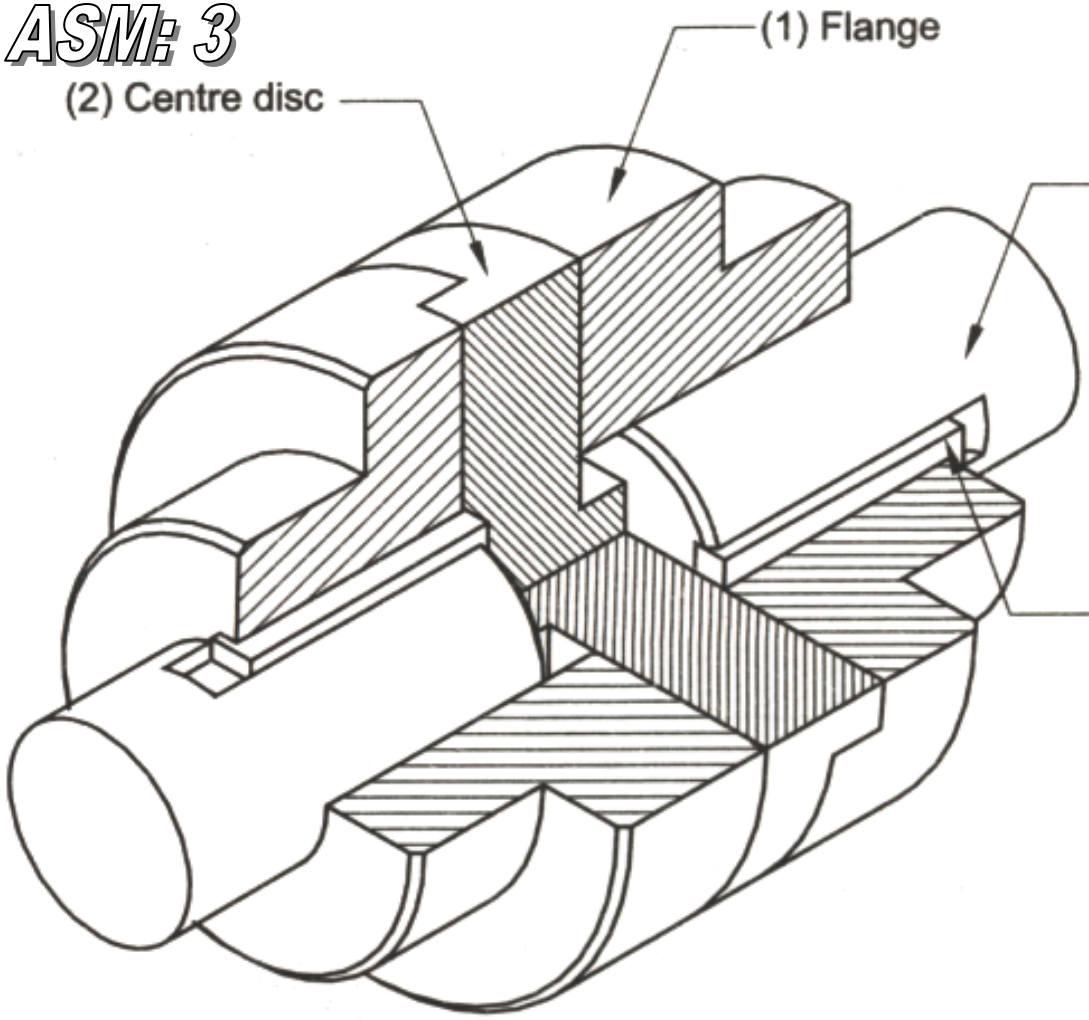


Bush type flexible coupling

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



Oldhalms coupling

FILLET RADIUS 3 WHEREVER NOT SPECIFIED

ALL DIMENSIONS IN mm

PART NO	DESCRIPTION	MATERIAL	NO OFF
4	TAPER KEY	Fe 410 W	2
3	SHAFT	Fe 410 W	2
2	CENTRE DISC	STEEL	1
1	FLANGE	STEEL	2

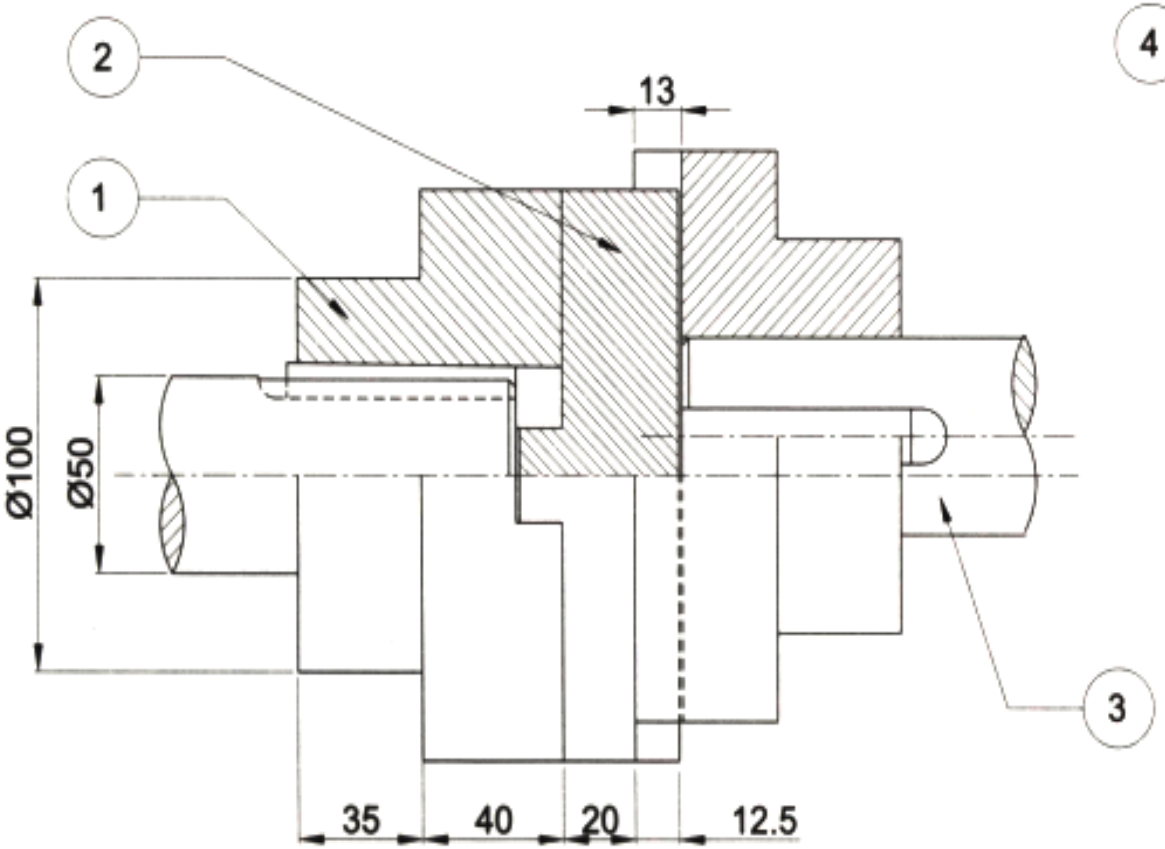
Parts details of oldhams coupling

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD

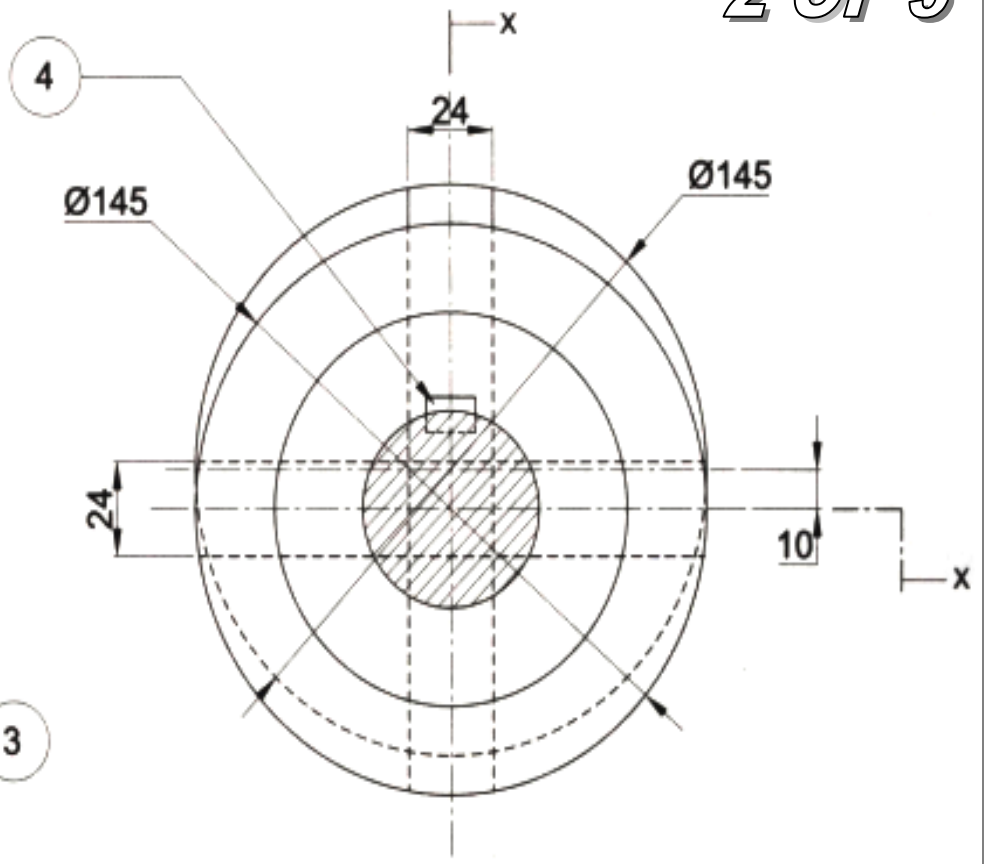
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



HALF SECTIONAL FRONT VIEW

SECTION XX



LEFT SIDE VIEW

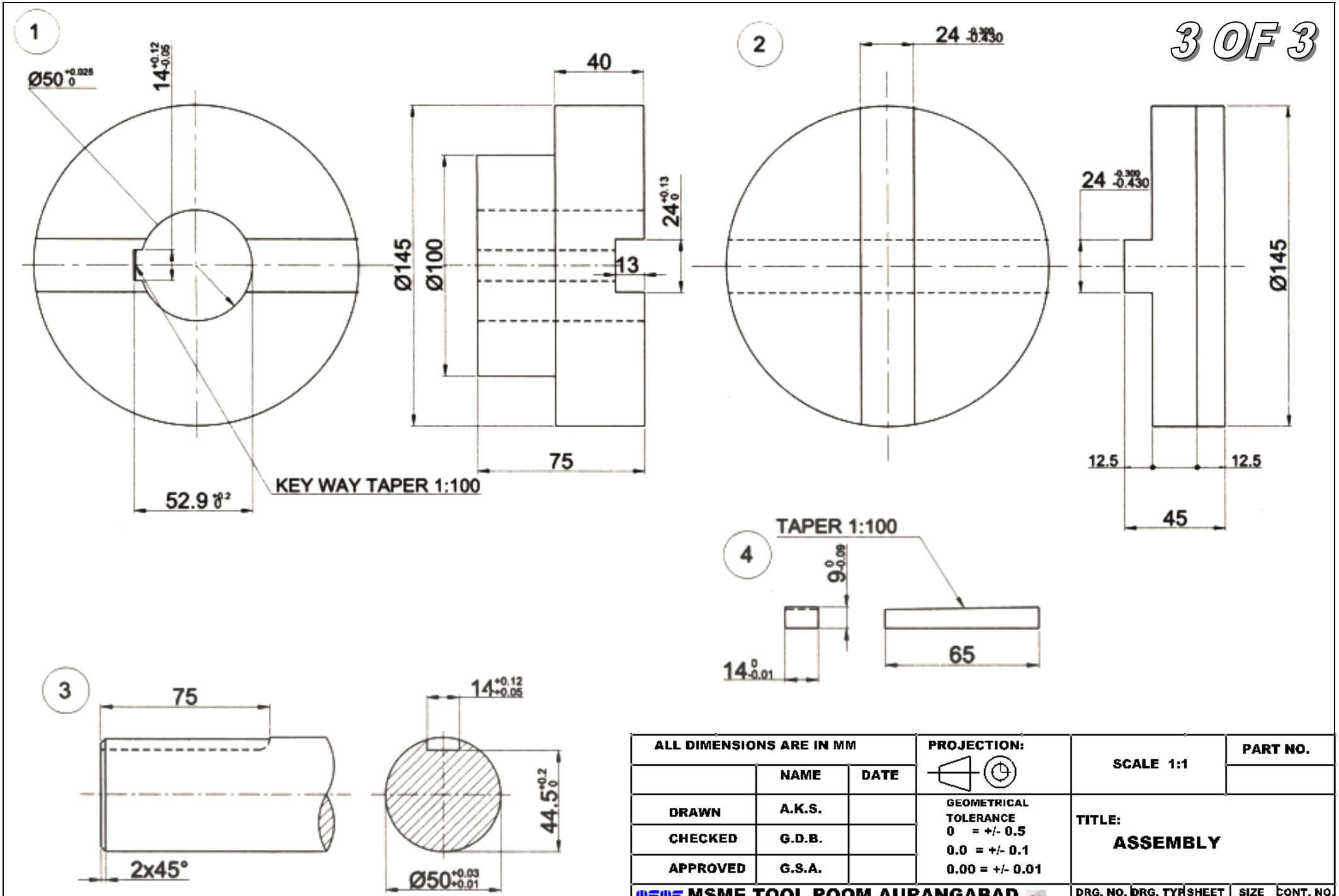
Oldhams coupling

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD

INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

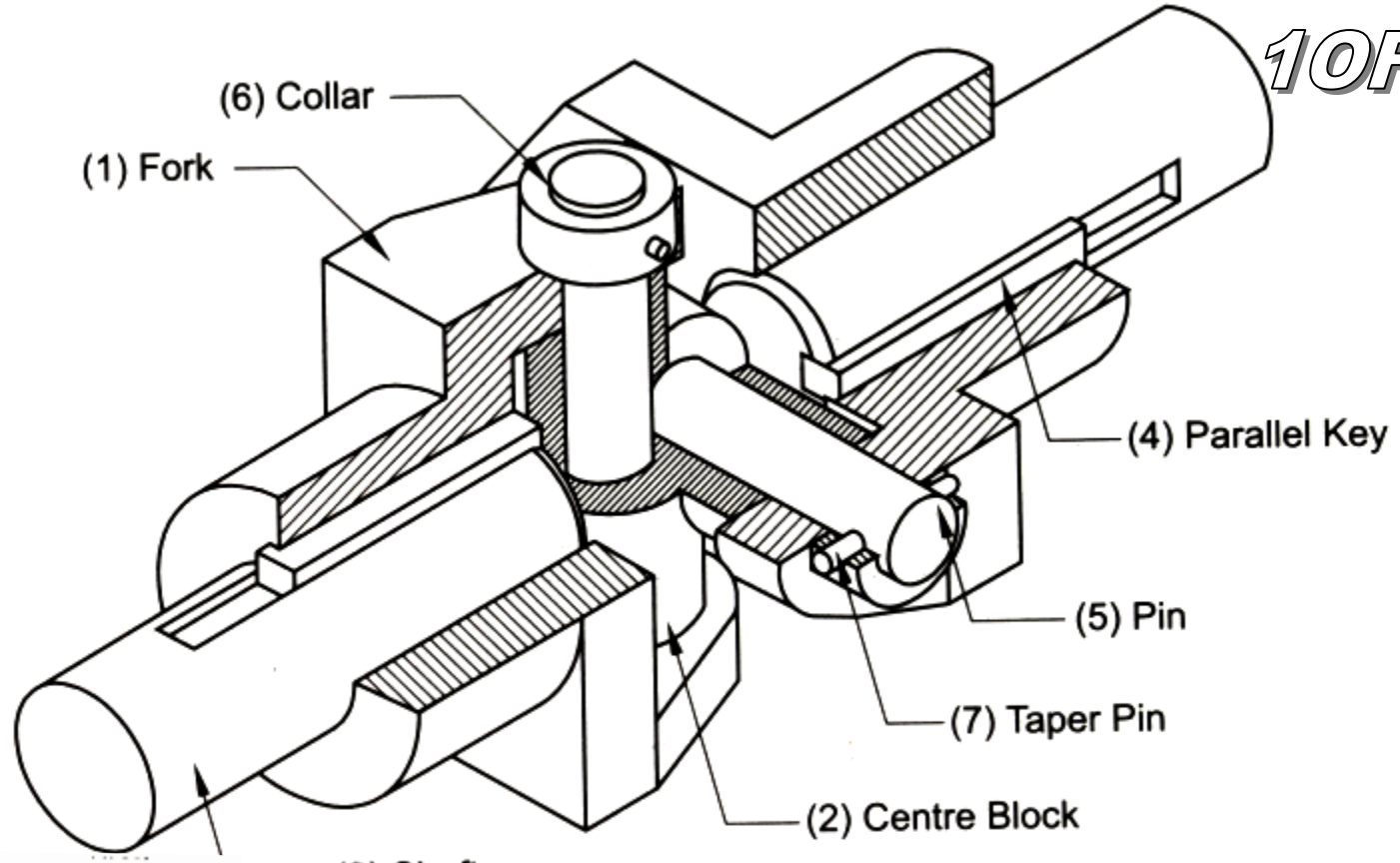


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

ASM: 4



Universal coupling

FILLET RADIUS R3 FOR WHEREEVER NOT SPECIFIED

ALL DIMENSIONS IN mm

ITEM NO	DESCRIPTION	MATERIAL	NO OFF
7	TAPER PIN	Fe-410 W	2
6	COLLAR	Fe-410 W	2
5	PIN	Fe-410 W	2
4	PARALLEL KEY	Fe-410 W	2
3	SHAFT	Fe-410 W	2
2	CENTRE BLOCK	CI	1
1	FORK	CAST STEEL	2

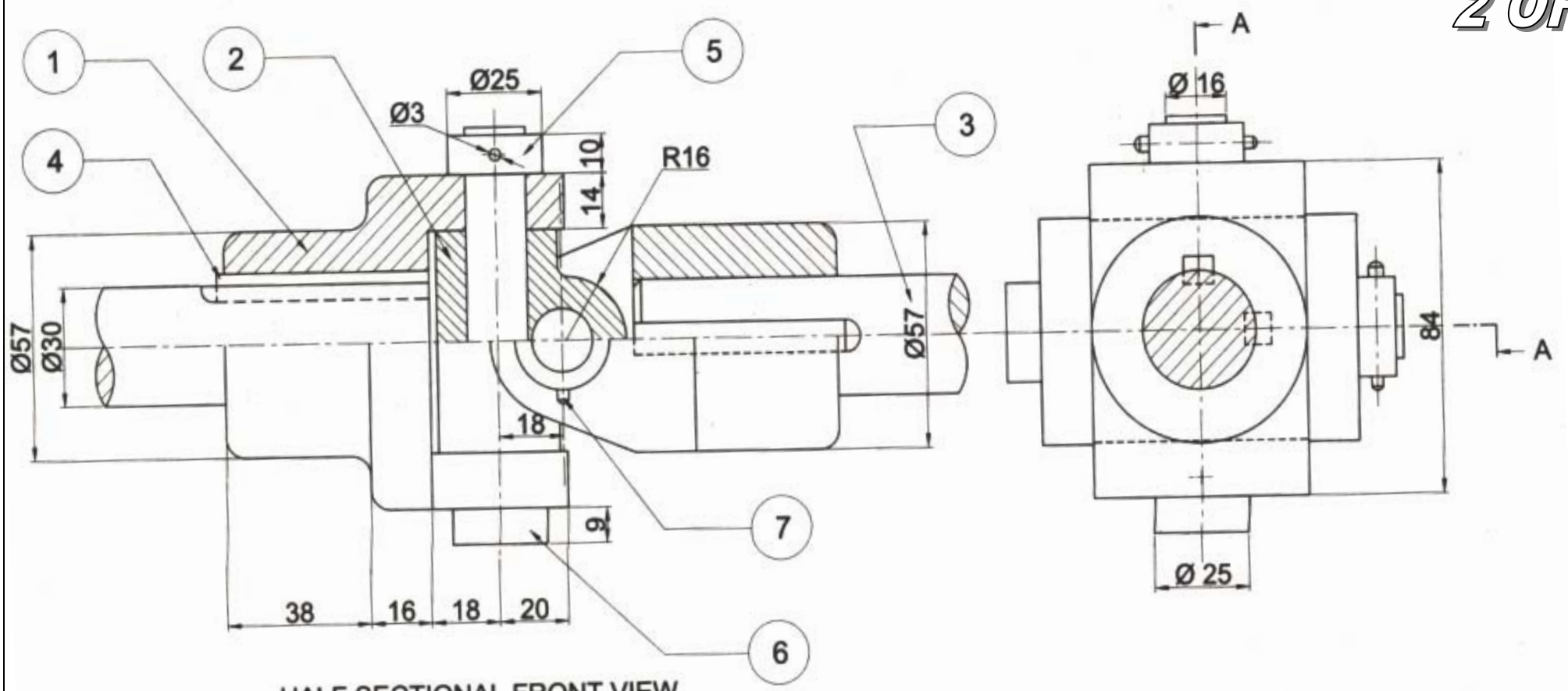
Parts details of universal coupling

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD

INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



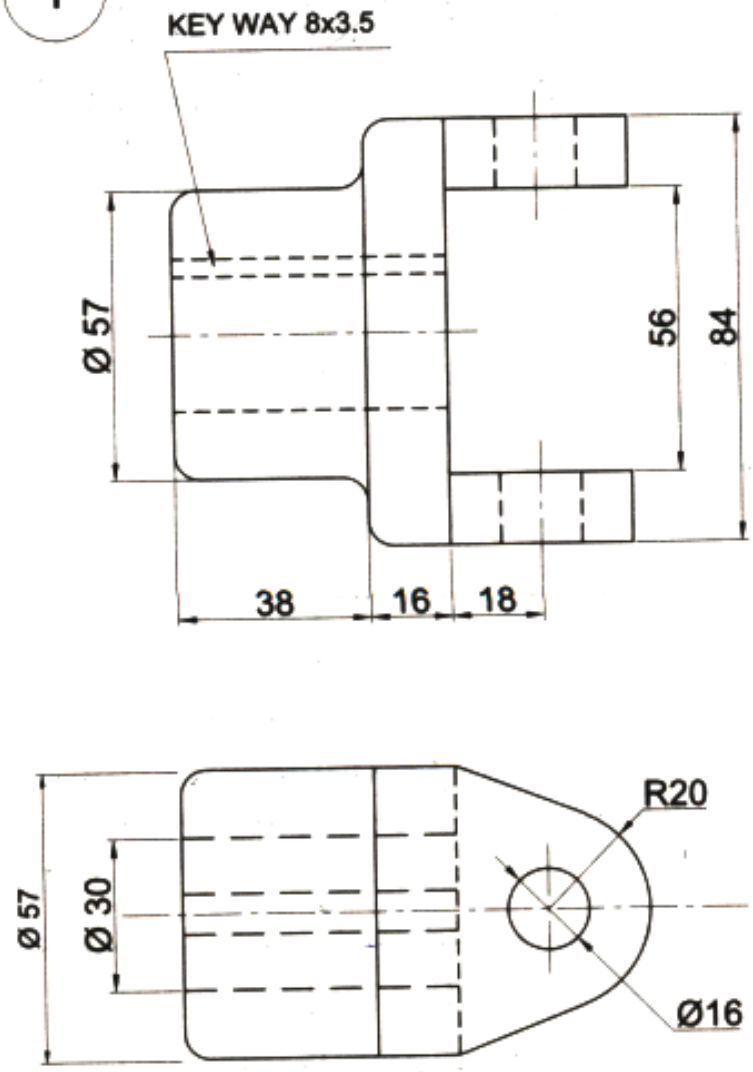
Universal coupling

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

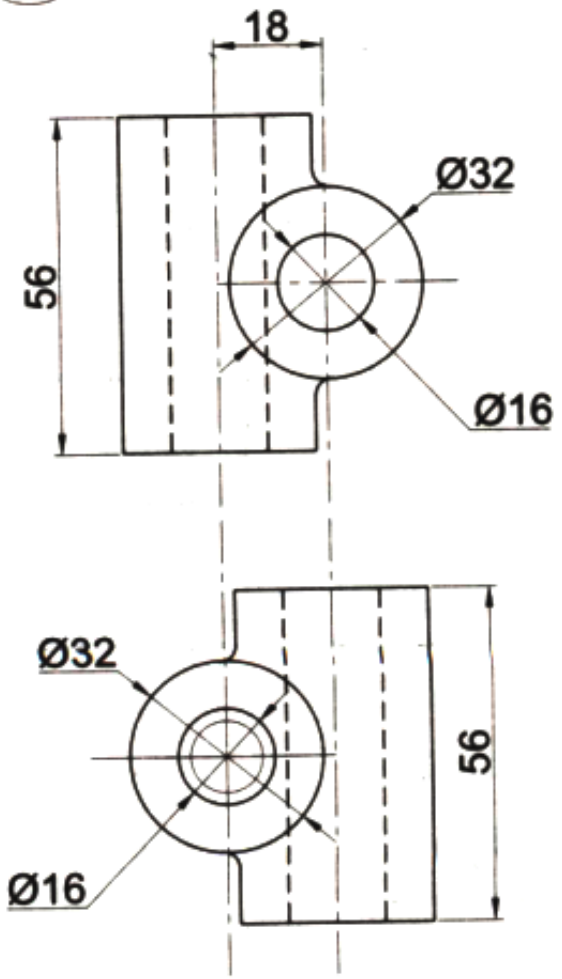
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

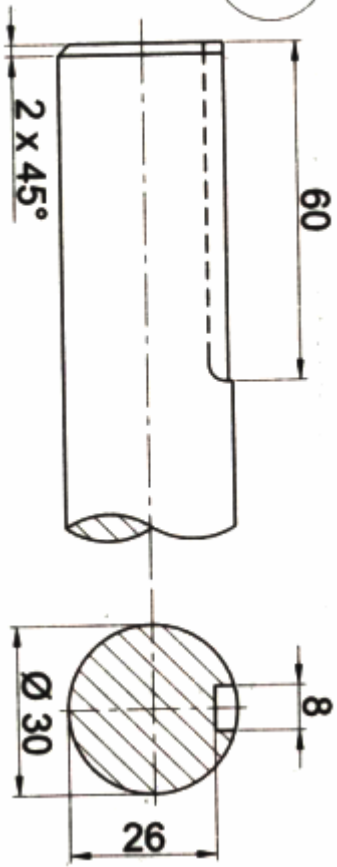
1



2



3



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

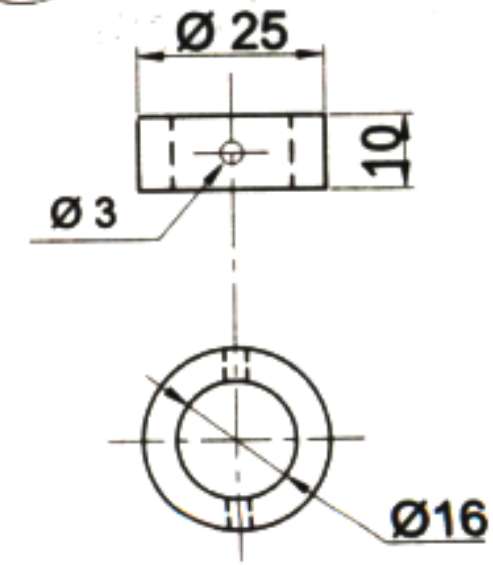
4



5



6



7

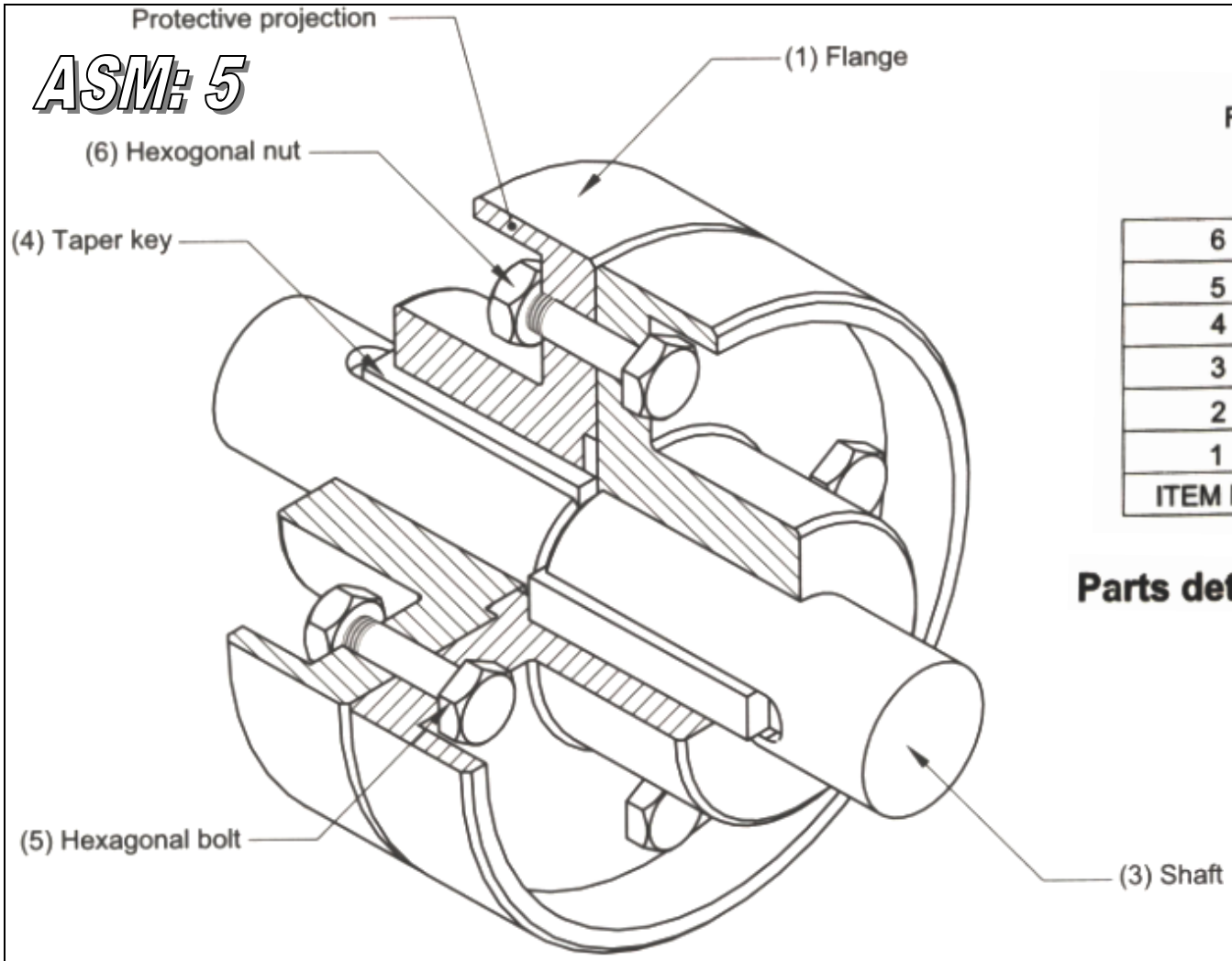


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

ASM: 5



Protected type ßange coupling

FILLET RADIUS R3 WHEREVER NOT SPECIFIED

ALL DIMENSIONS IN mm

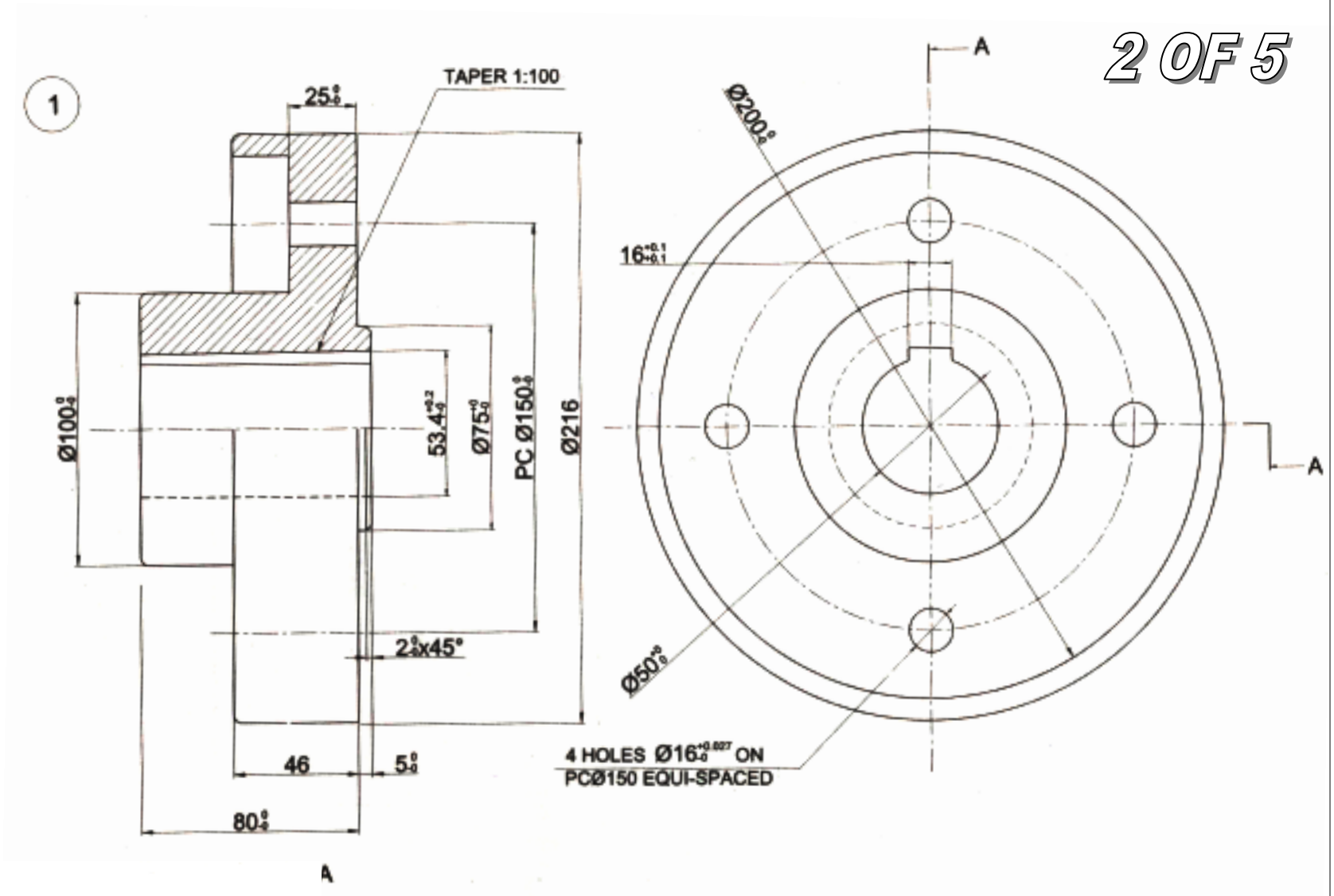
ITEM NO	DESCRIPTION	MATERIAL	NO OFF
6	HEX.NUT	Fe-410 W	4
5	HEX.BOLT	Fe-410 W	4
4	TAPER KEY	Fe-410 W	2
3	SHAFT	Fe-410 W	2
2	FLANGE	CI	1
1	FLANGE	CI	1

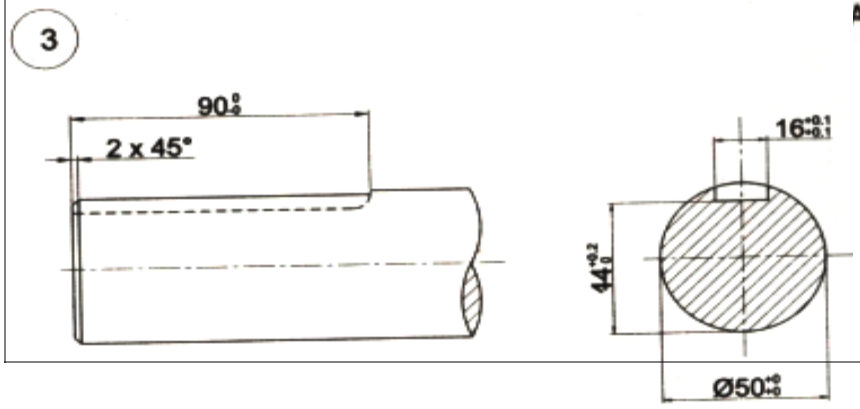
Parts details of flange coupling (protected type)

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

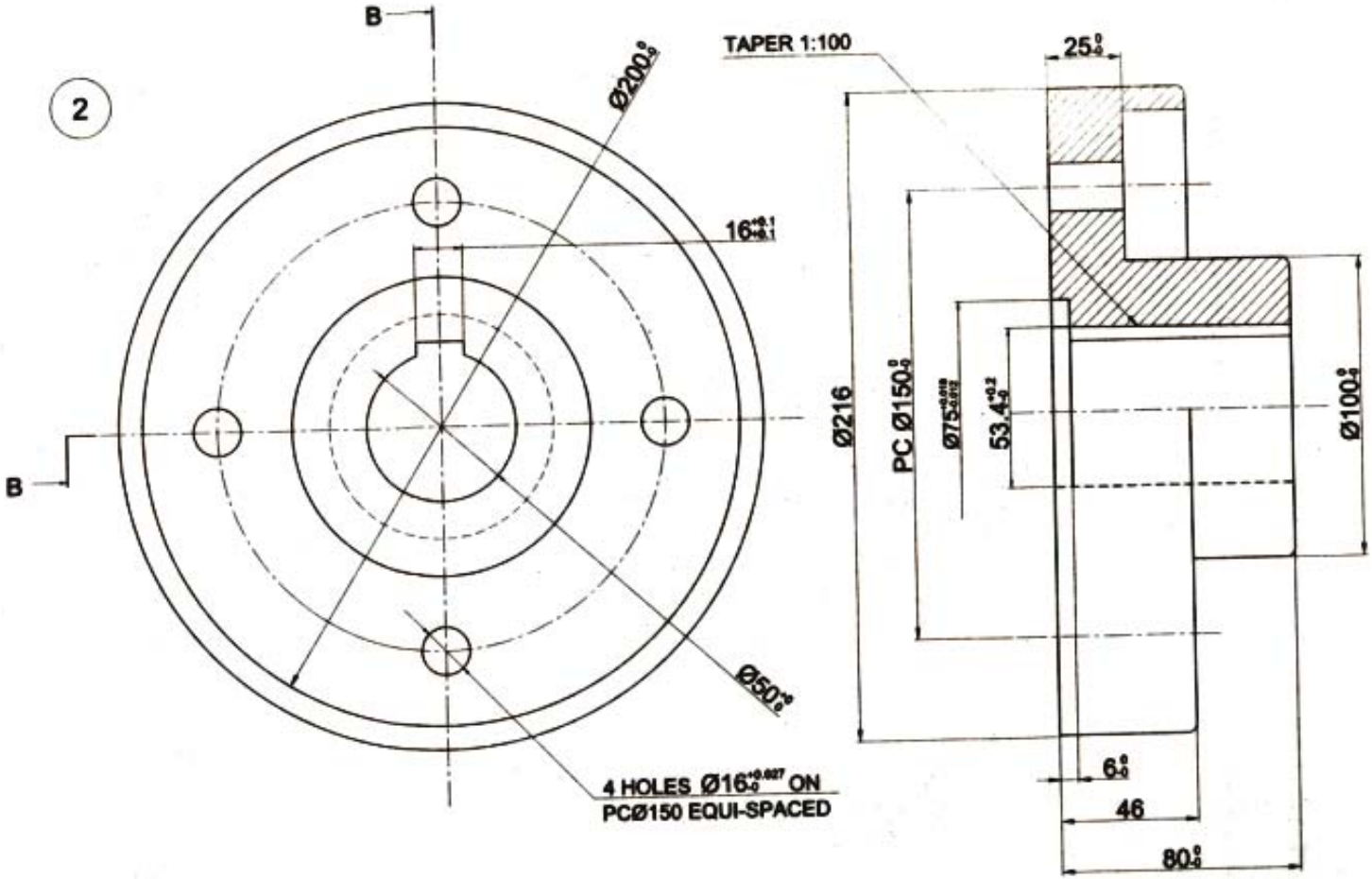


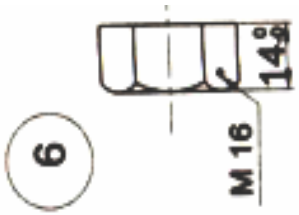


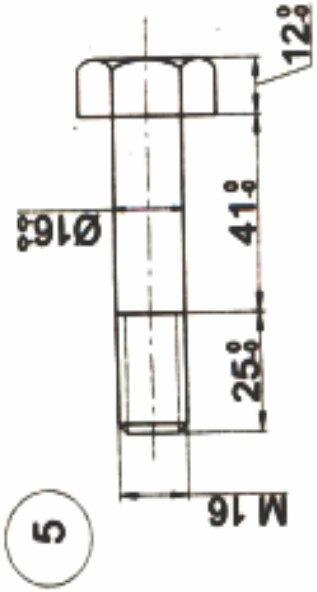
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

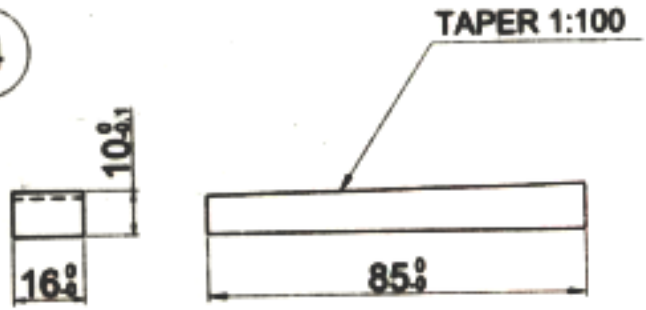
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.





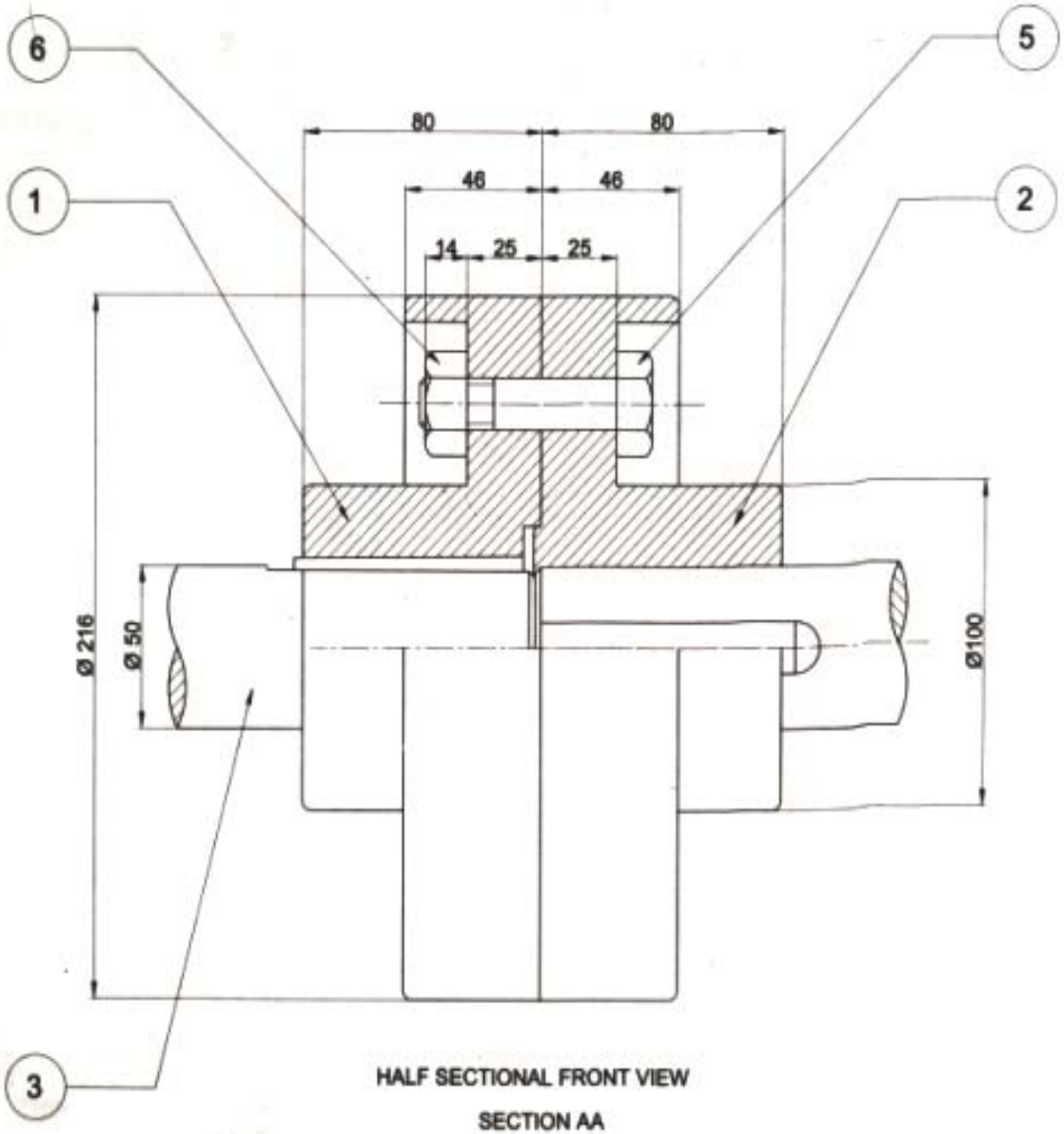




ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

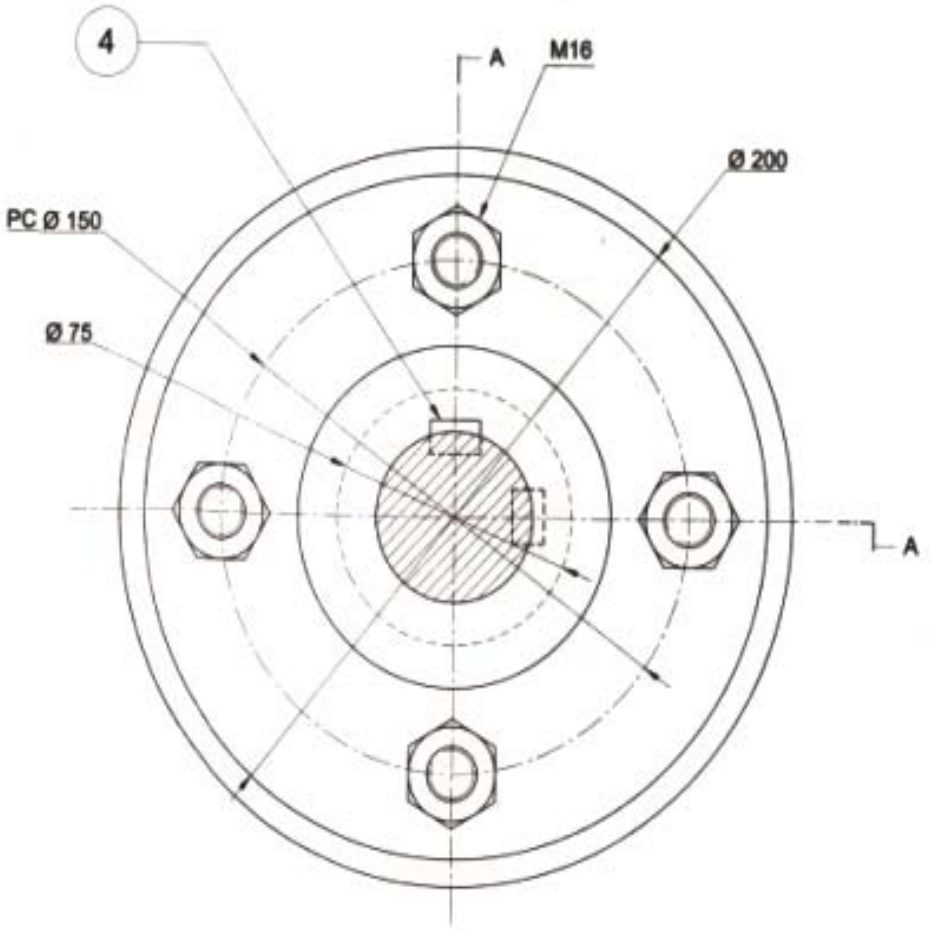
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



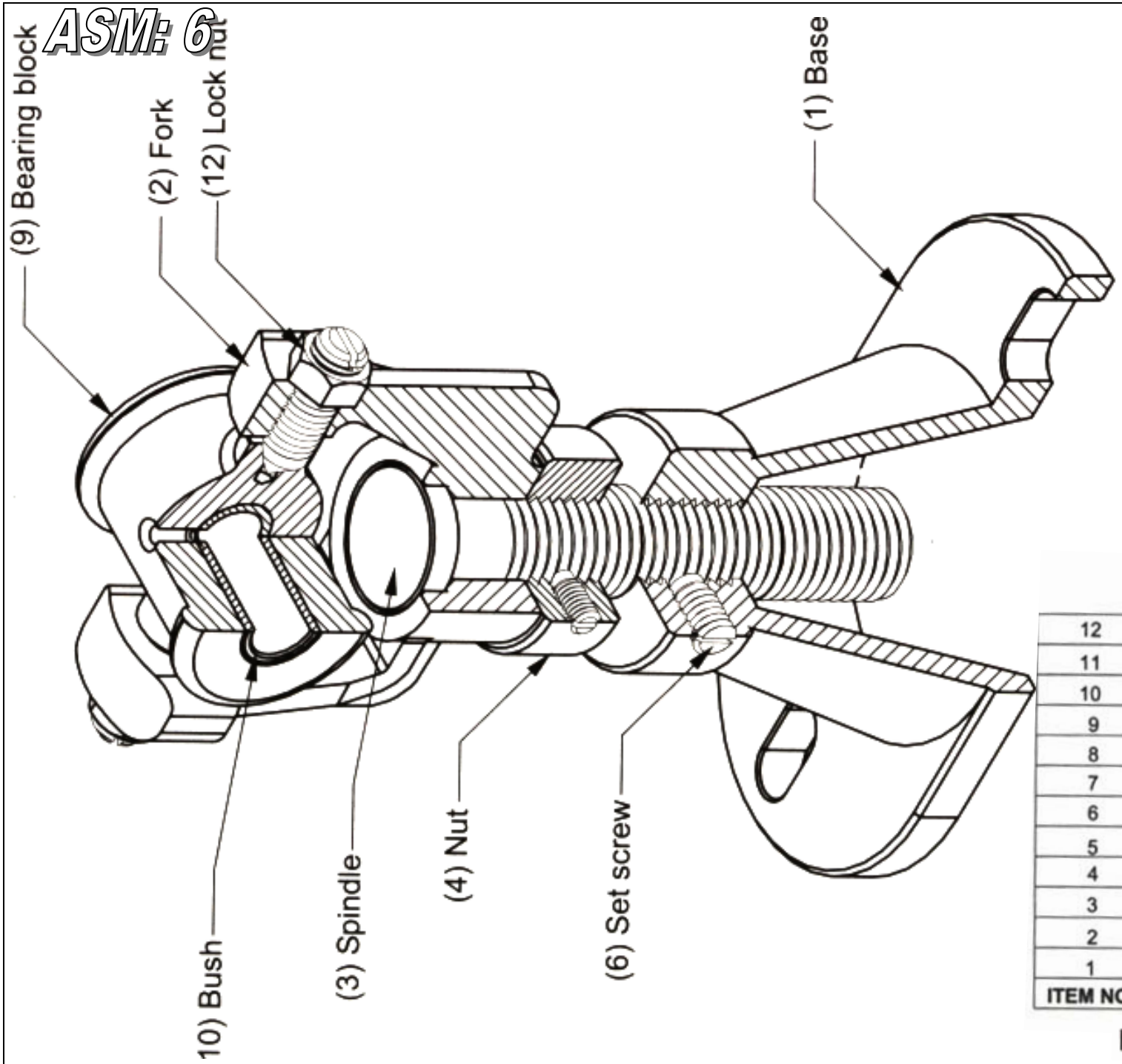
HALF SECTIONAL FRONT VIEW

SECTION AA



LEFT SIDE VIEW

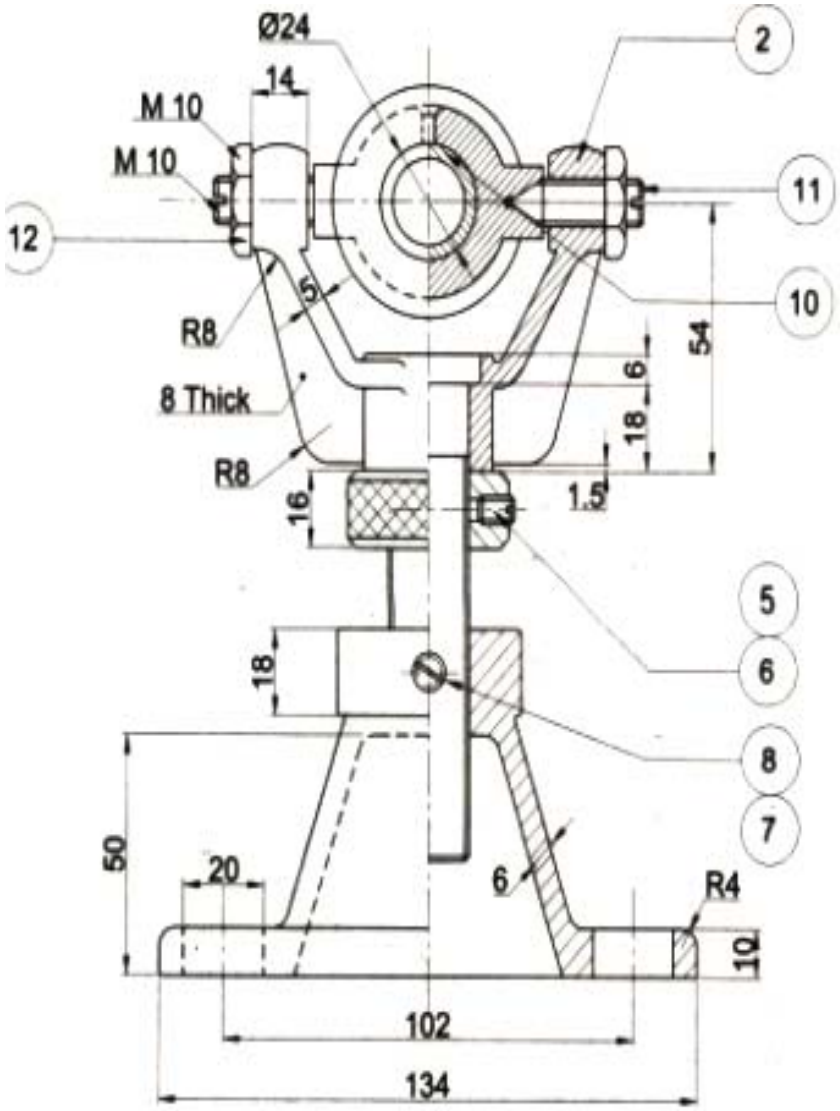
Flanged coupling (protected type)



ALL DIMENSIONS IN mm

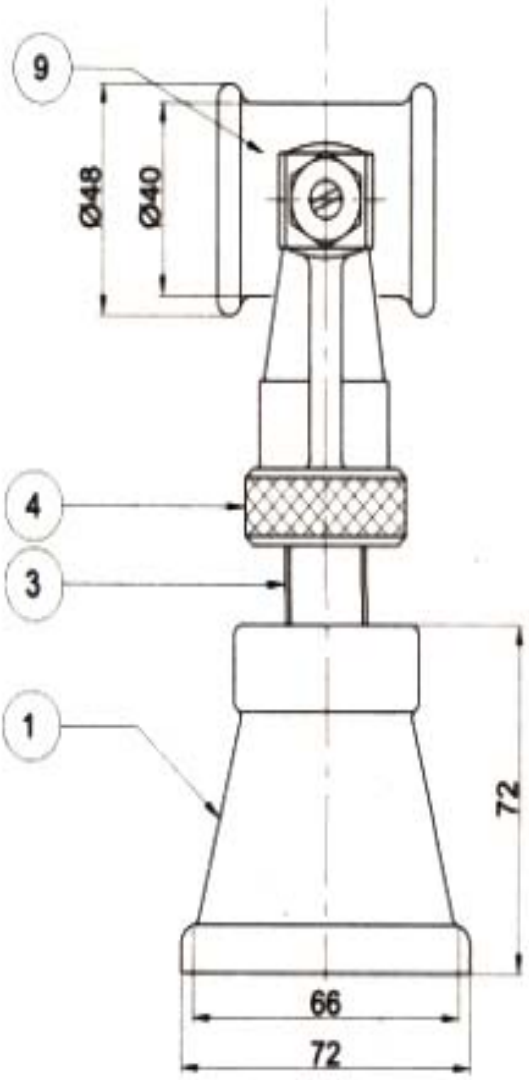
ITEM NO	DESCRIPTION	MATERIAL	NO OFF
12	LOCK NUT	Fe 410 W	2
11	SET SCREW	Fe 410 W	2
10	BUSH	BRASS	1
9	BEARING BLOCK	CAST IRON	1
8	SET SCREW	Fe 410 W	1
7	DISC	BRASS	1
6	SET SCREW	Fe 410 W	1
5	DISC	BRASS	1
4	KNURLED NUT	Fe 410 W	1
3	SPINDLE	Fe 410 W	1
2	FORK	CAST IRON	1
1	BASE	CAST IRON	1

Parts details of swivel bearing

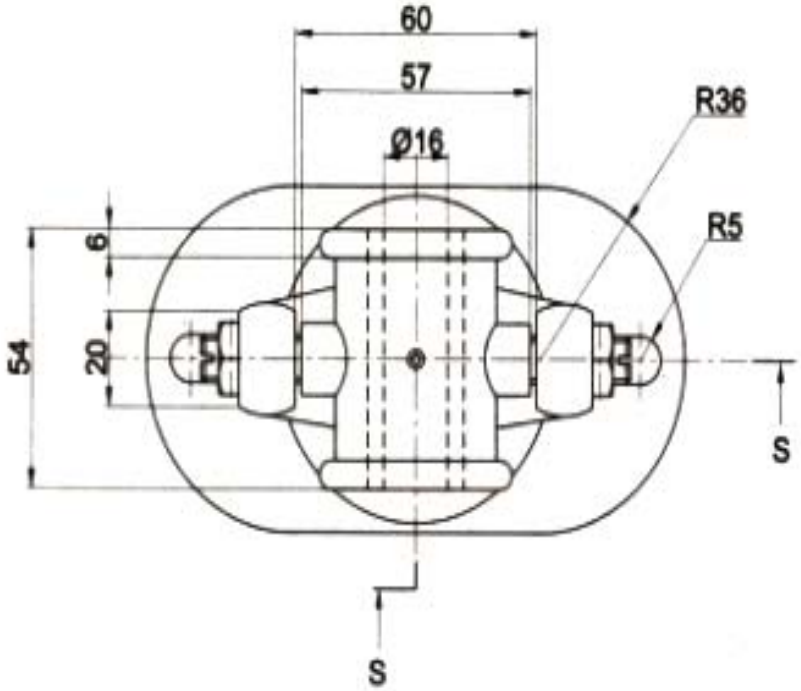


HALF SECTIONAL FRONT VIEW

SECTION SS

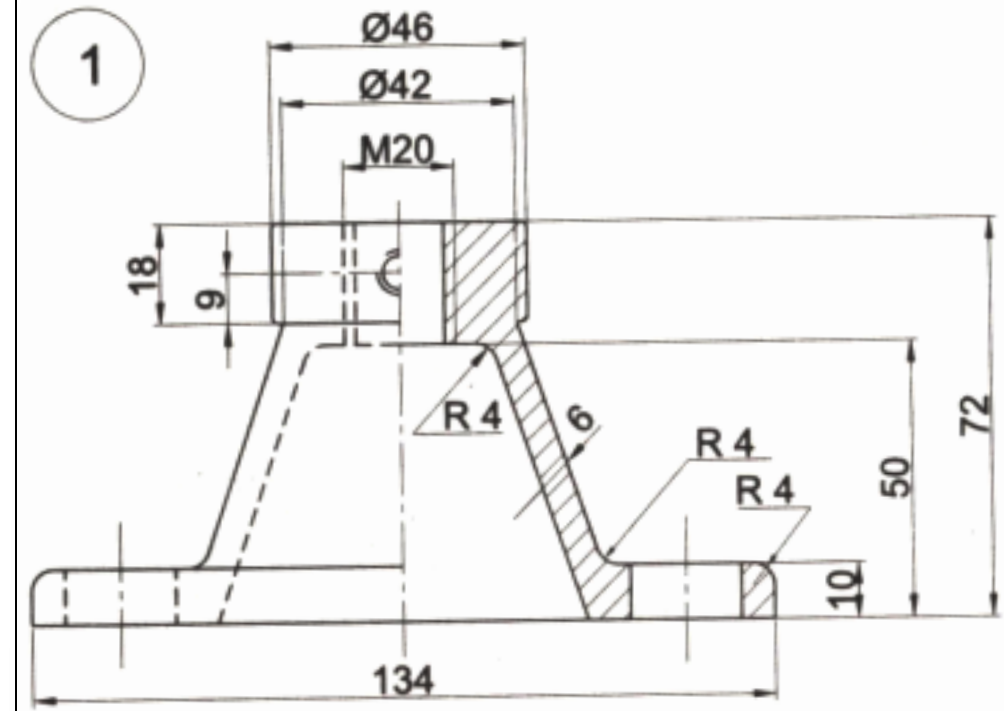


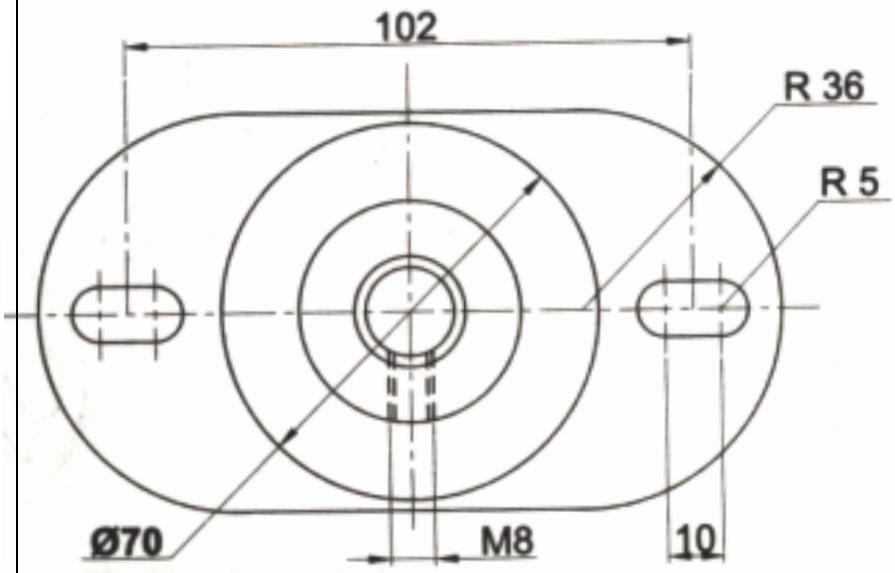
LEFT SIDE VIEW

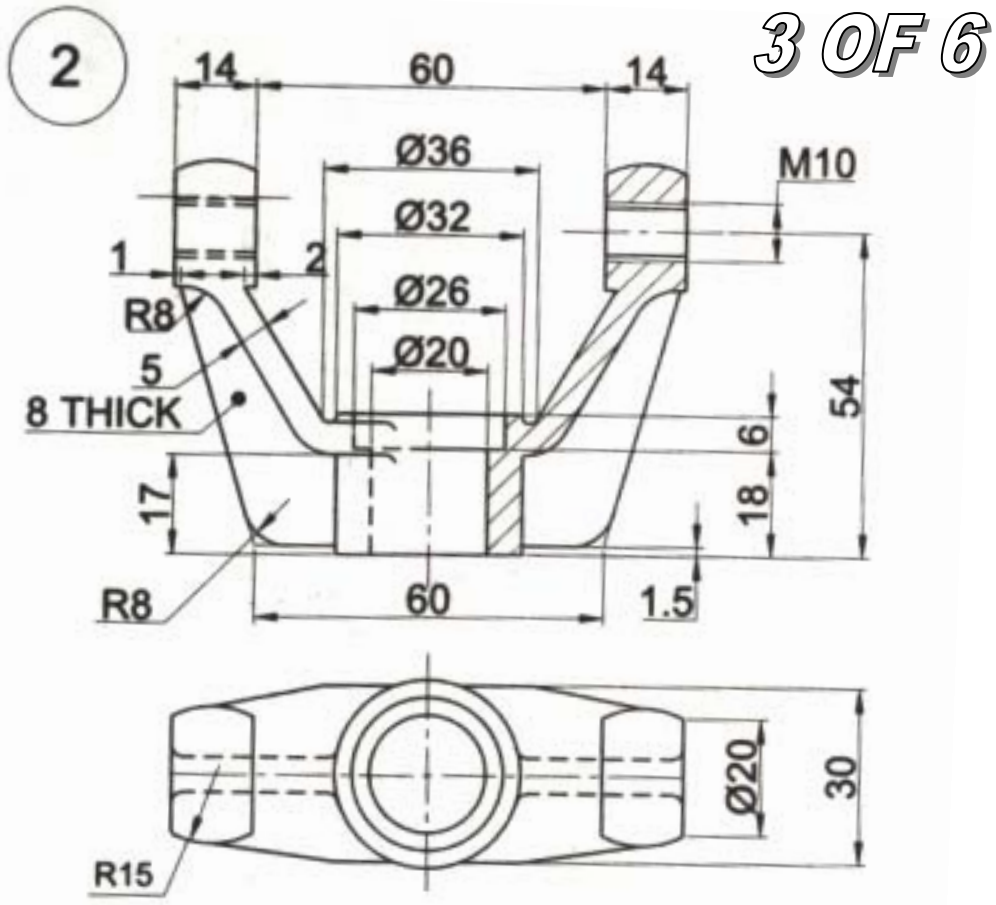


TOP VIEW

Swivel bearing



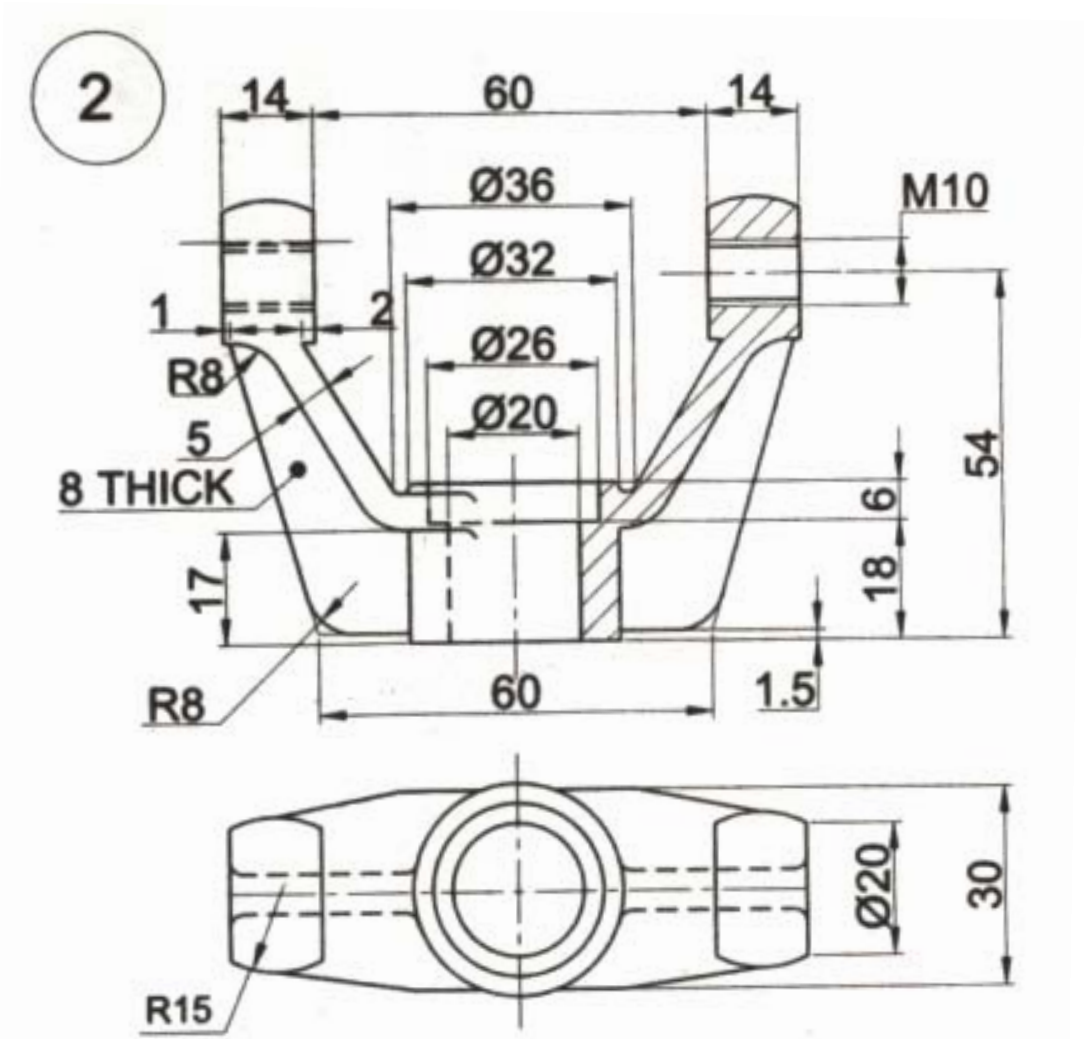


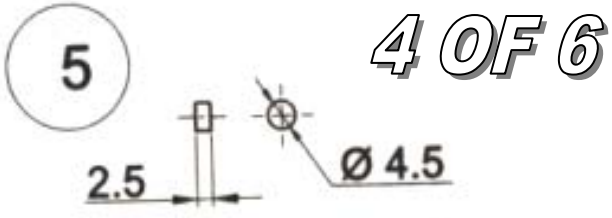


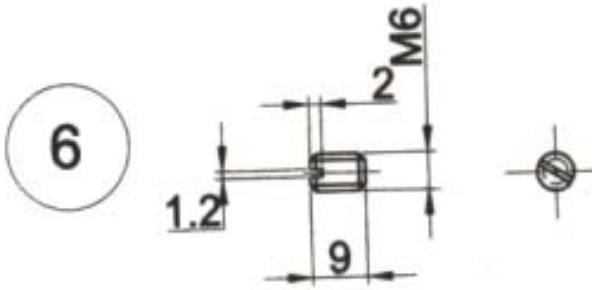
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

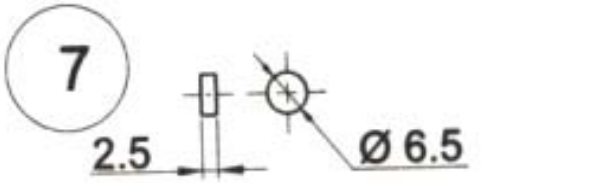
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

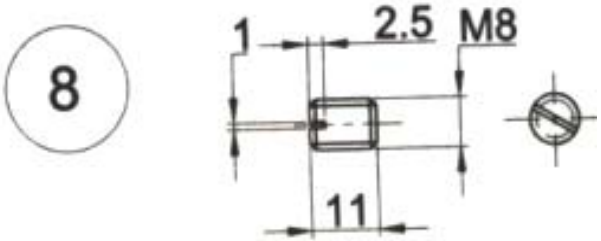
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

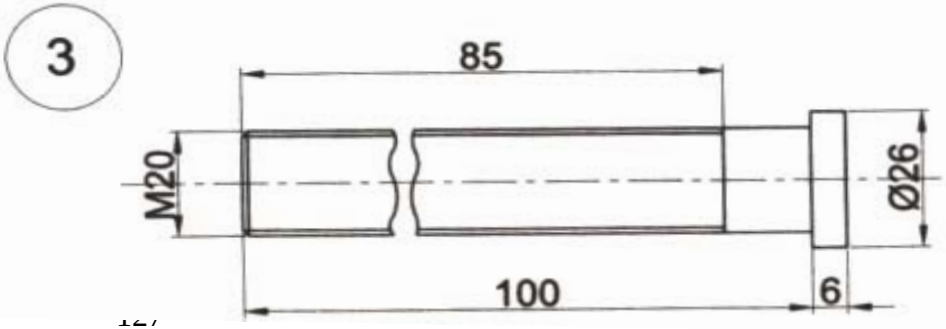










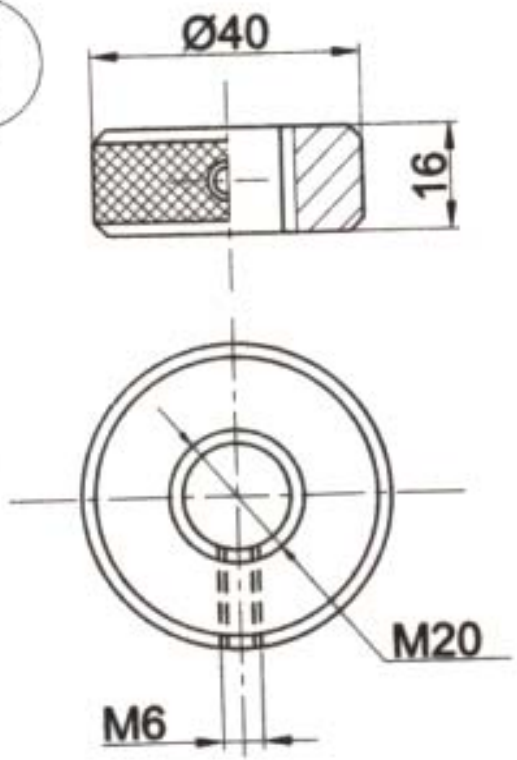


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

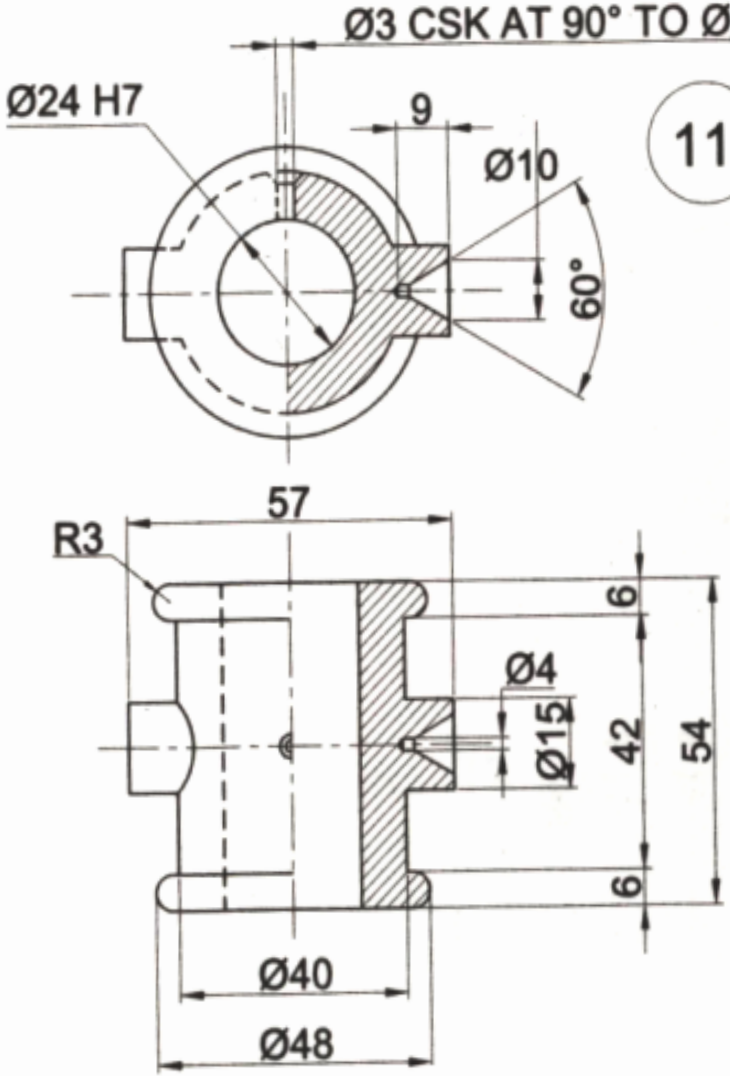
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

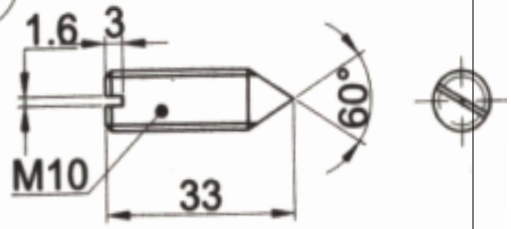
4



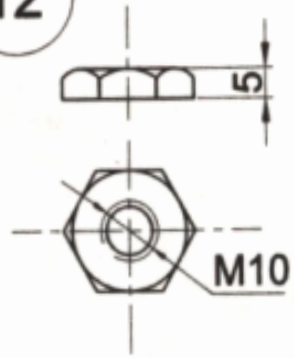
9



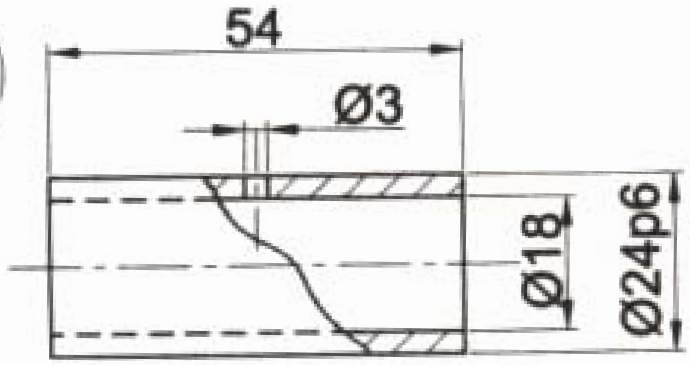
11



12



10

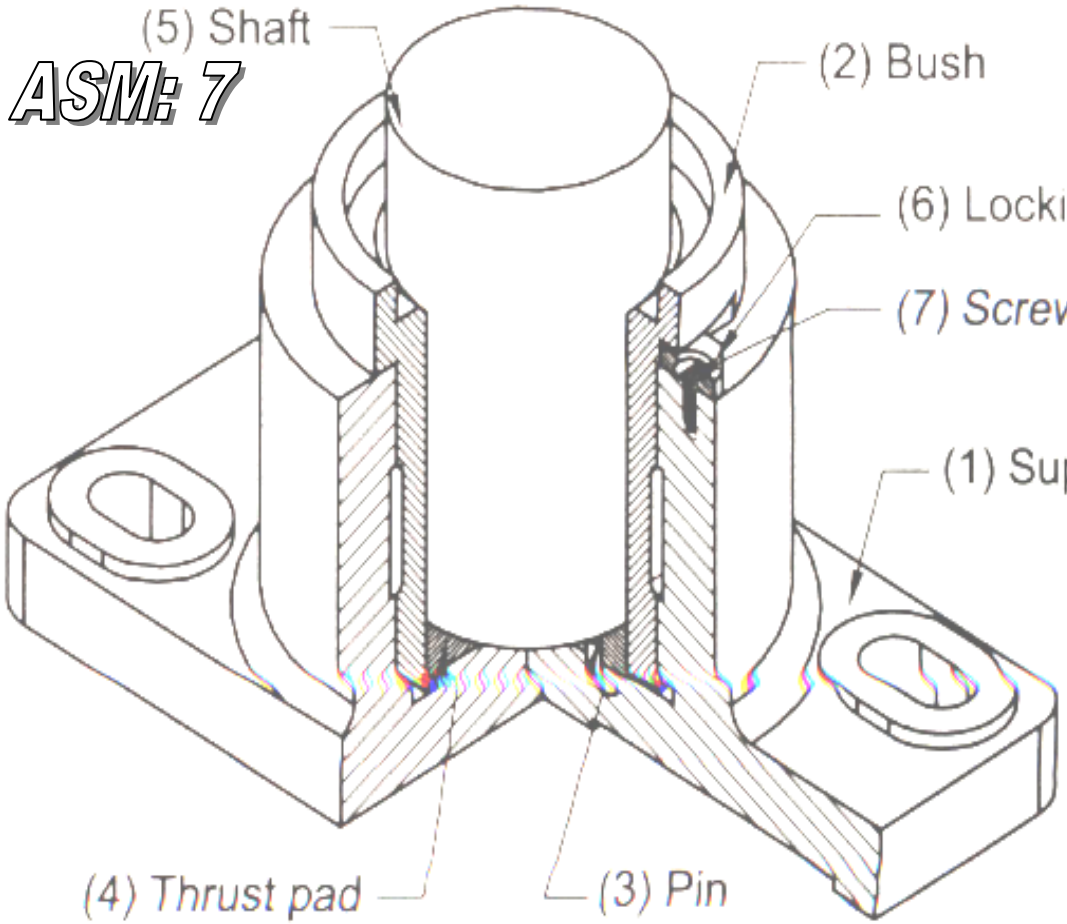


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

ASM: 7



Foot step bearing

ALL DIMENSIONS IN mm

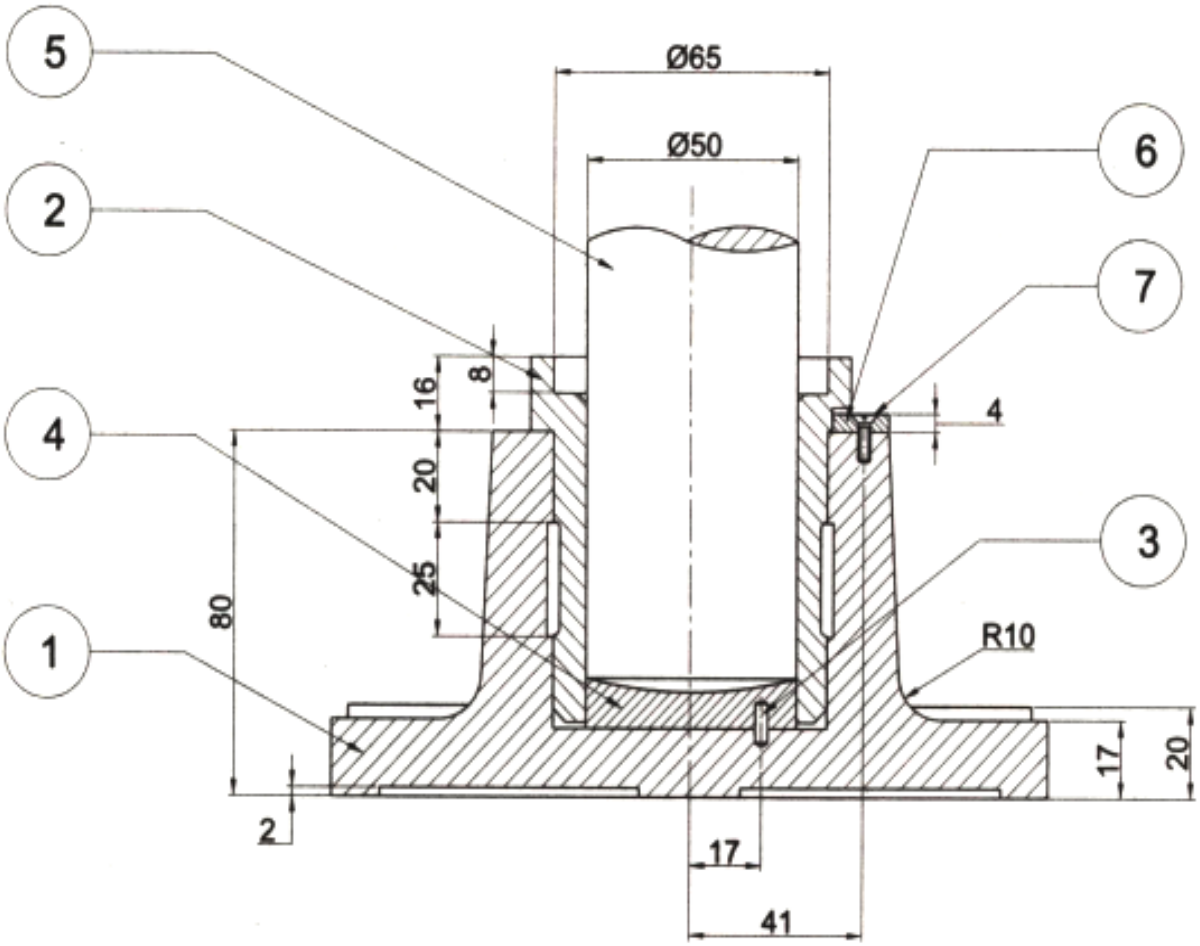
ITEM NO	DESCRIPTION	MATERIAL	NO OFF
7	SCREW	Fe 410 W	1
6	LOCKING PLATE	Fe 410 W	1
5	SHAFT	Fe 410 W	1
4	THRUST PAD	GUN METAL	1
3	PIN	Fe 410 W	1
2	BUSH	GUN METAL	1
1	SUPPORTING BRACKET	CAST IRON	1

Parts details of foot step bearing

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

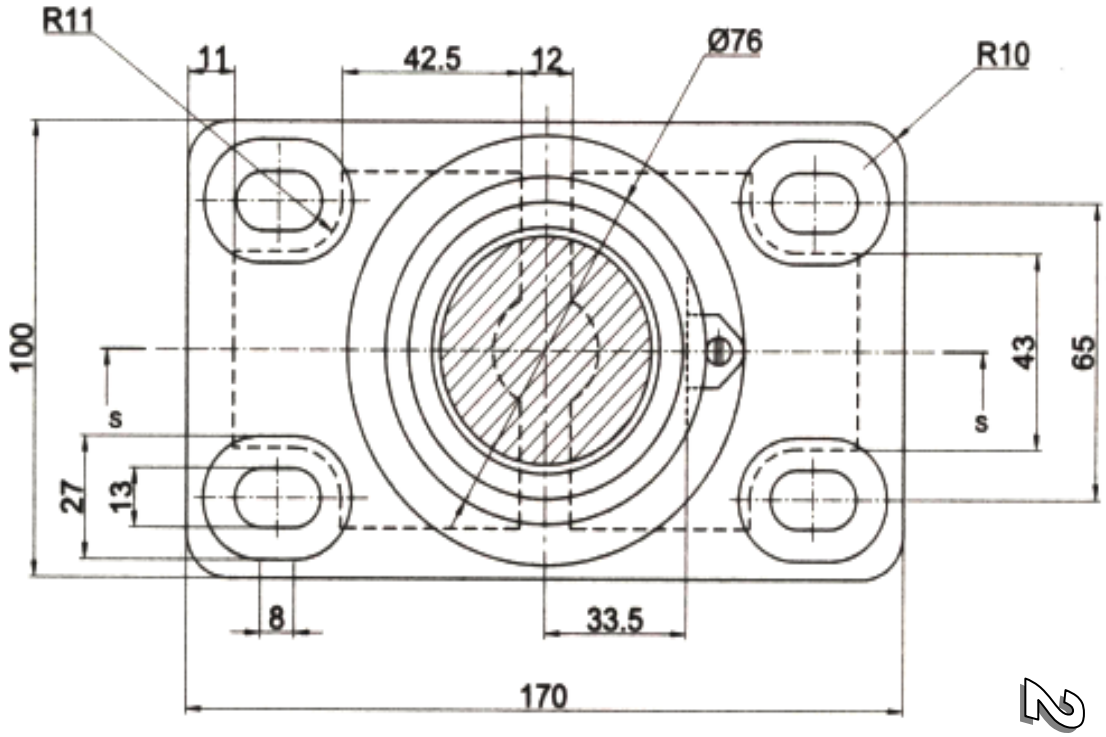
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



FULL SECTIONAL FRONT VIEW

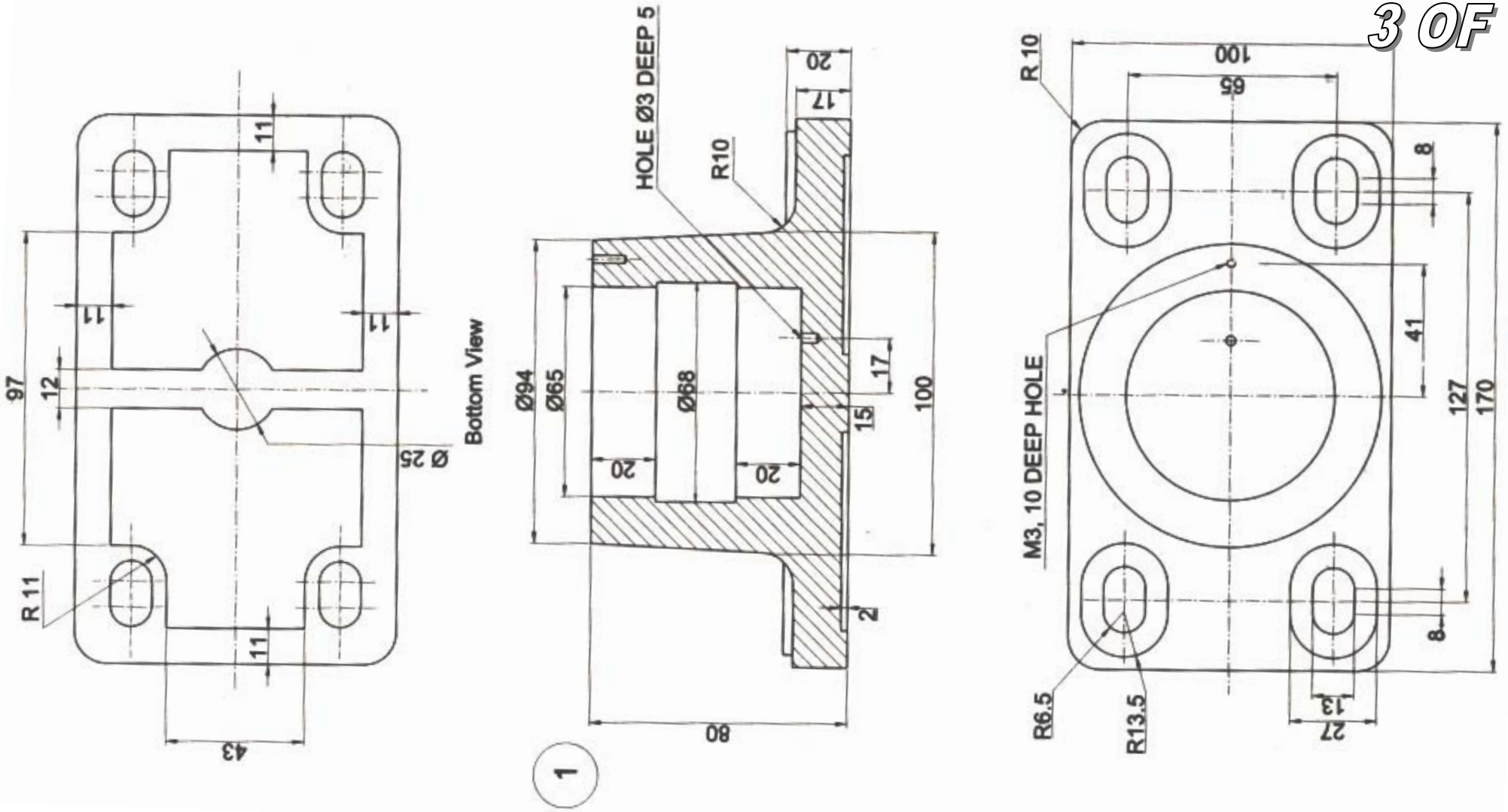
SECTION SS



TOP VIEW

Foot step bearing

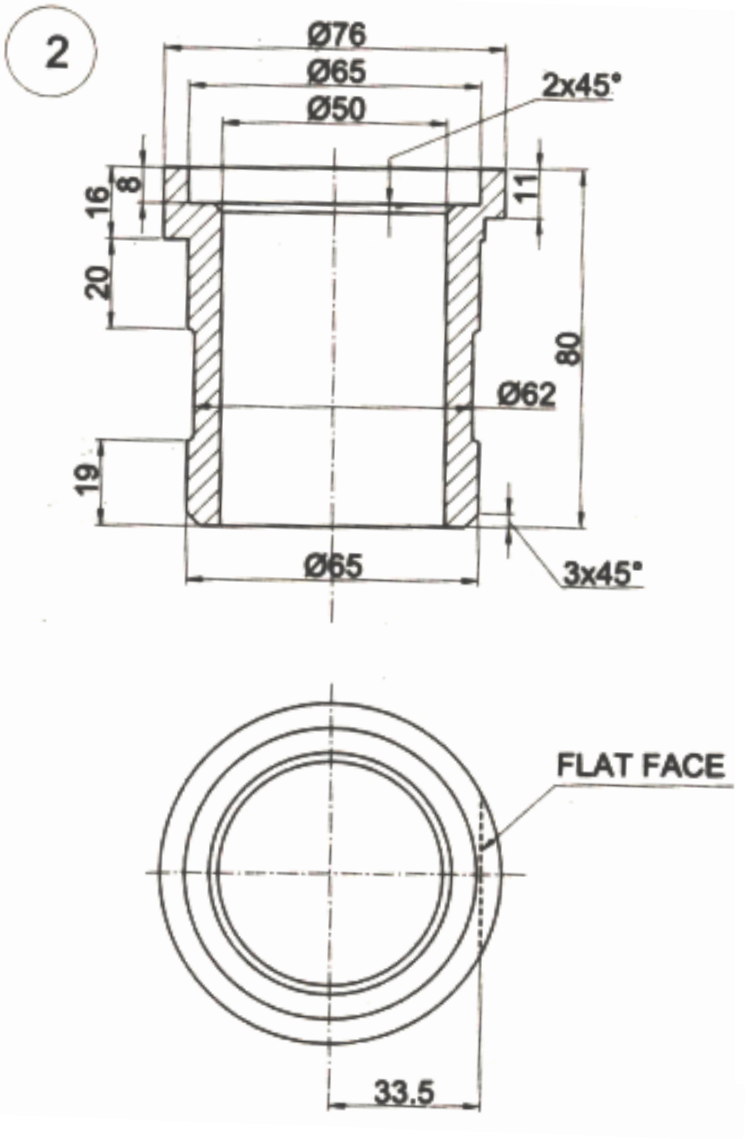
2 OF 7

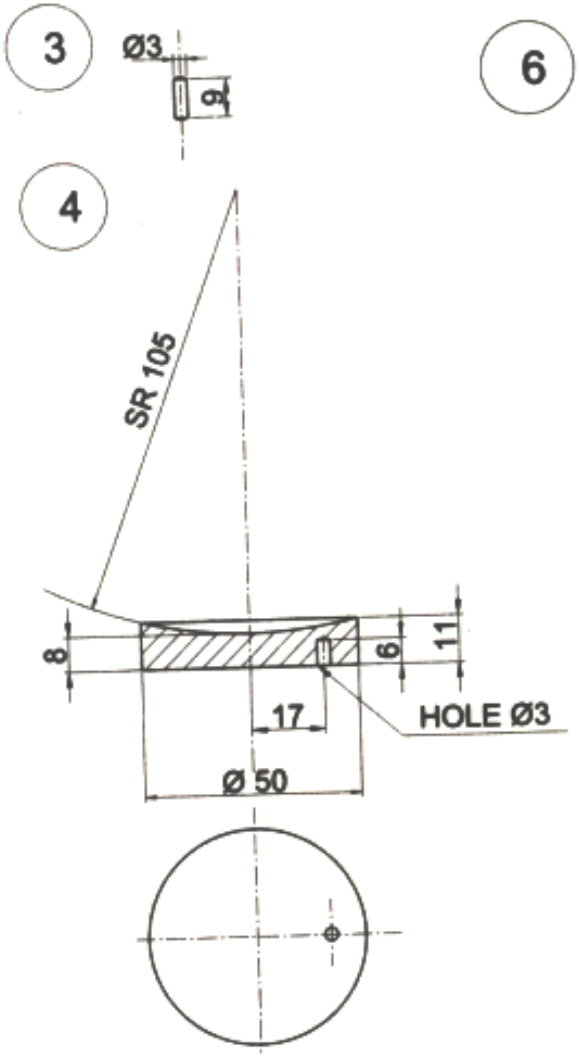


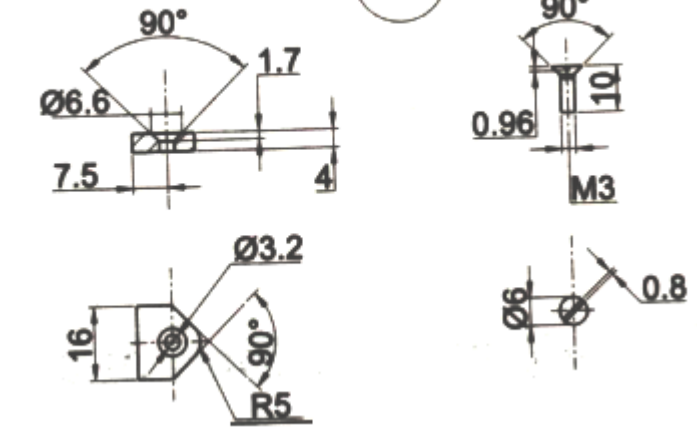
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

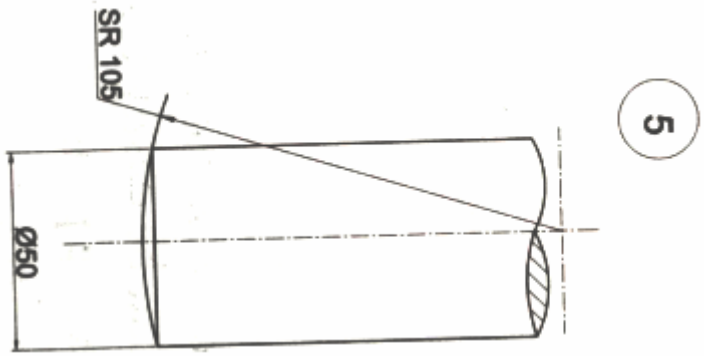
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.





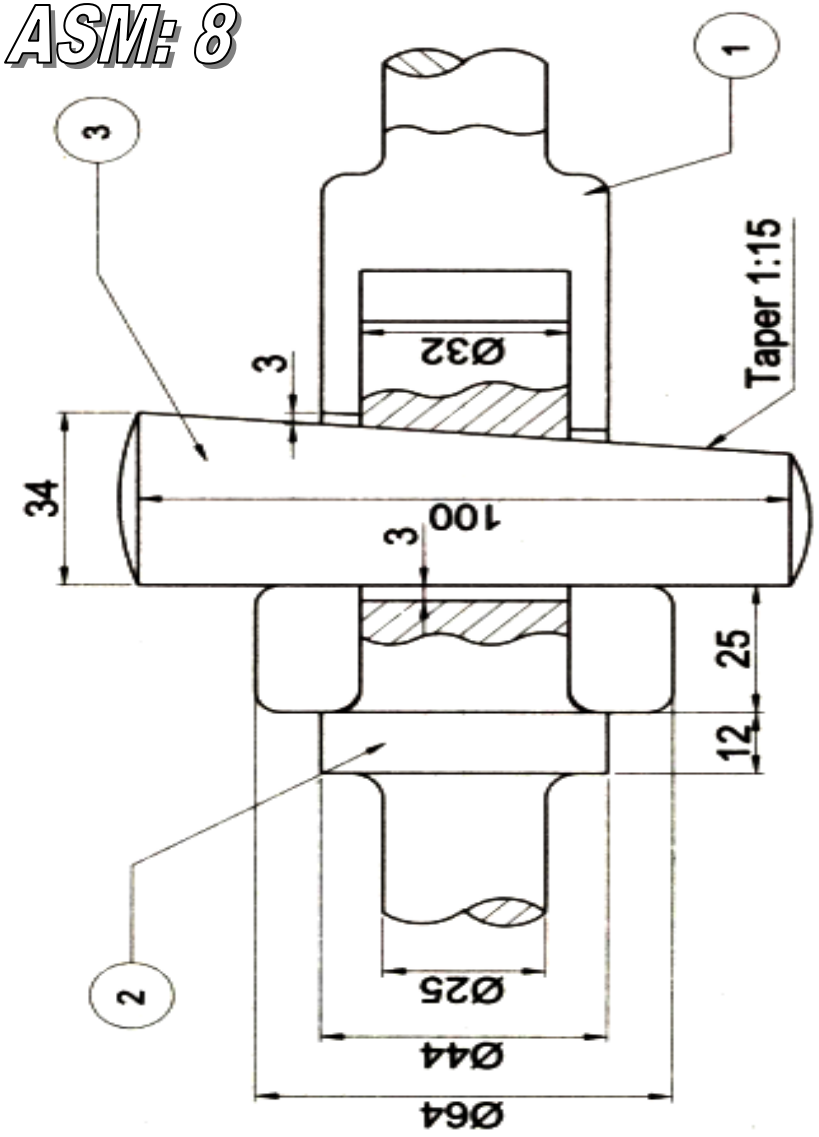




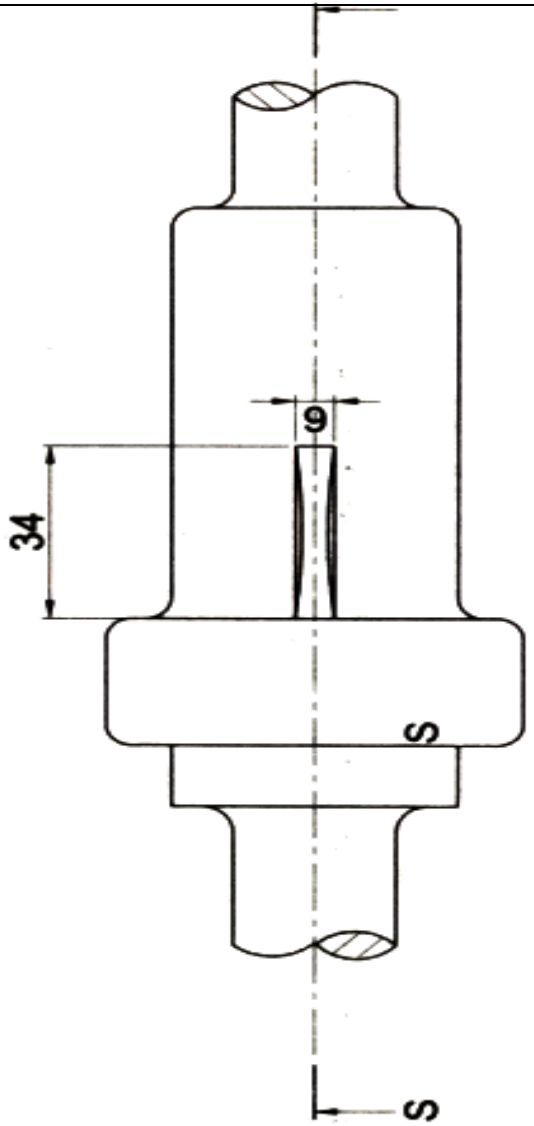
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



FULL SECTIONAL FRONT VIEW
SECTION SS



TOP VIEW

Socket and spigot joint

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

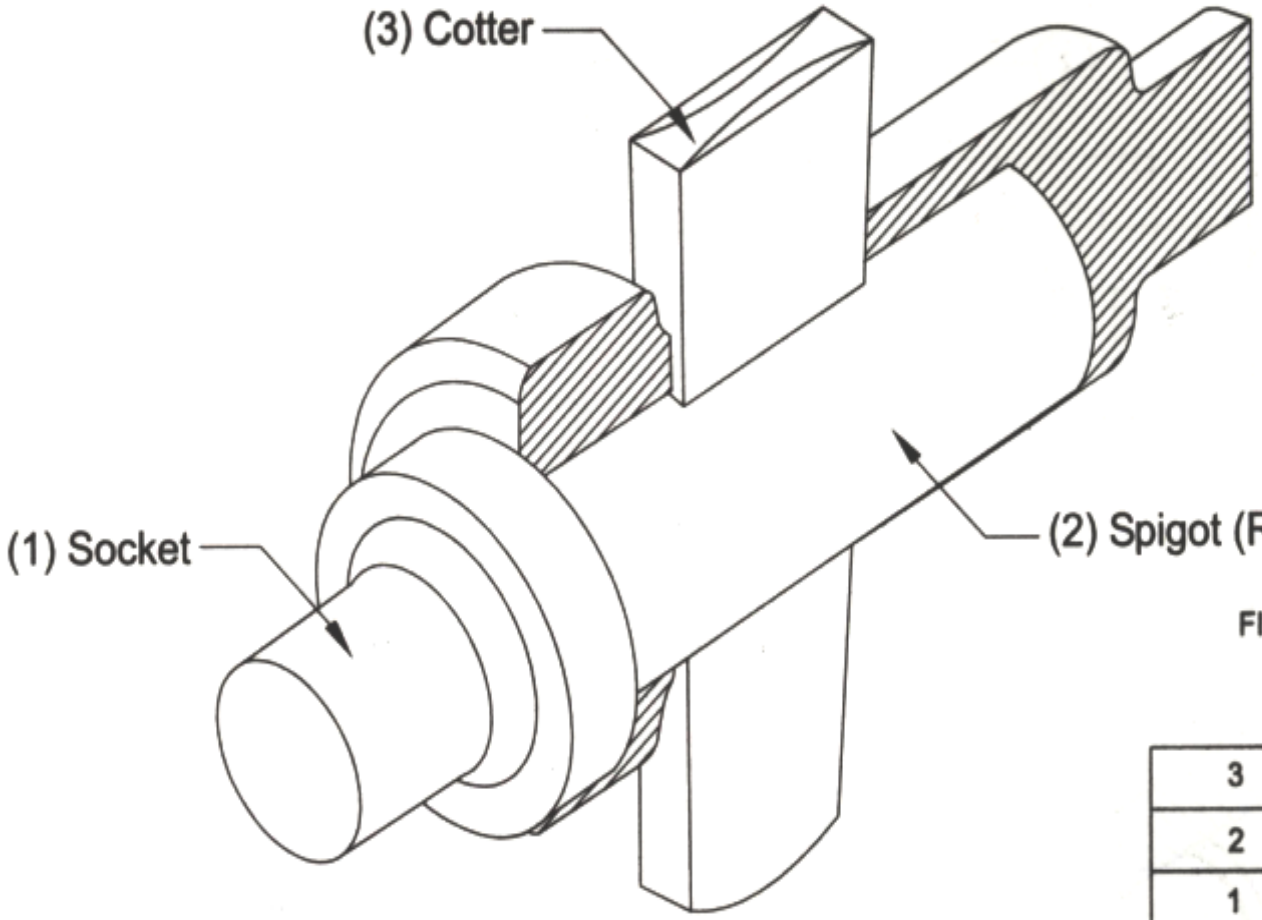


Figure Socket and spigot joint

FILLET RADIUS R3 WHEREVER NOT SPECIFIED

ALL DIMENSIONS IN mm

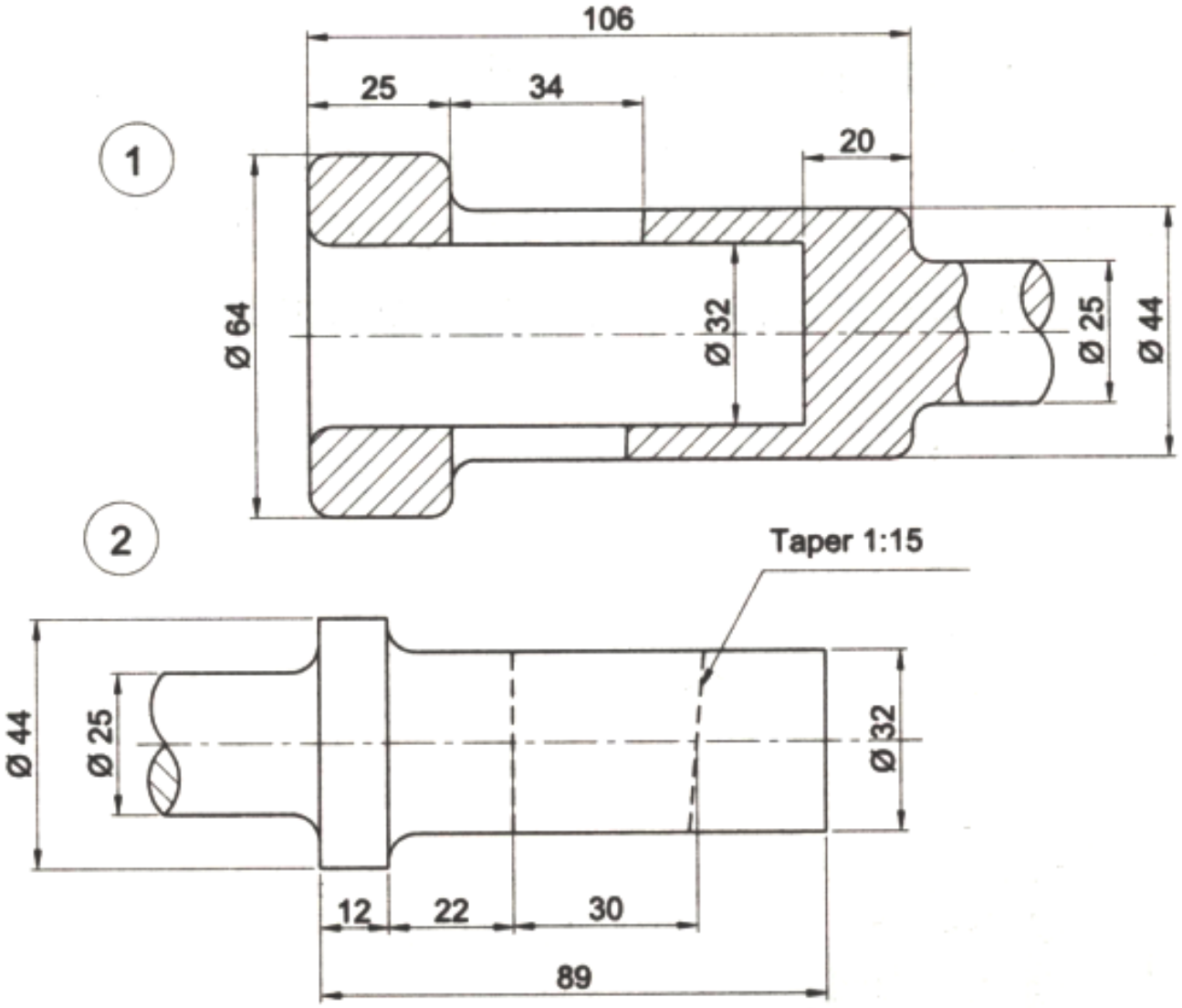
ITEM NO	DESCRIPTION	MATERIAL	NO OFF
3	COTTER	Fe 410 W	1
2	SPIGOT (ROD)	Fe 410 W	1
1	SOCKET	Fe 410 W	1

Parts details of socket and spigot joint

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

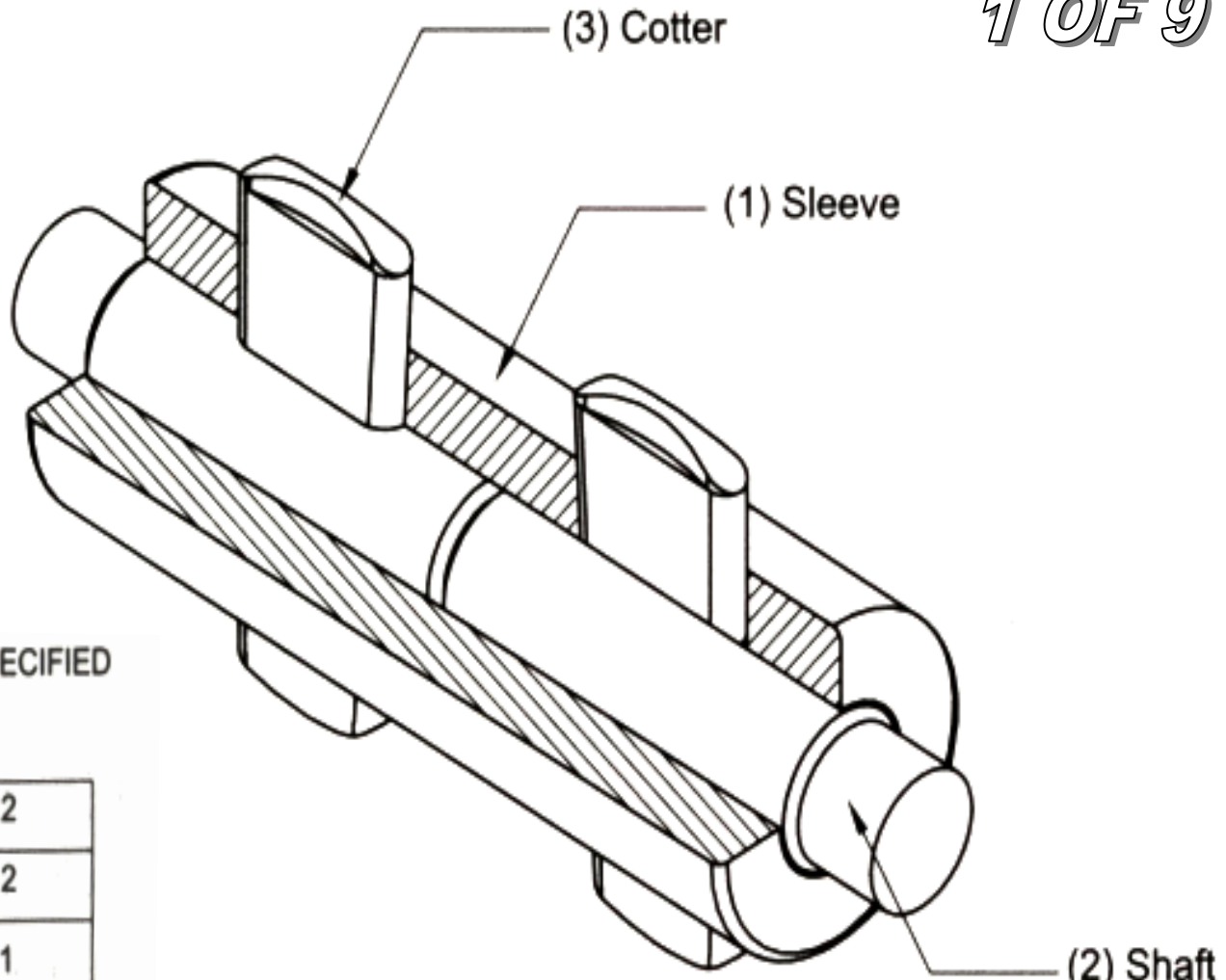
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



FILLET RADIUS R3 WHEREVER NOT SPECIFIED

ALL DIMENSIONS IN mm

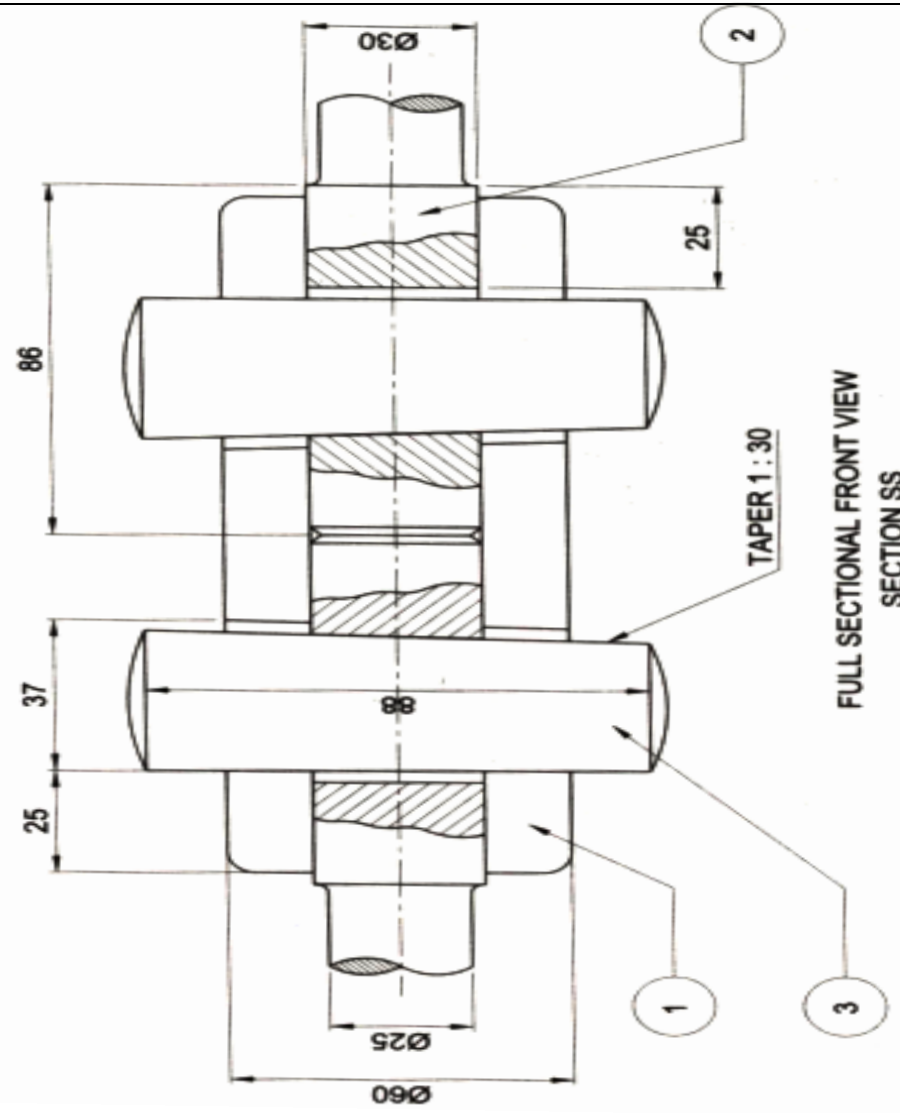
ITEM NO	DESCRIPTION	MATERIAL	NO OFF
3	COTTER	Fe 410 W	2
2	SHAFT	Fe 410 W	2
1	SLEEVE	Fe 410 W	1

Parts details of sleeve and cotter joint

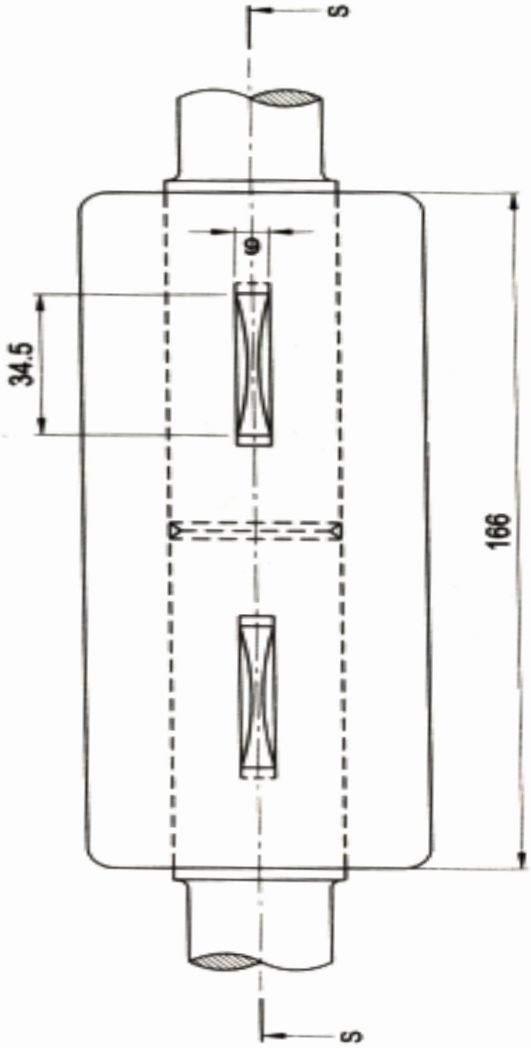
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



FULL SECTIONAL FRONT VIEW
SECTION SS



TOP VIEW

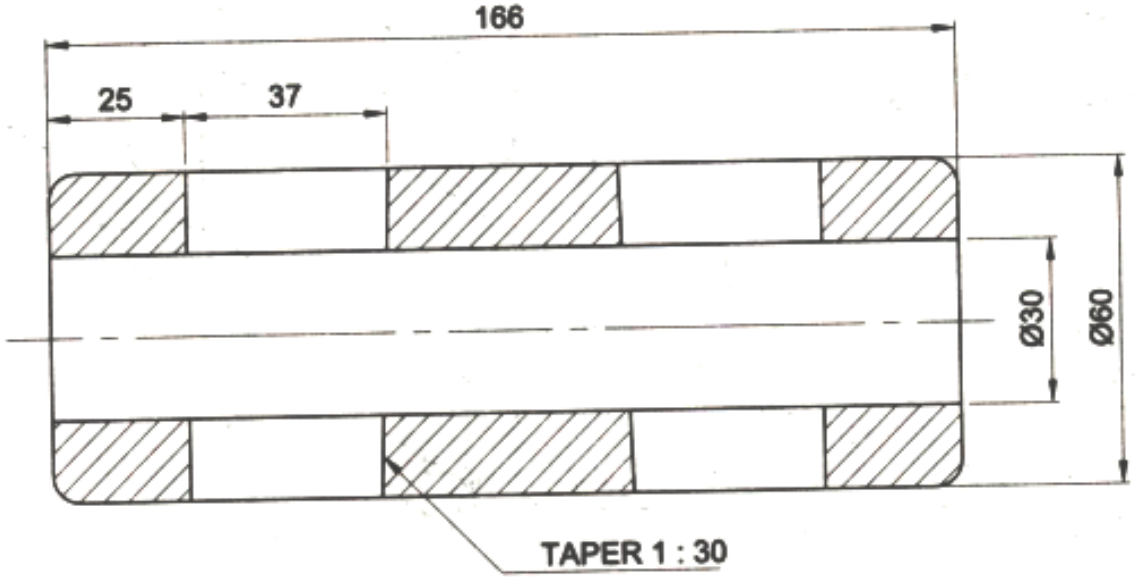
Sleeve and cotter joint

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

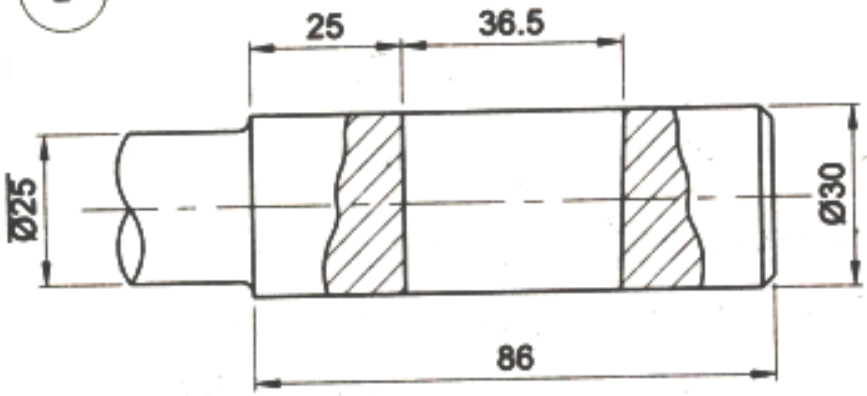
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

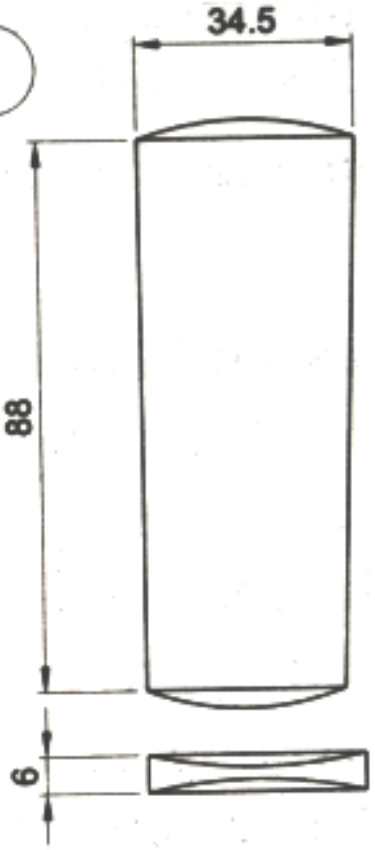
1



2



3



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

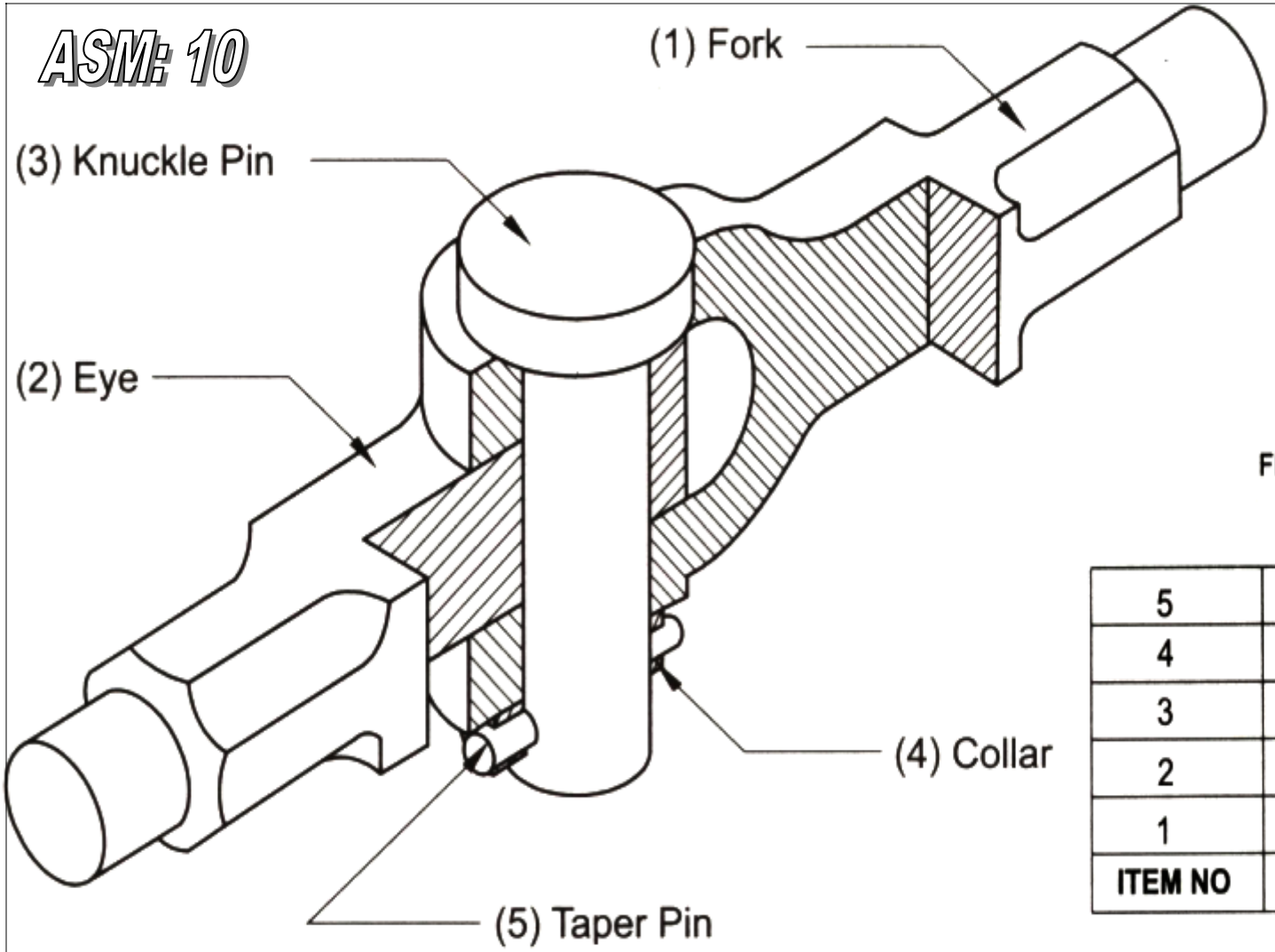


Figure Knuckle joint

FILLET RADII R3 IF NOT MENTIONED

ALL DIMENSIONS IN mm

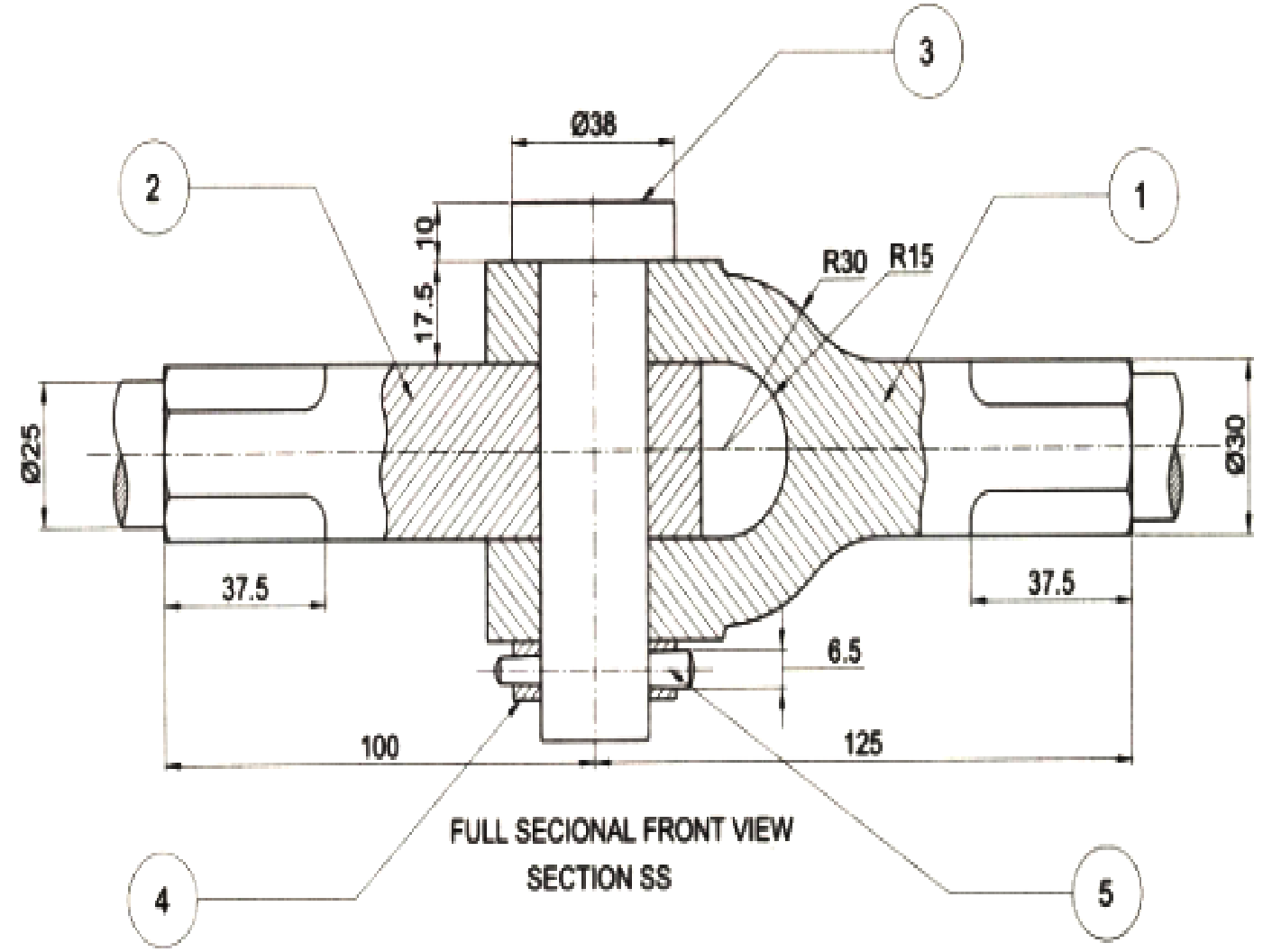
ITEM NO	DESCRIPTION	MATERIAL	NO OFF
5	TAPER PIN	Fe 410 W	2
4	COLLAR	Fe 410 W	1
3	PIN	Fe 410 W	1
2	EYE	Fe 410 W	1
1	FORK	Fe 410 W	1

Parts details of knuckle joint

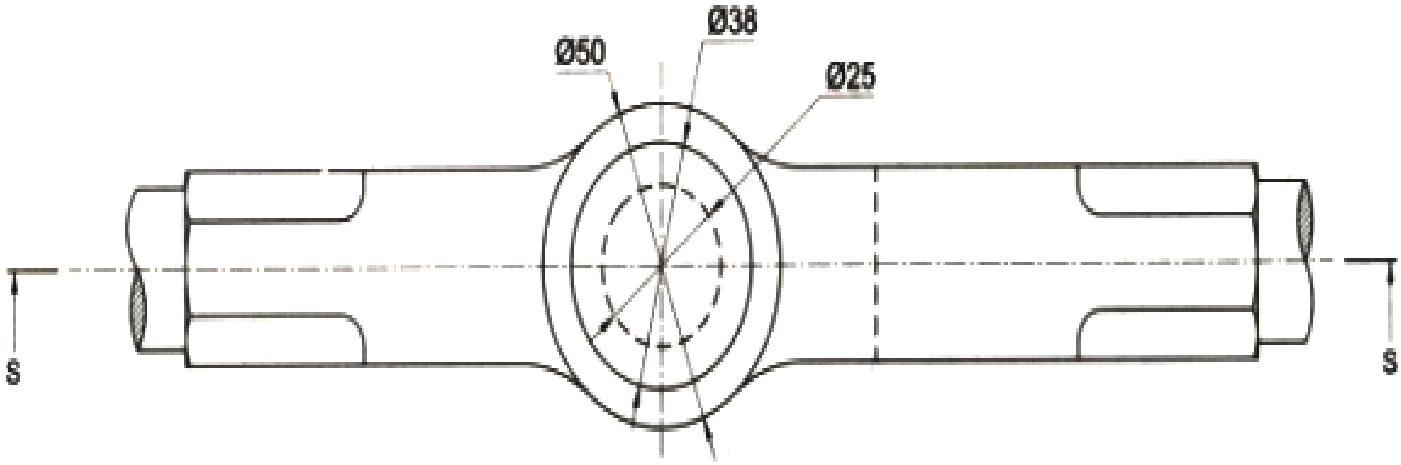
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

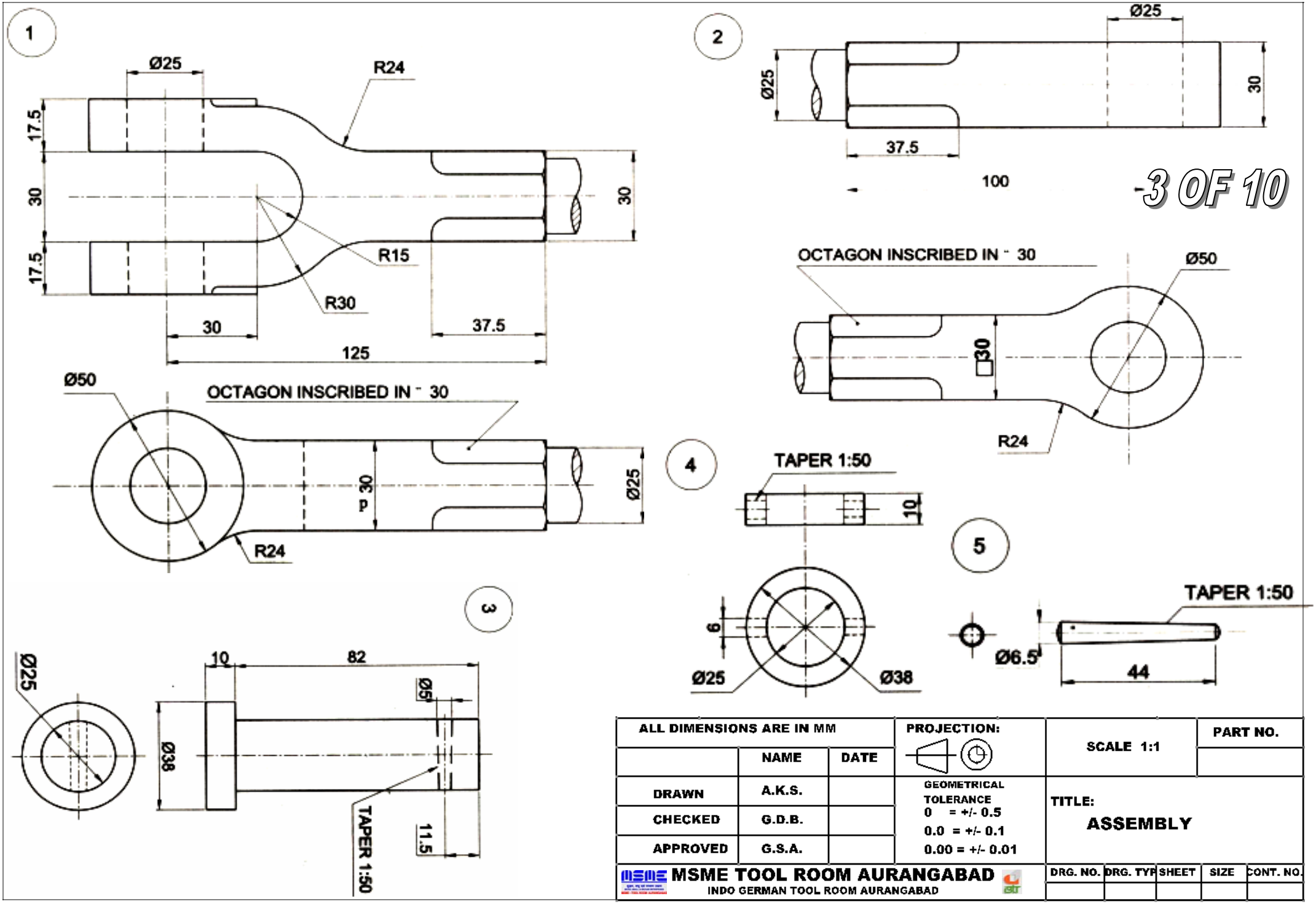


FULL SECIONAL FRONT VIEW
SECTION SS

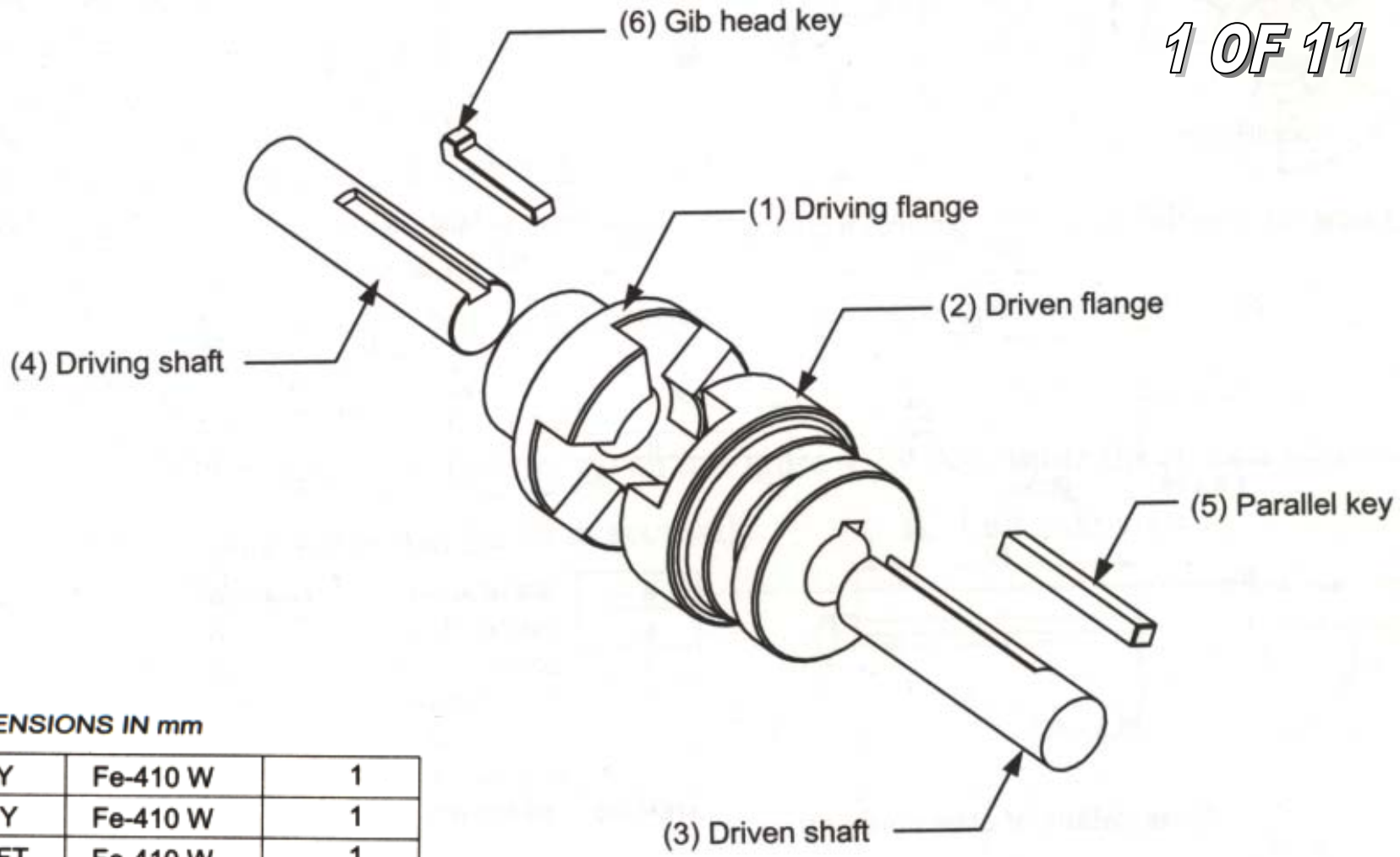


TOP VIEW

Knuckle joint


1
Ø25
R24
17.5
30
17.5
30
R15
R30
30
37.5
125
2
Ø25
Ø25
30
37.5
100
3 OF 10
OCTAGON INSCRIBED IN ¨ 30
Ø50
30
R24
Ø50
OCTAGON INSCRIBED IN ¨ 30
30
Ø25
R24
4
TAPER 1:50
10
6
Ø25
Ø38
5
TAPER 1:50
Ø6.5
44
3
Ø25
10
82
Ø5
Ø38
TAPER 1:50
11.5
ALL DIMENSIONS ARE IN MM
PROJECTION:
SCALE 1:1
PART NO.
NAME
DATE
DRAWN
A.K.S.
CHECKED
G.D.B.
APPROVED
G.S.A.
GEOMETRICAL TOLERANCE
0 = +/- 0.5
0.0 = +/- 0.1
0.00 = +/- 0.01
TITLE:
ASSEMBLY
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD
DRG. NO.
DRG. TYP
SHEET
SIZE
CONT. NO.

ASM: 11



ALL DIMENSIONS IN mm

ITEM NO	DESCRIPTION	MATERIAL	NO OFF
6	GIB HEAD KEY	Fe-410 W	1
5	PARALLEL KEY	Fe-410 W	1
4	DRIVING SHAFT	Fe-410 W	1
3	DRIVEN SHAFT	Fe-410 W	1
2	DRIVEN FLANGE	C I	1
1	DRIVING FLANGE	C I	1

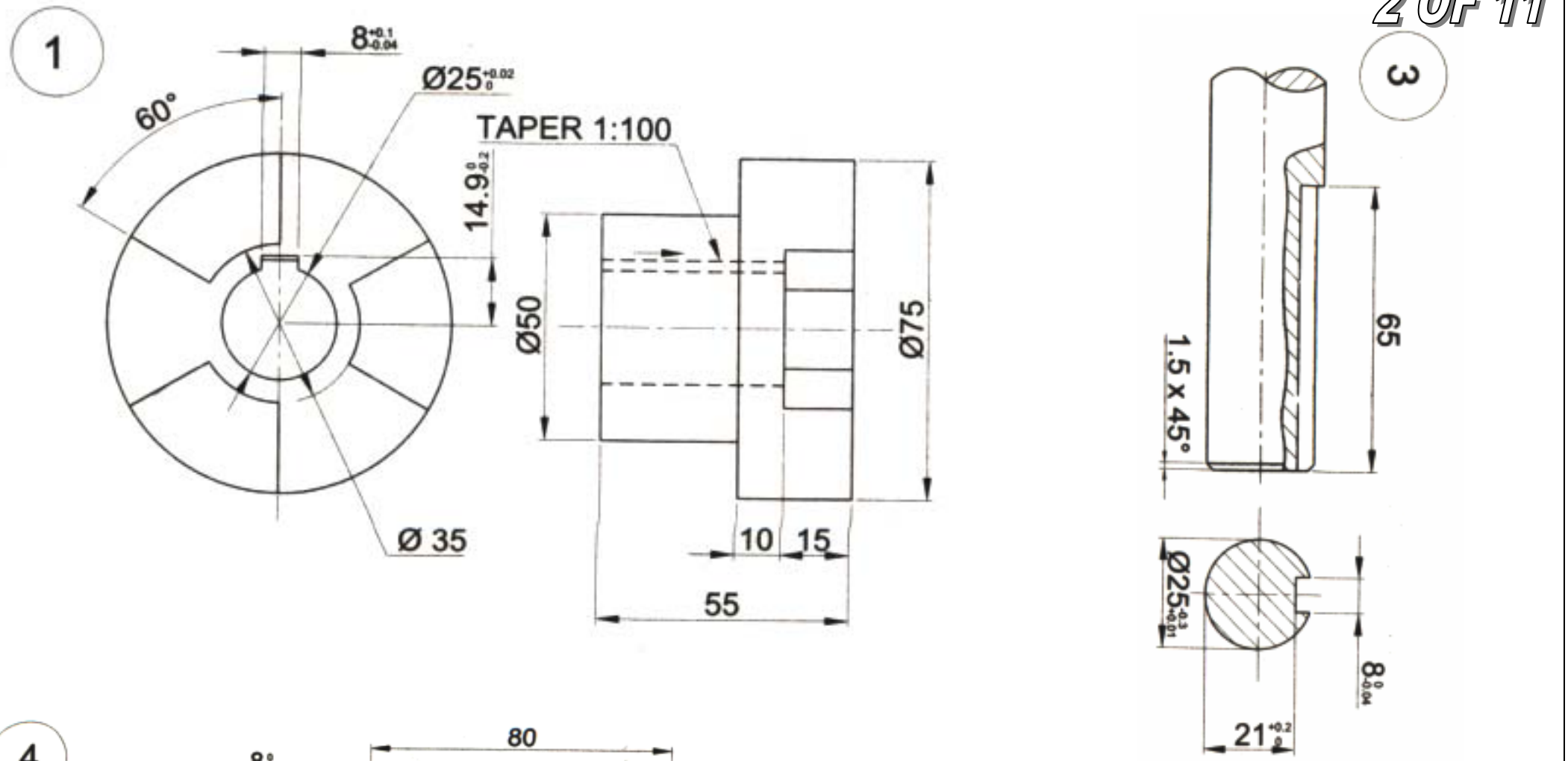
Parts details of claw coupling

Claw coupling

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

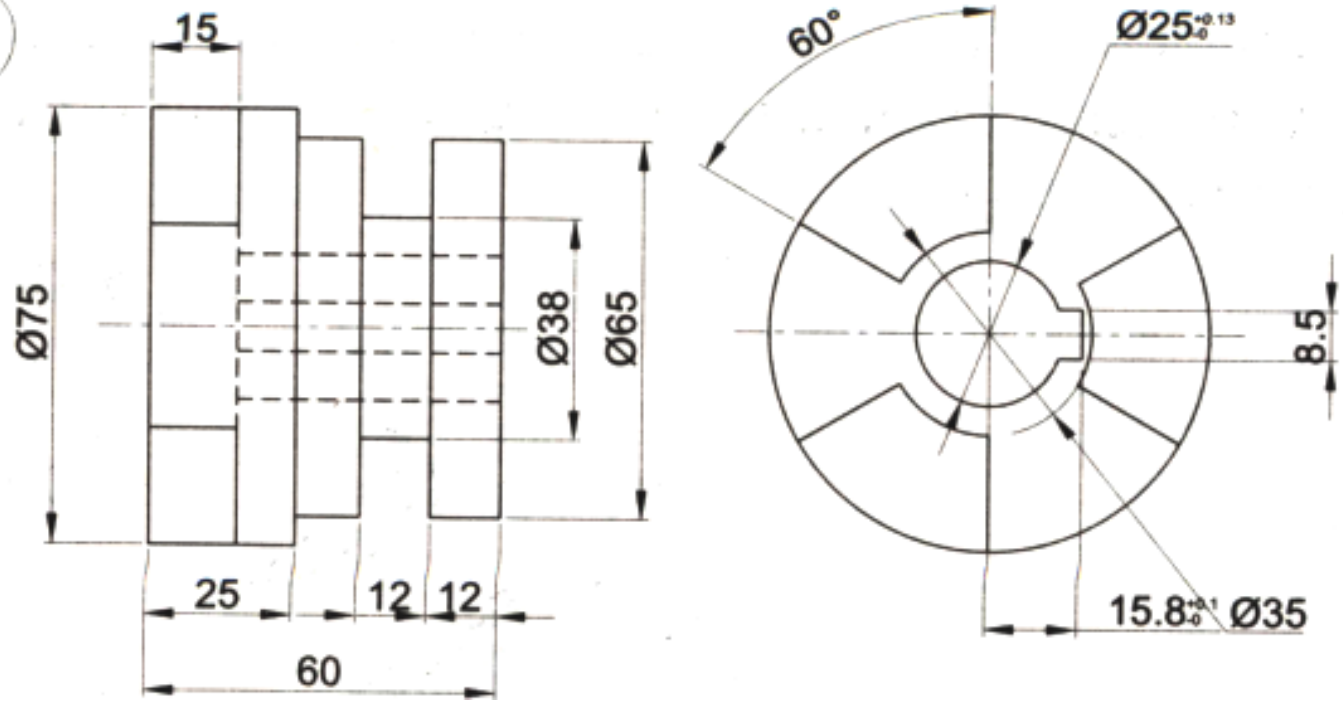


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

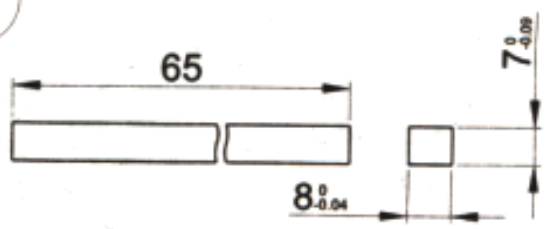
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

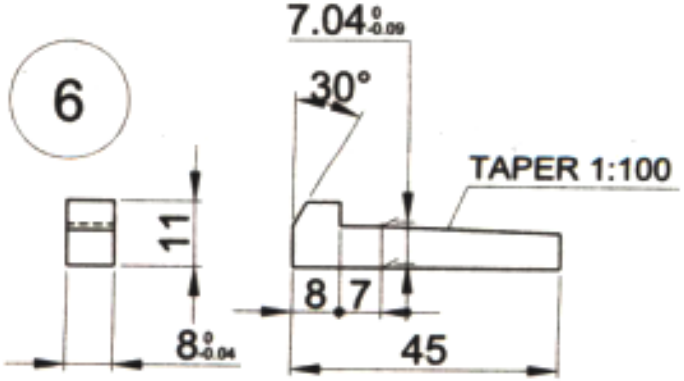
2



5



6

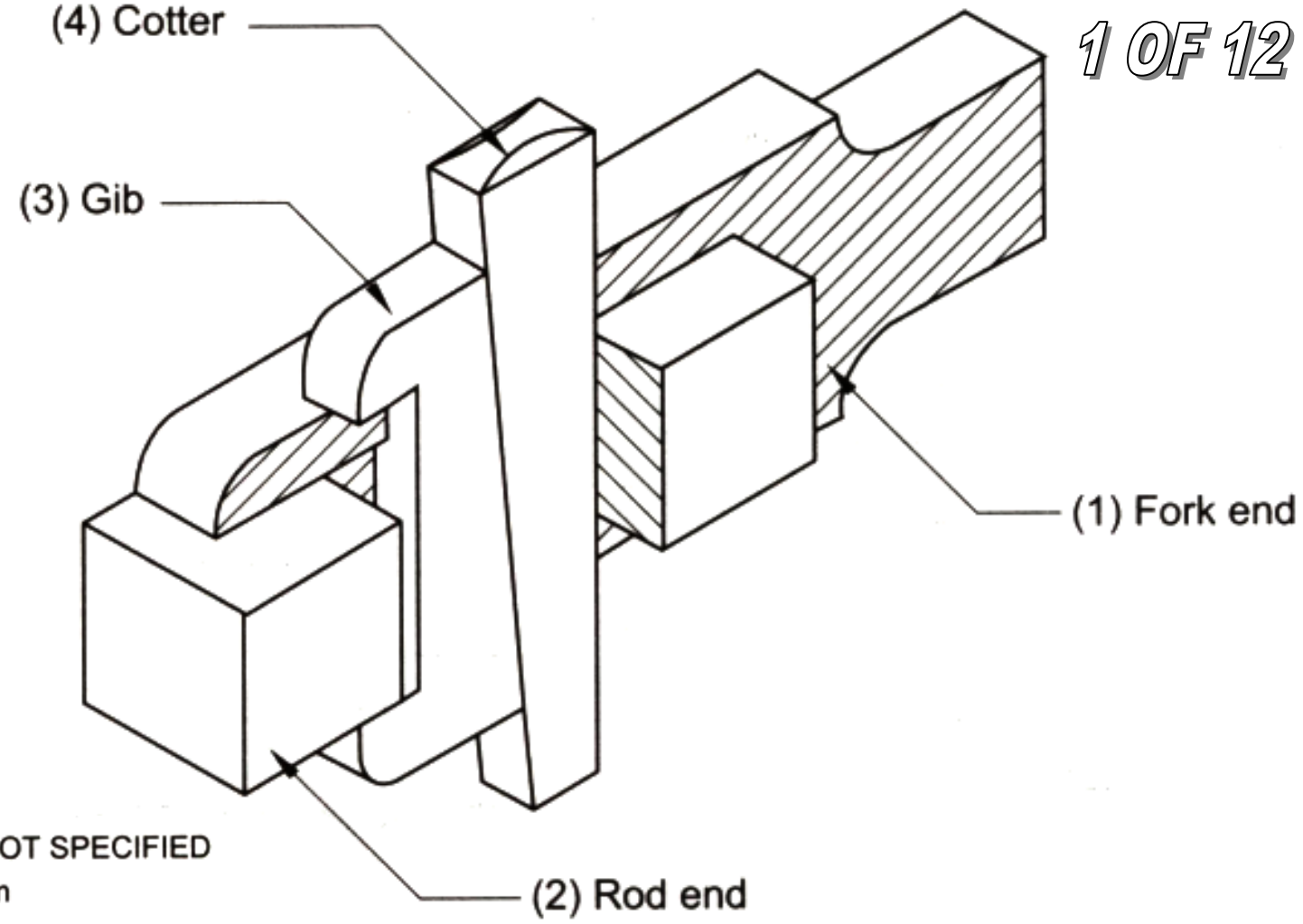


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

ASM: 12



FILLET RADIUS R3 WHEREVER NOT SPECIFIED
ALL DIMENSIONS IN mm

PART NO	DESCRIPTION	MATERIAL	NO OFF
4	COTTER	Fe 410 W	1
3	GIB	Fe 410 W	1
2	ROD END	Fe 410 W	1
1	FORK END	Fe 410 W	1

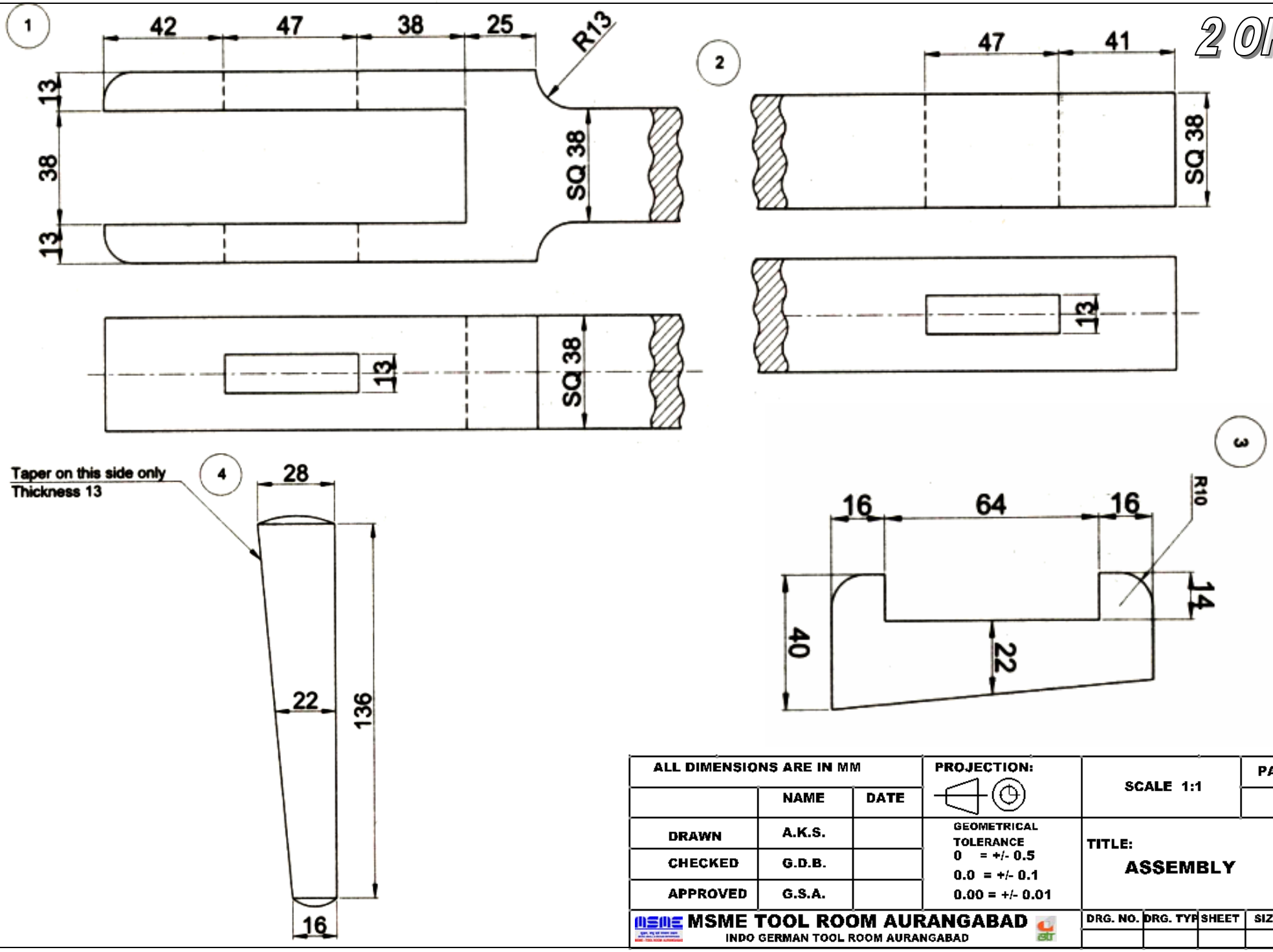
Gib and cotter joint

Gib and cotter joint

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

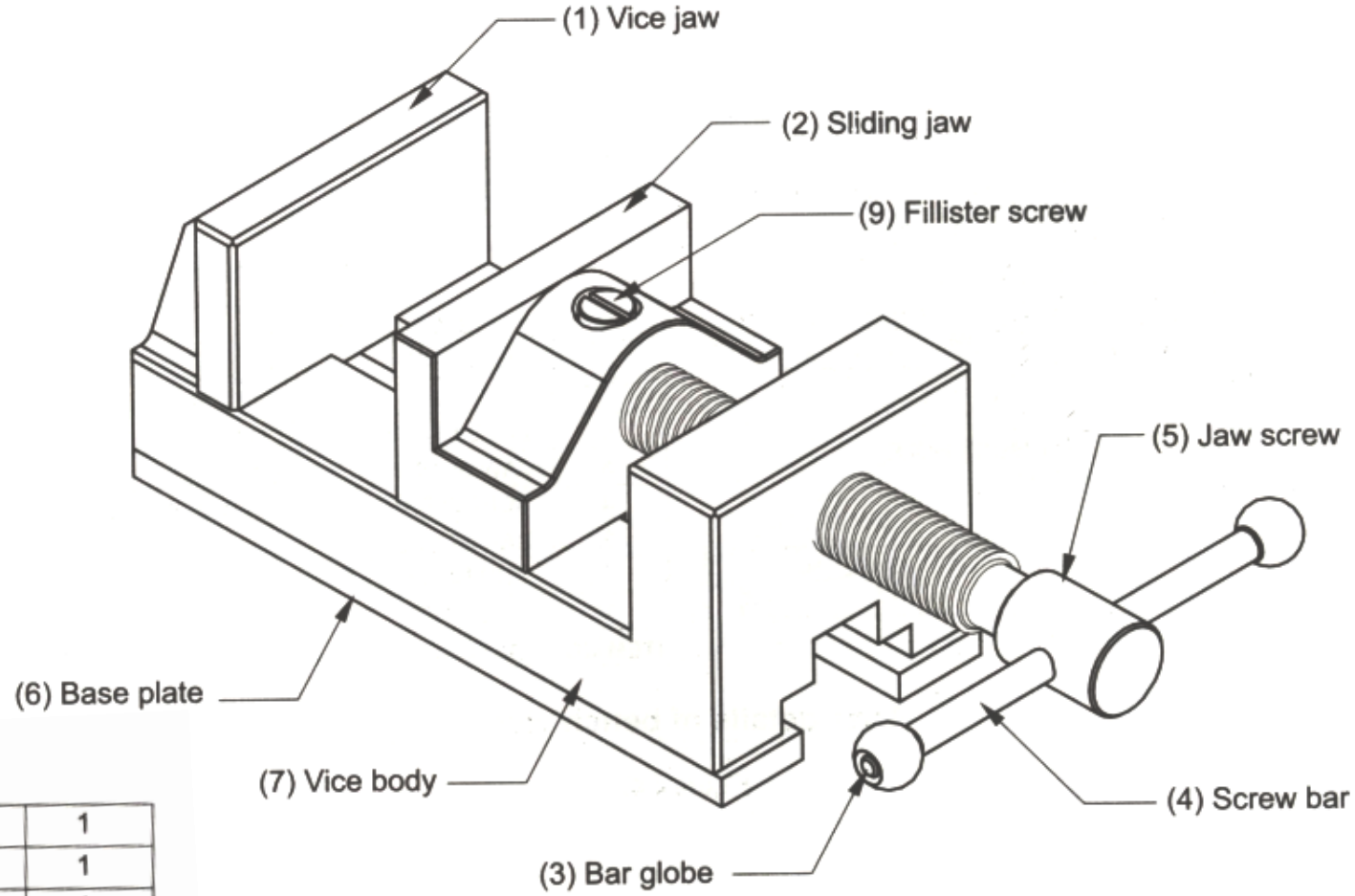


Figure Bench vice

ALL DIMENSIONS IN mm

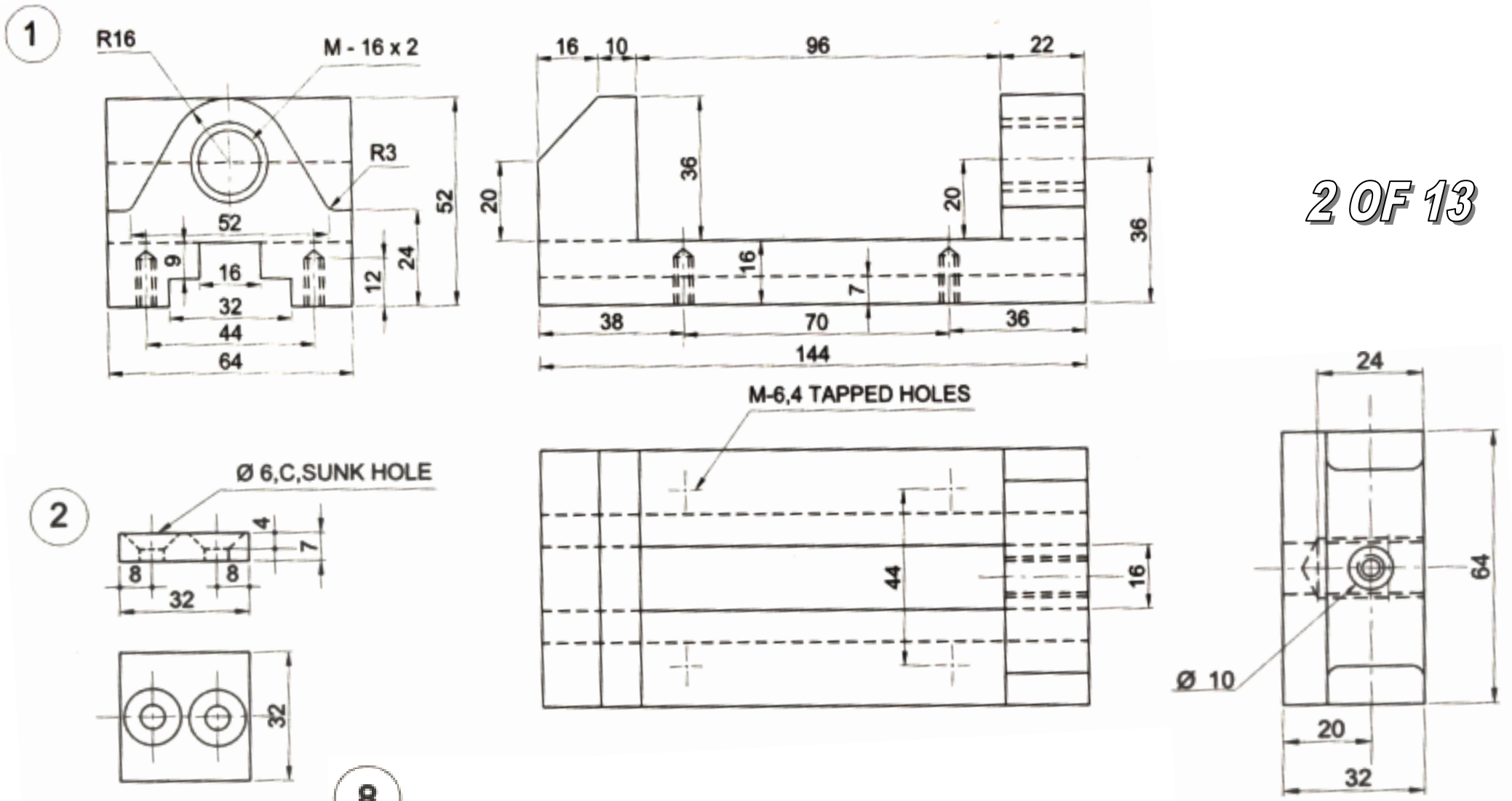
ITEM NO	DESCRIPTION	MATERIAL	NO OFF
9	FILLISTER SCREW	MS	1
8	SET SCREW	MS	1
7	VICE JAW	CAST IRON	1
6	BASE PLATE	CDS	2
5	JAW SCREW	MS	1
4	SCREW BAR	CARBON STEEL	1
3	BAR GLOBE	CDS	1
2	SLIDING JAW STOP	CDS	1
1	VICE BODY	CAST IRON	1

Parts details of bench vice

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

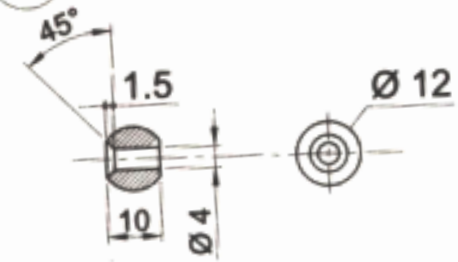


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

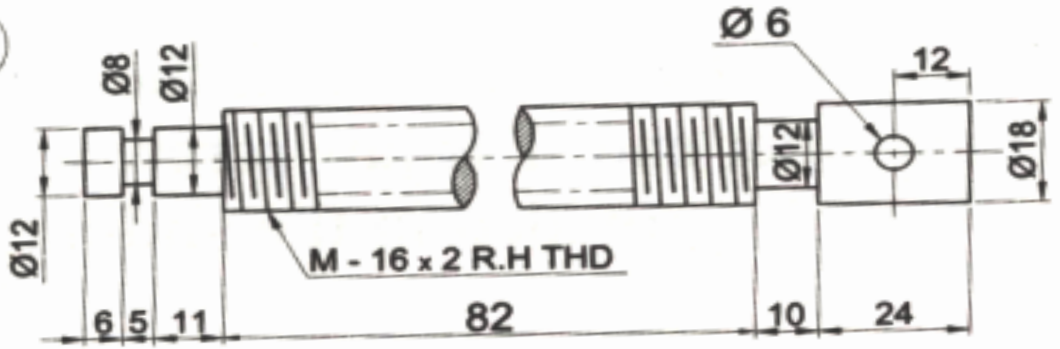
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

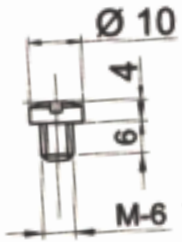
3



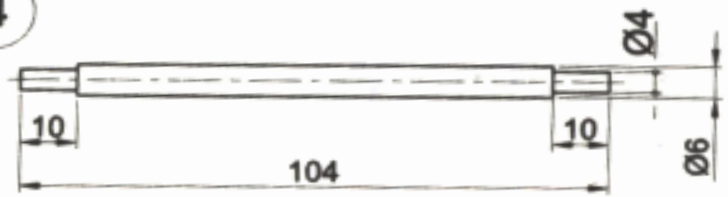
5



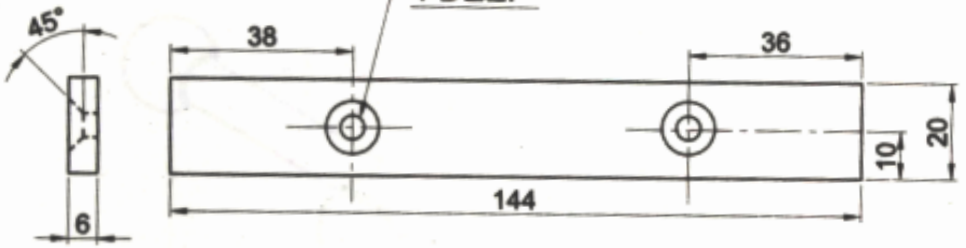
9



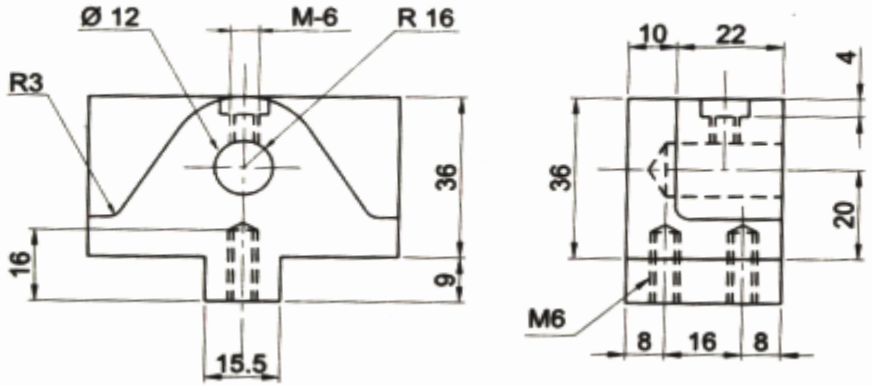
4



6



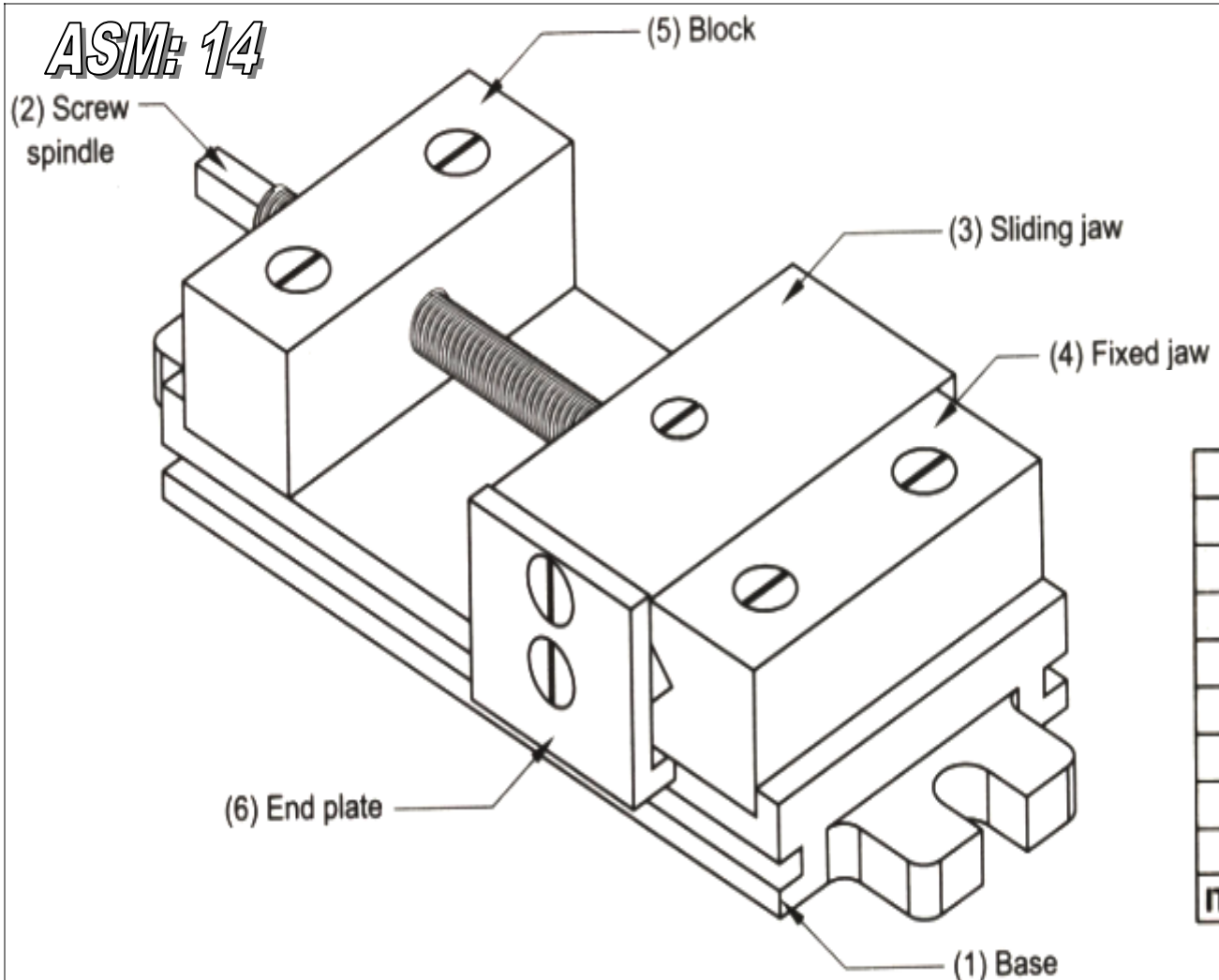
7



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



ALL DIMENSIONS IN mm

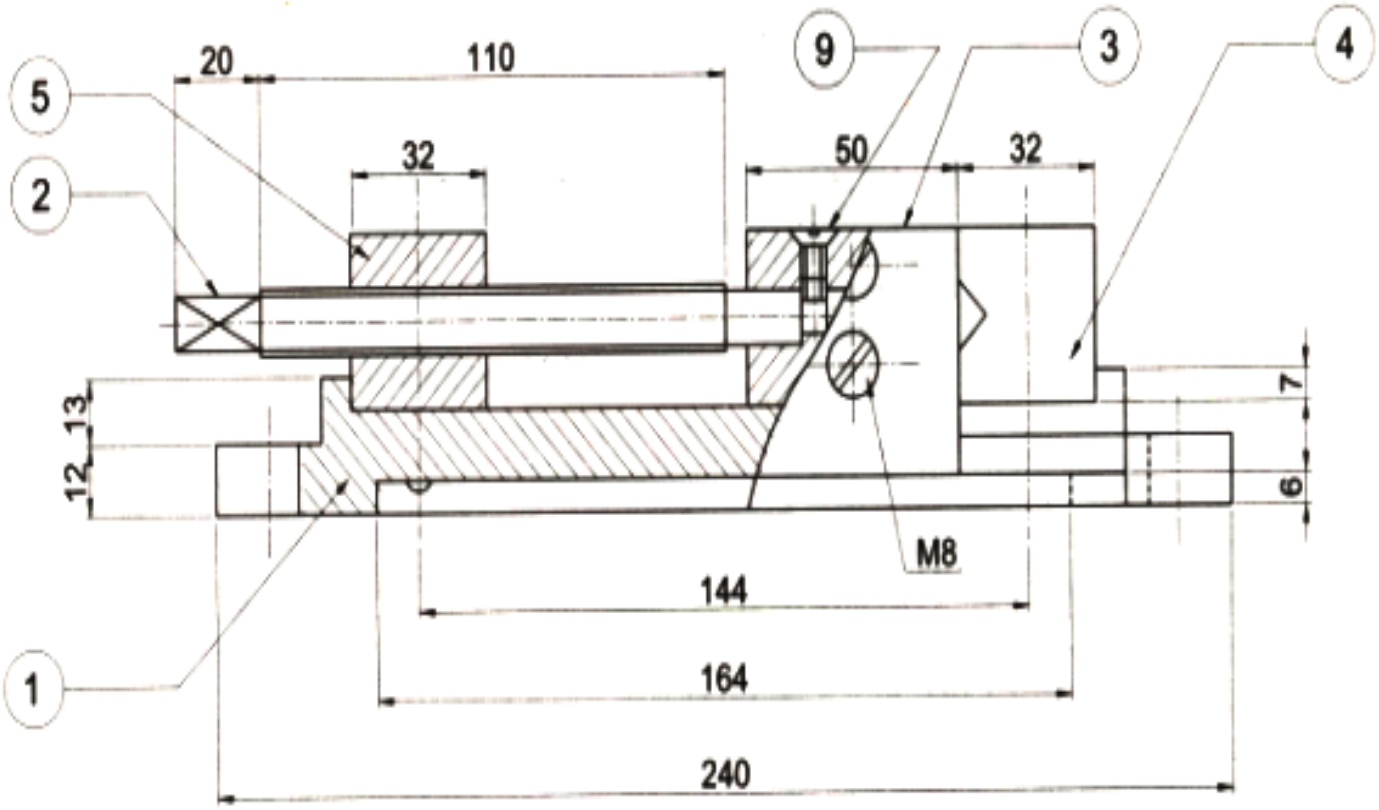
ITEM NO	DESCRIPTION	MATERIAL	NO OFF
9	SCREW (M 6)	M.S.	1
8	SCREW (M 8)	M.S.	4
7	SET SCREW (M 8)	M.S.	2
6	END PLATE	M.S.	1
5	BLOCK	C.I.	1
4	FIXED JAW	C.S.	1
3	SLIDING JAW	C.S.	1
2	SCREW SPINDLE	M.S.	1
1	BASE	C.I.	1

Parts details of machine vice

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

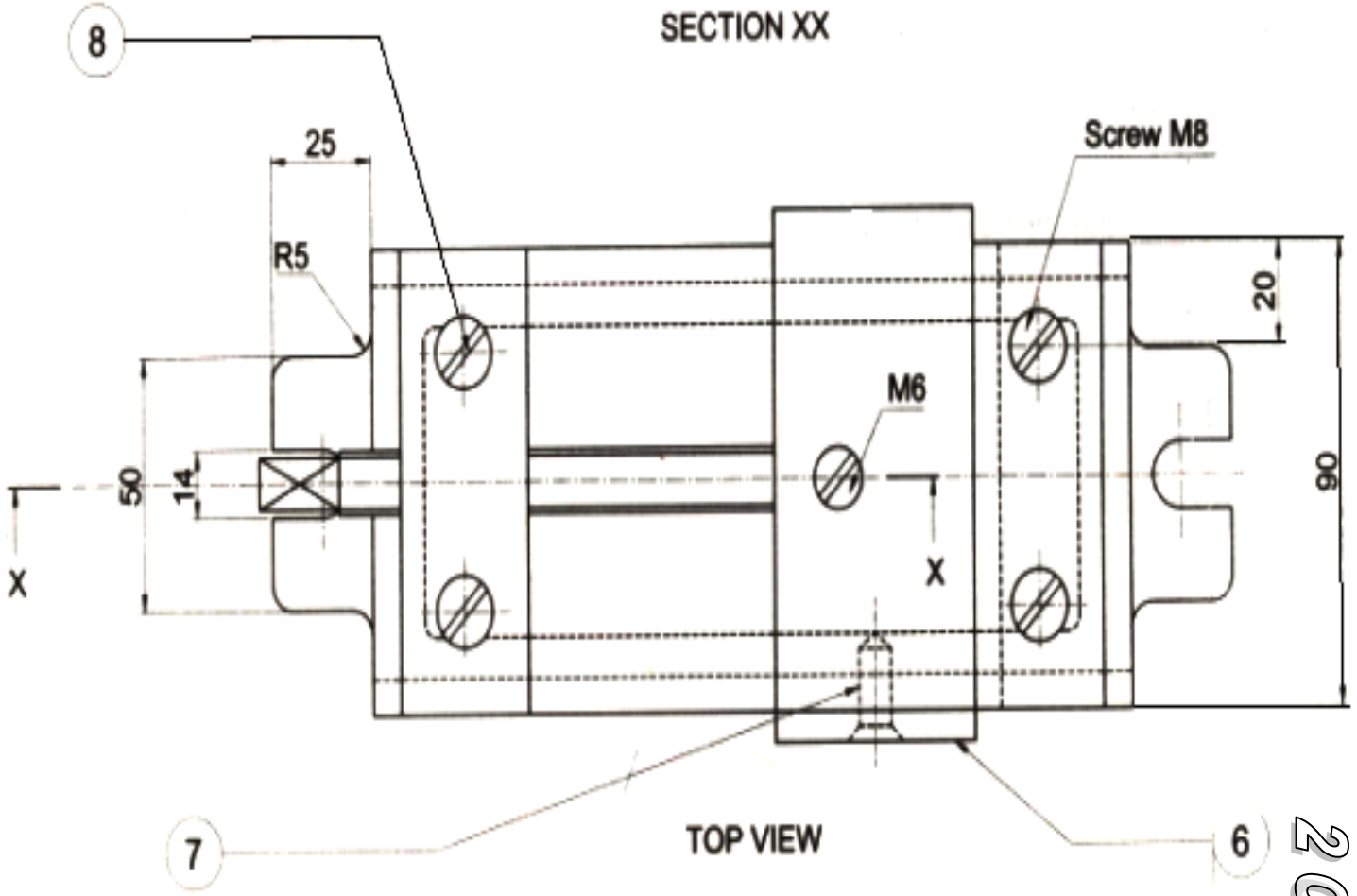
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



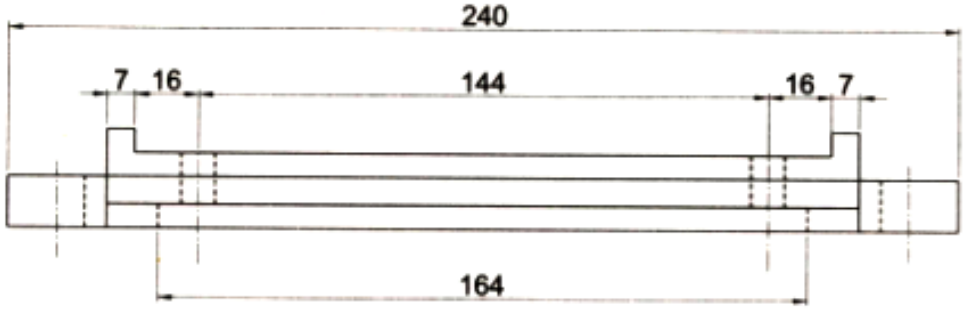
SECTIONAL FRONT VIEW

SECTION XX

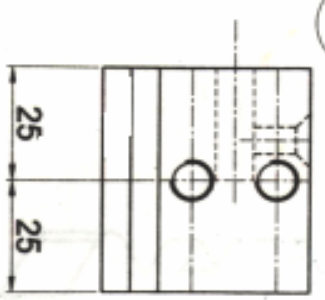


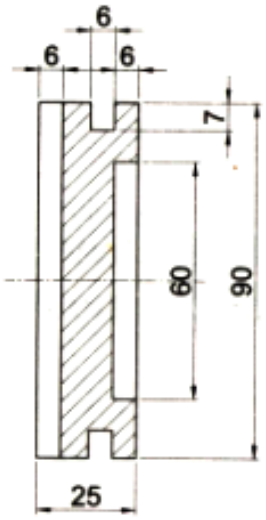
Machine vice

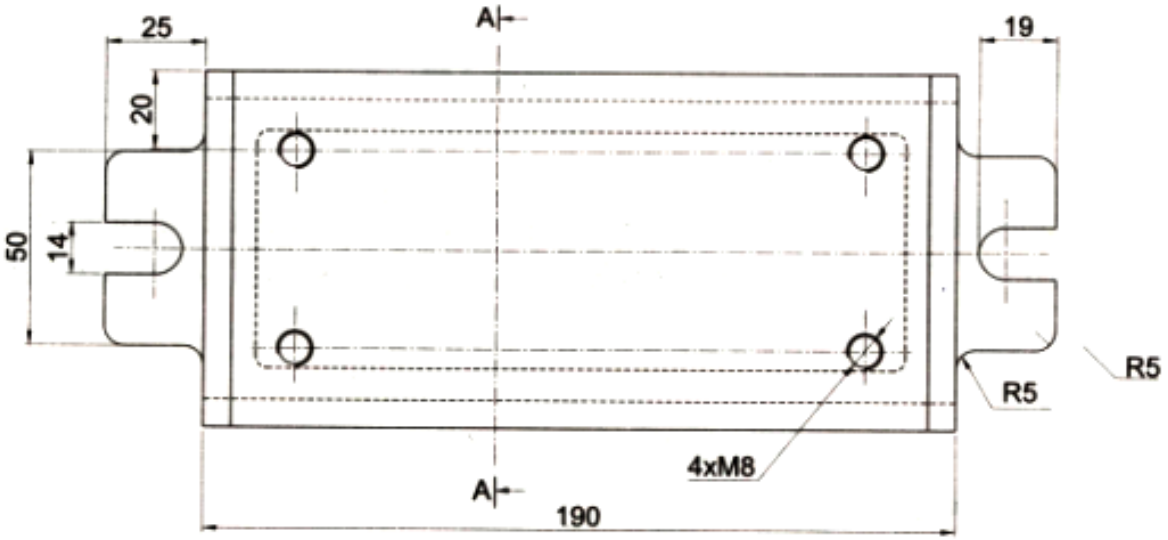
1

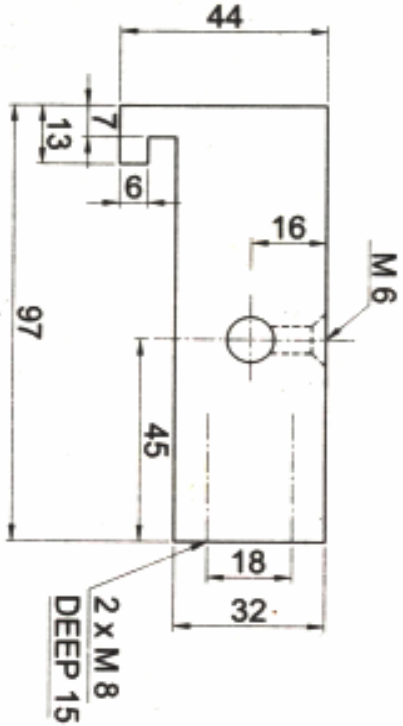


3

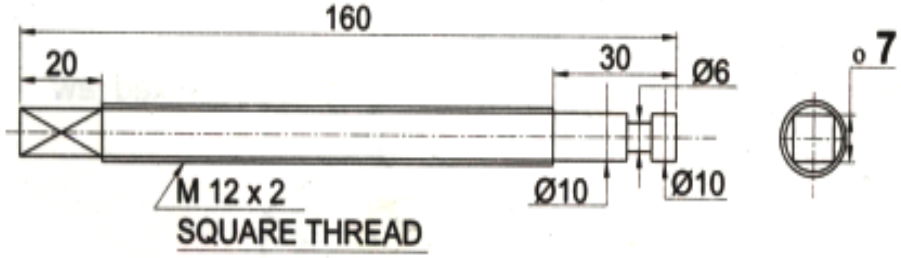








2

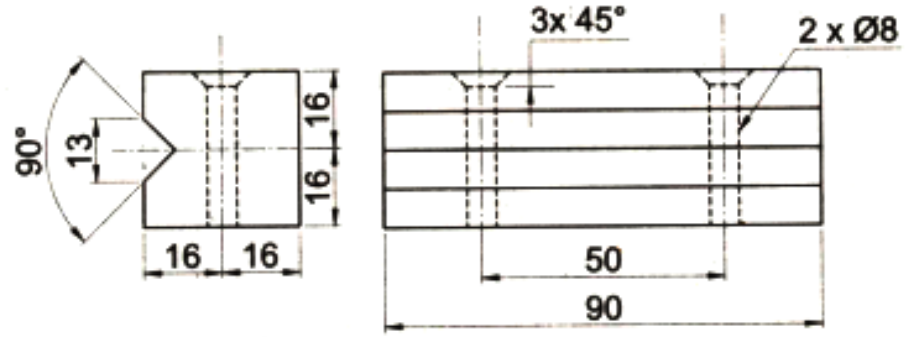


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

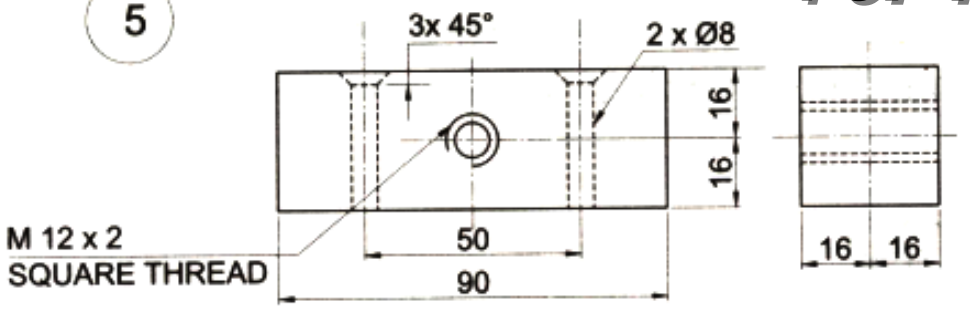
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

4



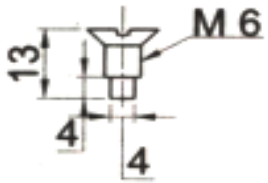
5



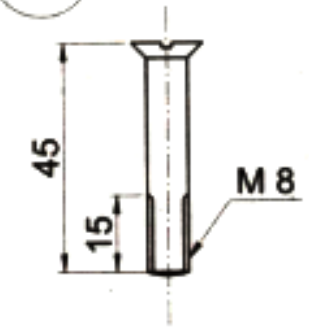
7



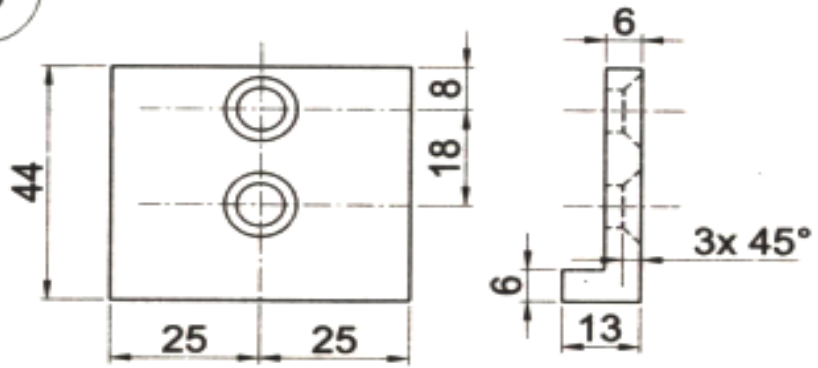
9



8



6

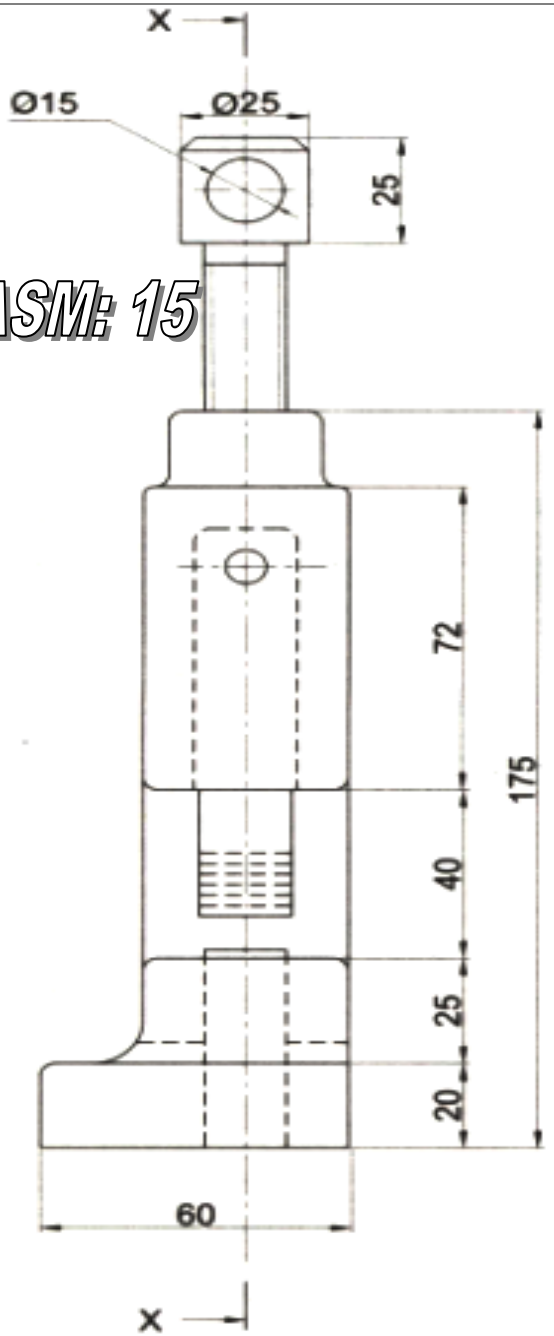


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

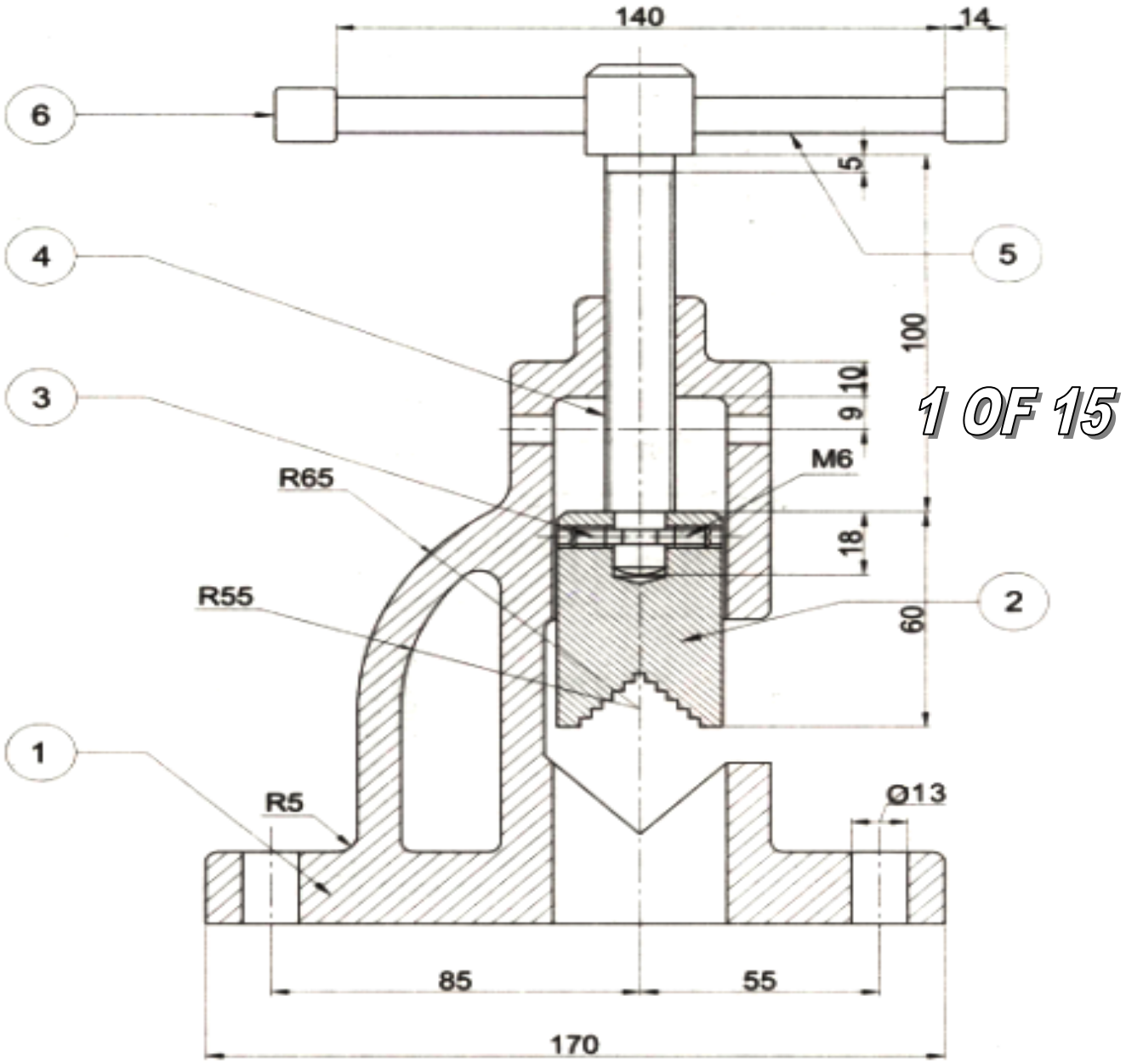
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

ASM: 15

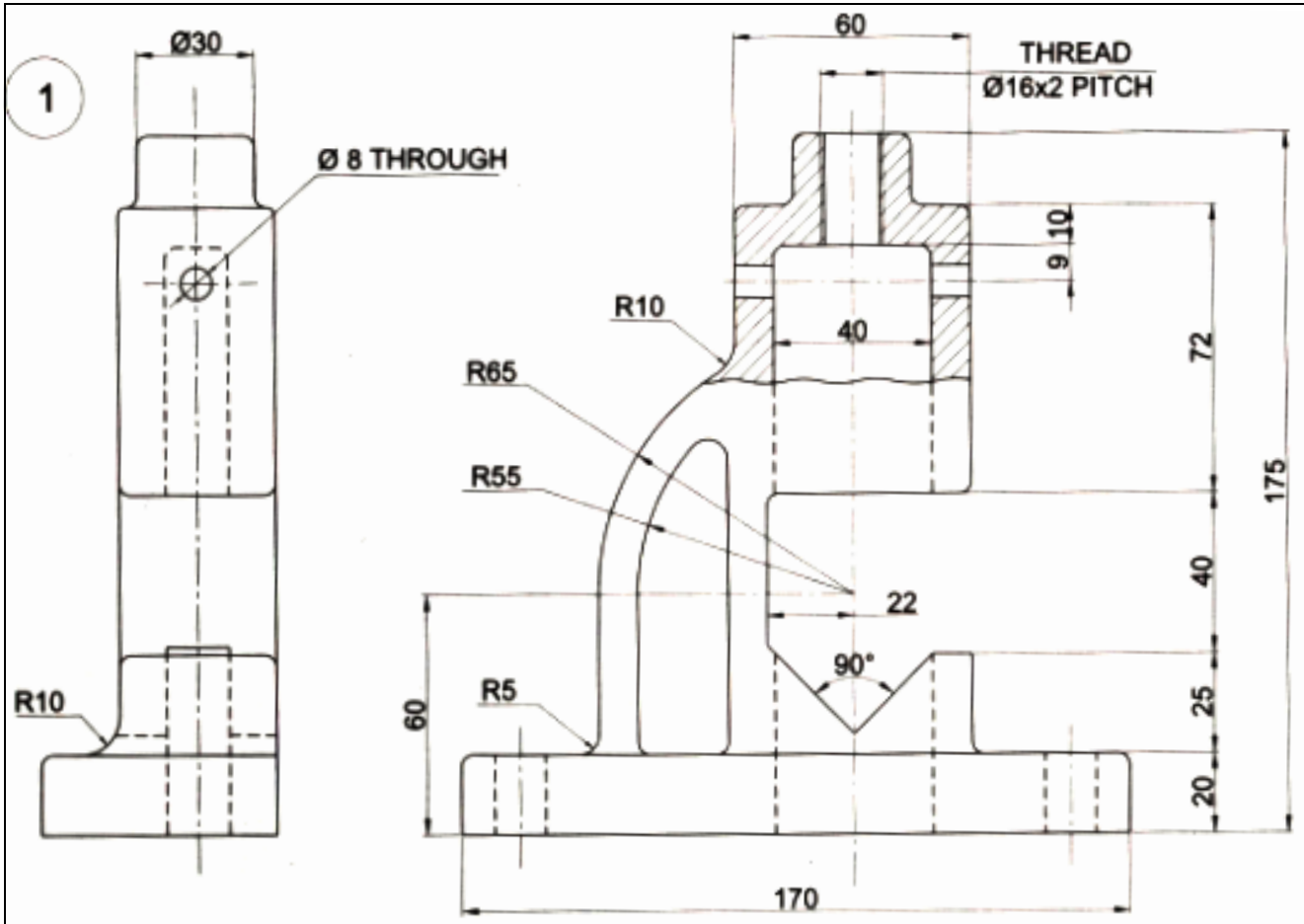


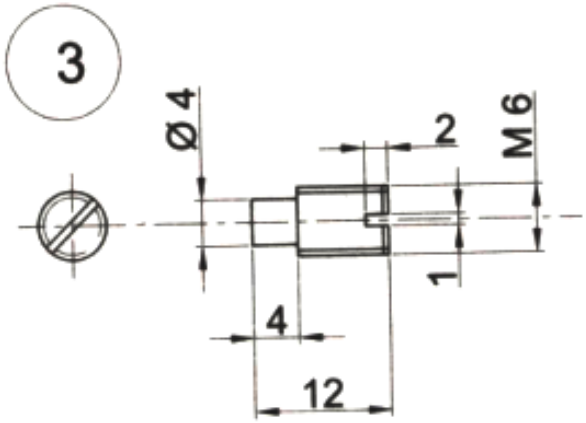
RIGHT SIDE VIEW

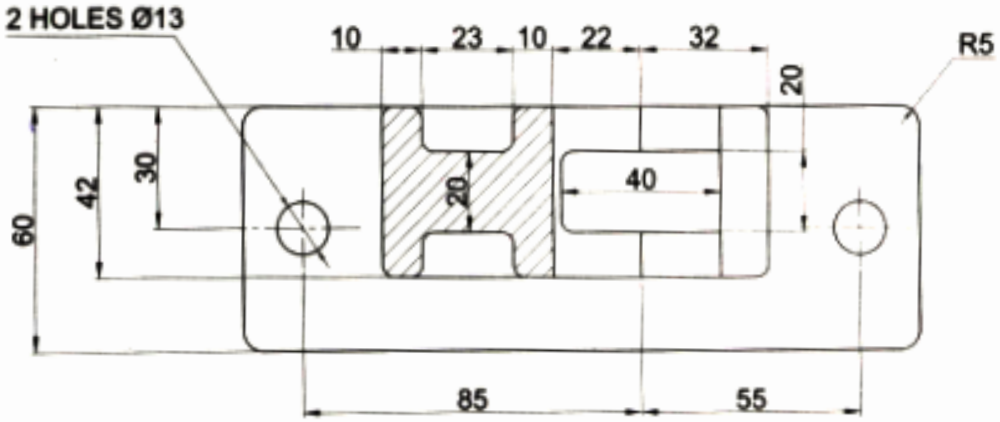


FULL SECTIONAL FRONT VIEW
SECTION XX

1 OF 15



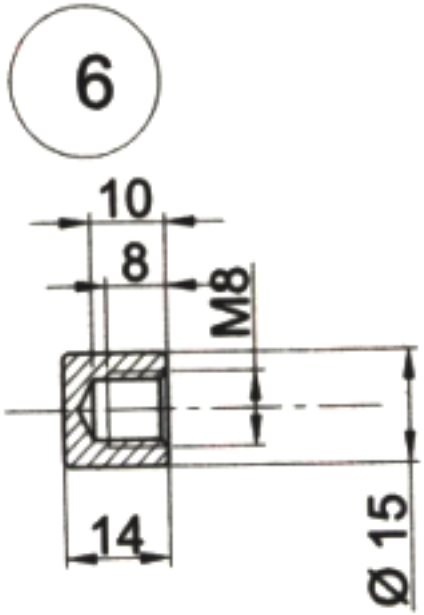


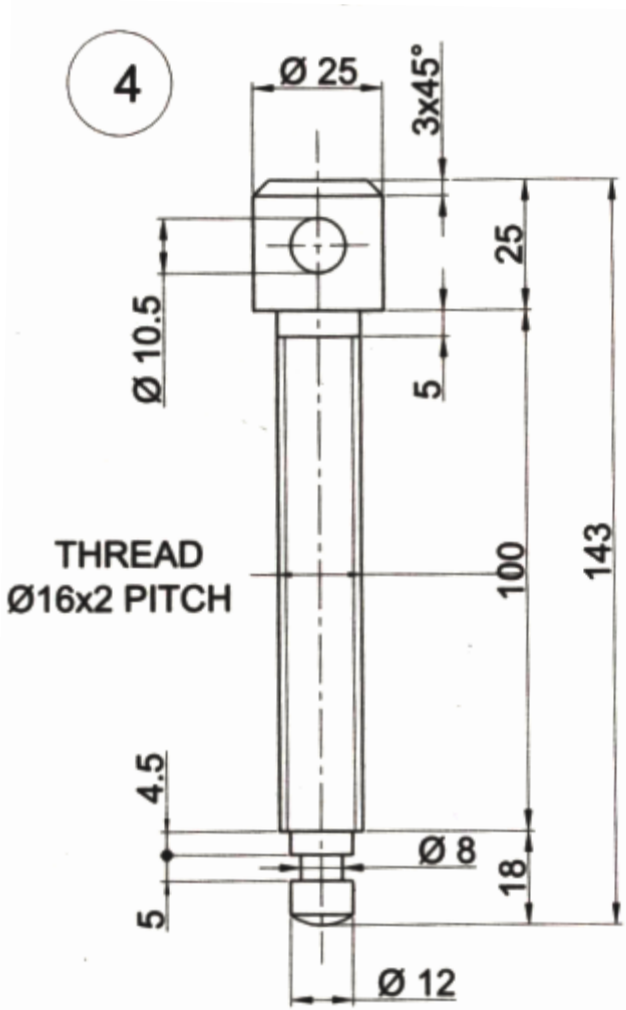


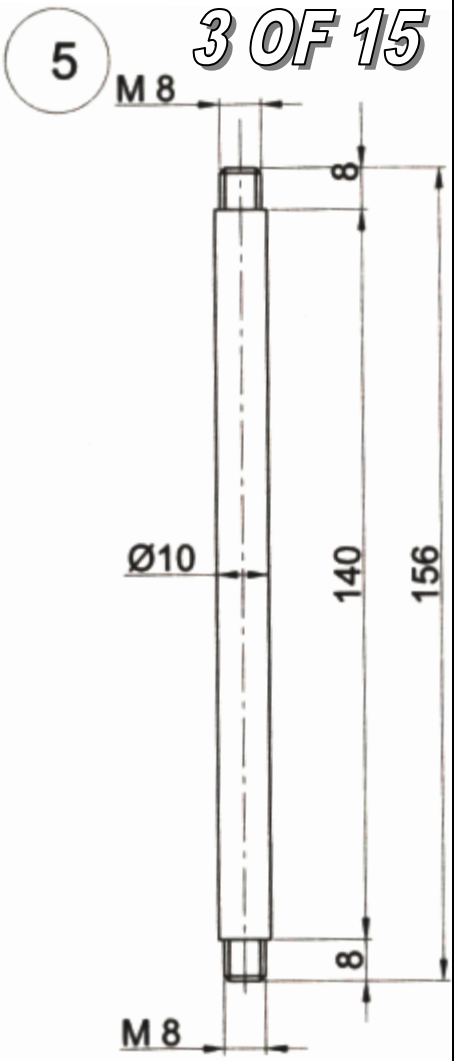
ALL DIMENSIONS IN mm

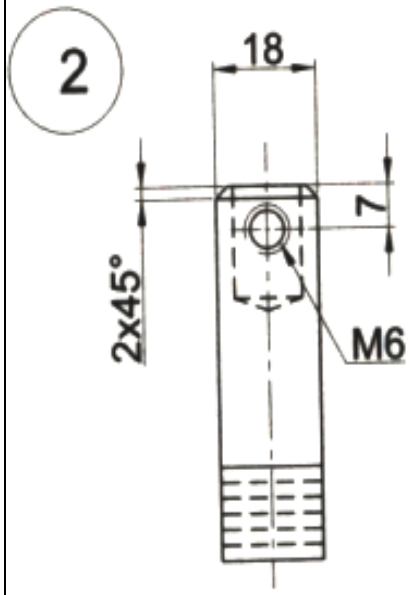
ITEM NO	DESCRIPTION	MATERIAL	NO OFF
6	HANDLE BAR CAP	Fe 410 W	2
5	HAND ROD	Fe 410 W	1
4	SCREW ROD	Fe 410 W	1
3	SET SCREW	Fe 410 W	2
2	MOVABLE JAW	CAST STEEL	1
1	VICE BASE	CAST STEEL	1

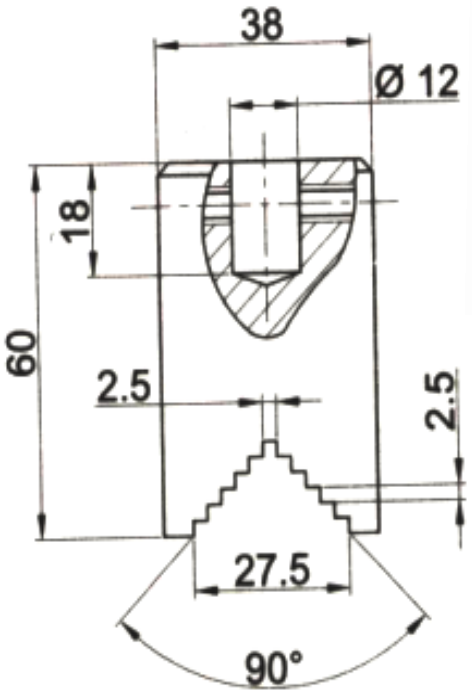
Parts details of pipe vice











ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

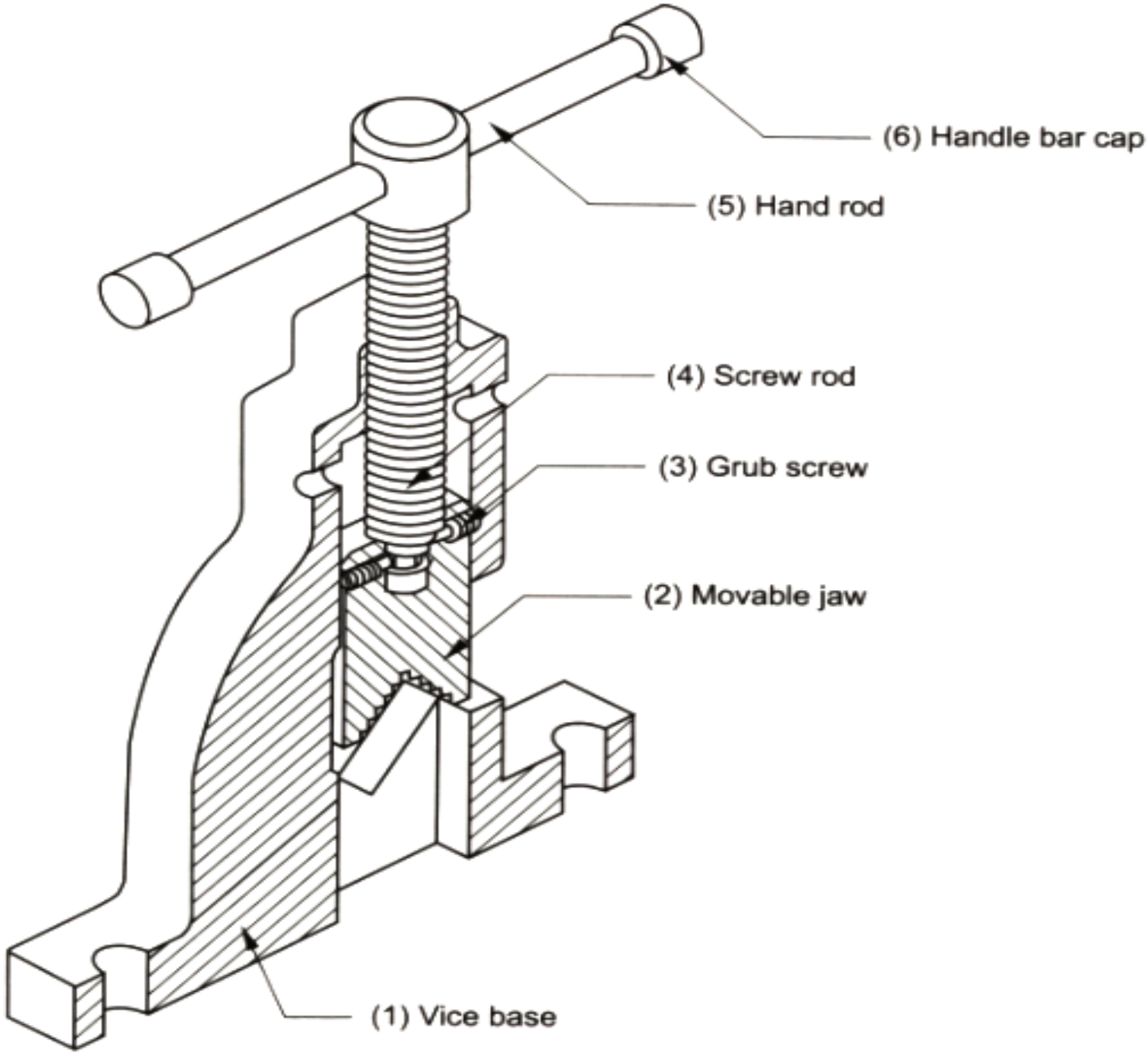


Figure Pipe vice

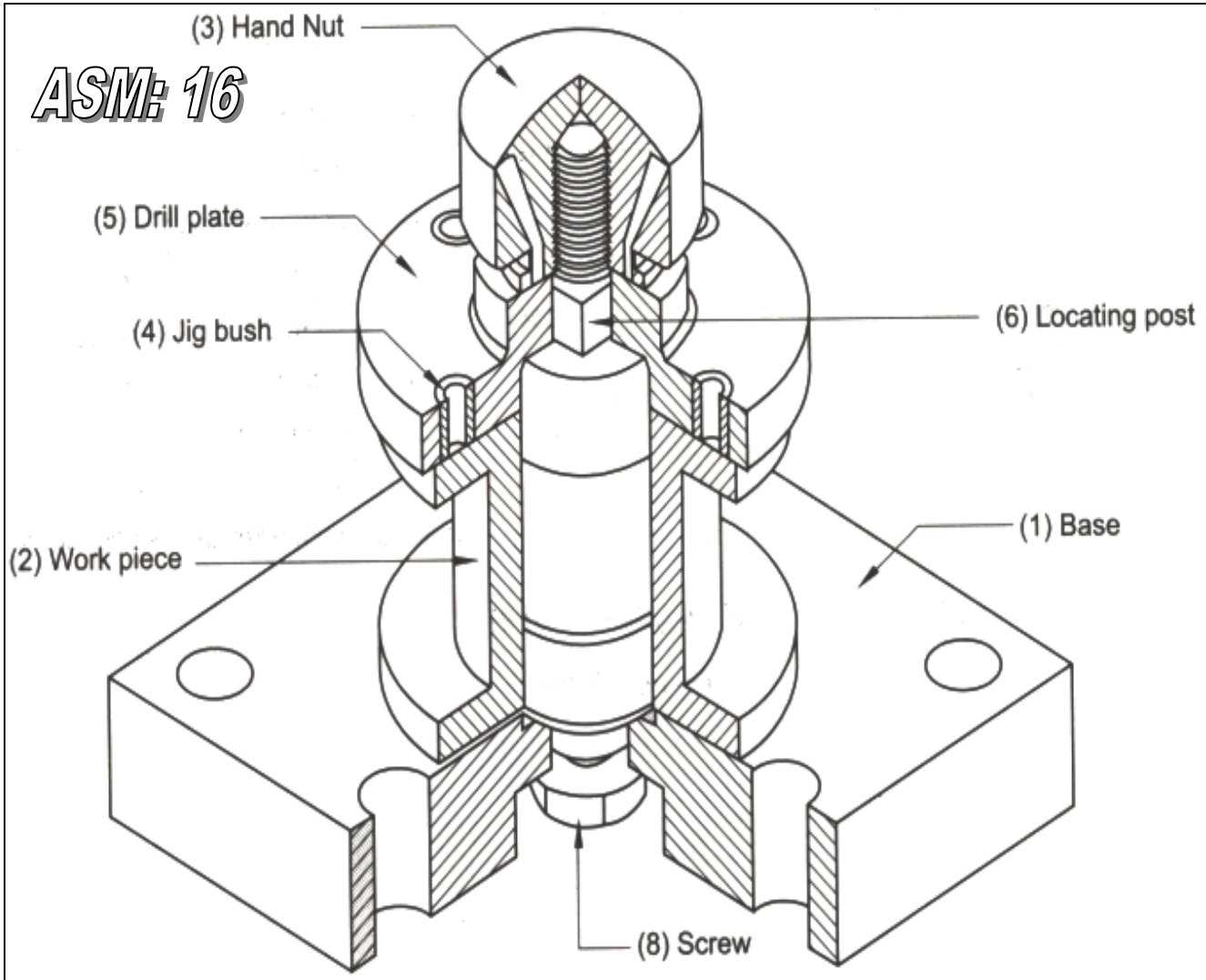


Figure Drill jig

ALL DIMENSIONS IN mm

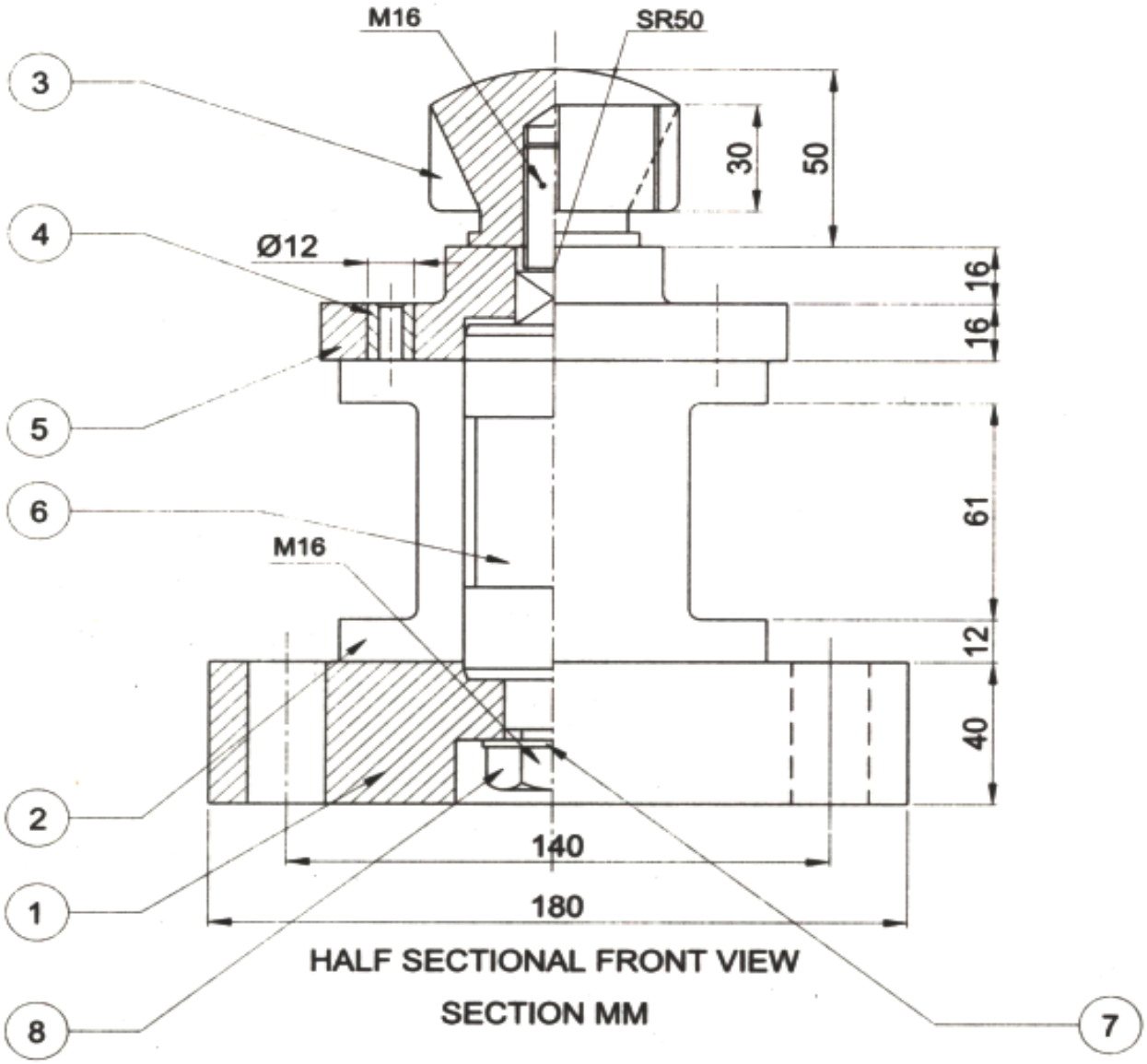
ITEM NO	DESCRITPTION	MATERIAL	NO OFF
8	SCREW	M.S.	1
7	WASHER	M.S.	1
6	LOCATION POST	M.S.	1
5	DRILL PLATE	M.S.	1
4	JIG BUSH	STEEL	4
3	HAND NUT	M.S.	1
2	WORK PIECE	C.I.	1
1	BASE	M.S.	1

Parts details of drill jig

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

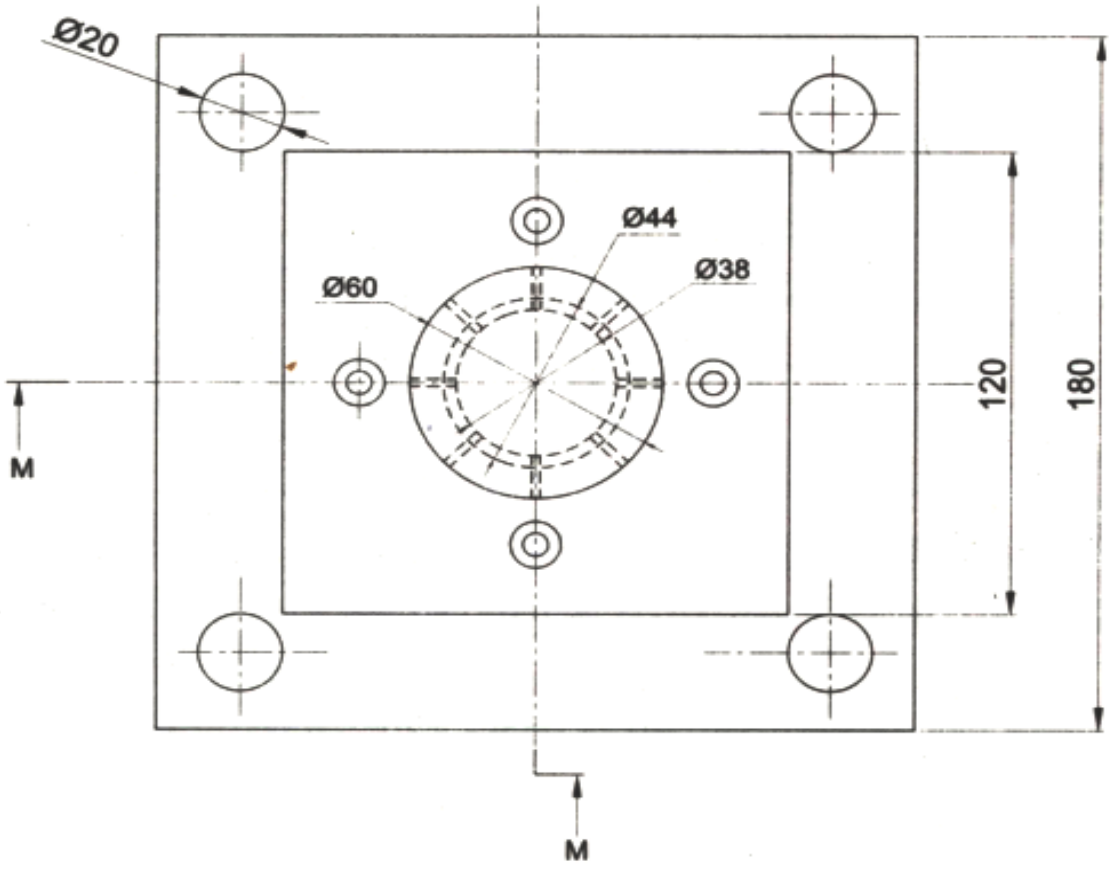
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

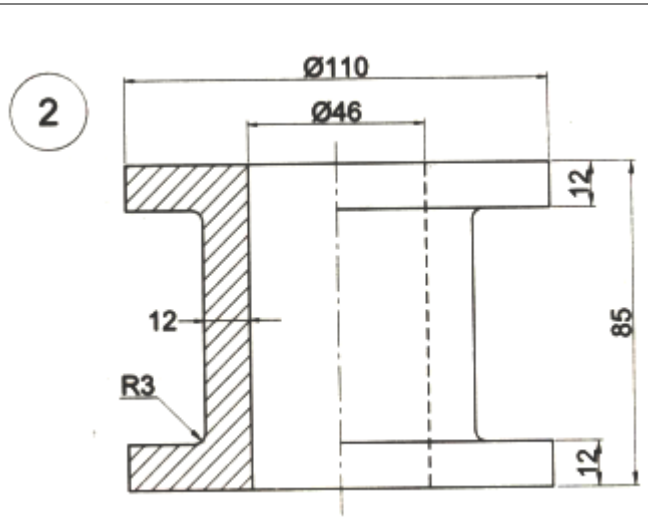


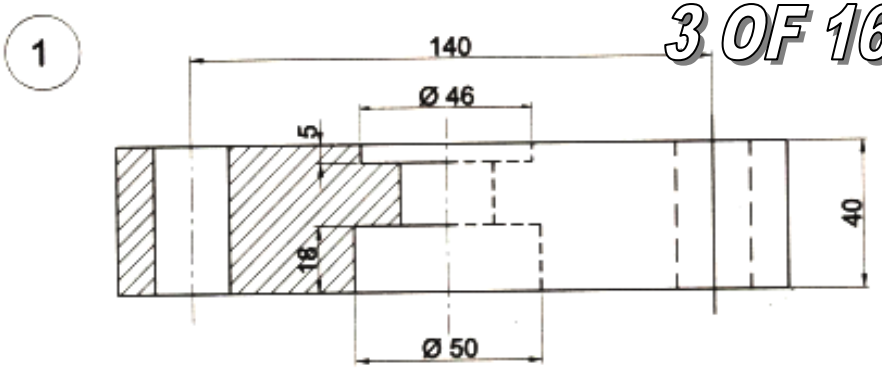
HALF SECTIONAL FRONT VIEW

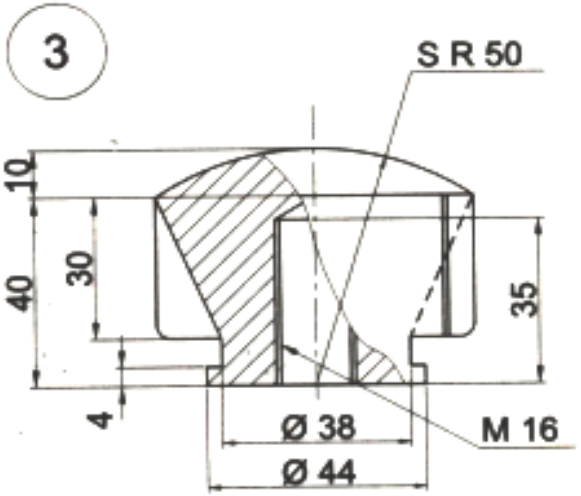
SECTION MM

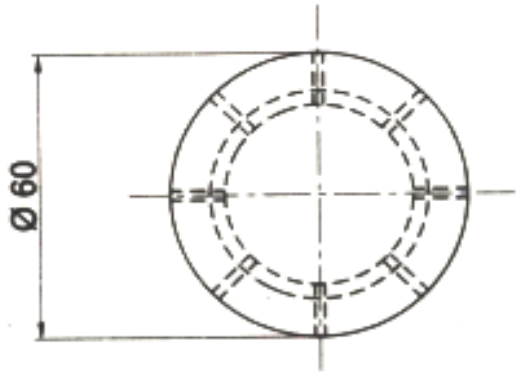


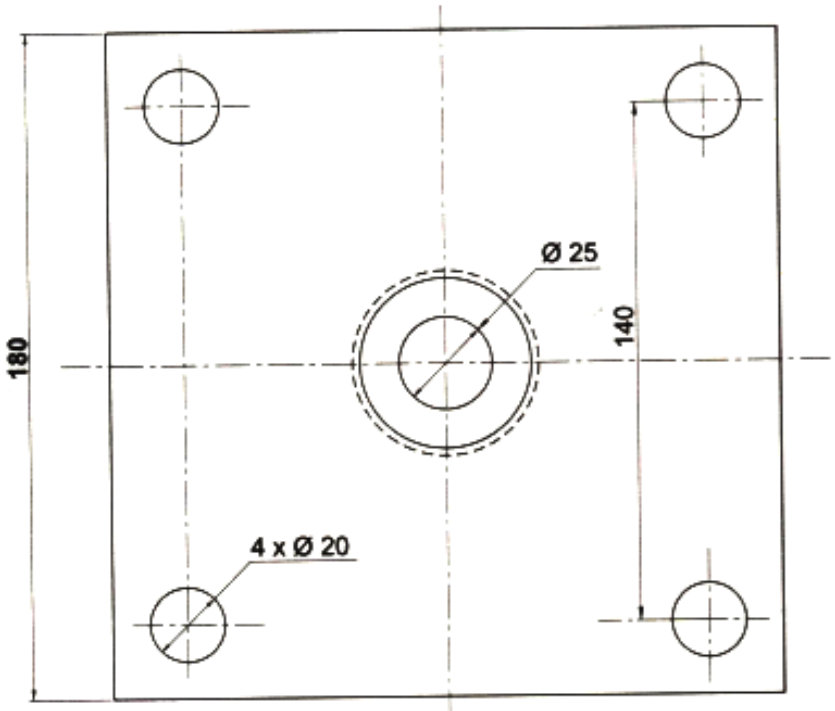
TOP VIEW









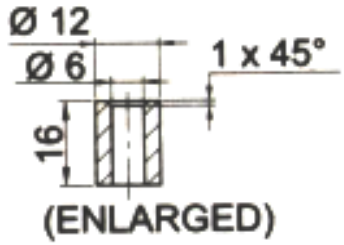


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

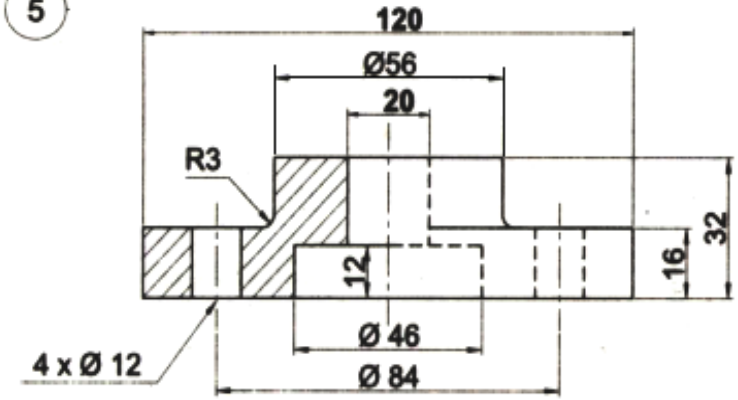
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

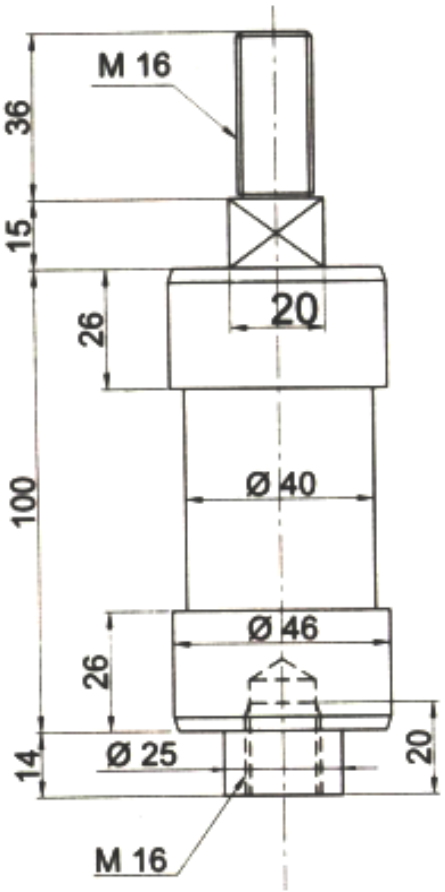
4



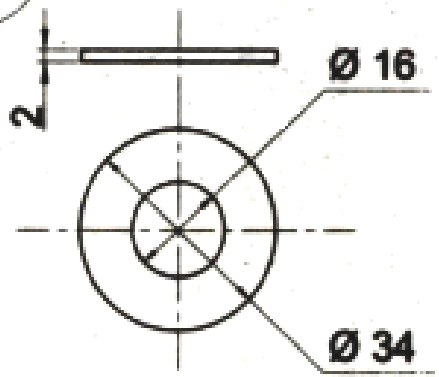
5



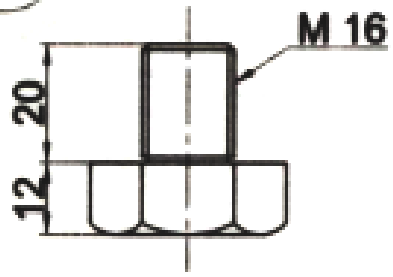
6



7



8



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

ASM: 17

1 OF 17

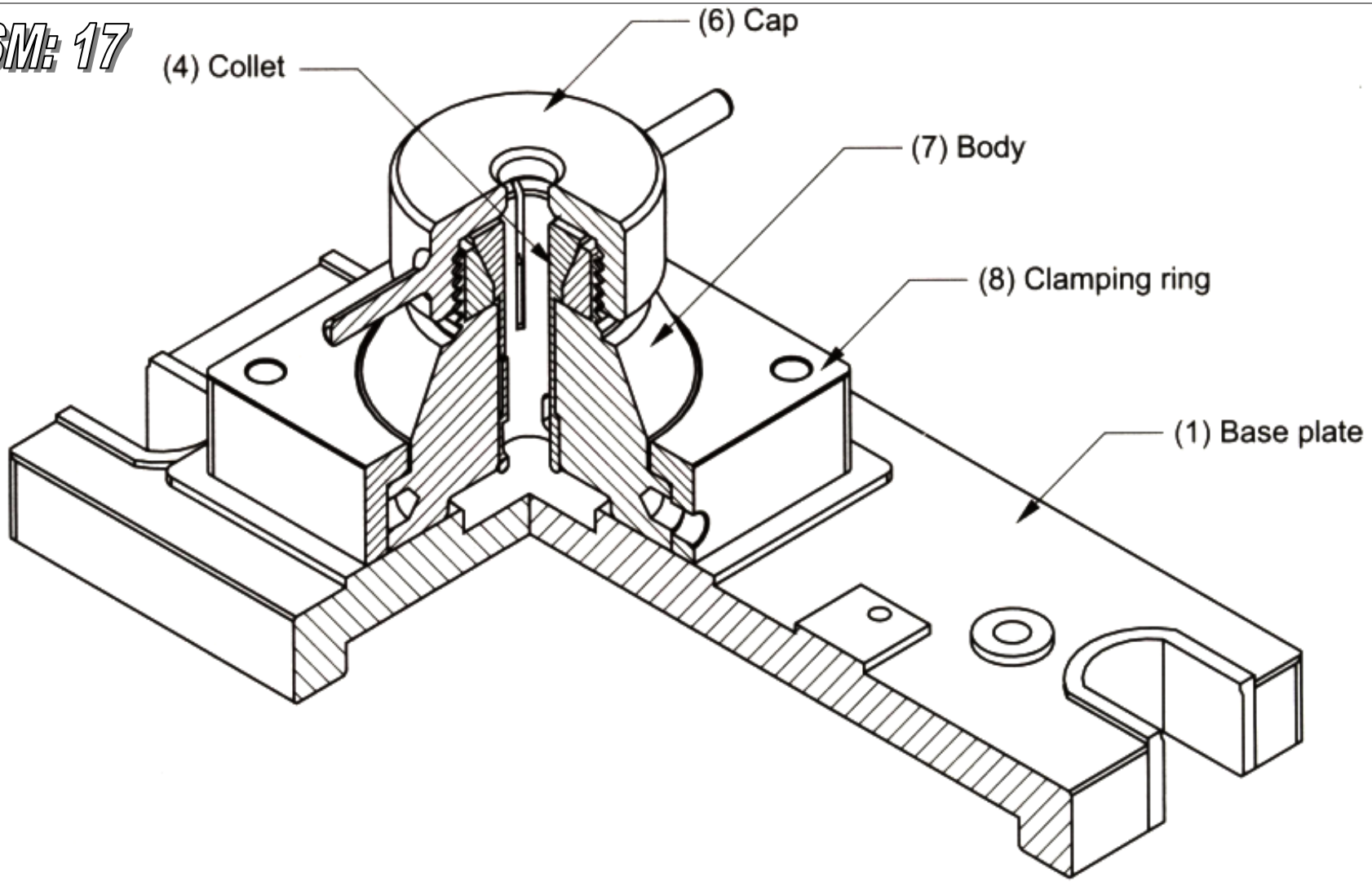
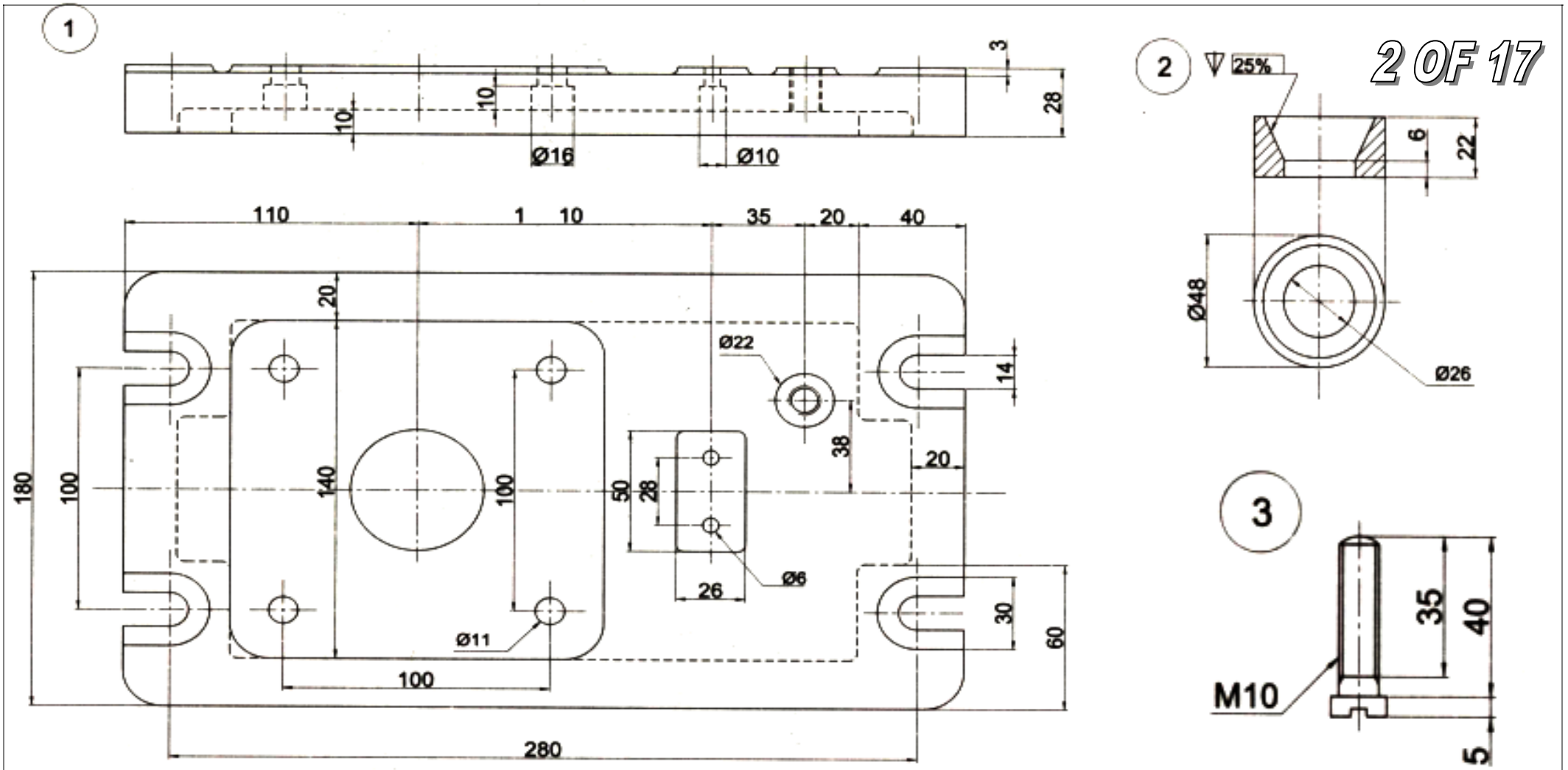


Figure 4.58 Milling fixture

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

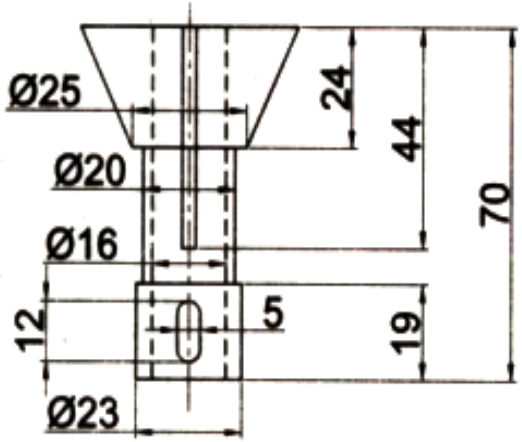


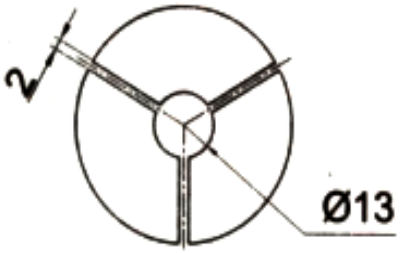
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

4

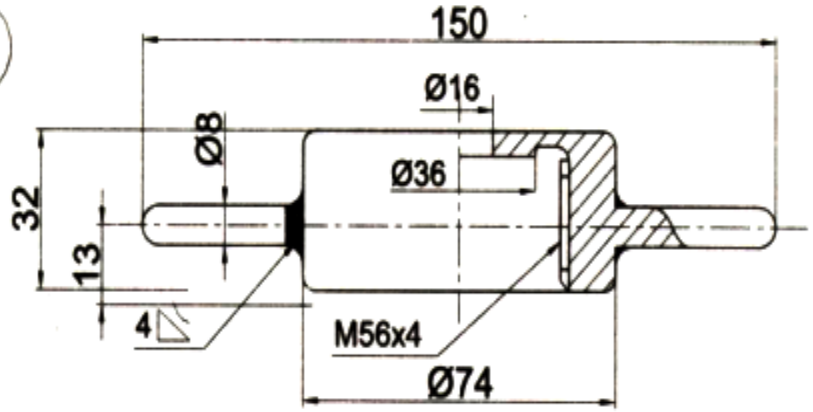




ALL DIMENSIONS IN mm

ITEM NO	DESCRIPTION	MATERIAL	NO OFF
8	CLAMPING RING	STEEL	1
7	BODY	STEEL	1
6	CAP	M.S.	1
5	KEY	M.S.	1
4	COLLET	STEEL	1
3	CAP SCREW	M.S.	4
2	TAPER RING	M.S.	1
1	BASE PLATE	C.I.	1

6



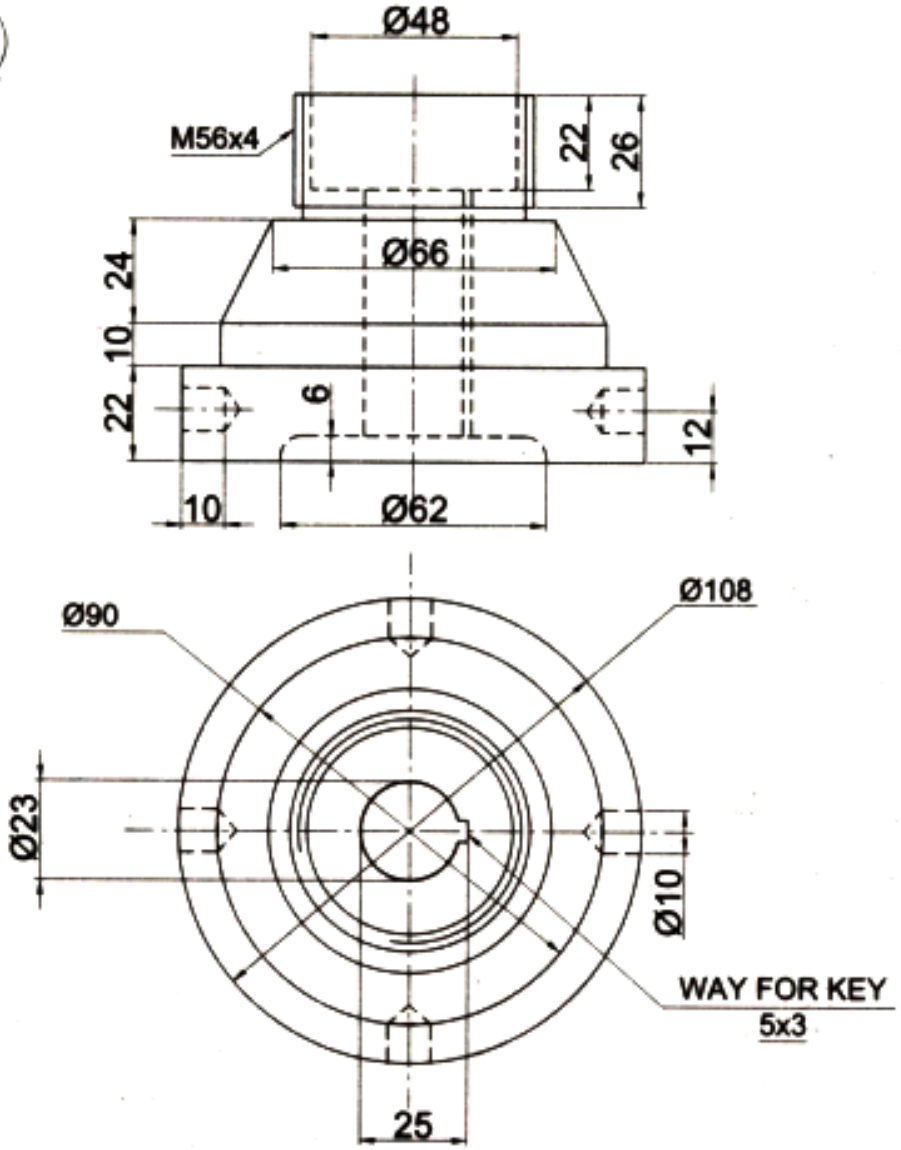
Parts details of milling fixture (Indexing type)

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

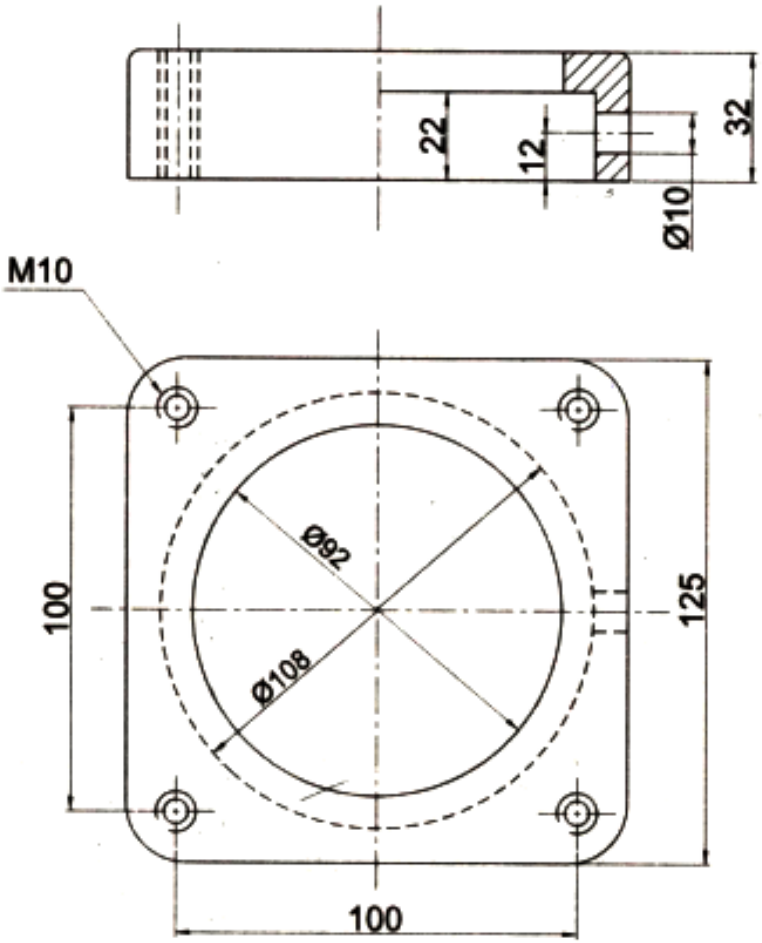
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

7



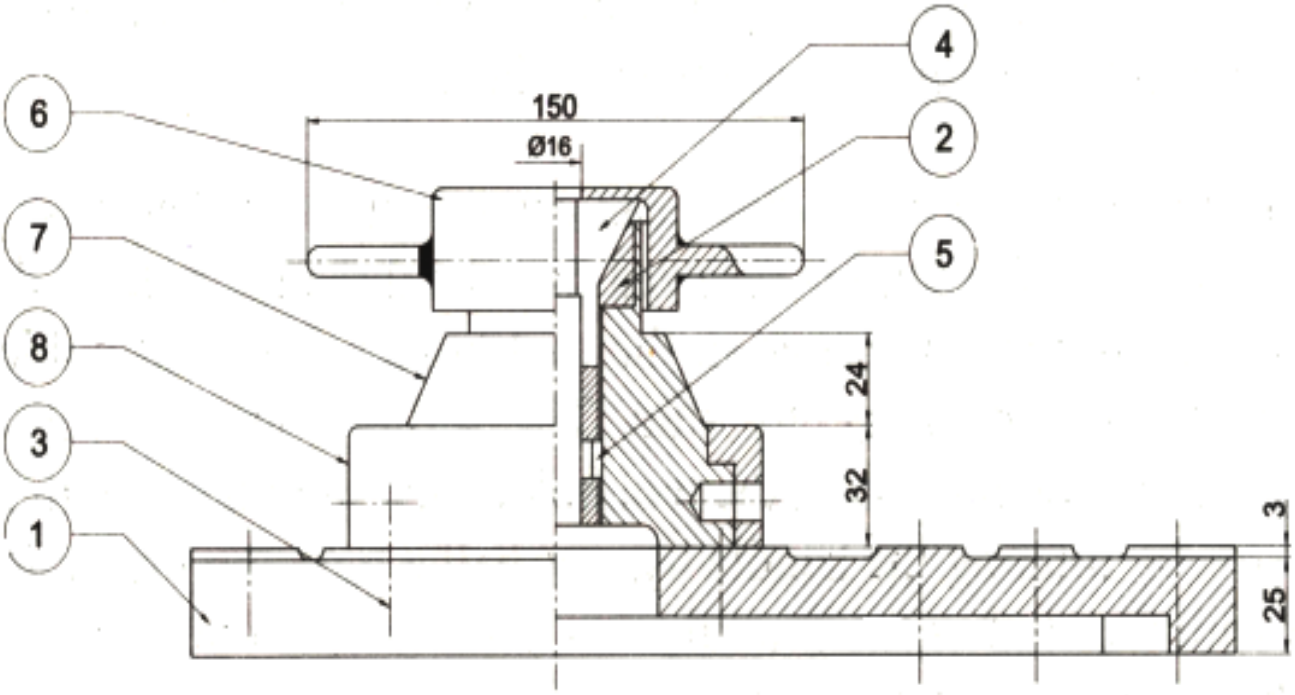
8



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

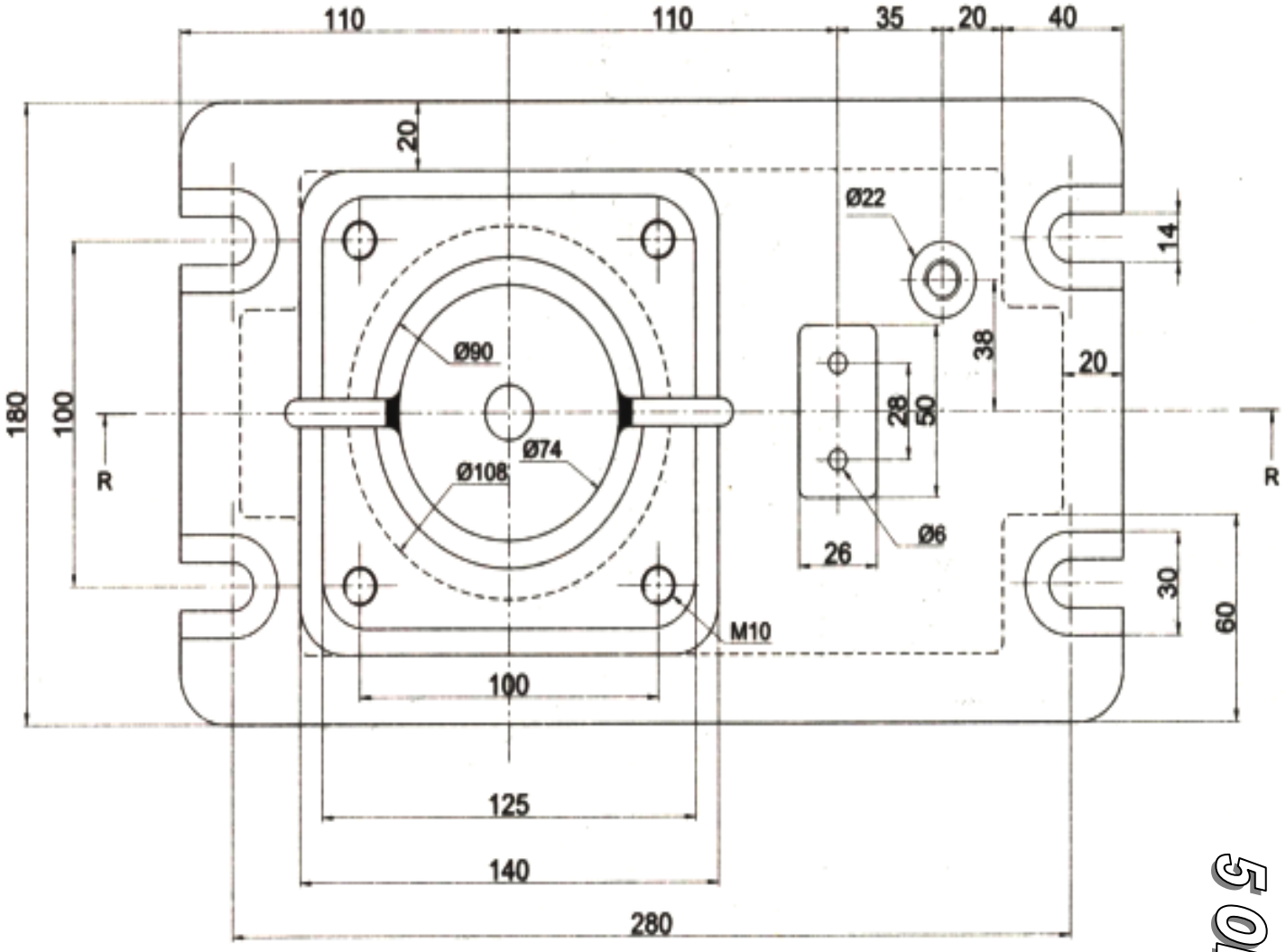
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



HALF SECTIONAL FRONT VIEW

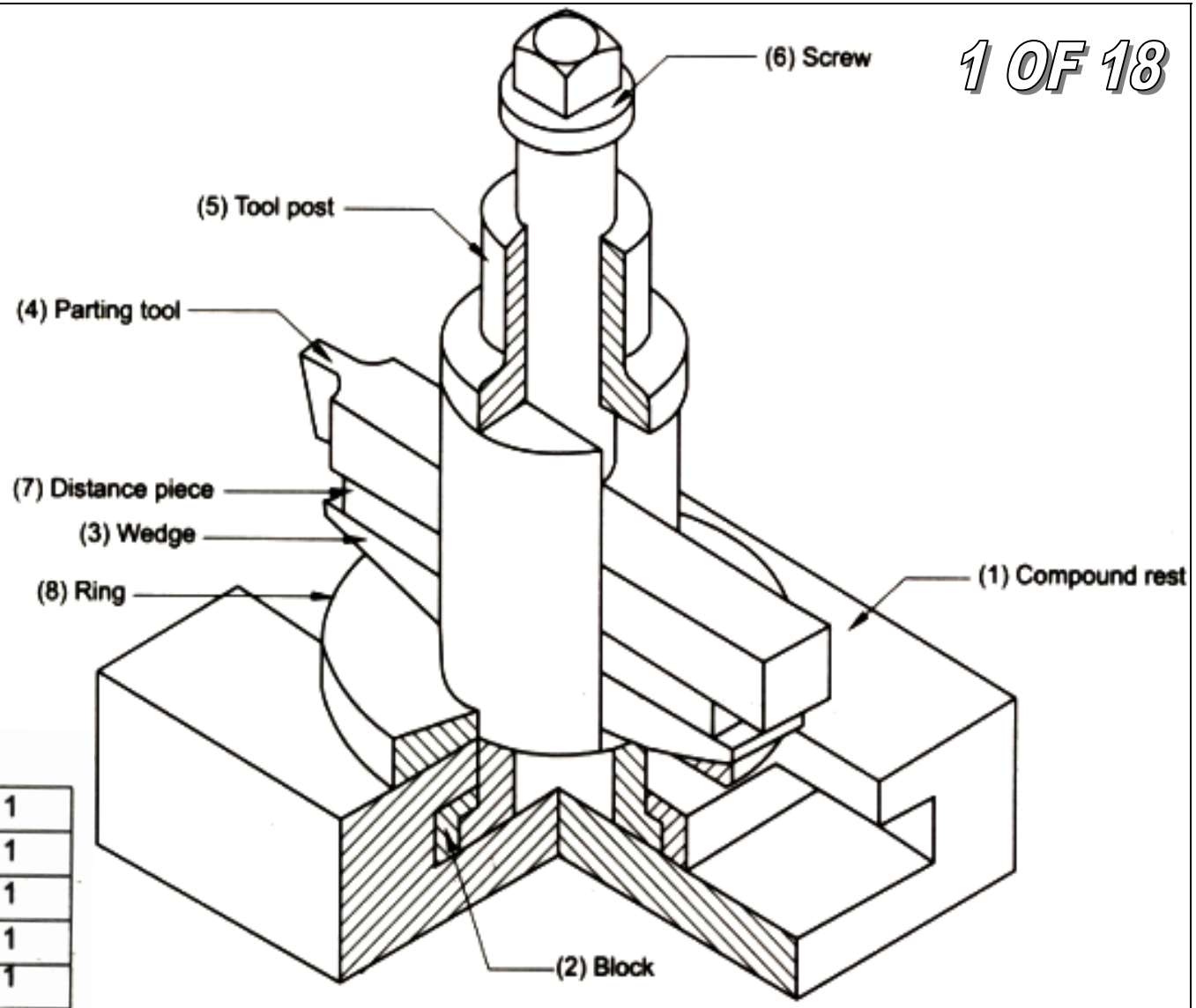
SECTION RR



TOP VIEW

Milling fixture (indexing type)

ASM: 18



ALL DIMENSIONS IN mm

ITEM NO	DISCRIPTION	MATERIAL	NO OFF
8	RING	C.I	1
7	DISTANCE PIECE	M.S.	1
6	SCREW	STEEL	1
5	TOOL POST	STEEL	1
4	PARTING TOOL	H.S.S.	1
3	WEDGE	STEEL	1
2	BLOCK	M.S.	1
1	COMPOUND REST	C.I.	1

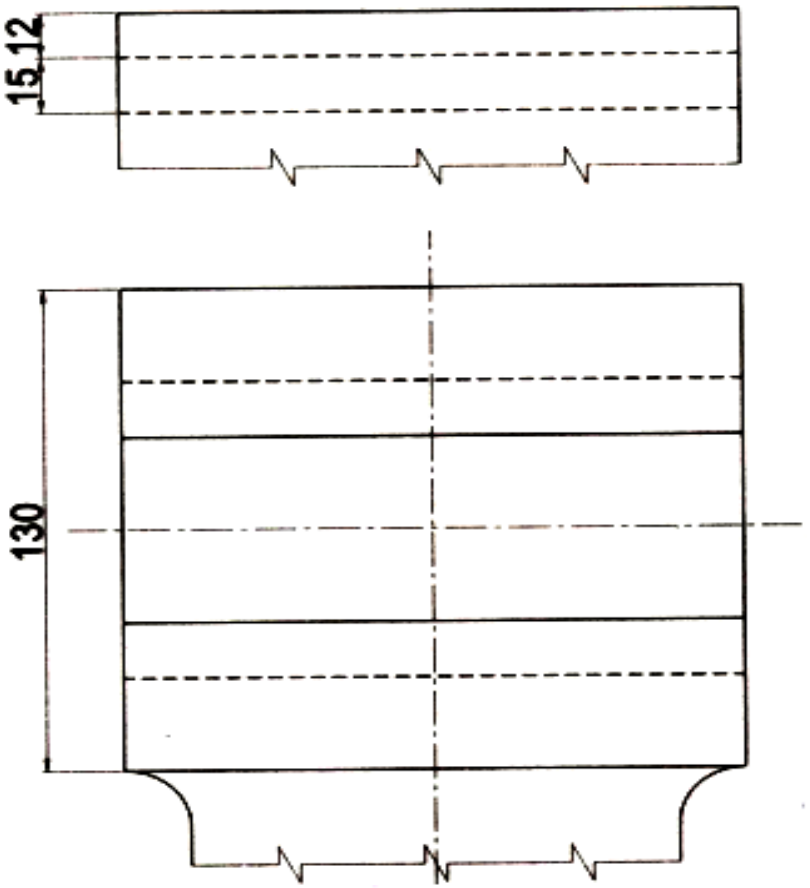
Parts details of lathe toolpost - single

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

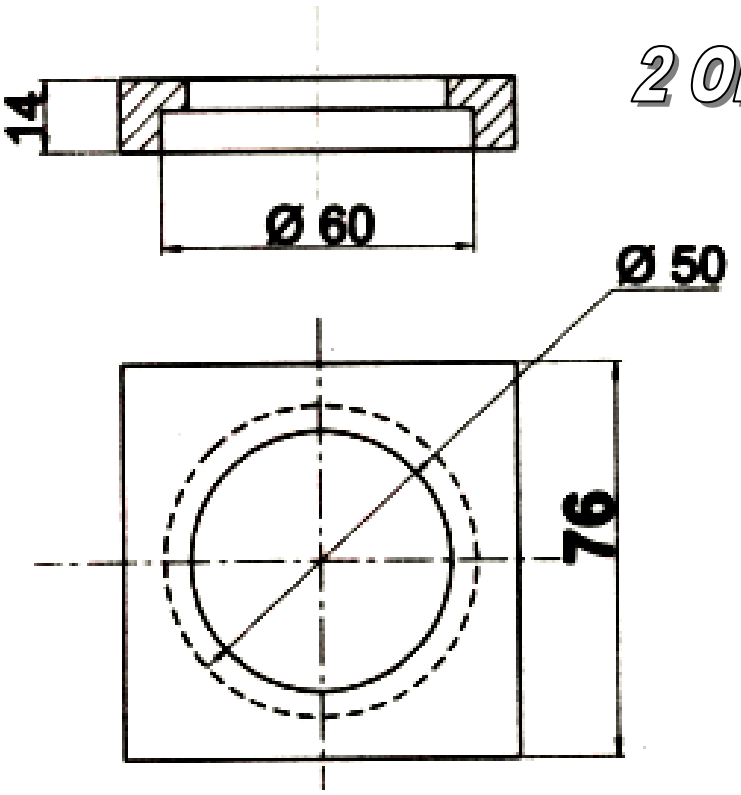
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

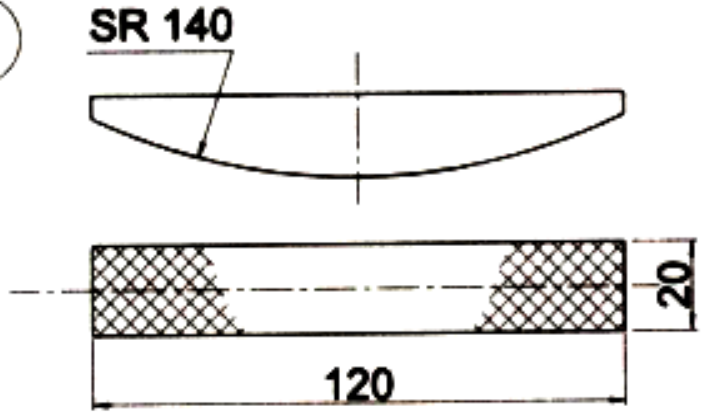
1



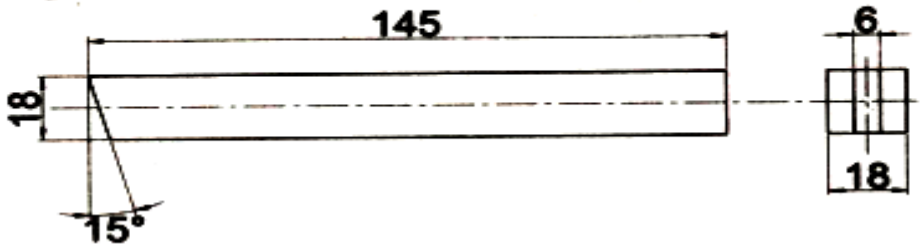
2



3



4

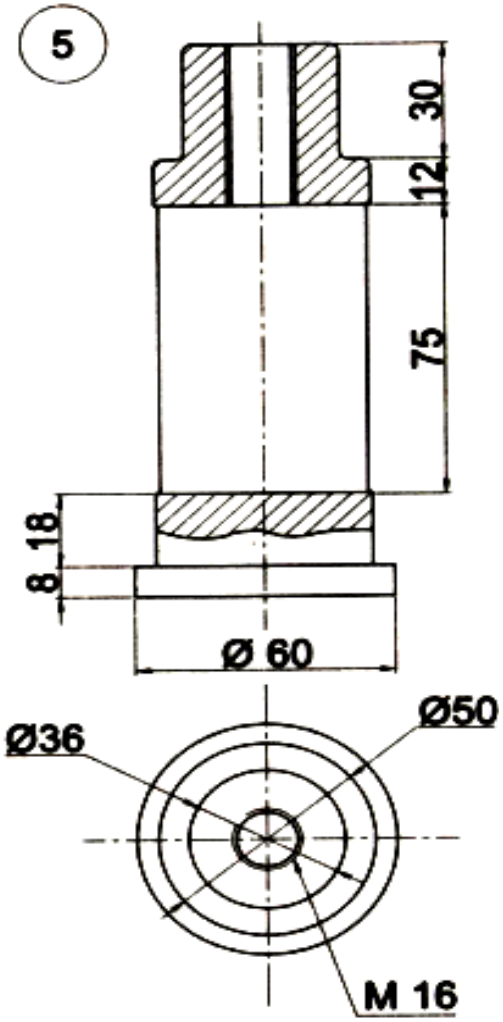


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

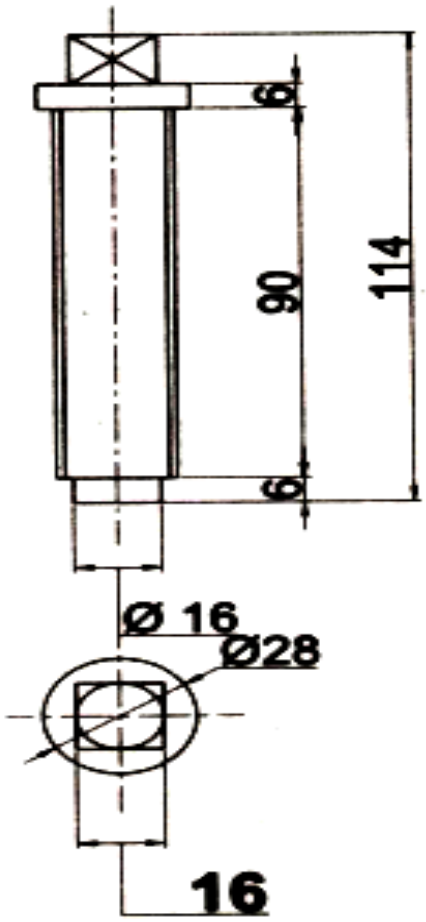
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

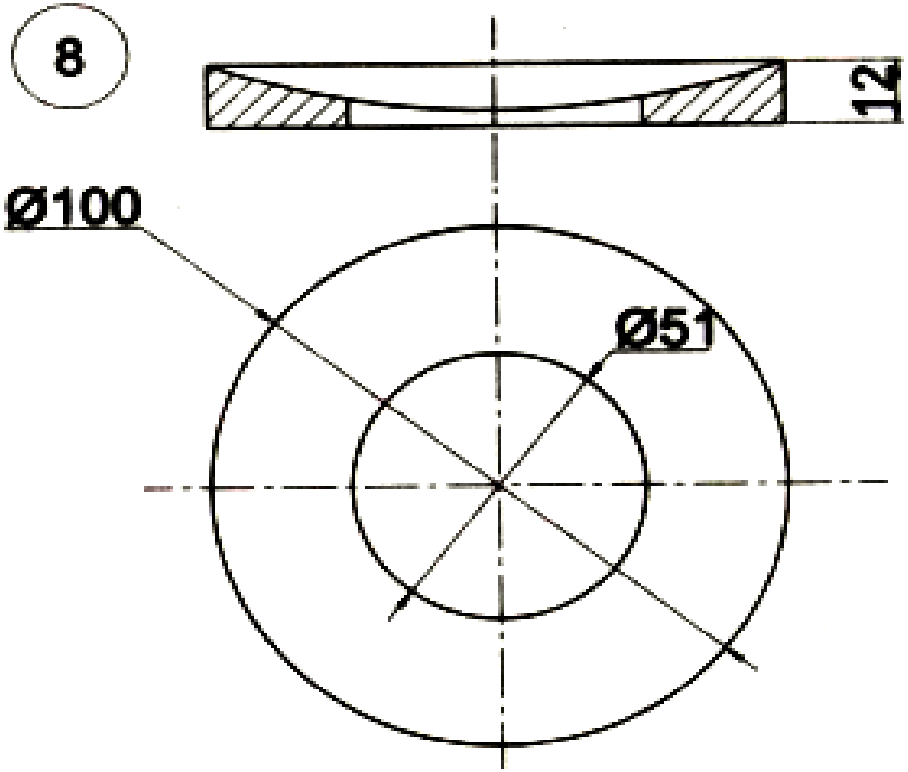
5



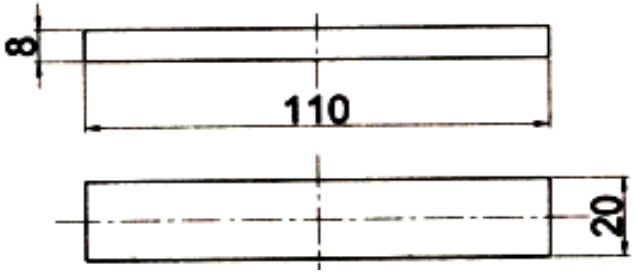
6



8



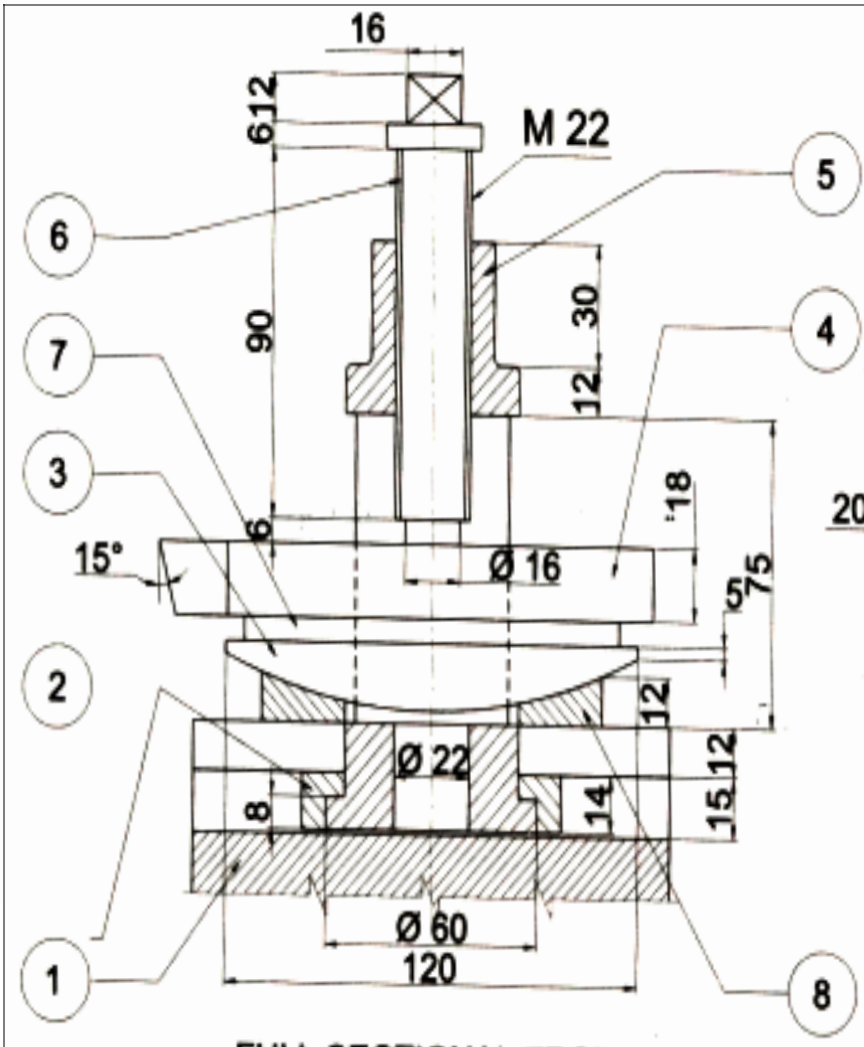
7



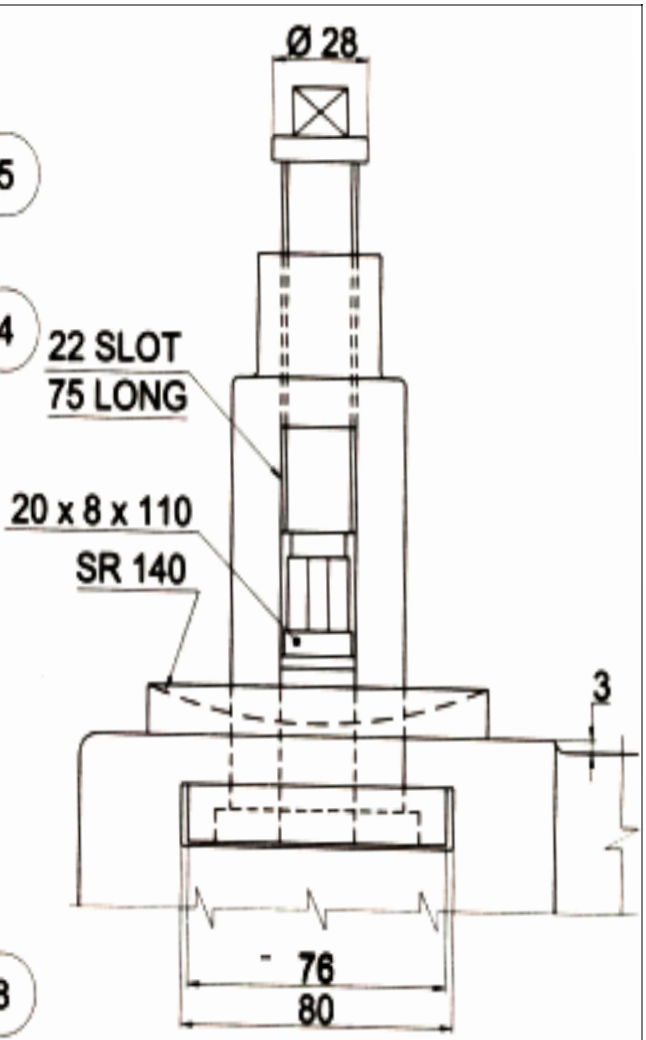
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

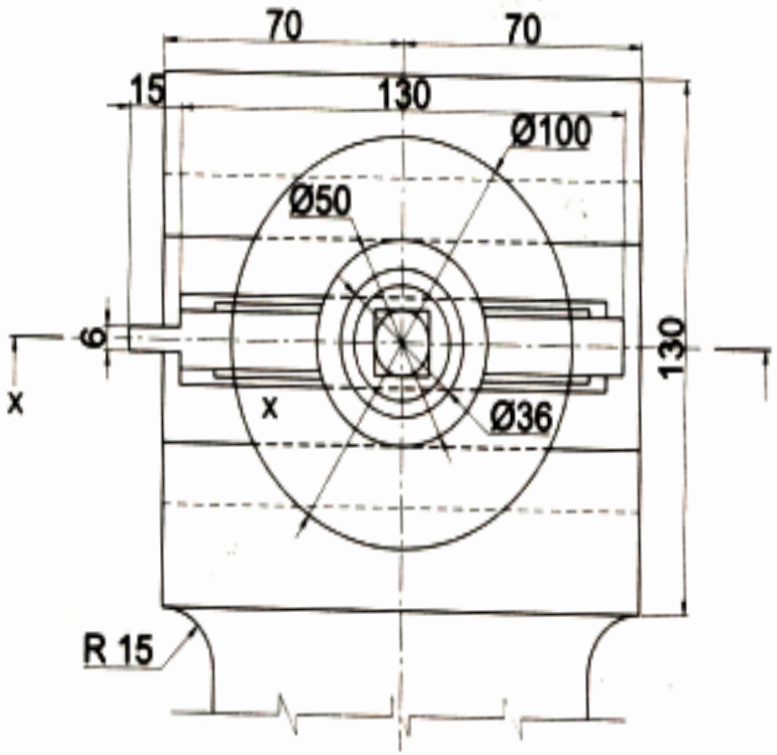
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



FULL SECTIONAL FRONT VIEW
SECTION XX



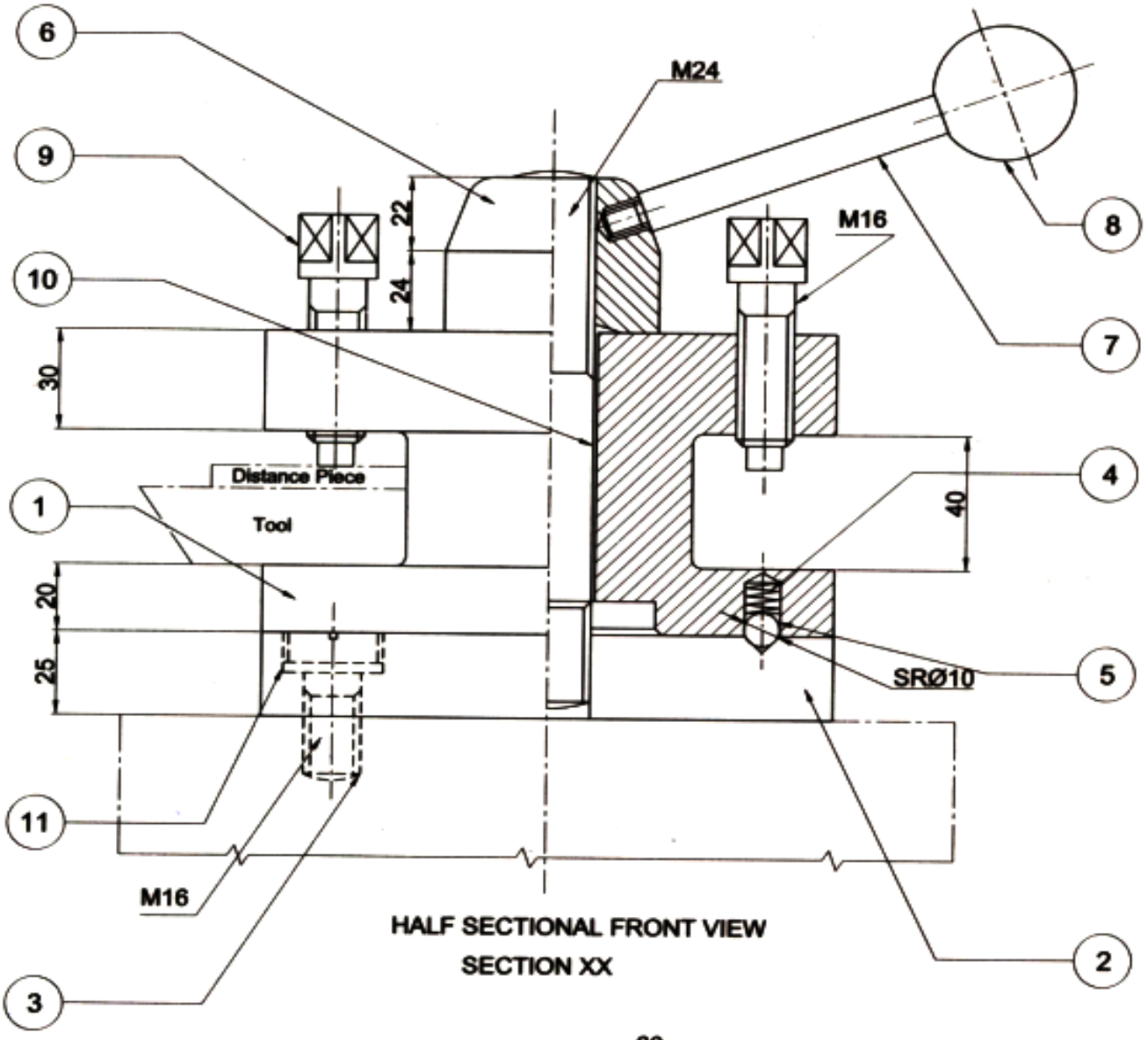
LEFT SIDE VIEW



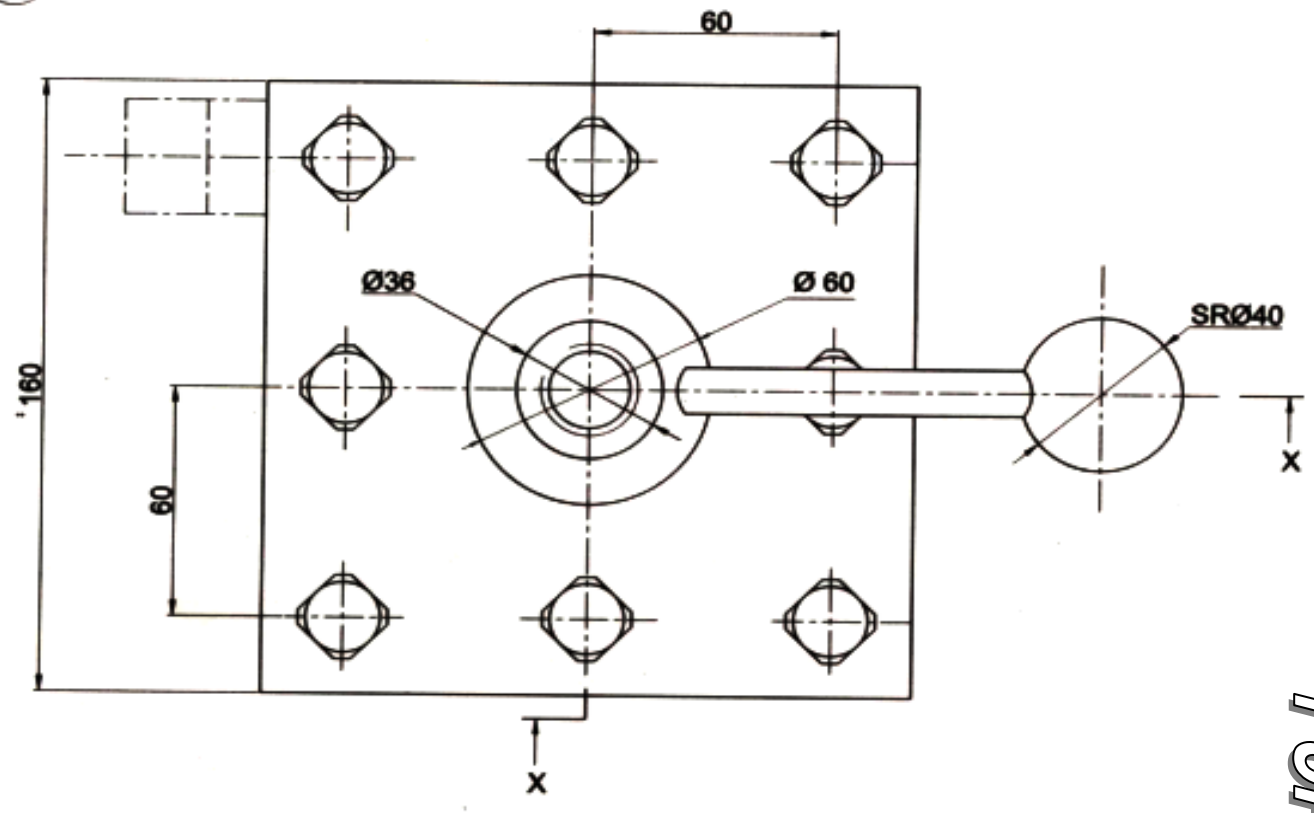
TOP VIEW

Lathe toolpost - single

4 OF 18



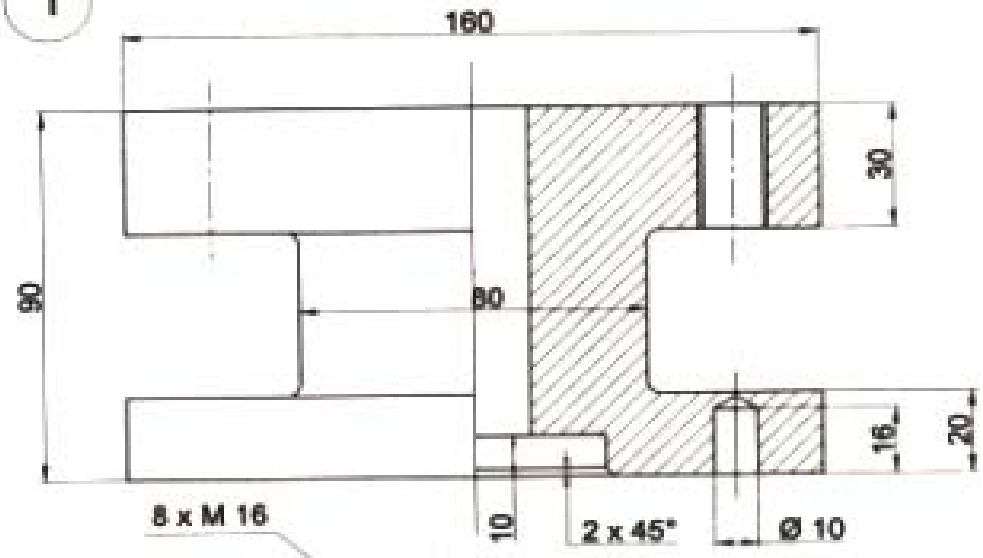
HALF SECTIONAL FRONT VIEW
SECTION XX

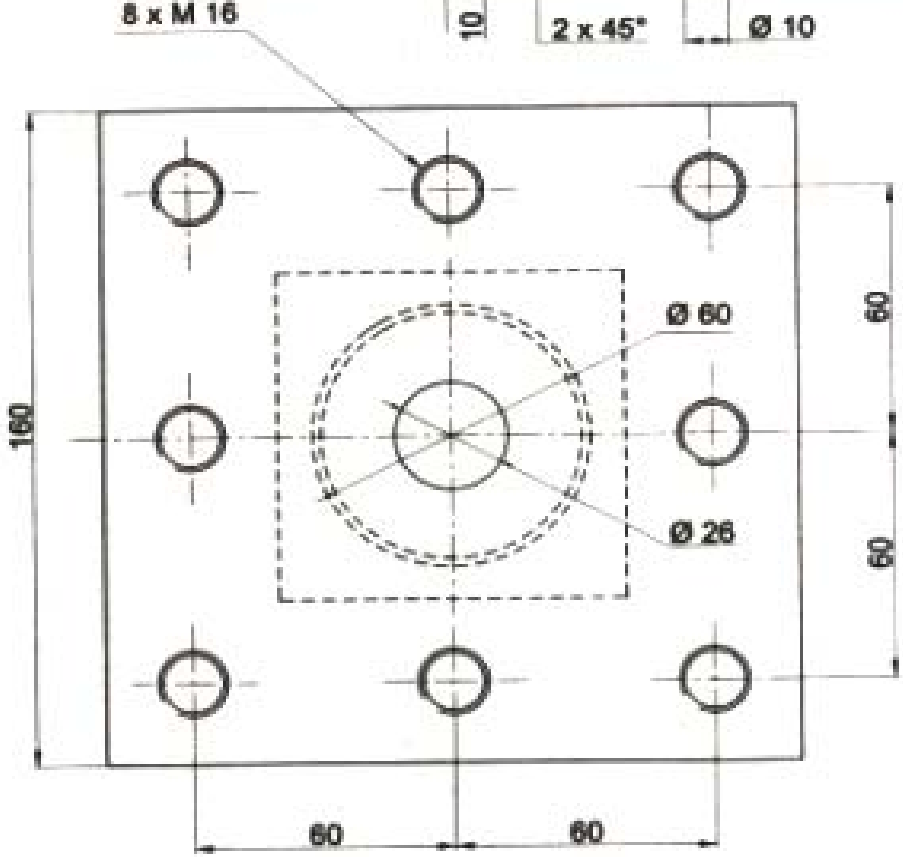


TOP VIEW

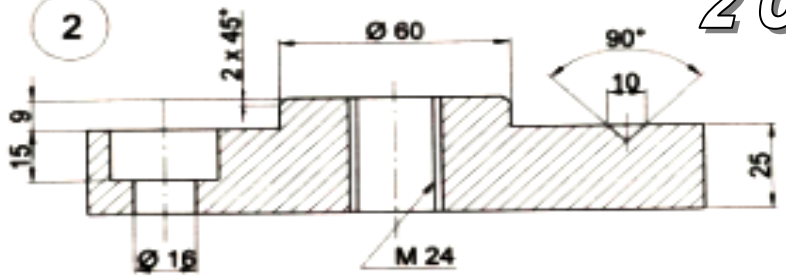
Lathe toolpost - multiple

1

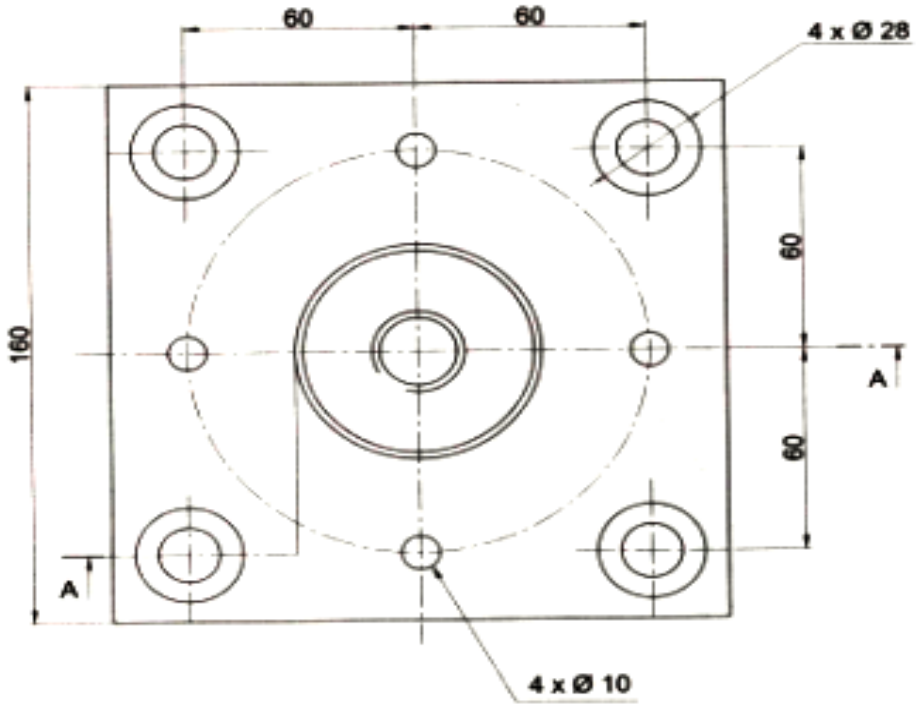




2



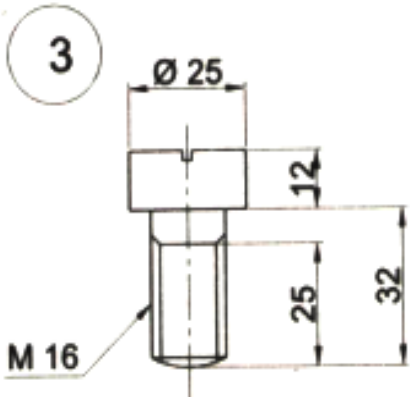
Section A - A

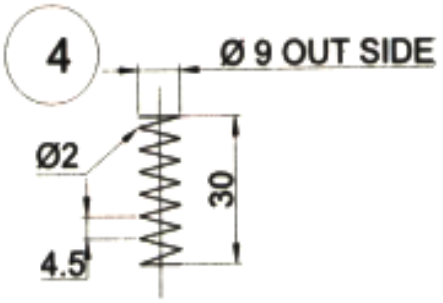


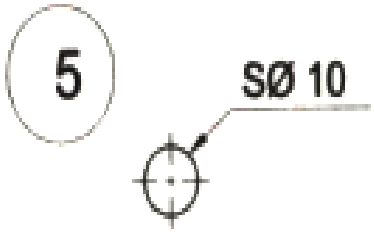
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

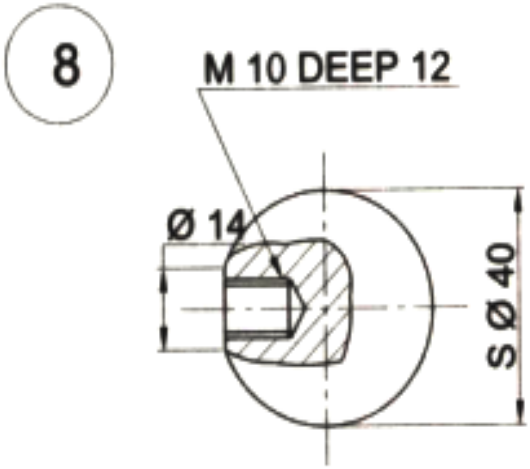
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

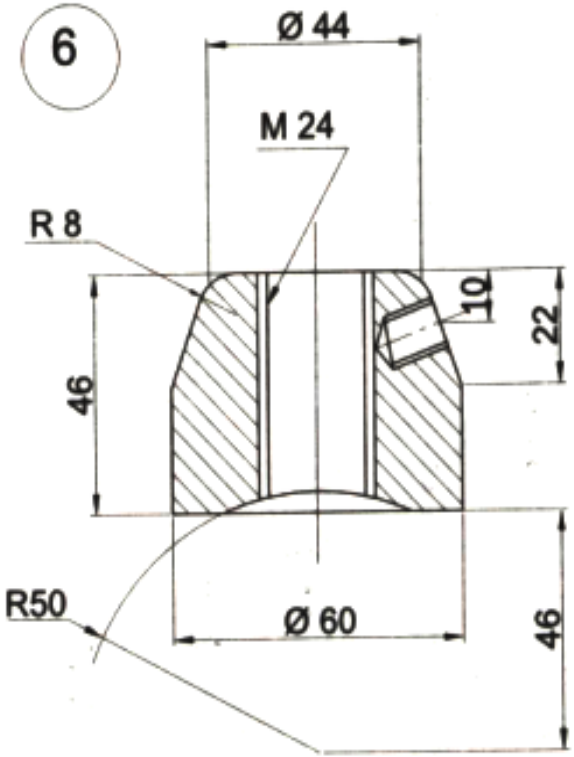
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.











ALL DIMENSIONS IN mm

ITEM NO	DESCRIPTION	MATERIAL	NO OFF
11	WASHER	M.S.	1
10	STUD	M.S.	1
9	SCREW (SQUARE HEADED)	M.S.	8
8	KNOB	EBONITE	1
7	HANDLE	M.S.	1
6	CLAMPING NUT	STEEL	1
5	BALL	STEEL	1
4	SPRING	STEEL	1
3	GRUB SCREW	M.S.	4
2	BASE PLATE	STEEL	4
1	TOOL HOLDER	STEEL	1

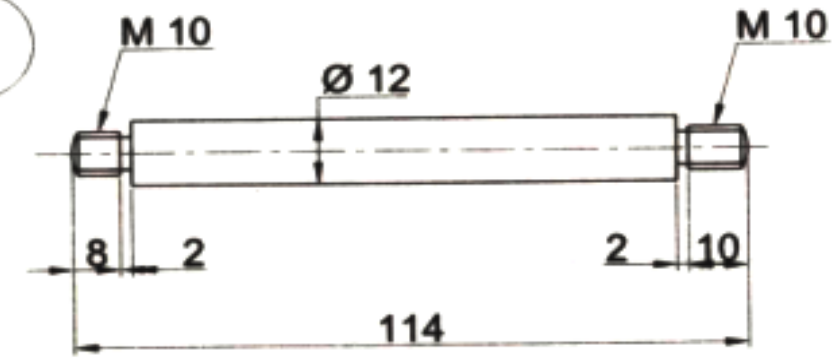
Parts details of lathe tool post - multiple

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

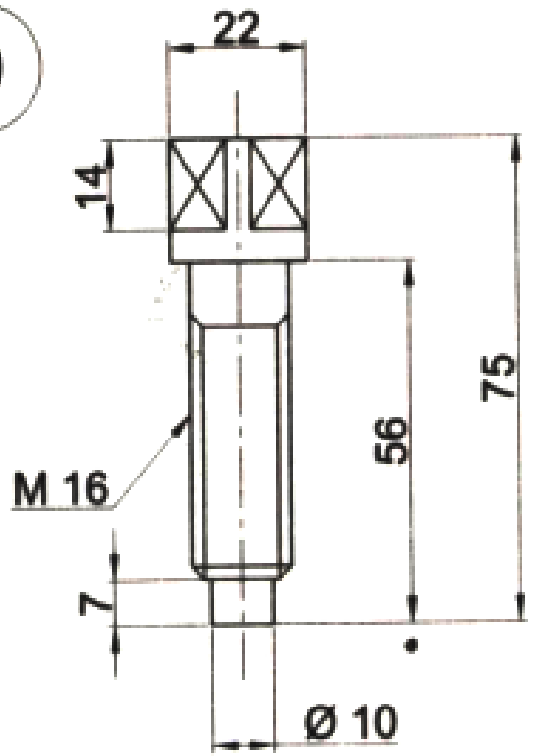
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

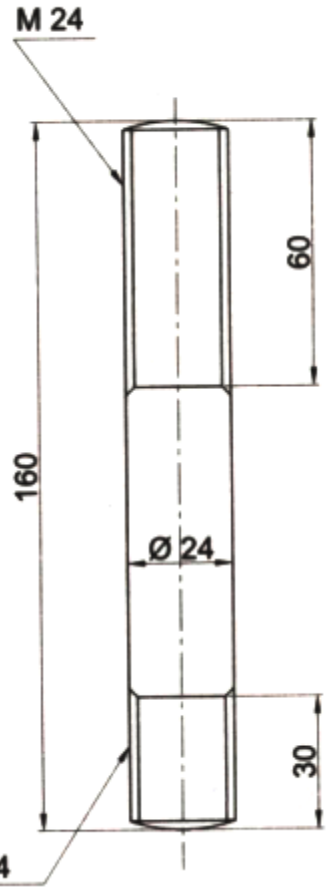
7



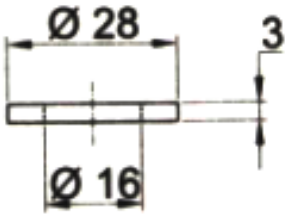
9



10



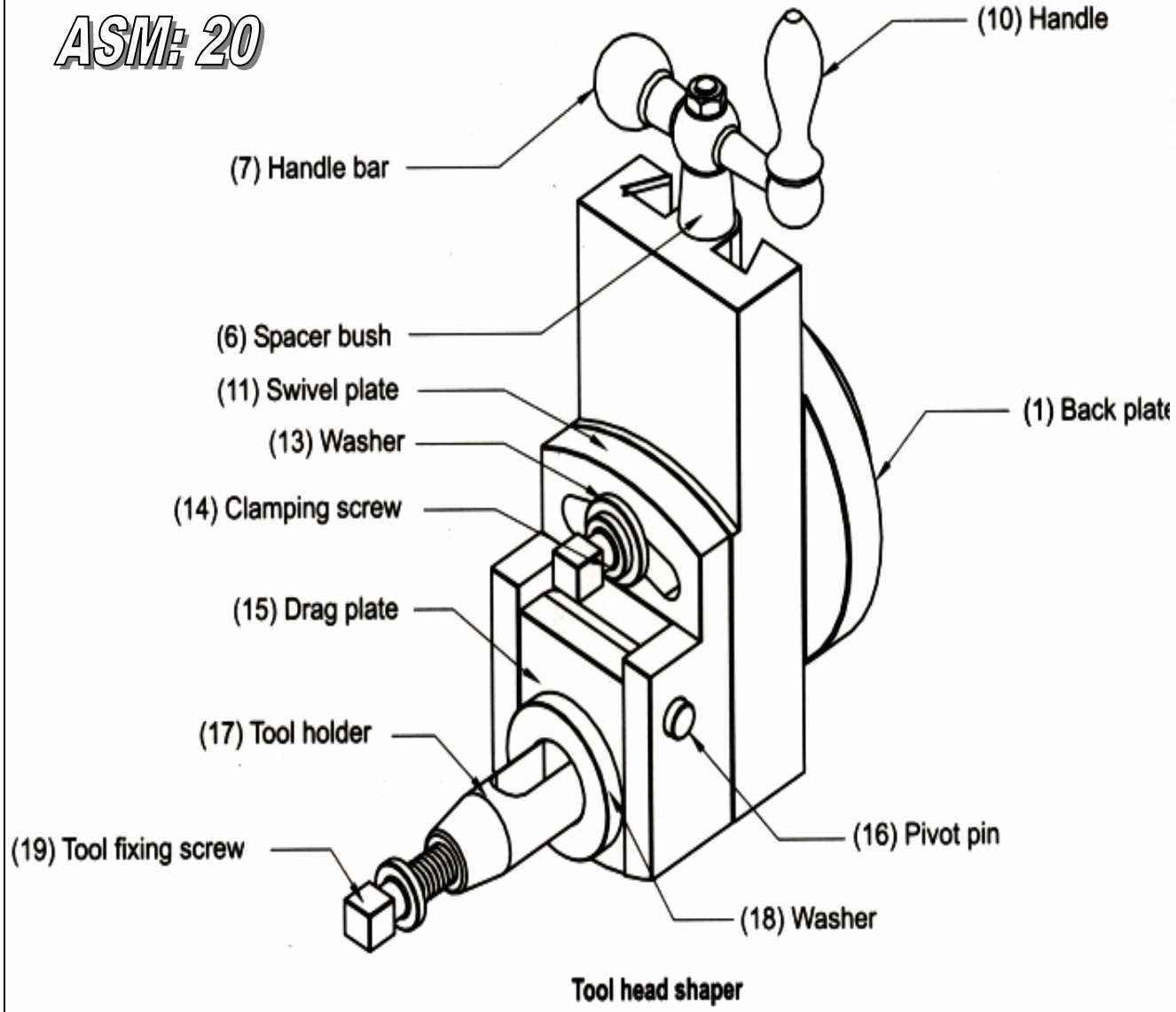
11



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



Tool head shaper

ALL DIMENSIONS IN mm

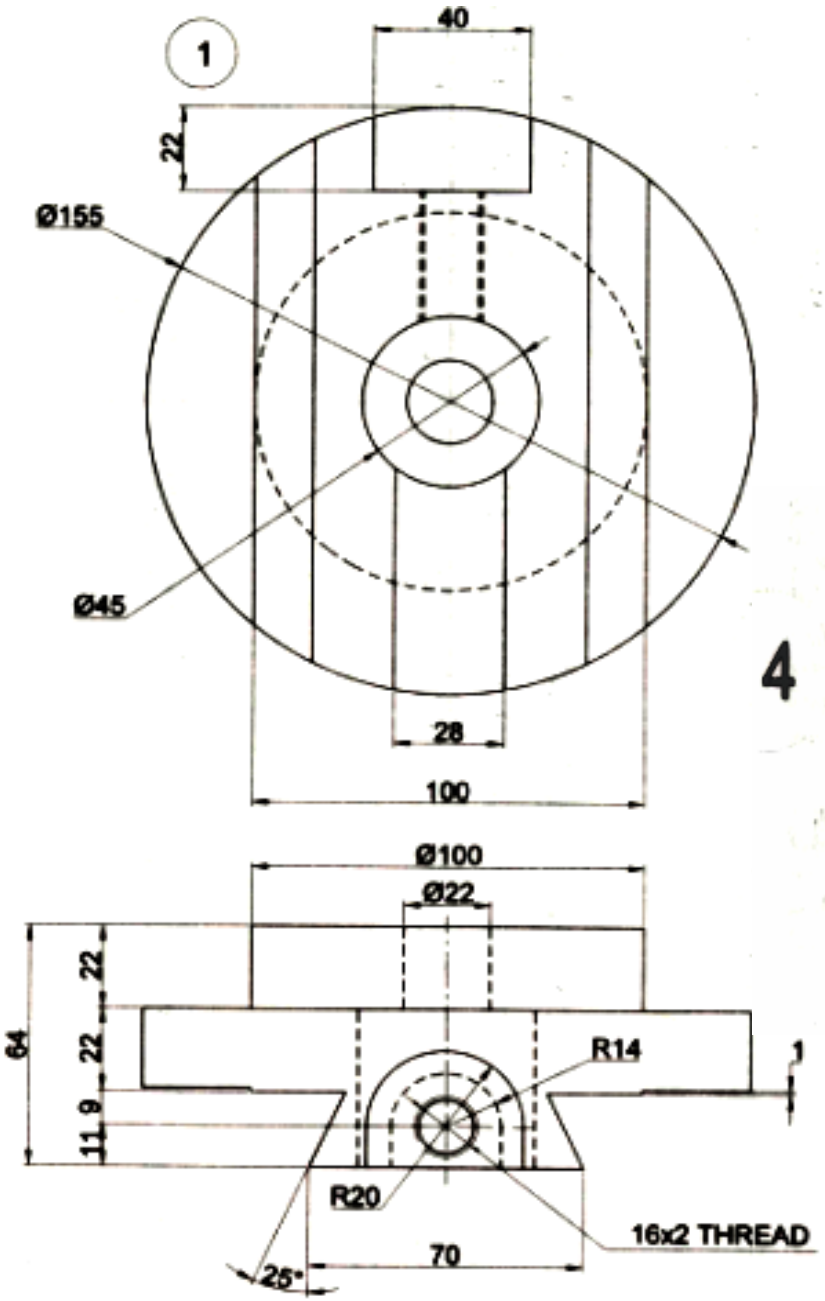
ITEM NO	DESCRIPTION	MATERIAL	NO OFF
19	TOOL FIXING SCREW	Fe 410 W	2
18	WASHER	Fe 410 W	1
17	TOOL HOLDER	Fe 410 W	1
16	PIVOT PIN	Fe 410 W	2
15	DRAG PLATE	Fe 410 W	2
14	CLAMPING SCREW	Fe 410 W	1
13	WASHER	Fe 410 W	1
12	SWIVEL SCREW PIN	Fe 410 W	2
11	SWIVEL PLATE	Fe 410 W	2
10	HANDLE	Fe 410 W	1
9	NUT M10	Fe 410 W	1
8	ROUND KEY	Fe 410 W	2
7	HANDLE BAR	CAST STEEL	1
6	SPACER BUSH	Fe 410 W	2
5	SCREW ROD	Fe 410 W	1
4	GRUB SCREW	Fe 410 W	1
3	ADJUSTABLE STRIP	Fe 410 W	2
2	VERTICAL SLIDE	CAST STEEL	1
1	BACK PLATE	CAST STEEL	1

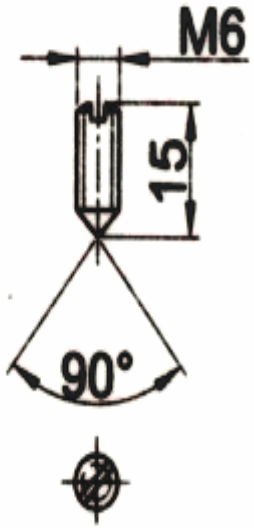
Parts details of tool head of shaping machine

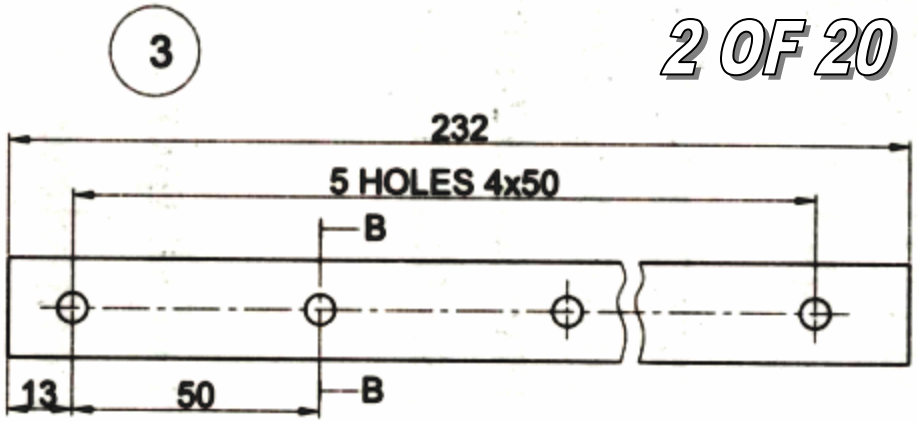
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

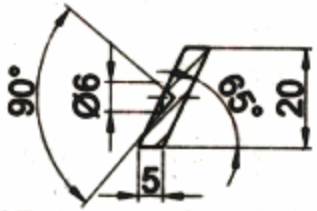
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.









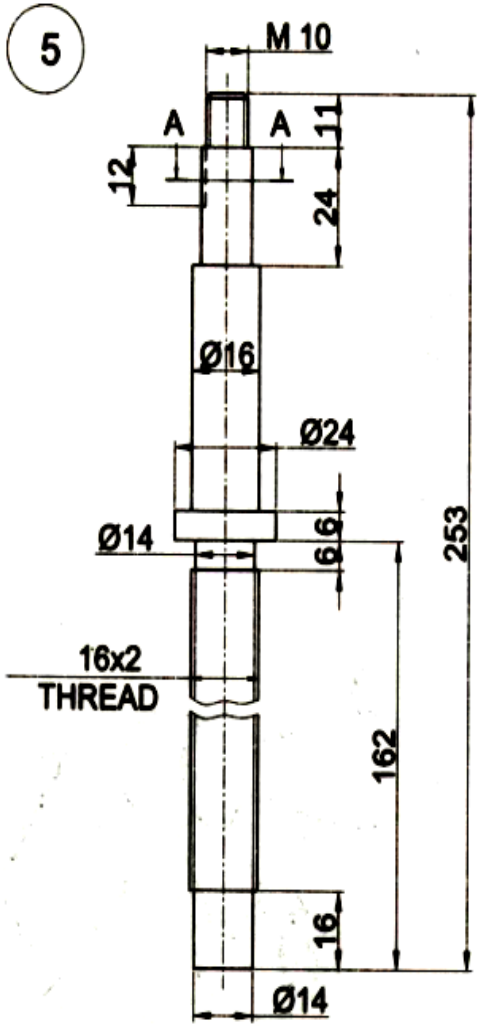
SECTION BB(ENLARGED)

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

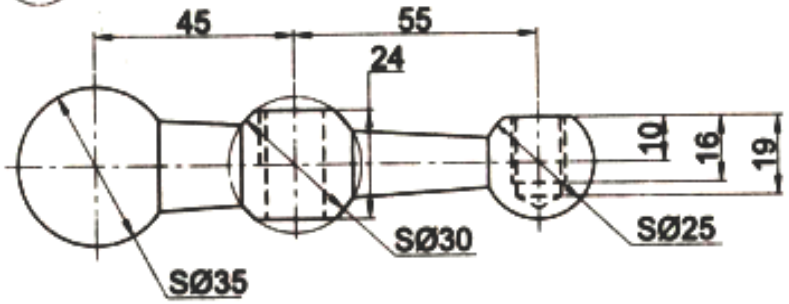
5



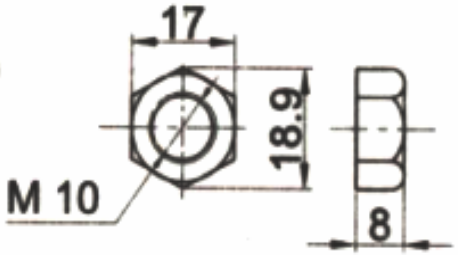
8

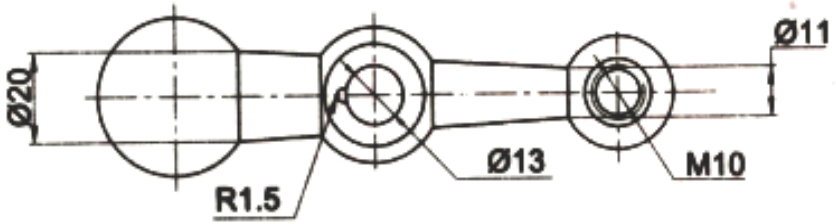


7



9

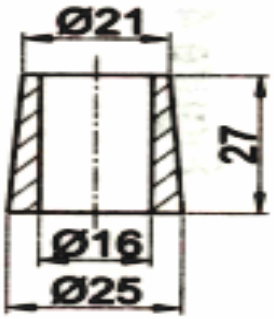






SECTION AA(ENLARGED)

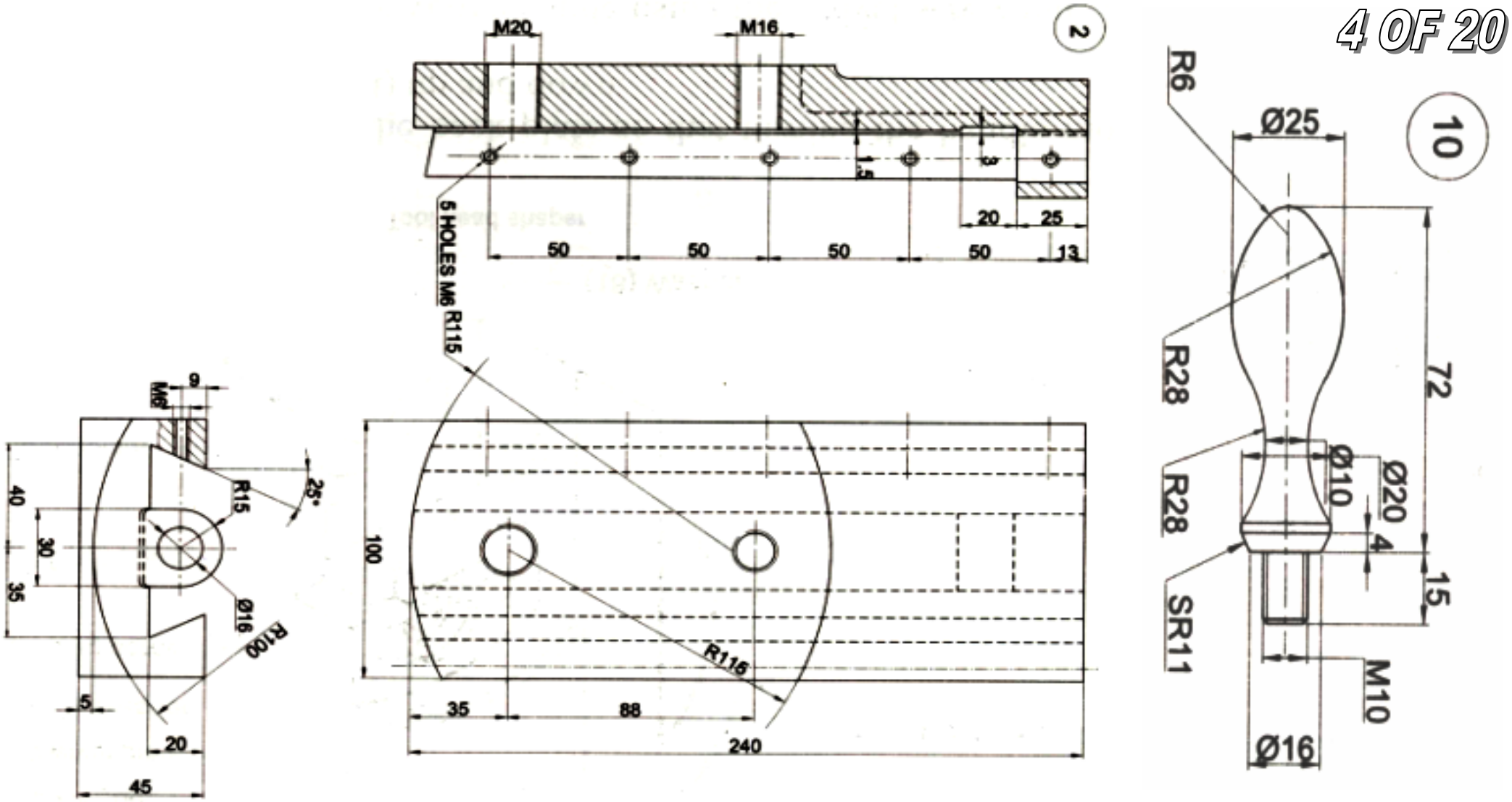
6



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

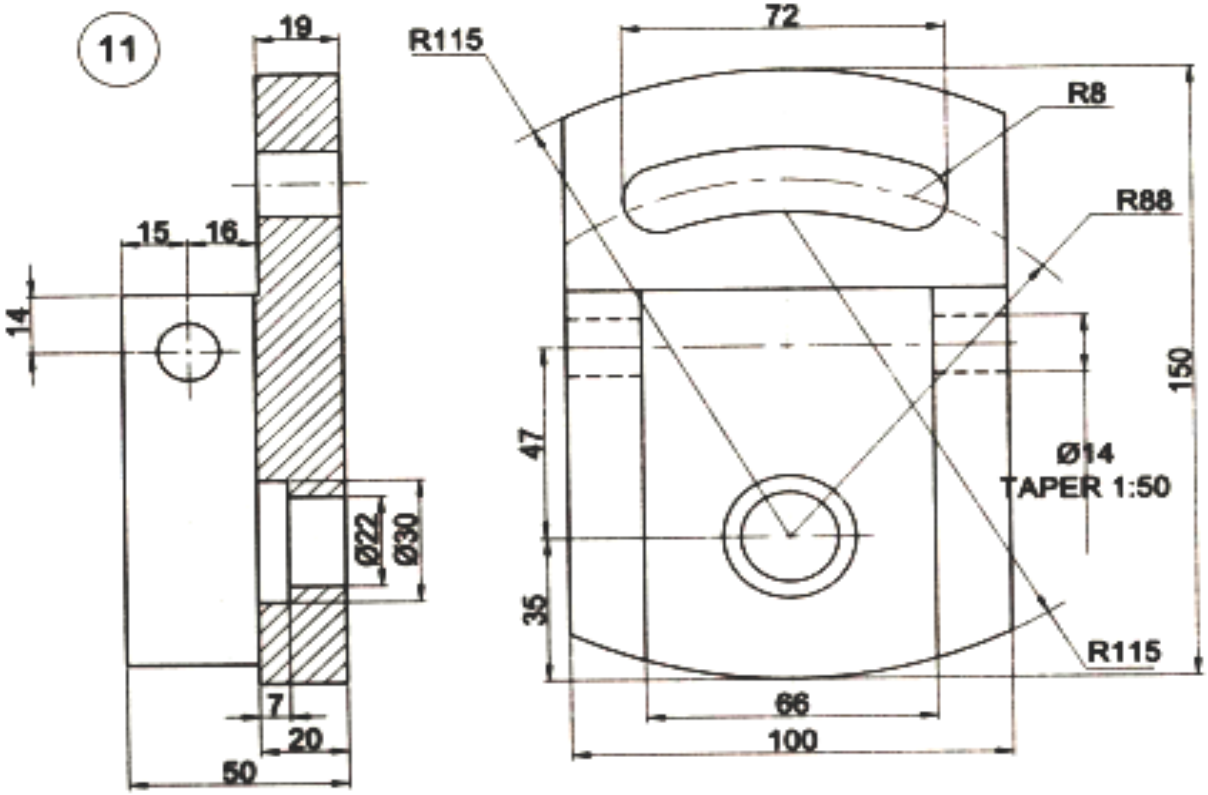
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

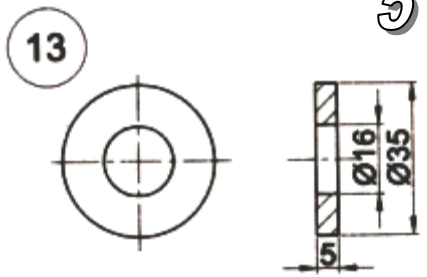


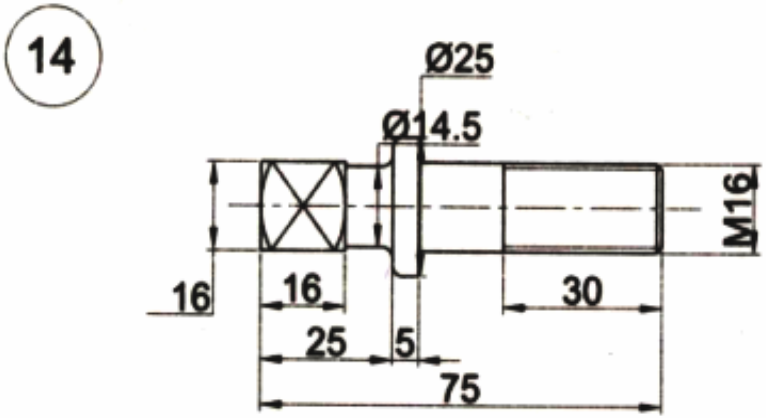
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

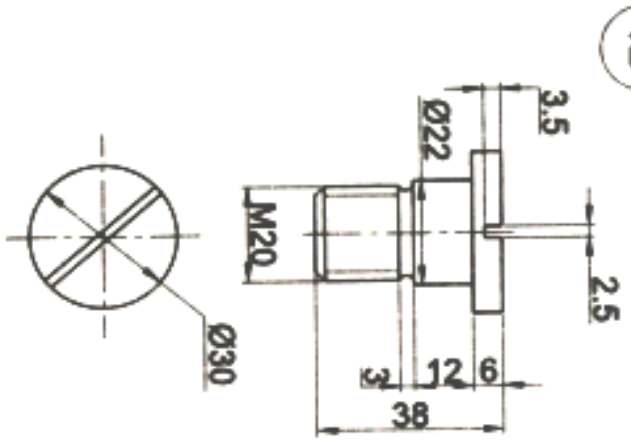
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.





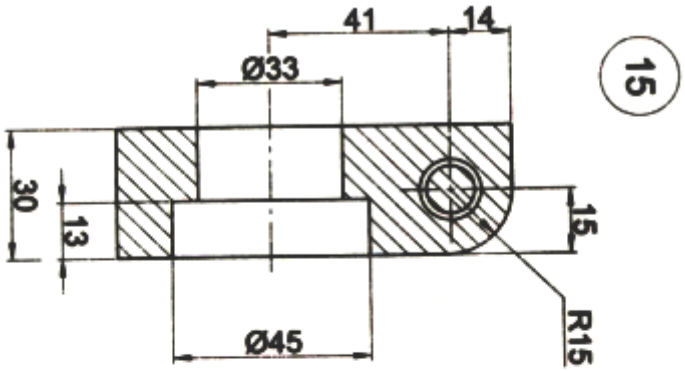


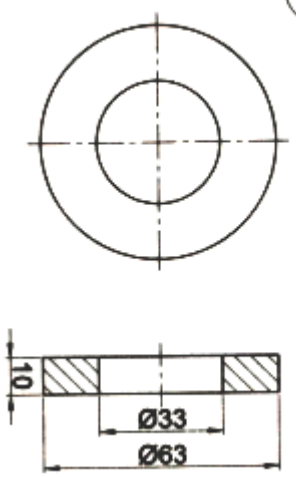


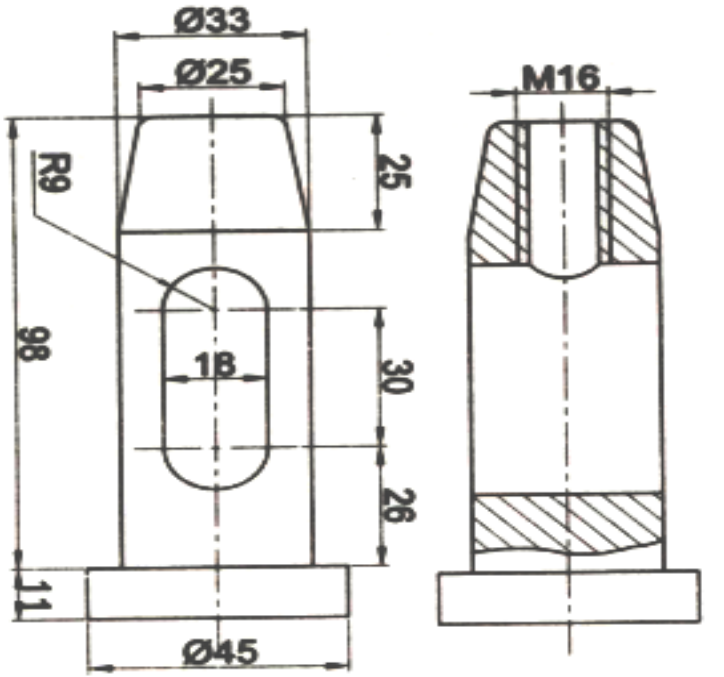
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

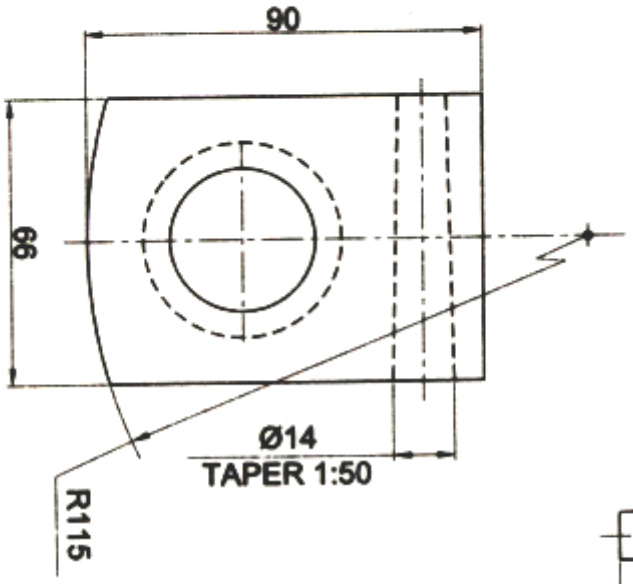
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

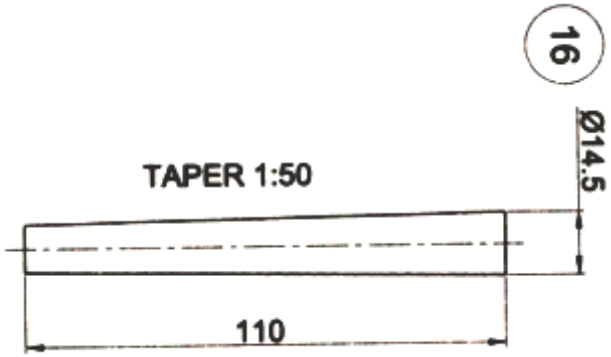
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

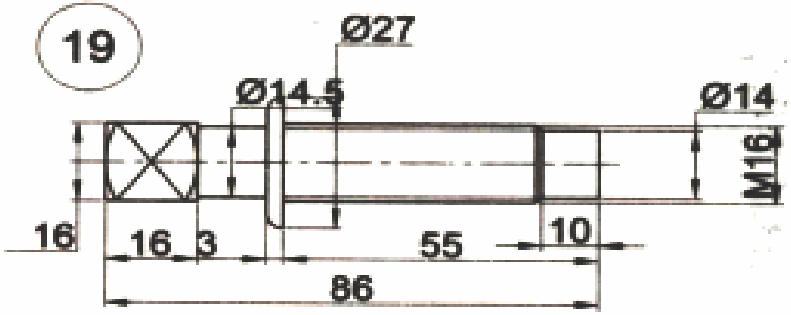








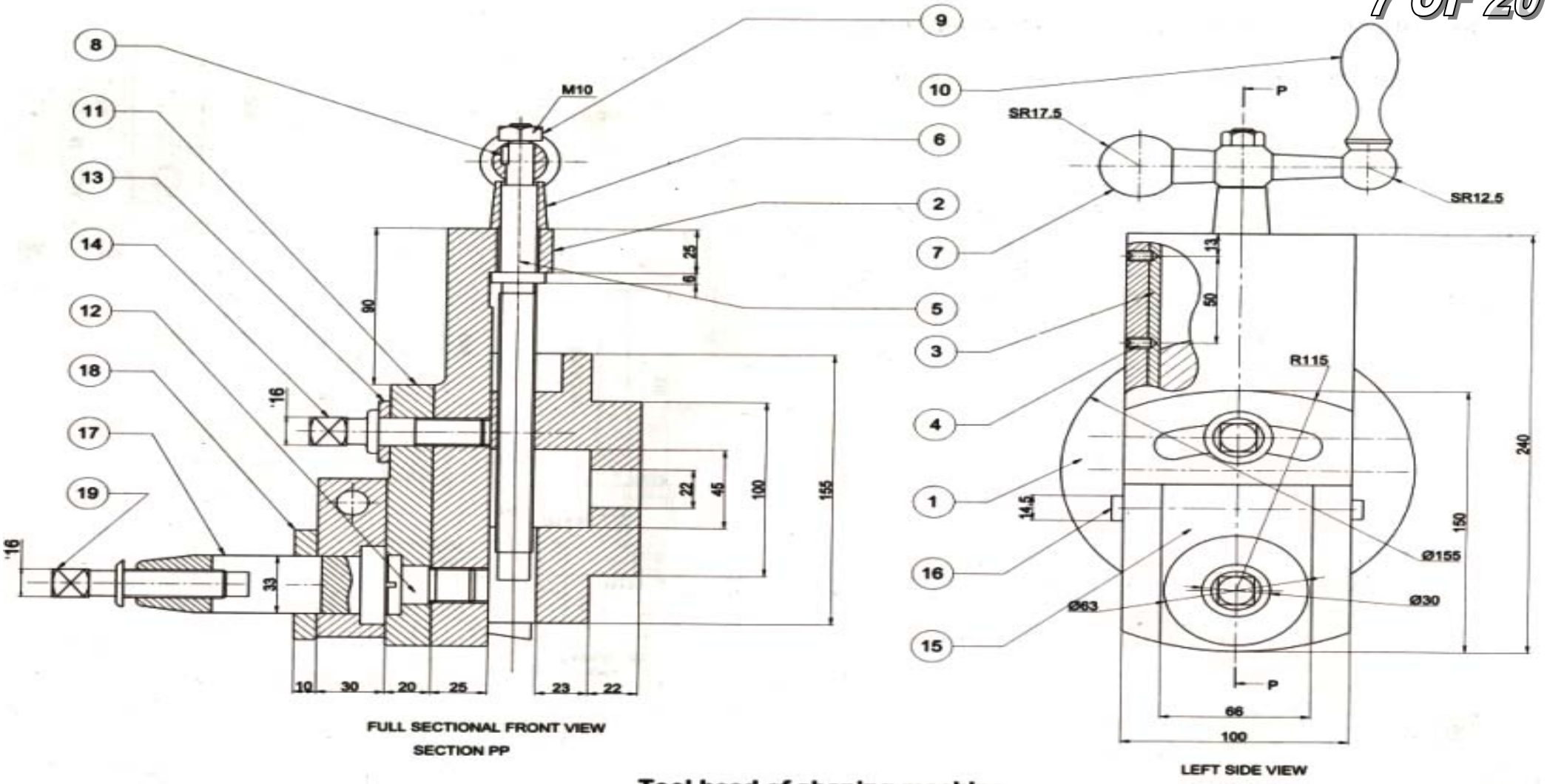




ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



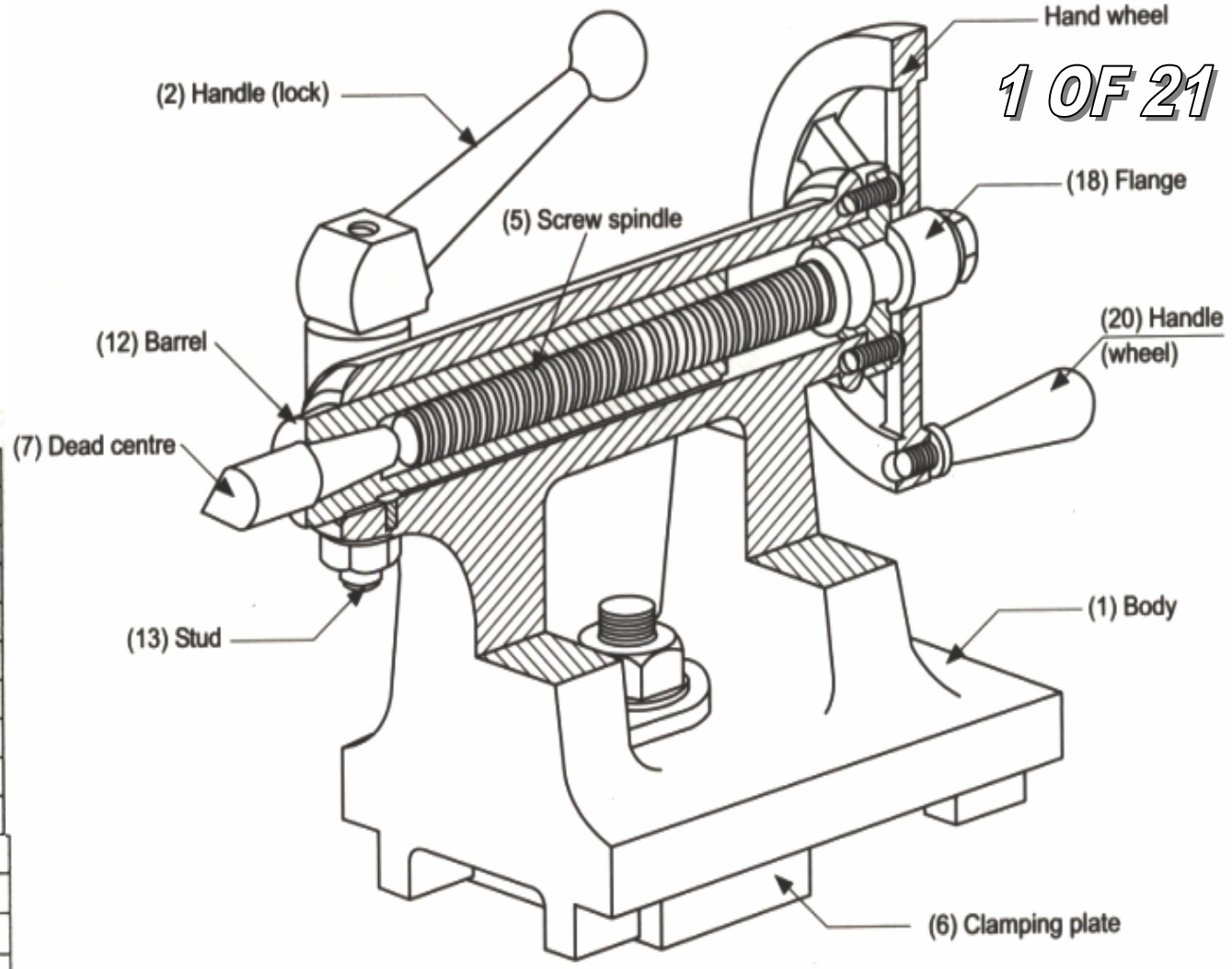
Tool head of shaping machine

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

ASM: 21



Tailstock

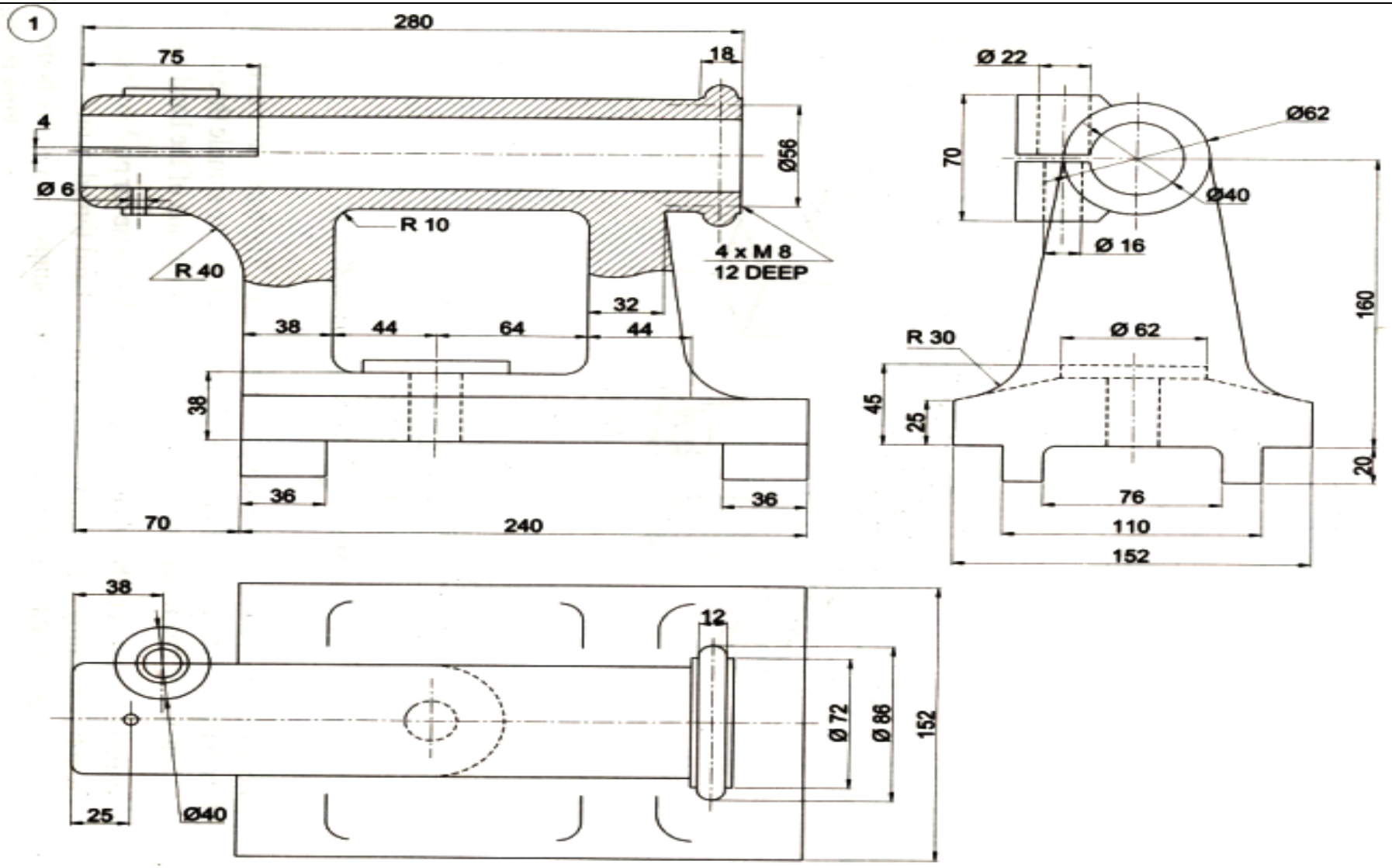
ALL DIMENSIONS IN mm

ITEM NO	DESCRIPTION	MATERIAL	NO OFF
20	HANDLE (WHEEL)	M.S.	1
19	SCREW (M 8)	M.S.	4
18	FLANGE	C.I.	1
17	NUT (M 16)	M.S	1
16	WASHER (M 16)	M.S.	1
15	HAND WHEEL	C.I.	1
14	KEY (WHEEL)	M.S.	1
13	STUD	M.S.	1
12	KEY (BARREL)	M.S.	1
11	BARREL	C.I.	1
10	WASHER (M 22)	M.S.	1
9	SQUARE BOLT	M.S.	1
8	NUT (M22)	M.S.	1
7	DEAD CENTRE	STEEL	1
6	CLAMPING PLATE	STEEL	1
5	SCREW SPINDLE	M.S.	1
4	WASHER (M 12)	M.S.	1
3	NUT (M 12)	M.S.	1
2	HANDLE (LOCK)	C.I.	1
1	BODY	C.I.	1

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

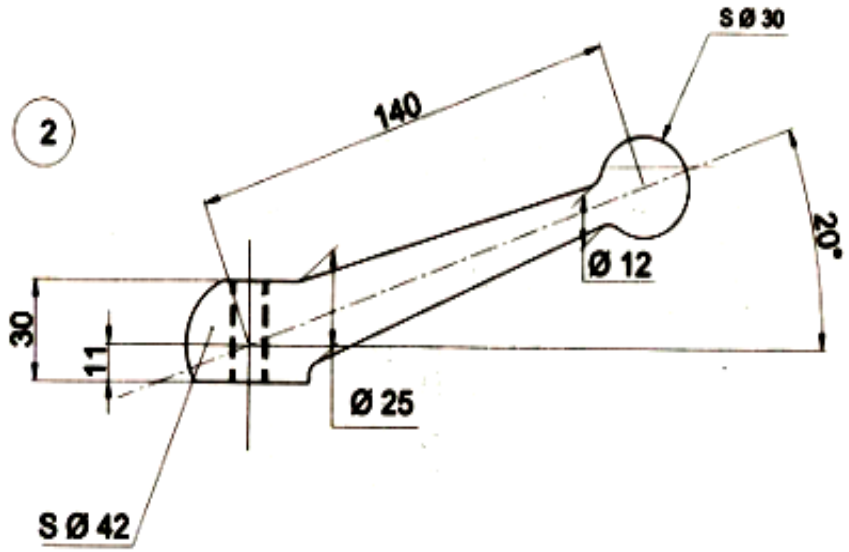
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

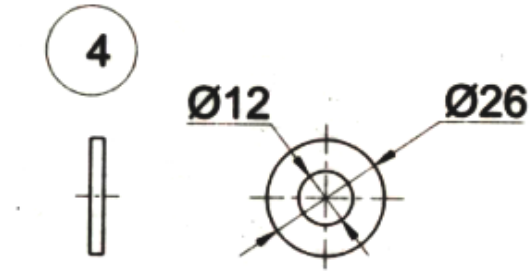


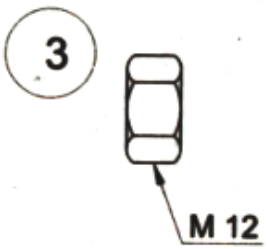
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

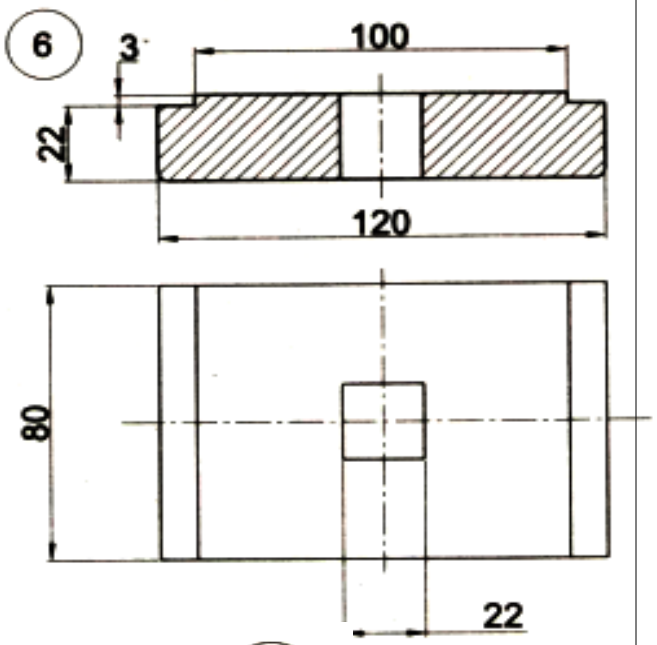
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

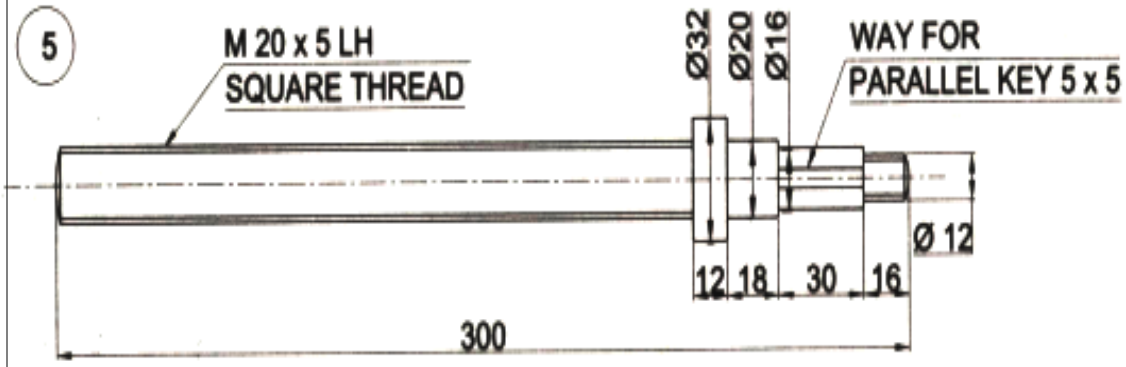
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

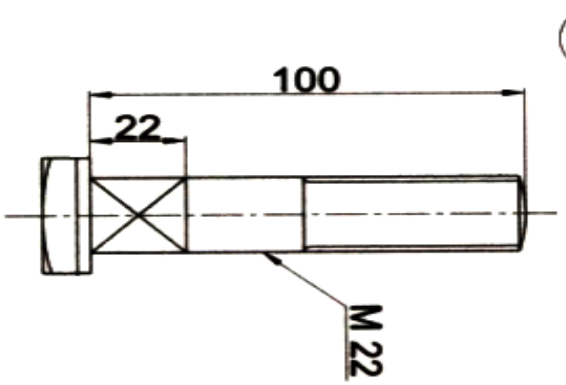


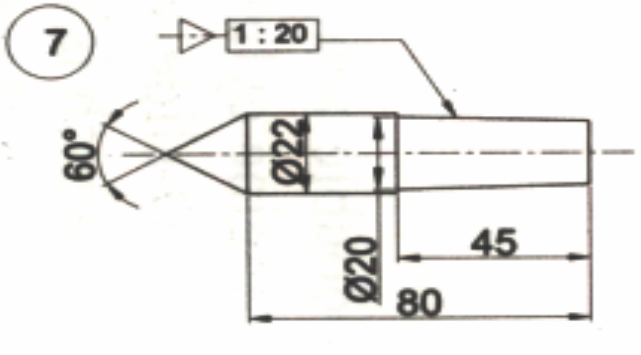


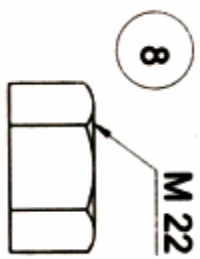










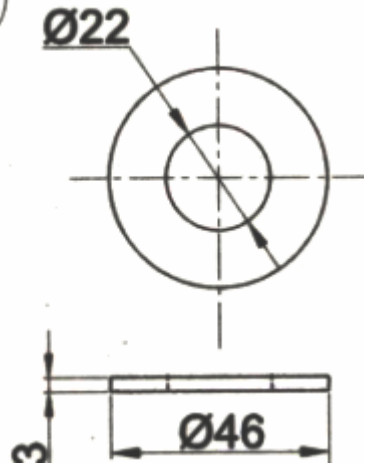


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

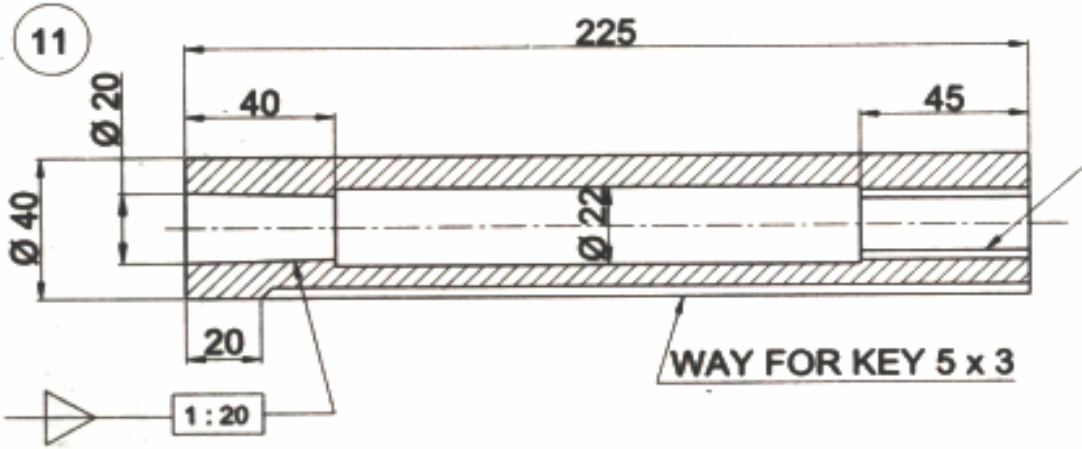
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

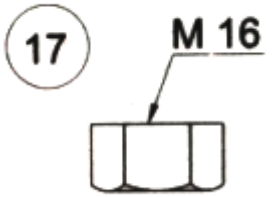
10



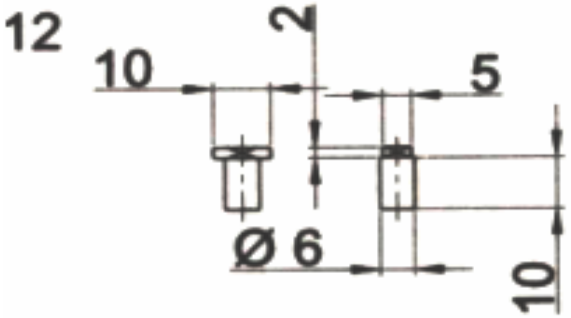
11



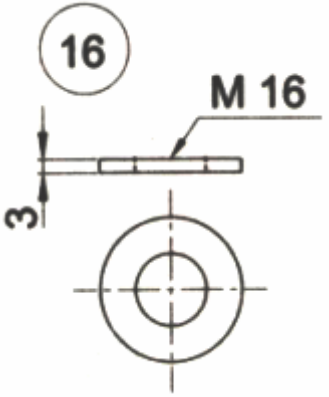
17



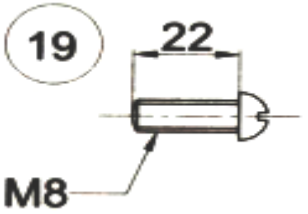
12



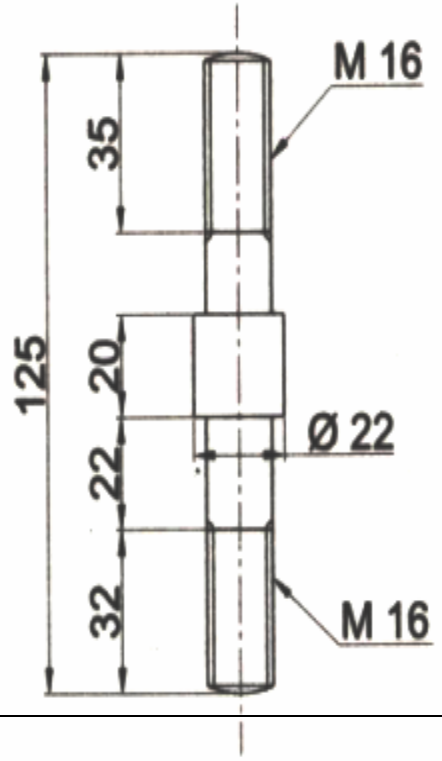
16



19



13



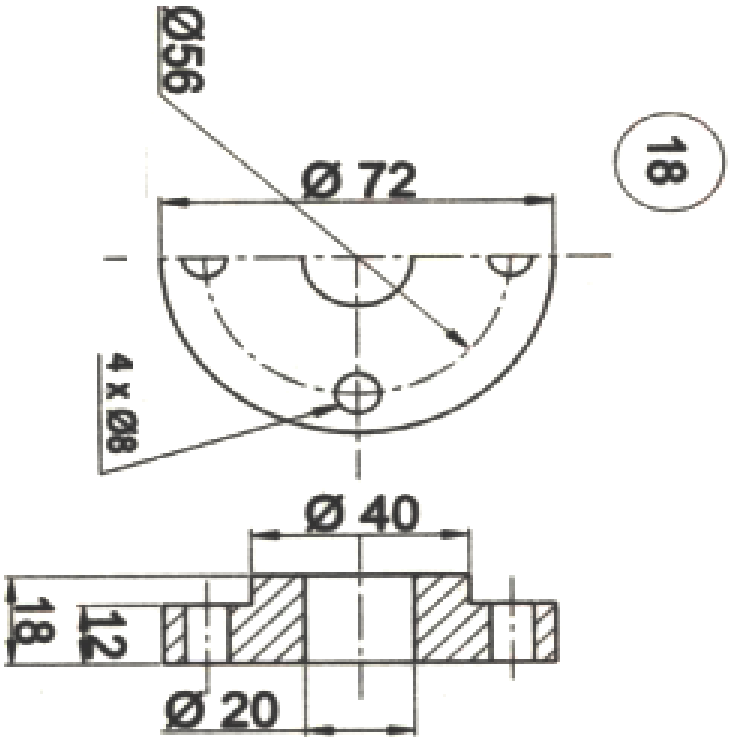
14

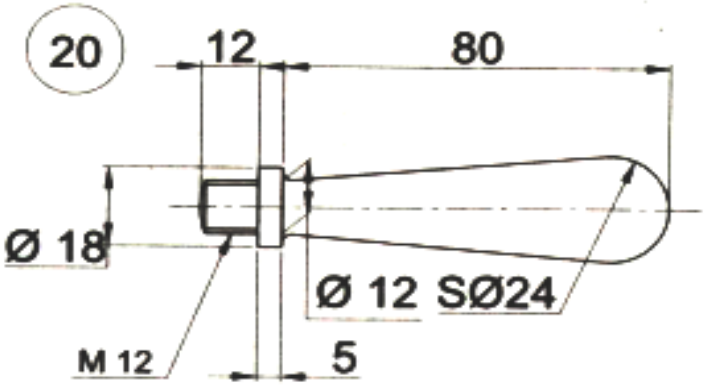


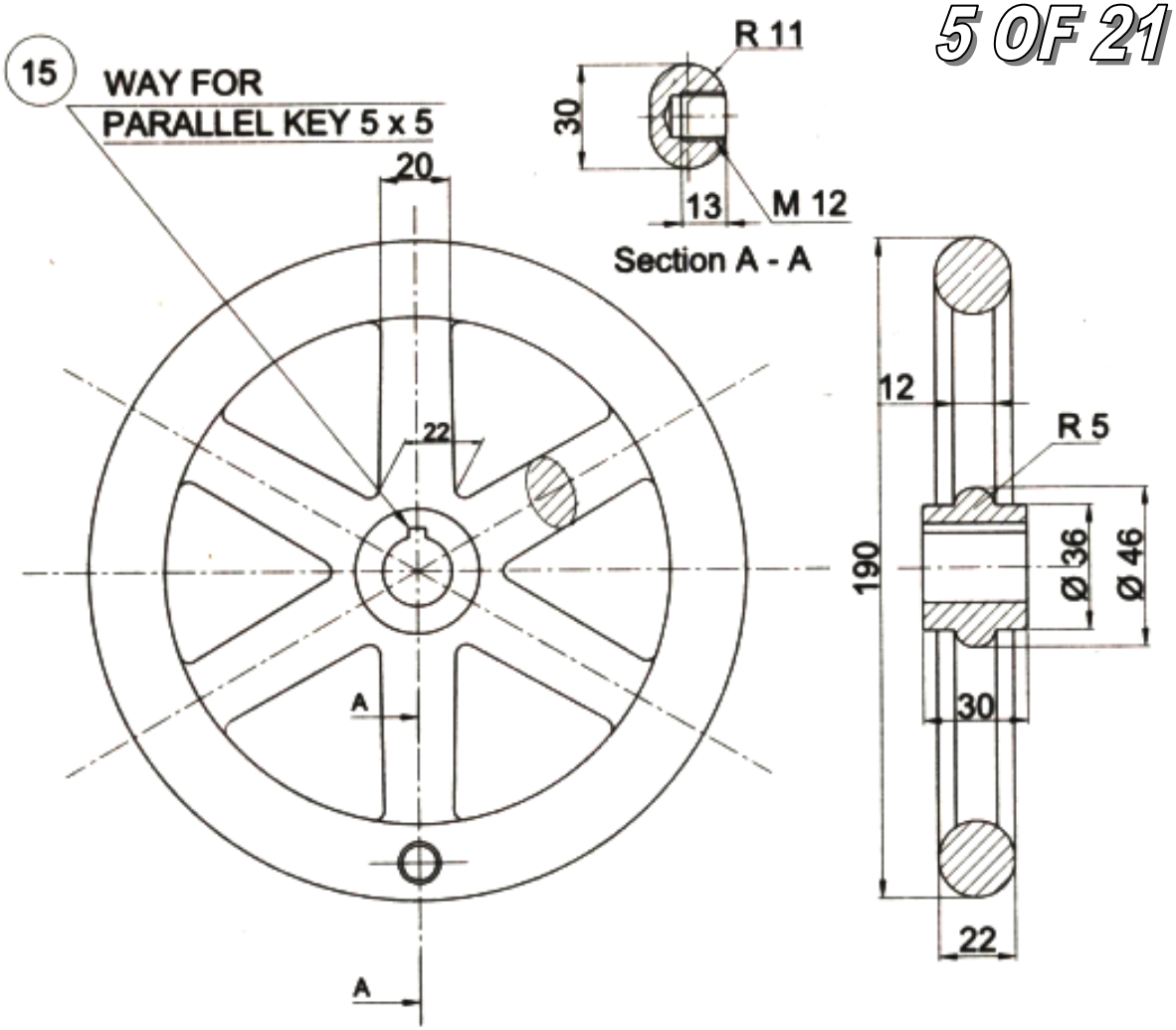
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



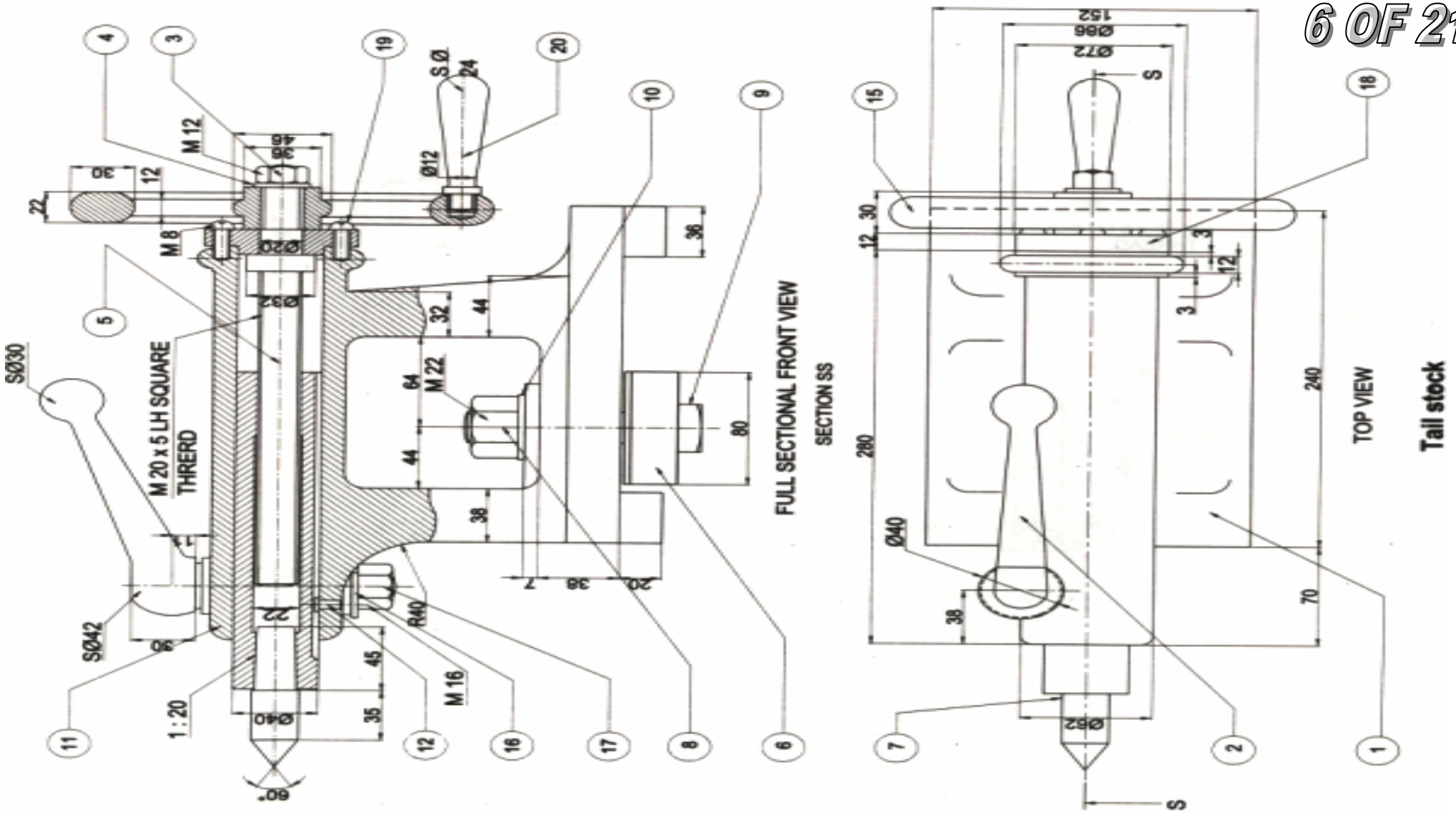




ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

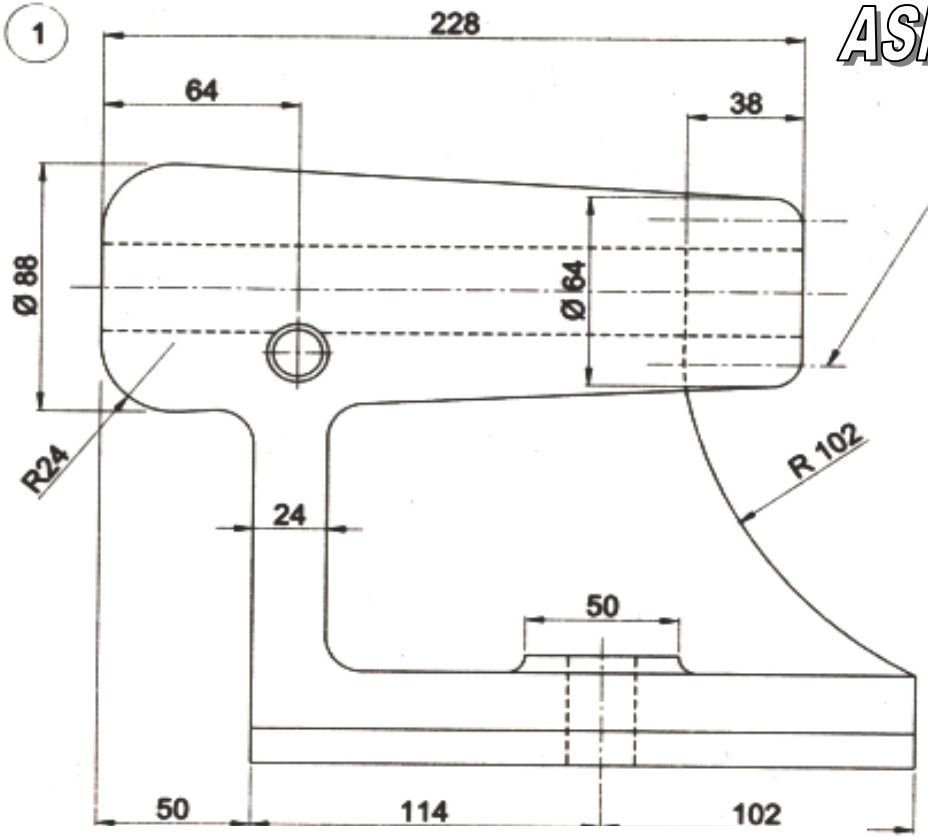


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

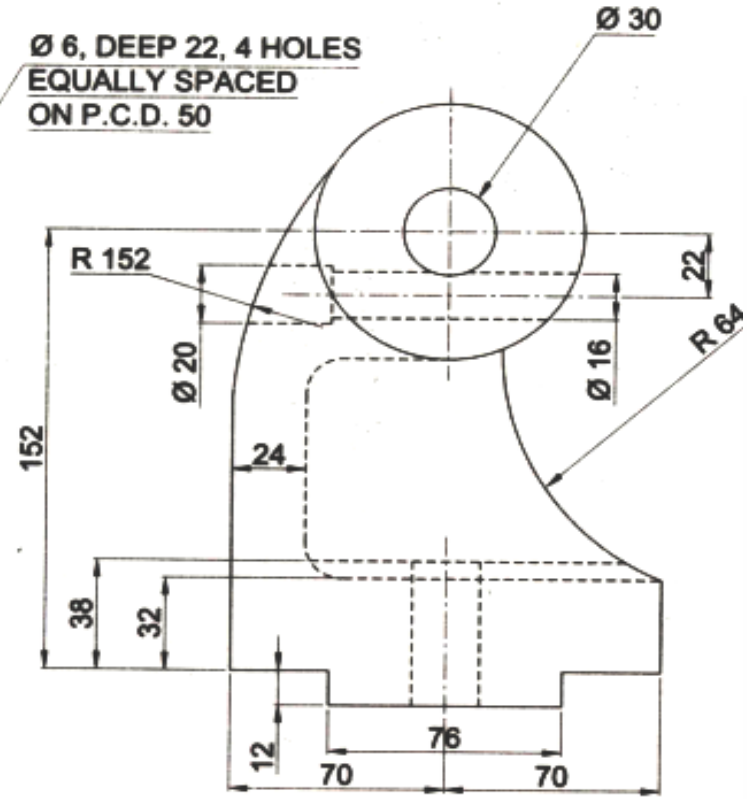
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

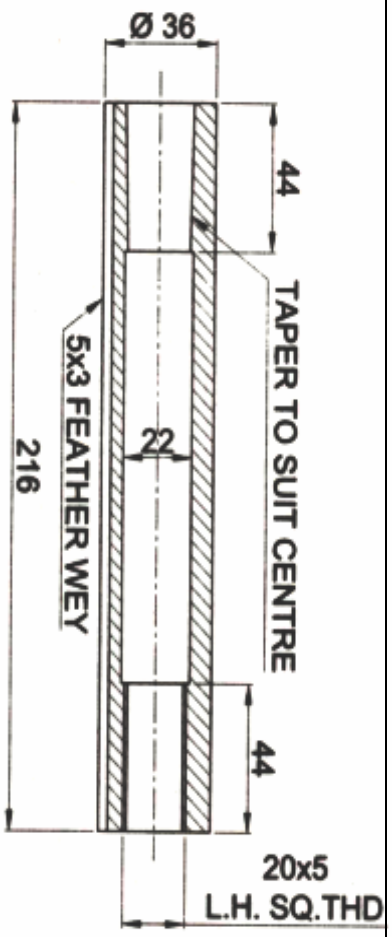
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

1



2





ALL DIMENSIONS IN mm

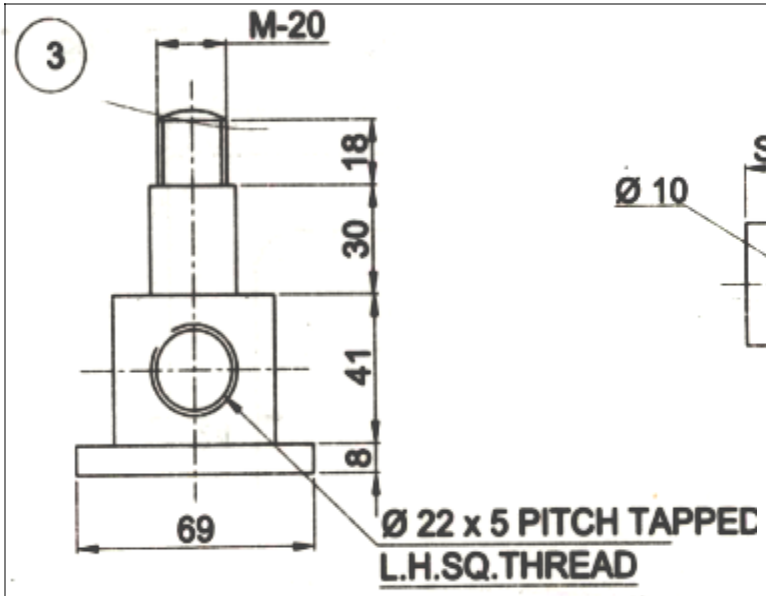
ITEM NO	DESCRIPTION	MATERIAL	NO OFF
10	SET-SCREW	M.S.	4
9	WASHER	M.S.	1
8	KEY	M.S.	1
7	NUT	M.S.	1
6	CENTRE	C.S.	1
5	BACK PLATE	C.I.	1
4	HAND WHEEL	C.I.	1
3	SCREW	M.S.	1
2	SLEEVE	C.I.	1
1	BODY	C.I.	1

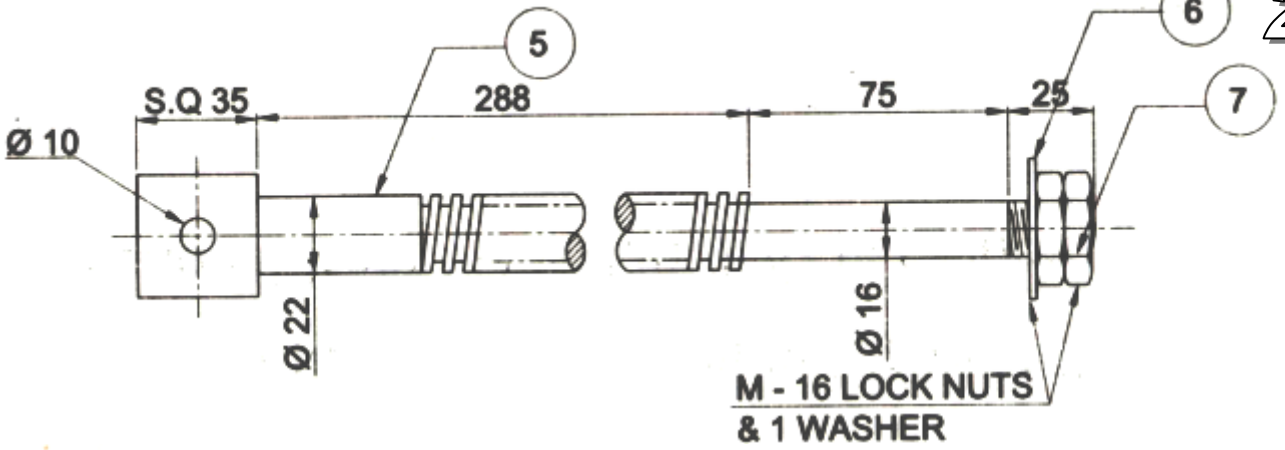
Parts details of tail stock

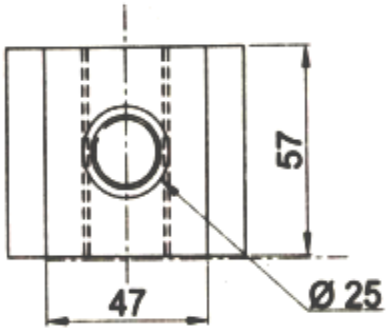
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

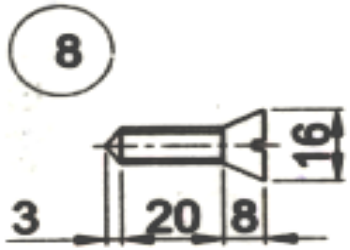
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

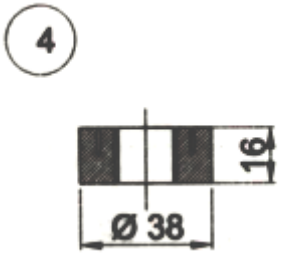
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.











ALL DIMENSIONS IN mm

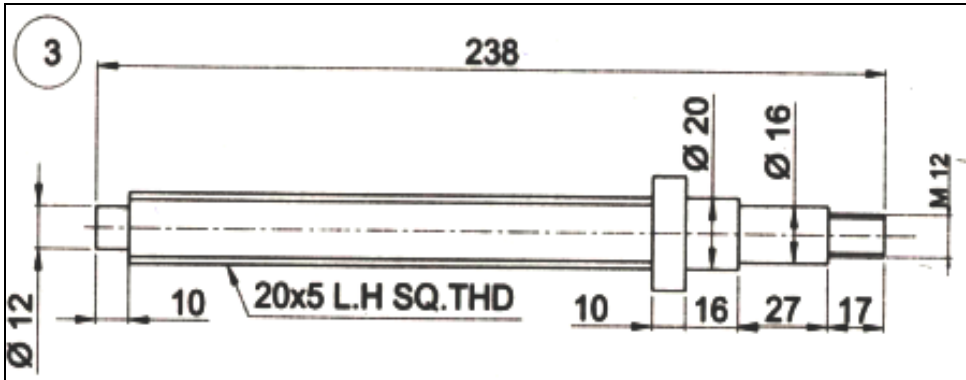
ITEM NO	DESCRIPTION	MATERIAL	NO OFF
8	SETSCREW	M.S.	4
7	NUTS	M.S.	2
6	WASHER	M.S.	1
5	SPINDLE	M.S.	1
4	TOMMY NUT	M.S.	1
3	CLAMPING BOLT	M.S.	1
2	SLIDING JAW	C.I.	1
1	VICE BODY	C.I.	1

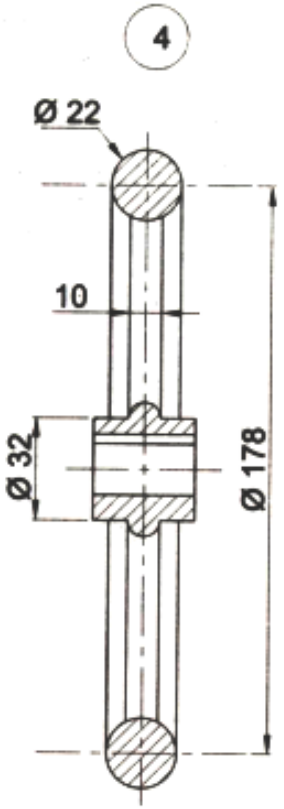
Parts detailes of machine vice

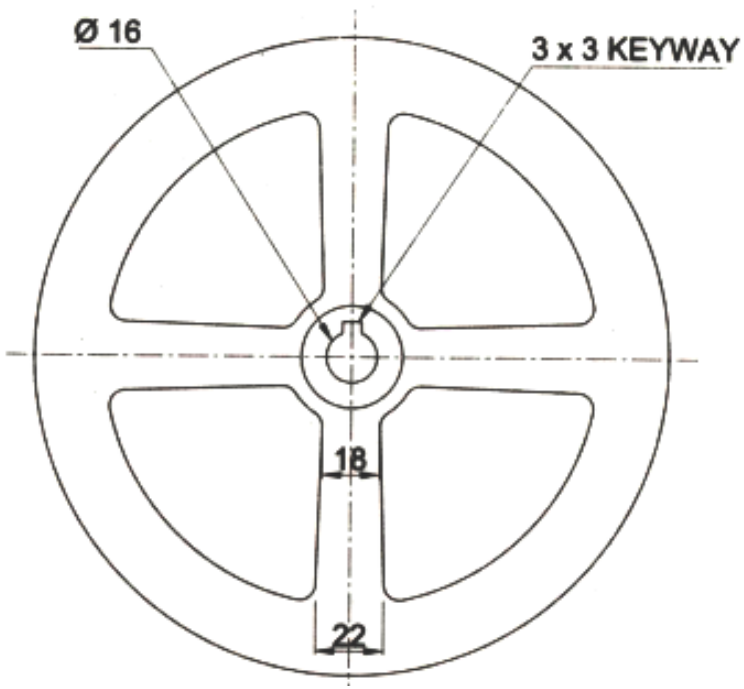
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

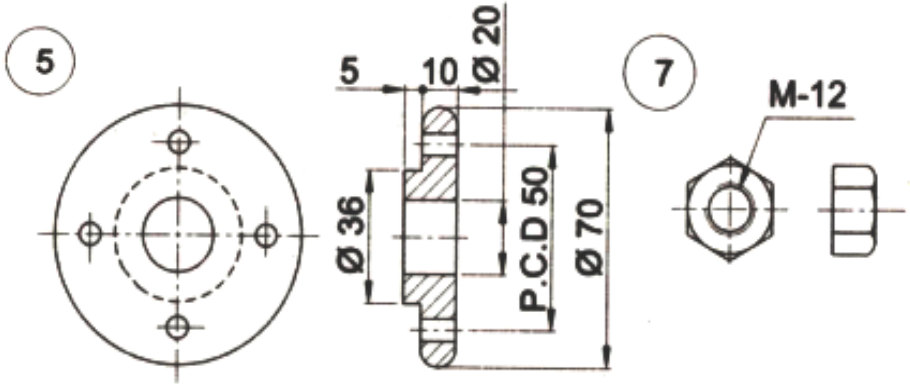
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

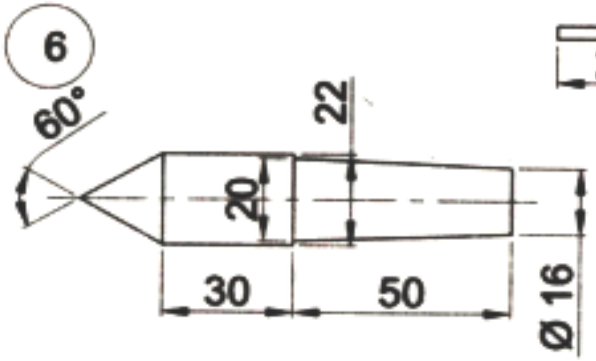
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

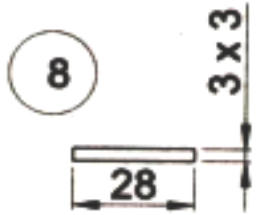


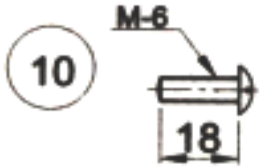


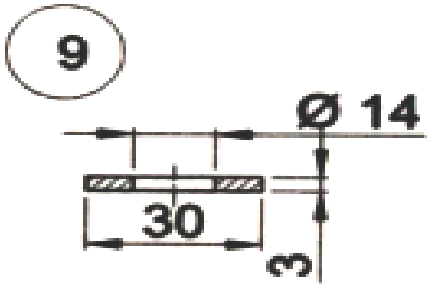












ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

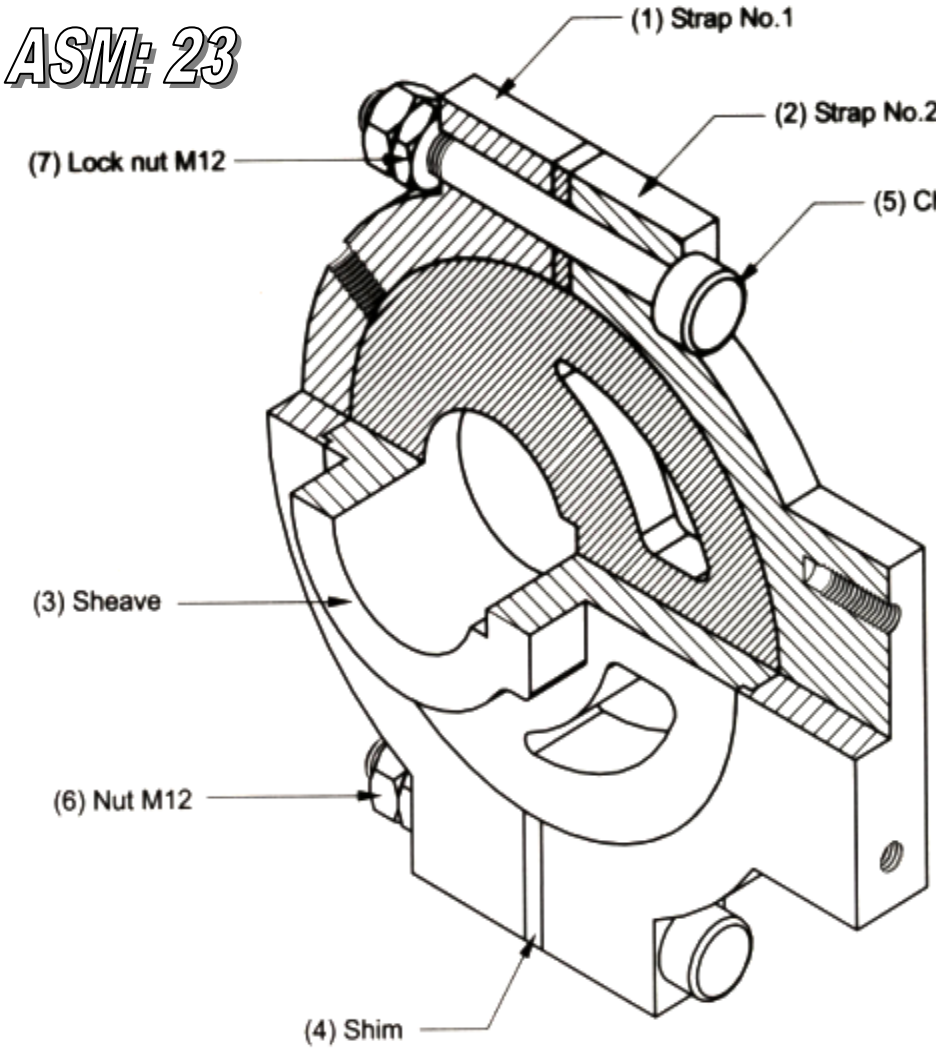


Figure Simple eccentric

ALL DIMENSIONS IN mm

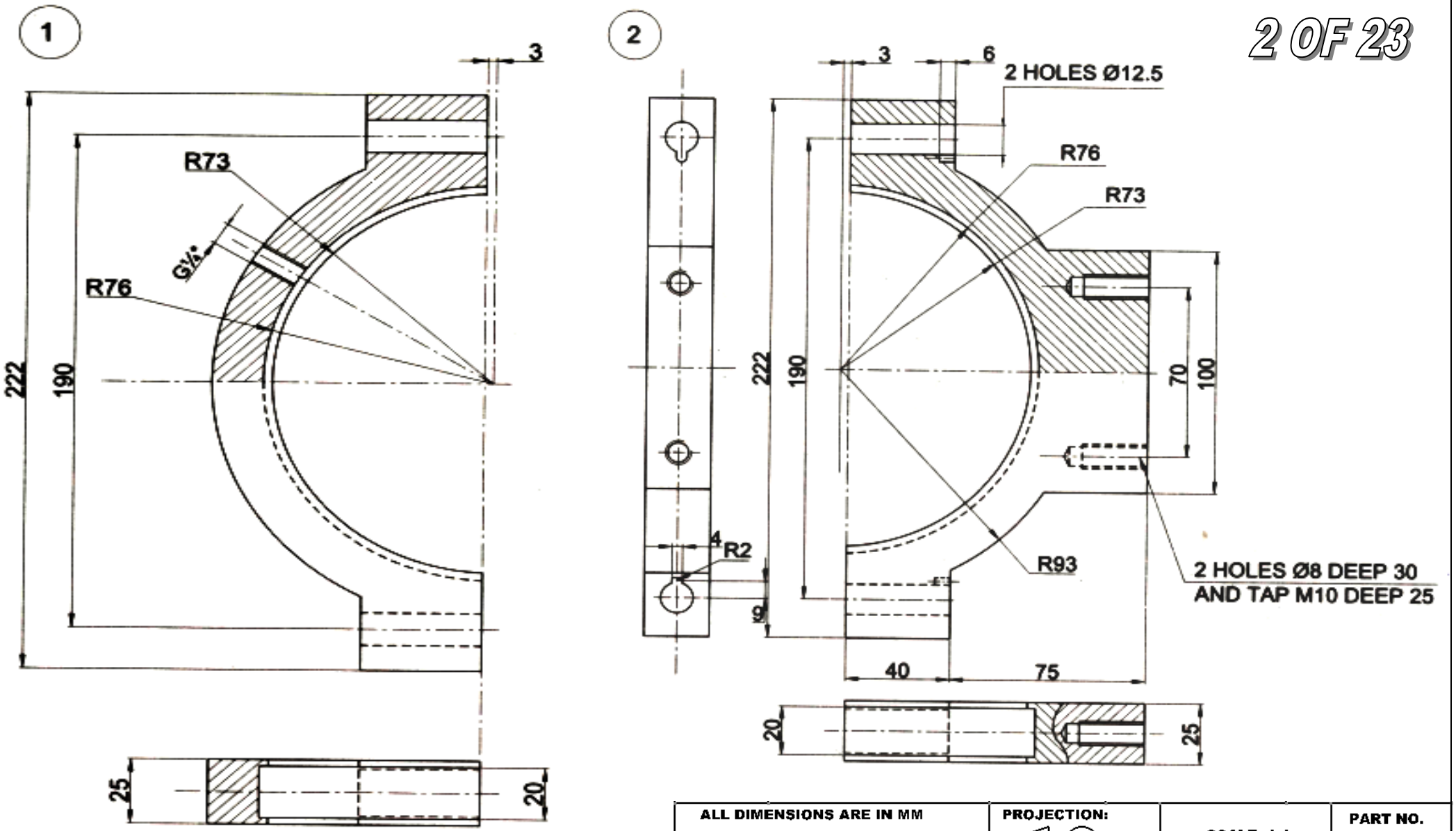
ITEM NO	DESCRIPTION	MATERIAL	NO OFF
7	LOCK NUT M12	Fe - 410 W	2
6	NUT M12	Fe - 410 W	2
5	CHEESE HEAD BOLT	Fe - 410 W	2
4	SHIM	BRASS	2
3	SHEAVE	CAST STEEL	1
2	STRAP NO.2	CAST IRON	1
1	STRAP NO.1	CAST IRON	1

Parts details of simple eccentric

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

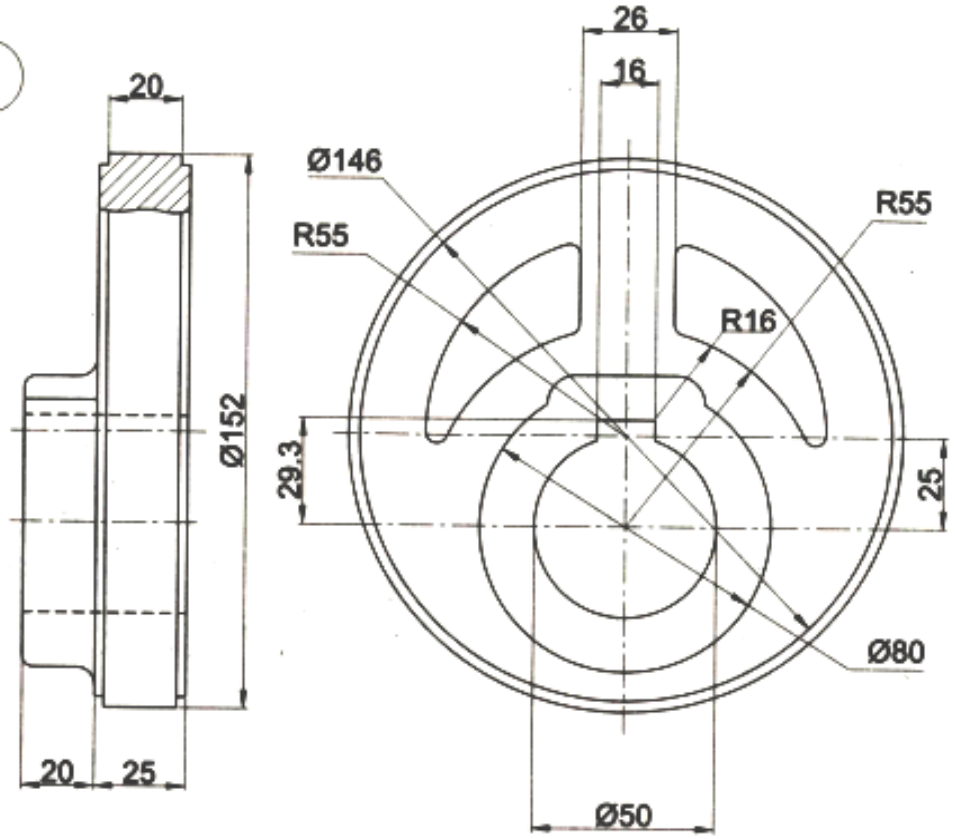


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

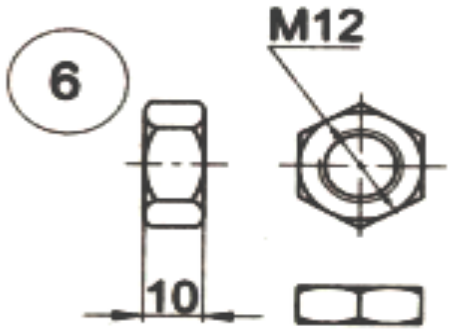
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

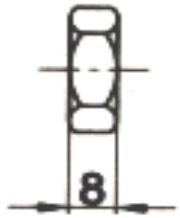
3



6

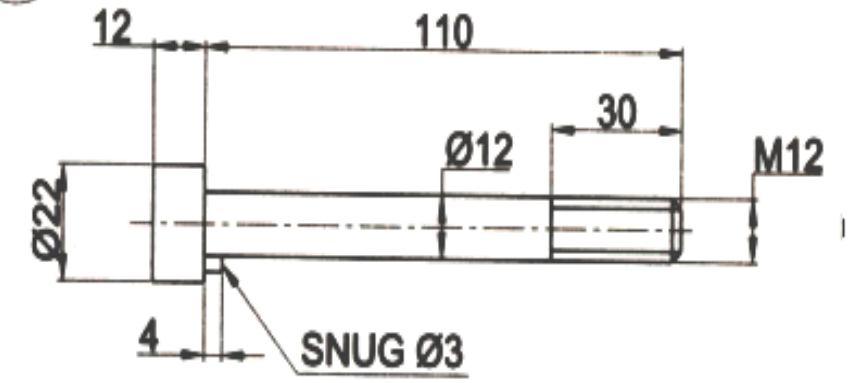


7

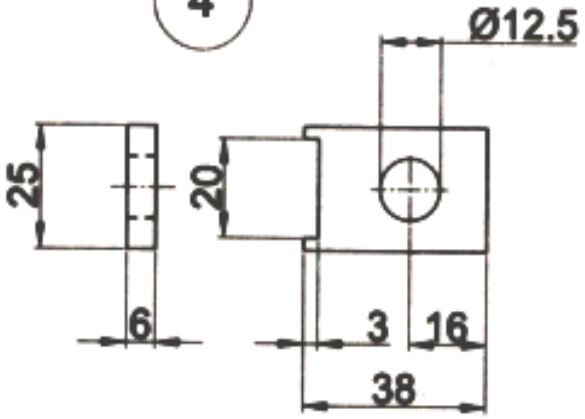


* MAJOR Ø13.157
MINOR Ø11.445

5



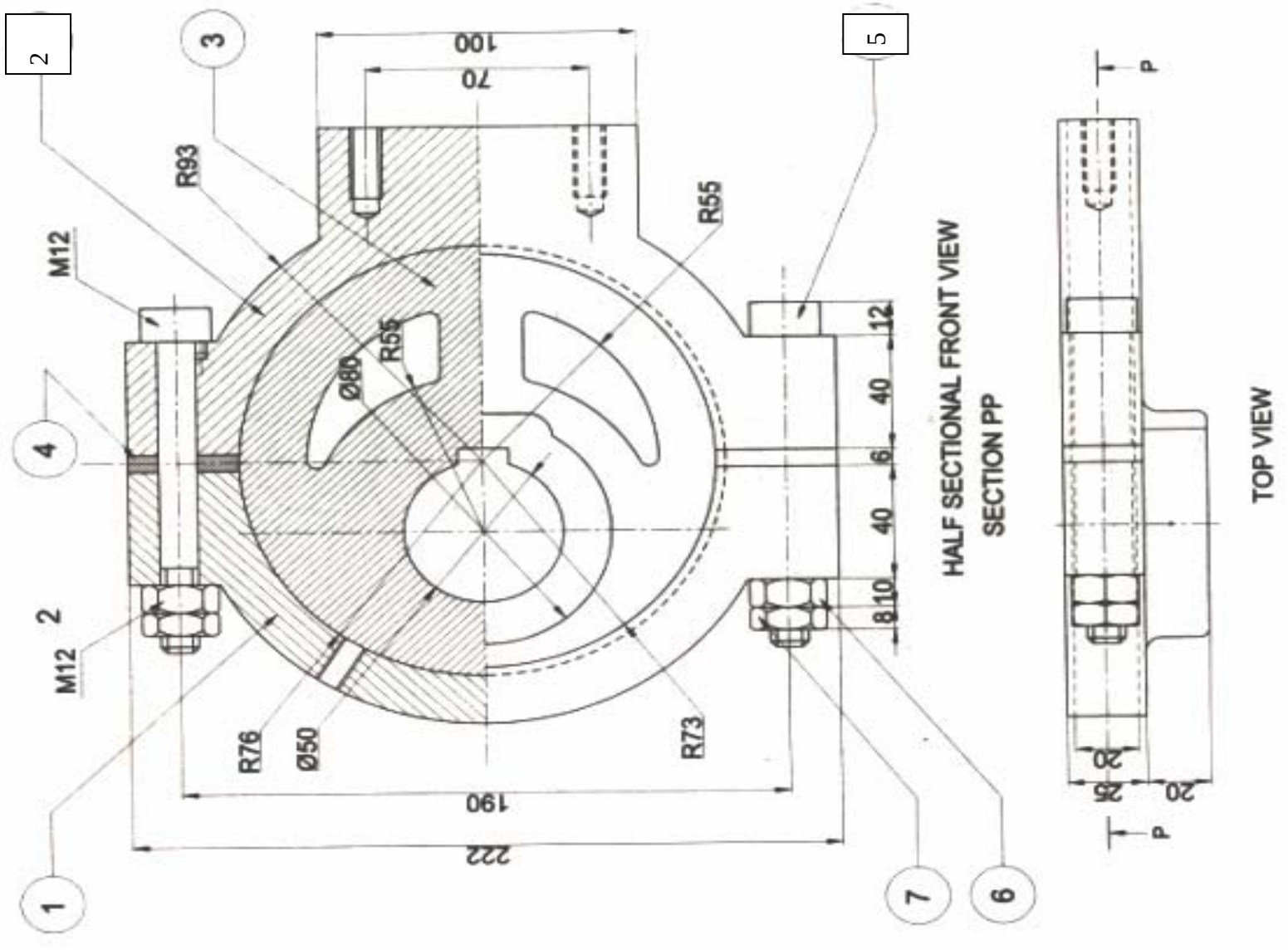
4



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

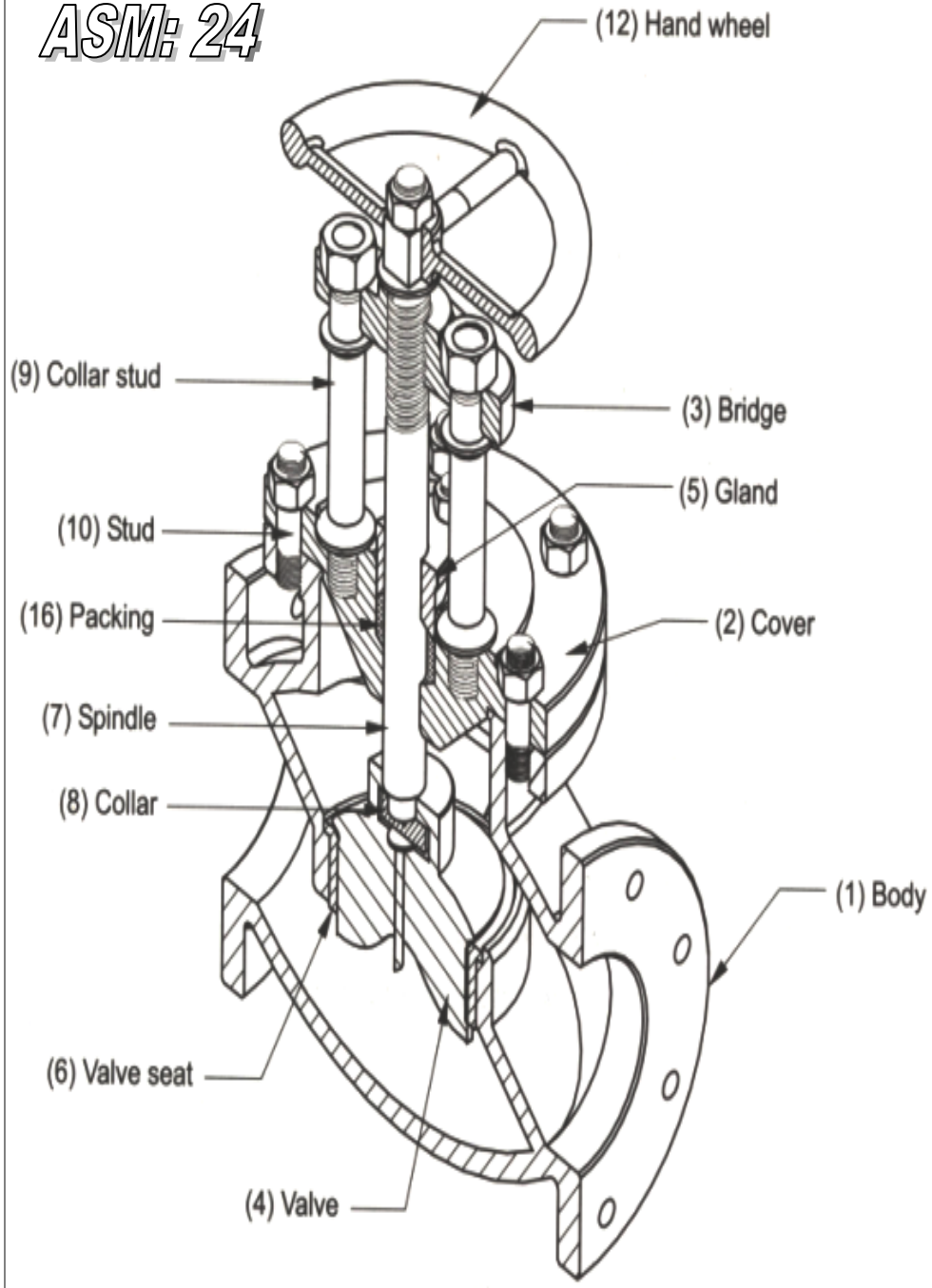


Figure Stop valve

ALL DIMENSIONS IN mm

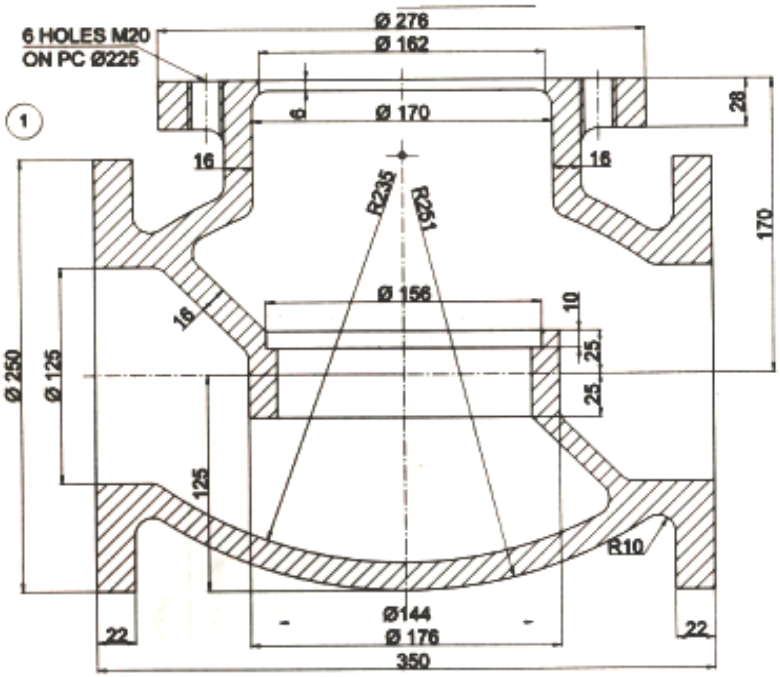
ITEM NO	DESCRIPTION	MATERIAL	NO OFF
17	TAPER PIN	Fe 410 W	1
16	PACKING	FIBRE	1
15	HEX. NUT M 12	Fe 410 W	2
14	HEX. NUT M 20	Fe 410 W	7
13	HEX. NUT M 24	Fe 410 W	2
12	HAND WHEEL	CAST IORN	1
11	STUD M 12	Fe 410 W	2
10	STUD M 20	Fe 410 W	6
9	COLLAR STUD	Fe 410 W	2
8	COLLAR	Fe 410 W	1
7	SPINDLE	Fe 410 W	1
6	VALVE SEAT	BRASS	1
5	GLAND	BRASS	1
4	VALVE	GUN METAL	1
3	BRIDGE	CAST IRON	1
2	COVER	GUN METAL	1
1	BODY	GUN MATEL	1

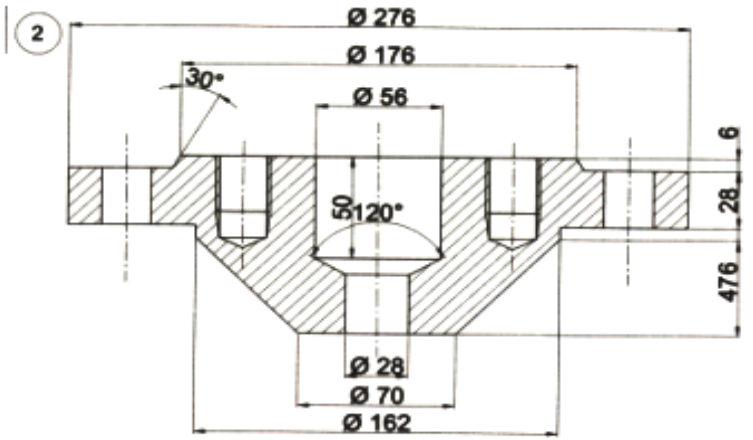
Parts details of stop valve

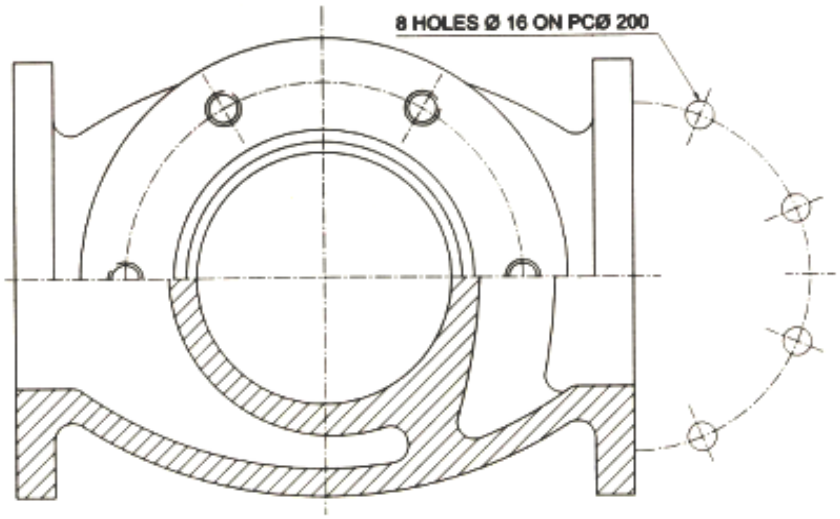
ALL DIMENSIONS ARE IN MM	NAME	DATE	PROJECTION:	SCALE 1:1	PART NO.
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

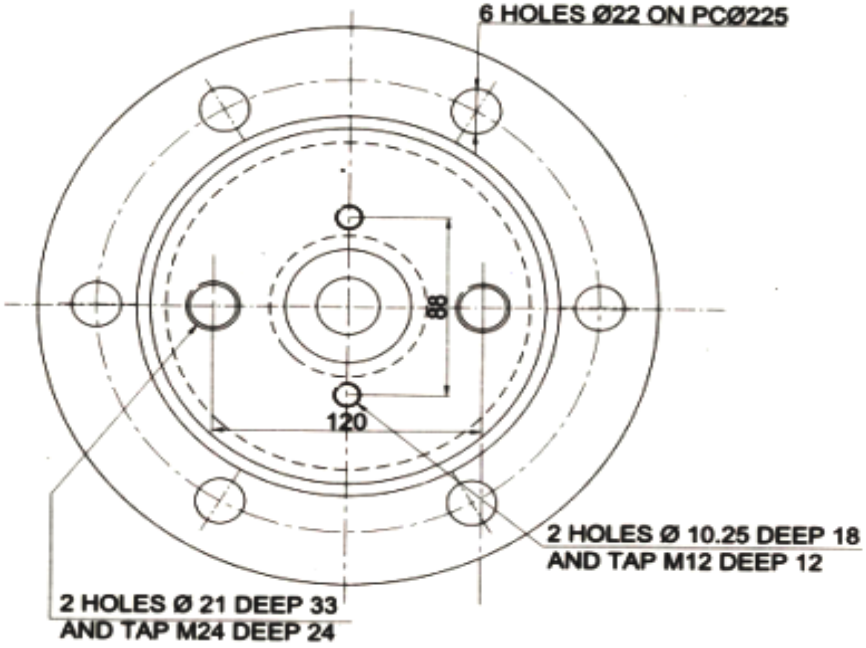
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.





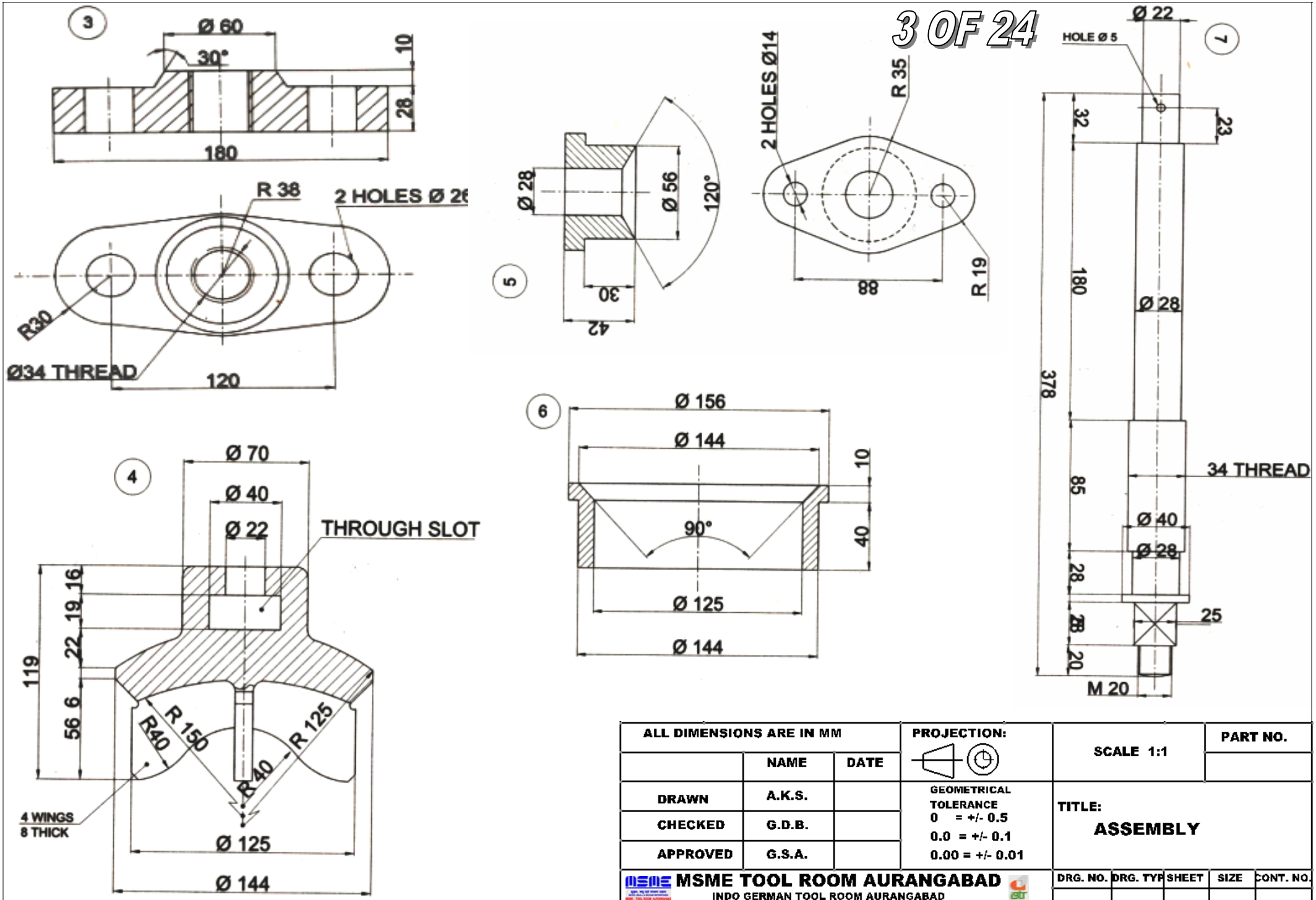




ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

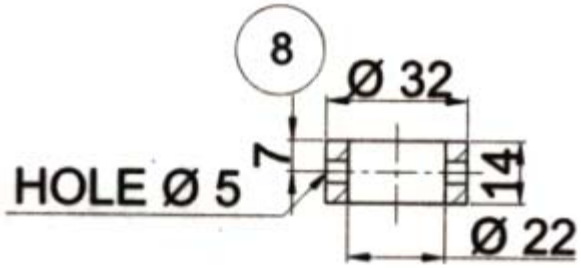
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



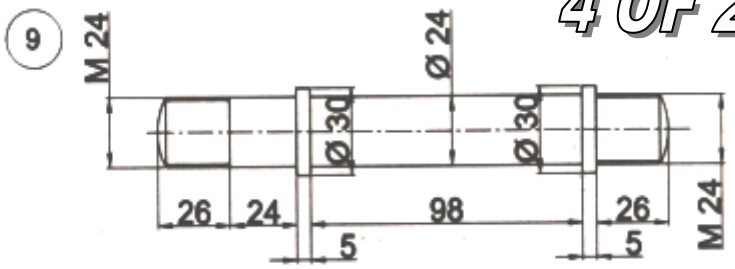
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

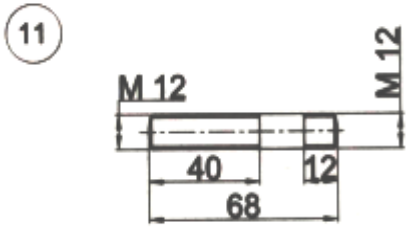
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

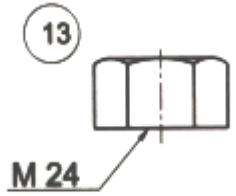
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

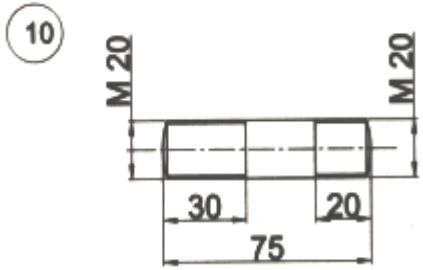


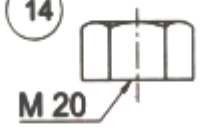


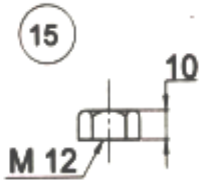


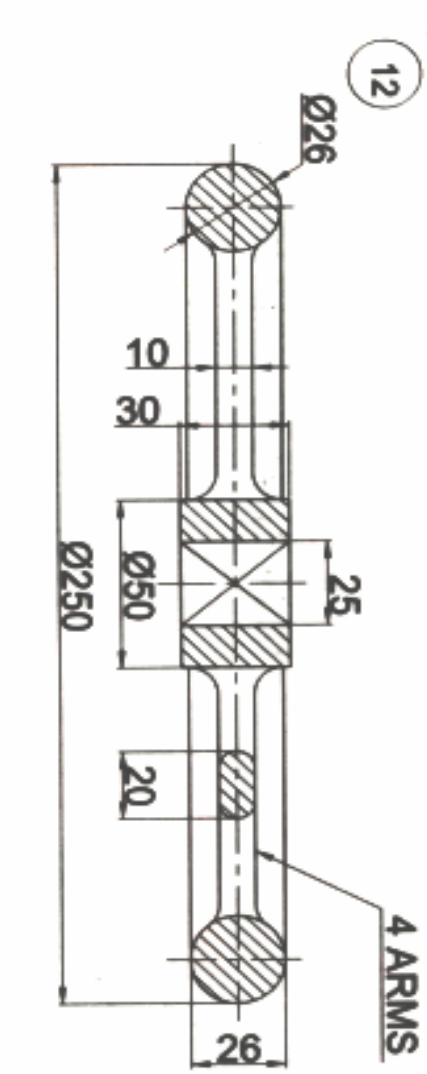








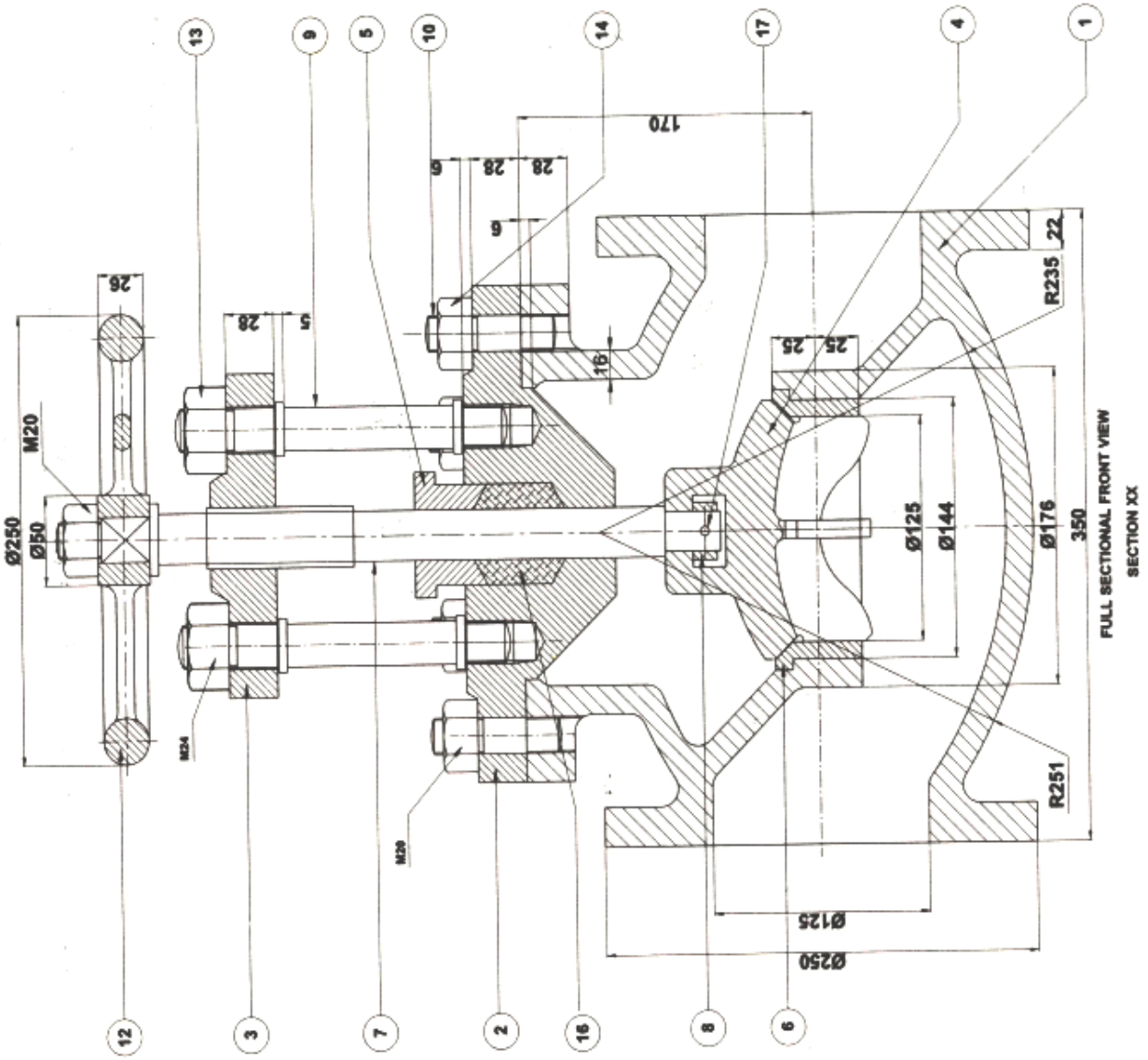


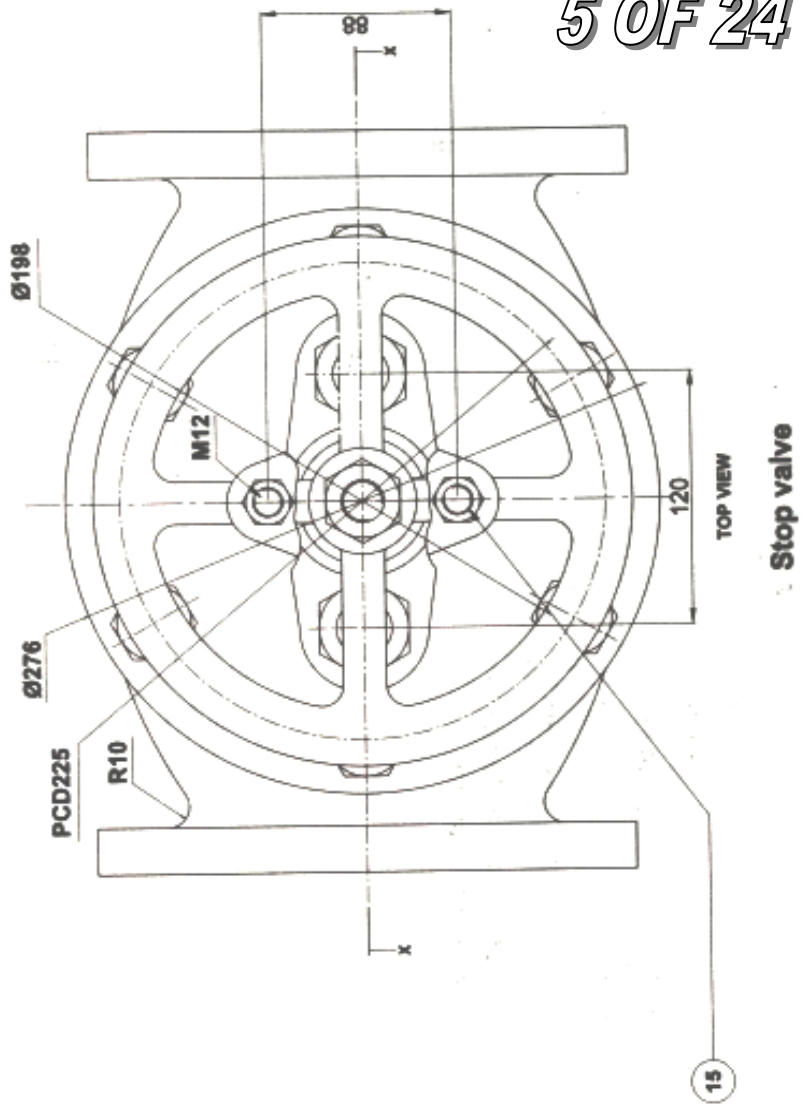


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



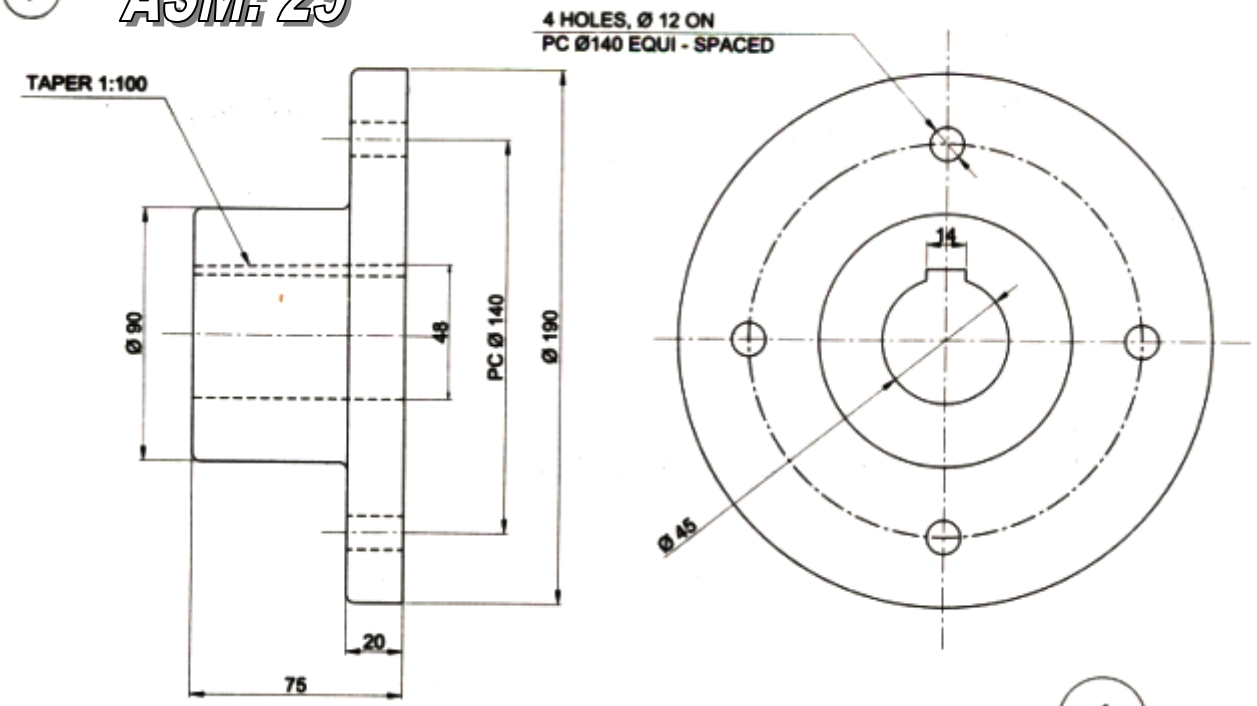


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

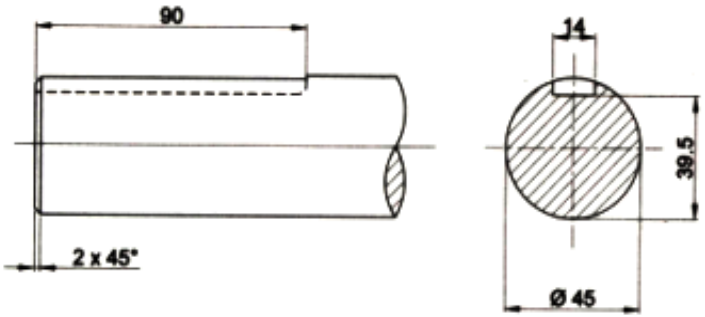
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

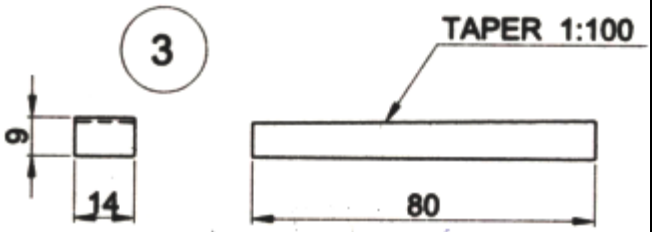
1



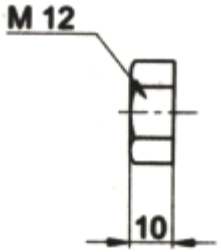
2



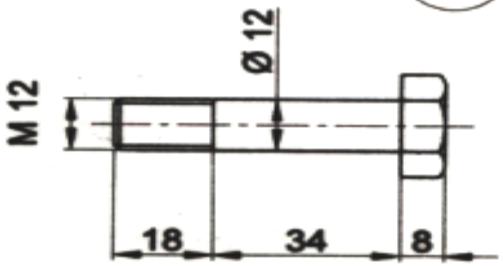
3



4



5



ALL DIMENSIONS IN mm

FILLET RADIUS R3 IF NOT MENTIONED

ITEM NO	DESCRIPTION	MATERIAL	NO OFF
5	HEX. NUT 4	Fe - 410 W	
4	HEX. BOLT 4	Fe - 410 W	
3	TAPER KEY	Fe - 410 W	2
2	SHAFT	Fe - 410 W	2
1	FLANGE	CI	2

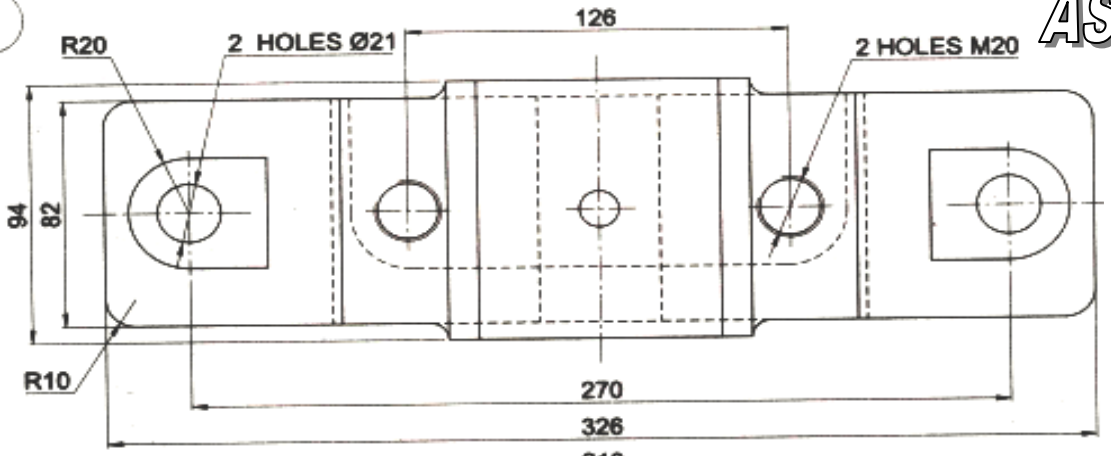
Details of flanged coupling (unprotected type)

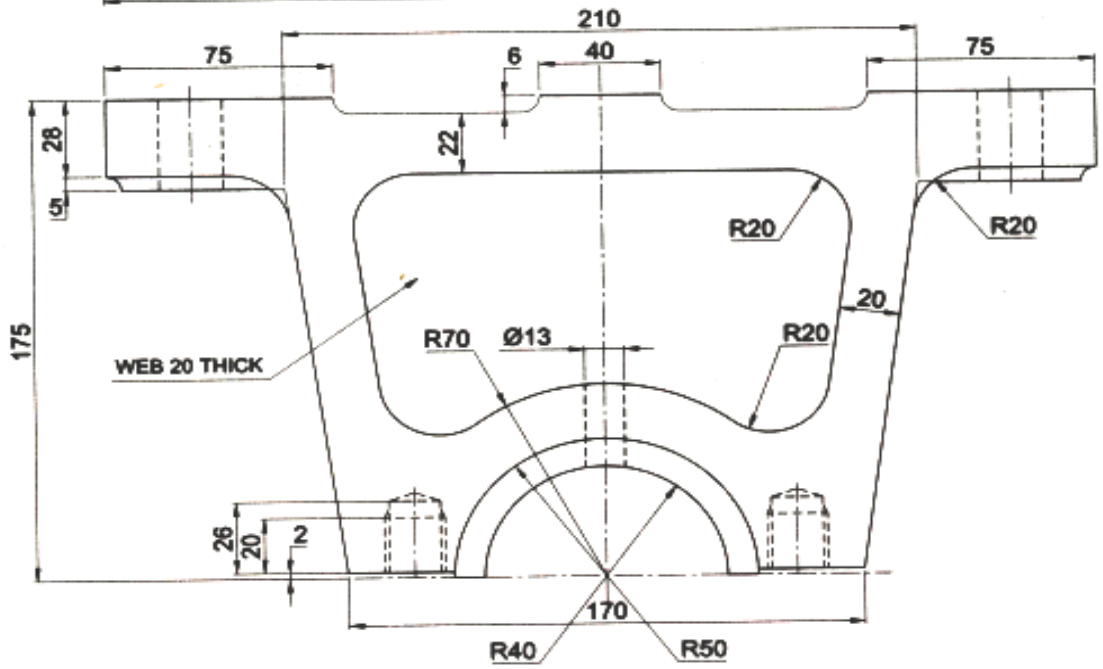
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

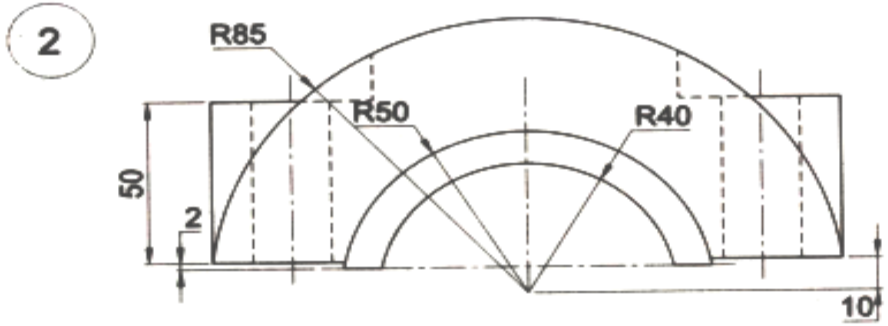
MSME TOOL ROOM AURANGABAD

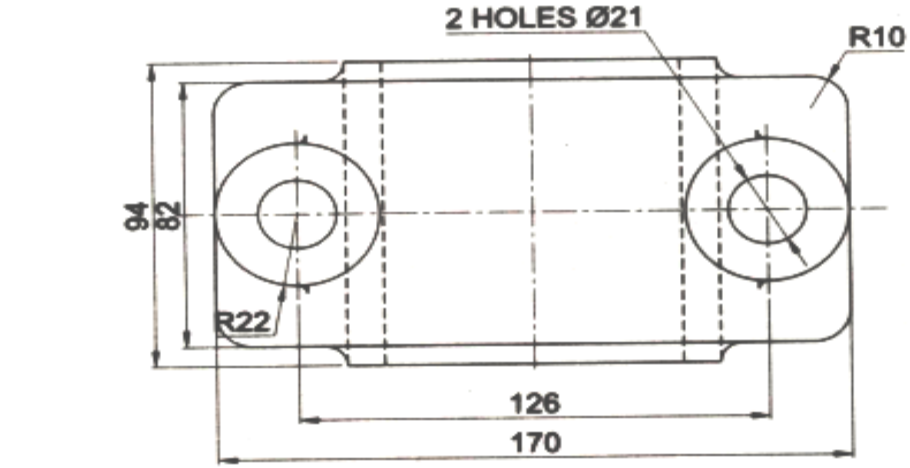
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.





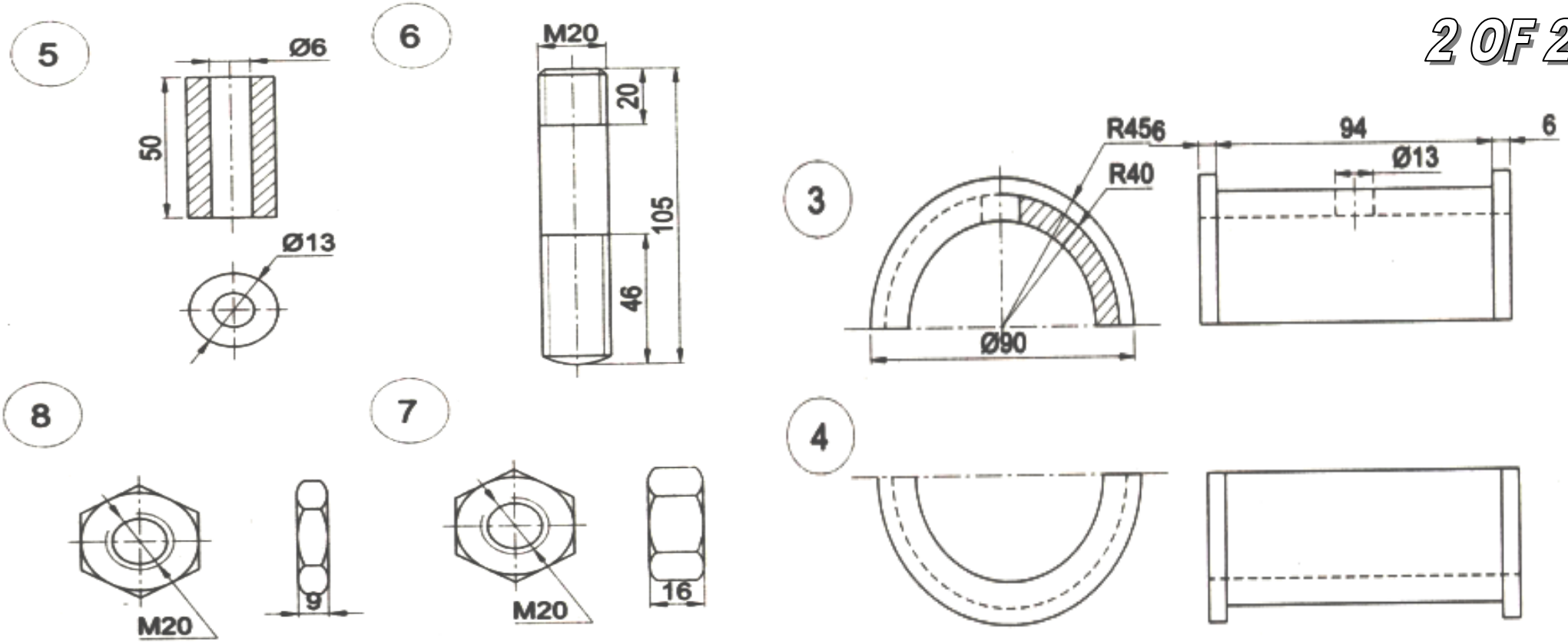




ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



ALL DIMENSIONS IN mm

ITEM NO	DESCRIPTION	MATERIAL	NO OFF
8	LOCK NUT M20	Fe 410 W	2
7	NUT M20	Fe 410 W	2
6	STUD	Fe 410 W	2
5	LUBRICATING CYLINDER	Fe 410 W	1
4	BRASS NO.2	GUN METAL	1
3	BRASS NO.1	GUN METAL	1
2	COVER	CAST IRON	1
1	SUPPORT CASTING	CAST IRON	1

Parts details of axle bearing

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

ASM: 27

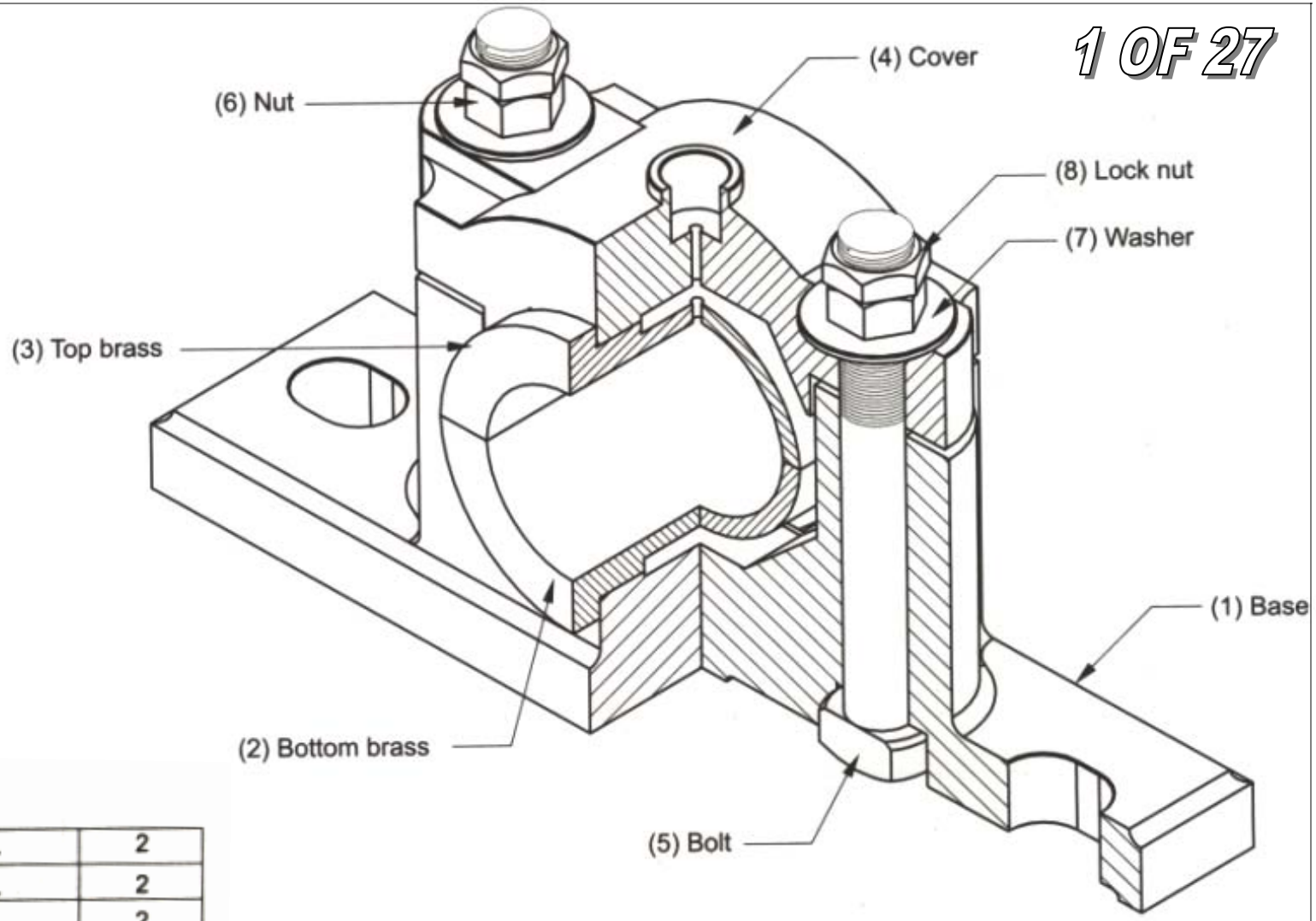


Figure Plummer block

ALL DIMENSIONS IN mm

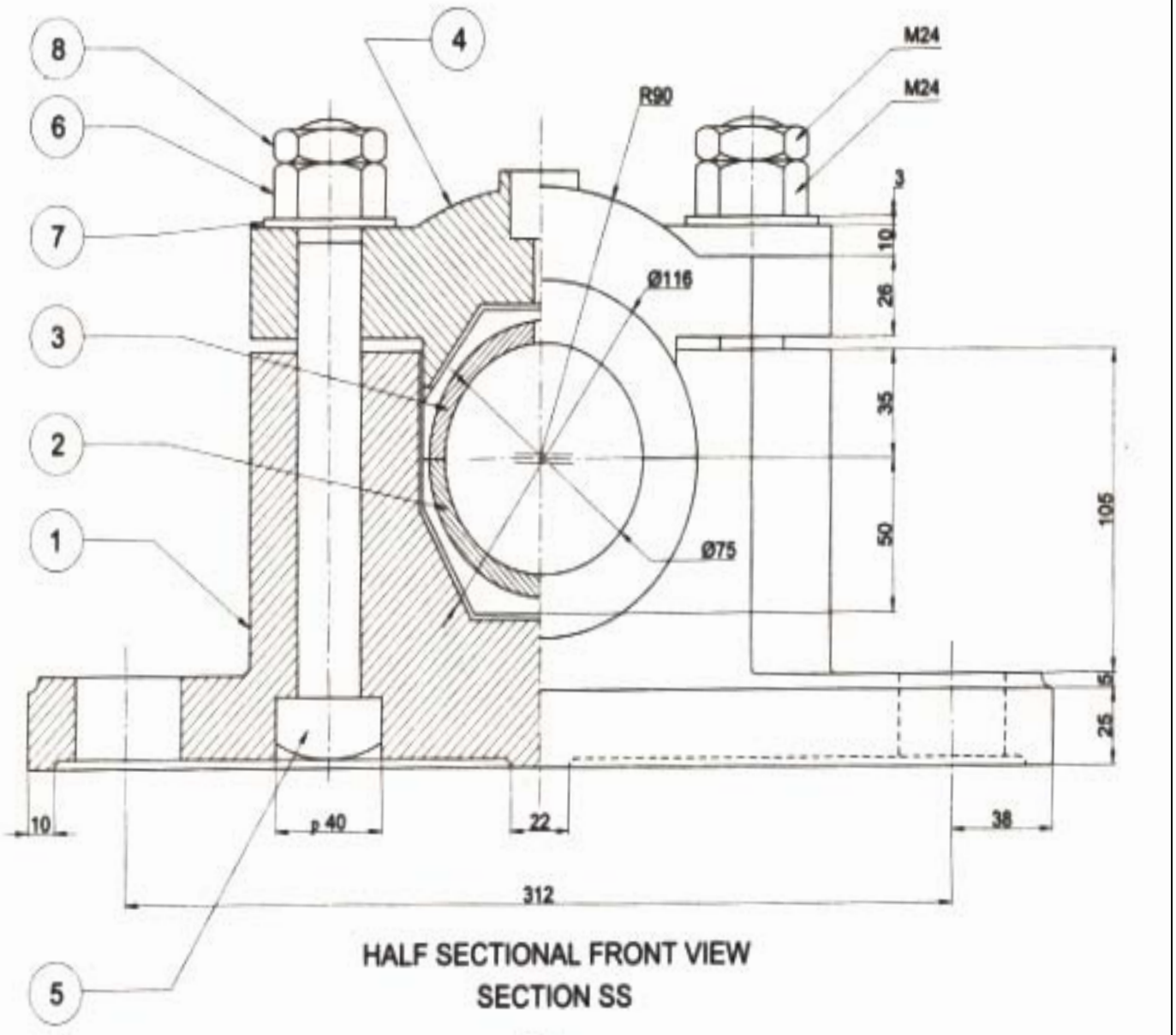
ITEM	DESCRIPTION	MATERIAL	NO OFF
8	LOCKNUT	M.S.	2
7	WASHER	M.S.	2
6	NUT	M.S.	2
5	BOLT	M.S.	2
4	COVER	C.I.	1
3	BRASS (TOP)	BRASS	1
2	BRASS (BOTTOM)	BRASS	1
1	BLOCK	C.I.	1

Parts details of plummer block

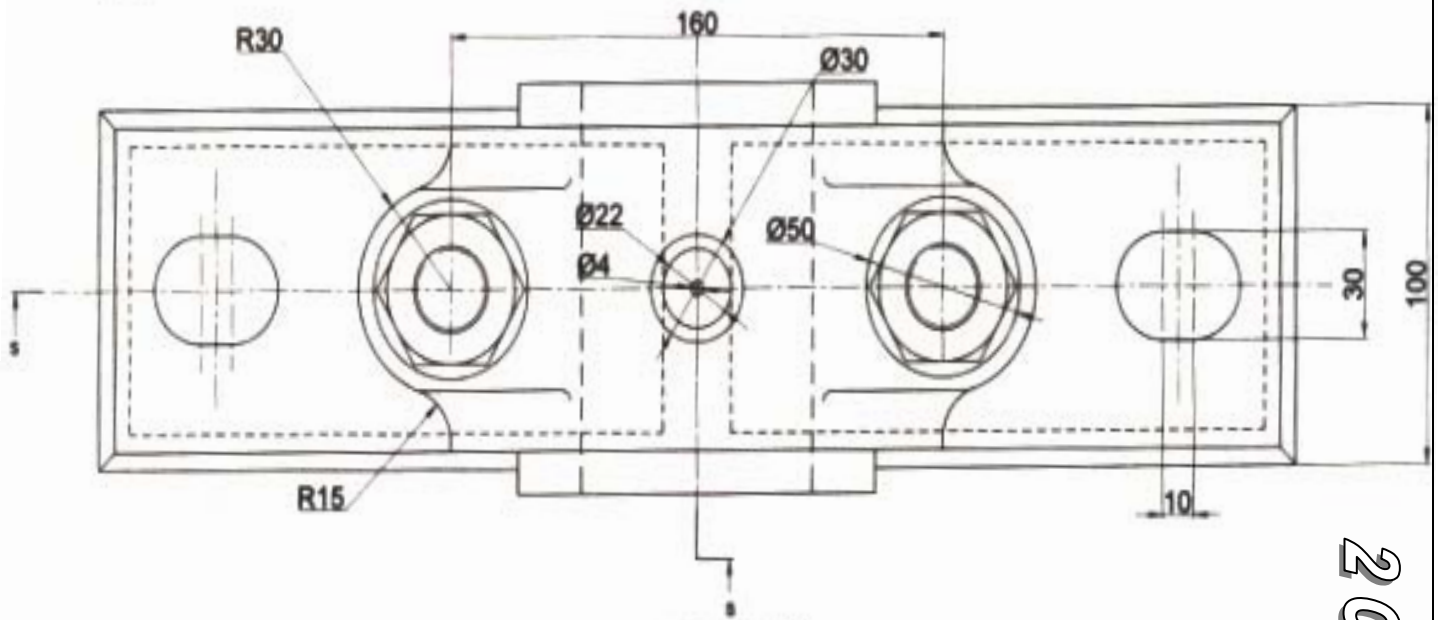
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

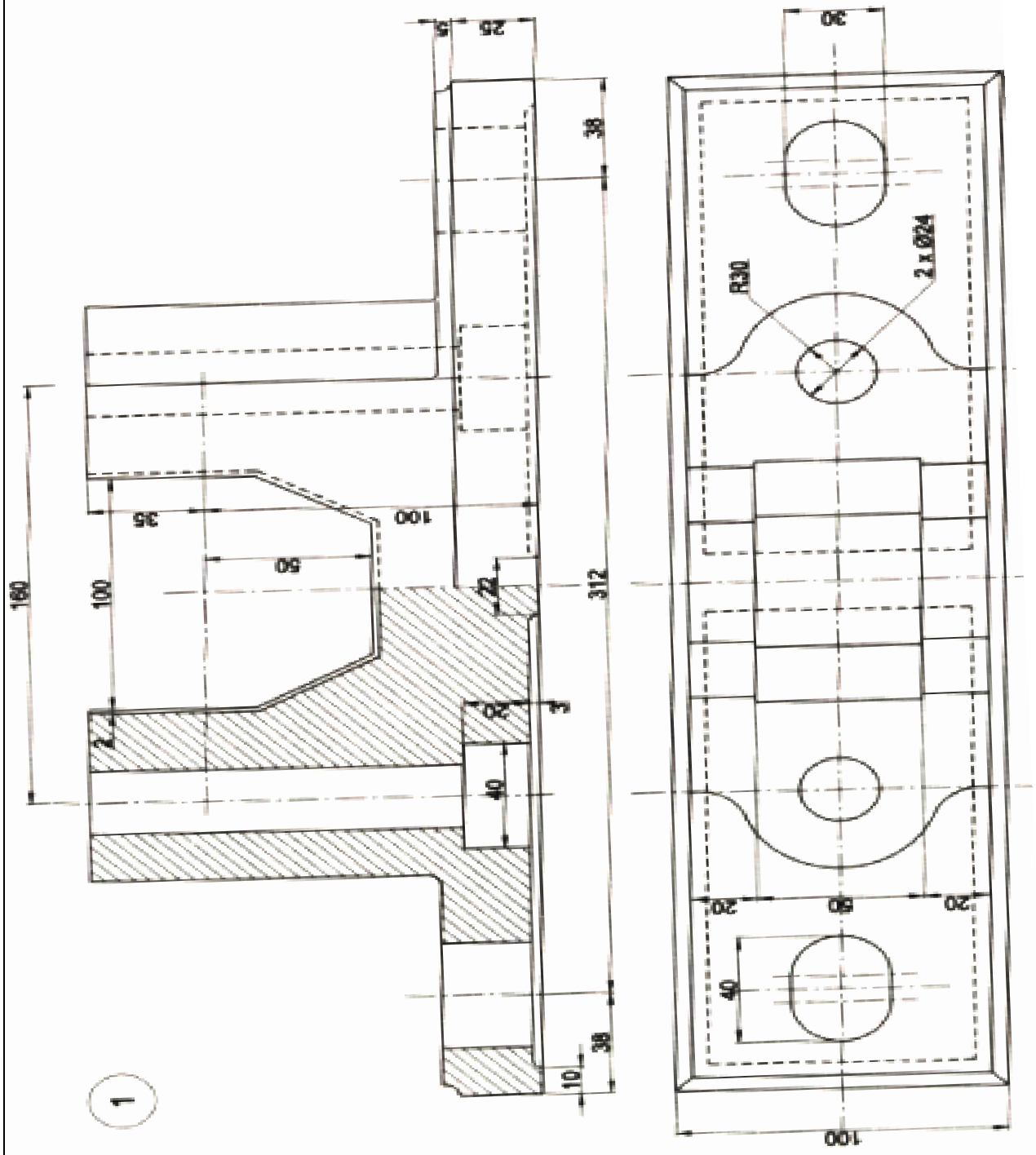


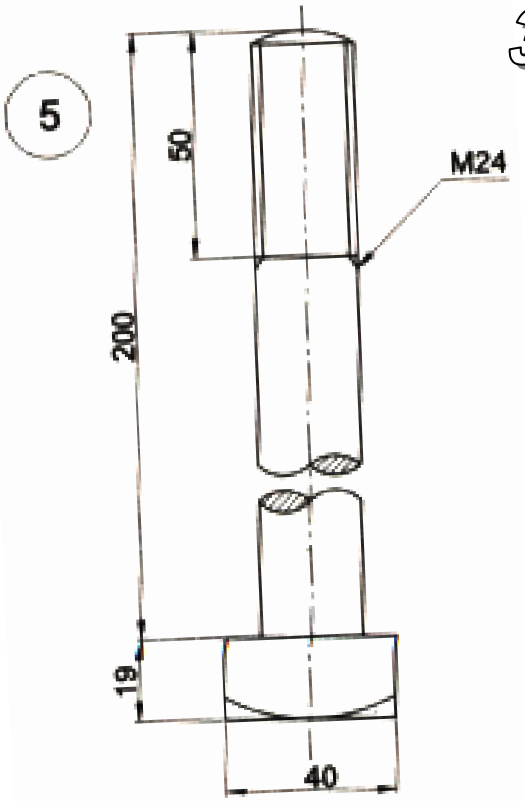
HALF SECTIONAL FRONT VIEW
SECTION SS

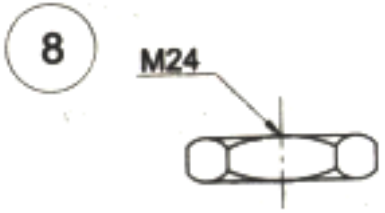


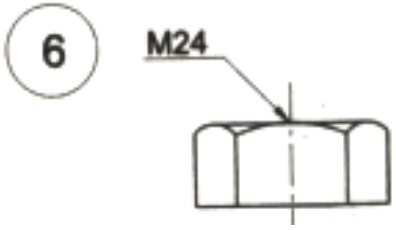
TOP VIEW

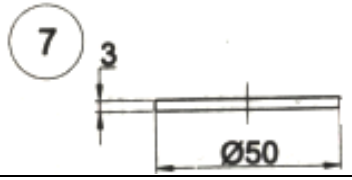
Plummer block

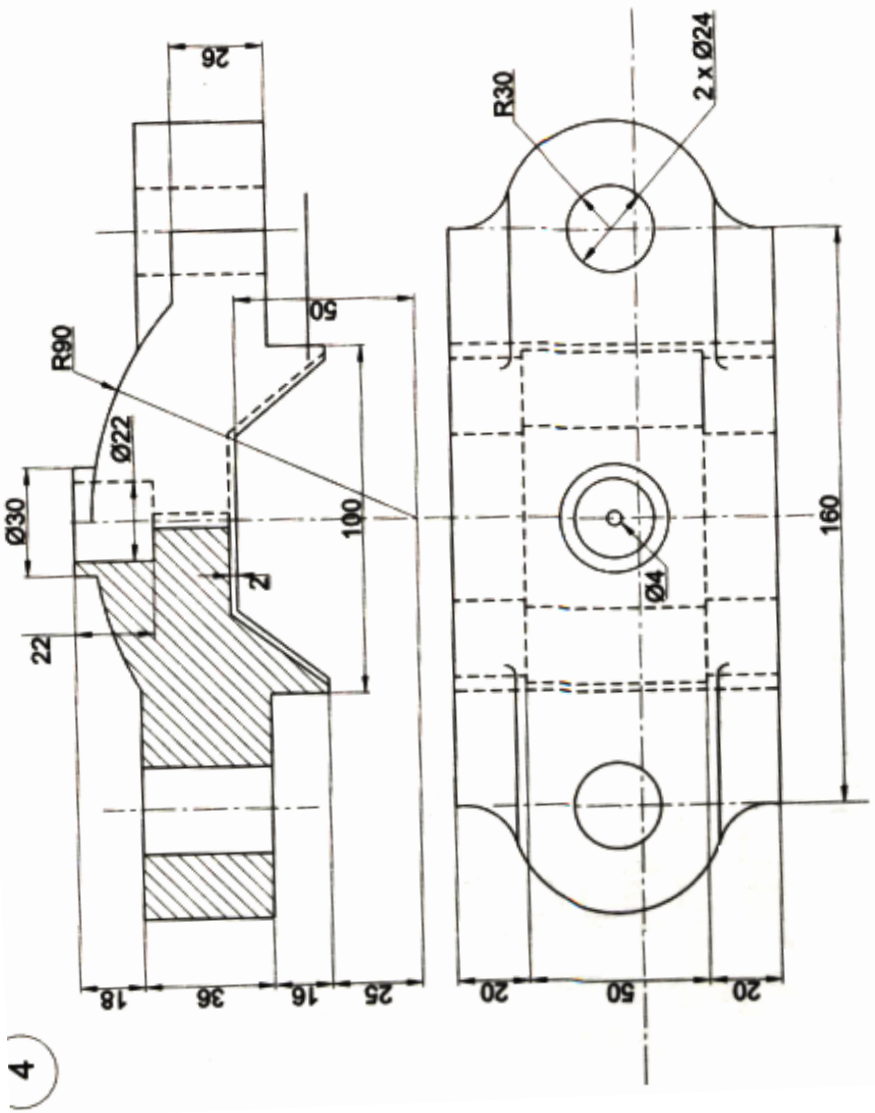

25
5
38
30
R30
2 x Ø24
160
100
35
100
50
22
312
2
3
40
38
10
20
60
20
40
100
1

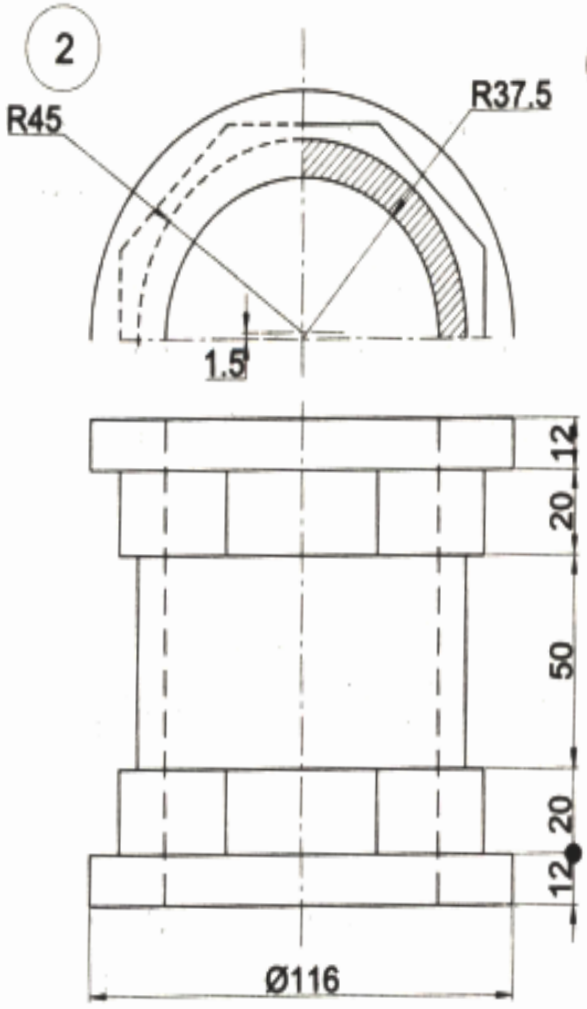

5
50
M24
200
19
40

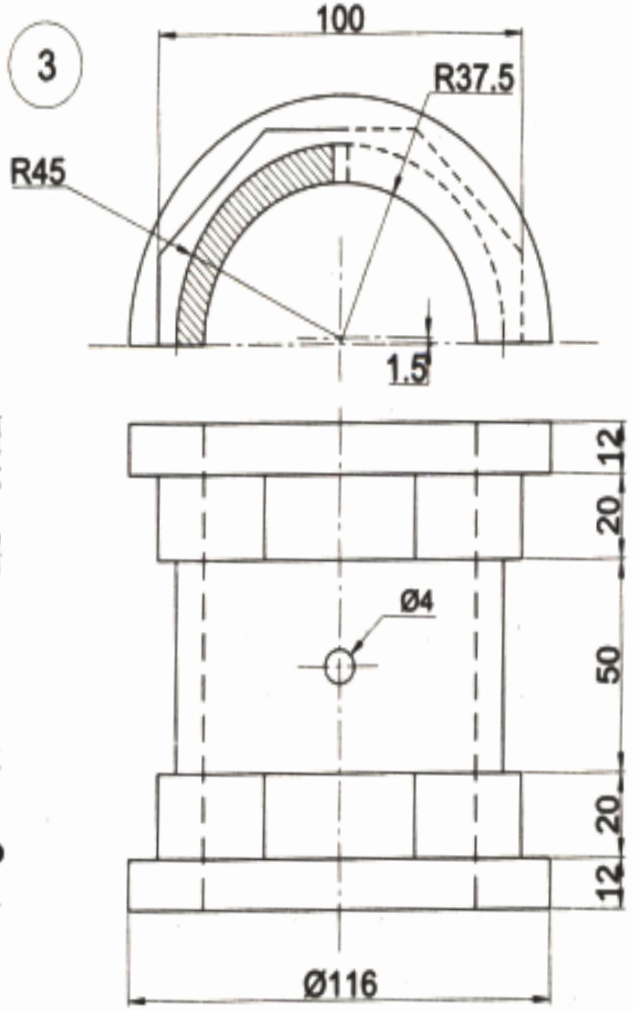

8
M24


6
M24


7
3
Ø50





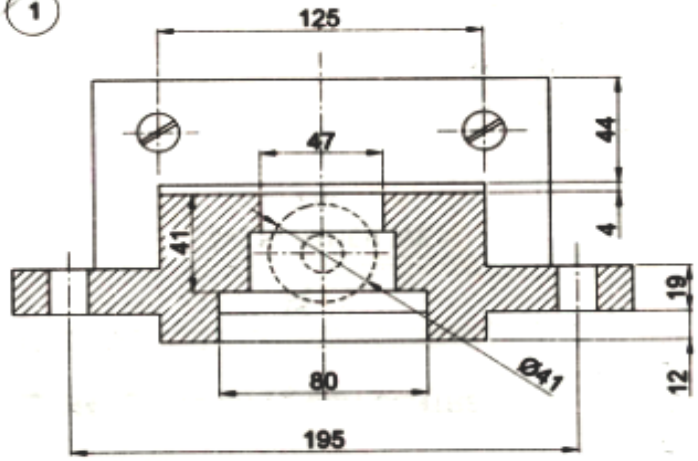


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

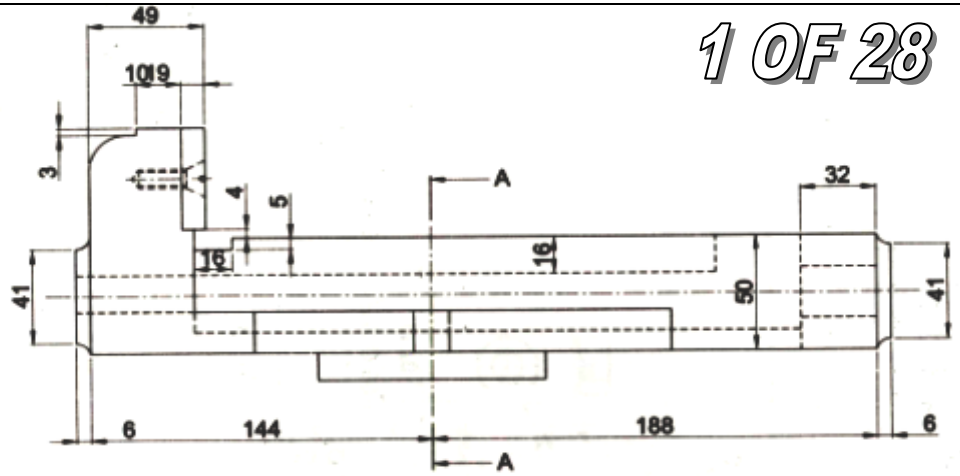
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

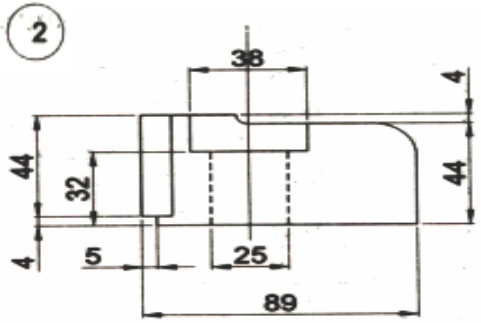
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

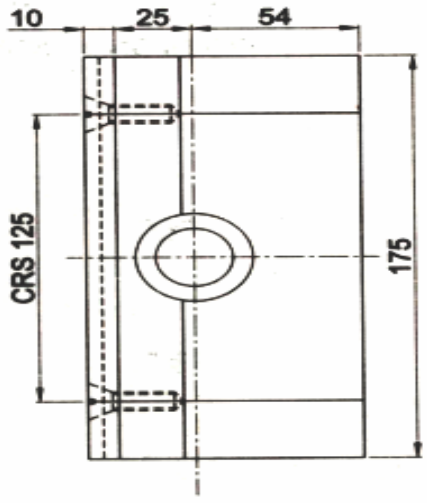
ASM: 28



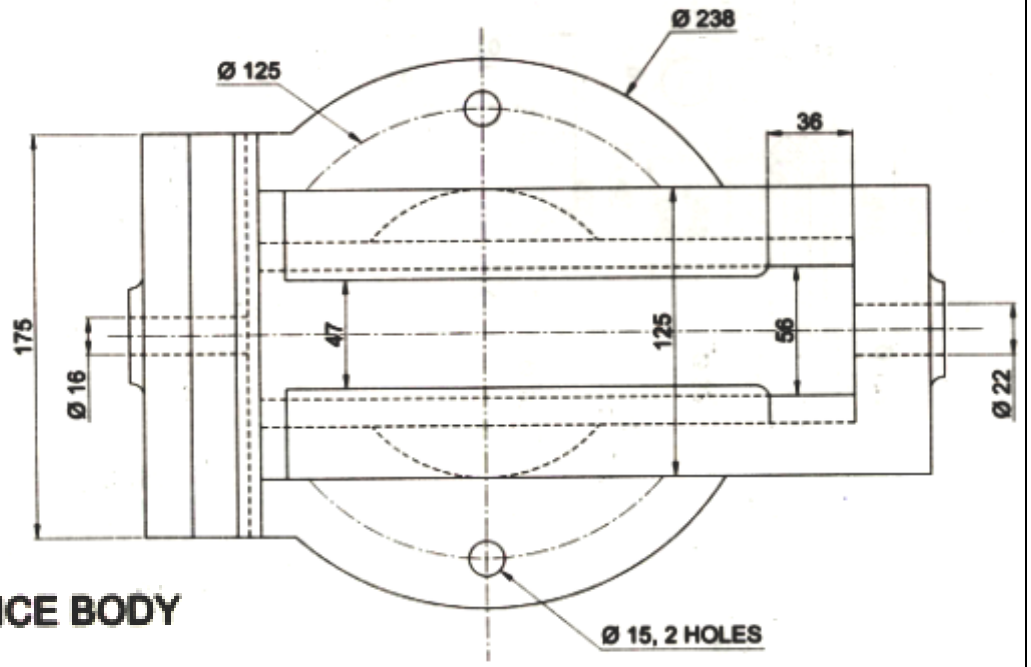
SECTION A-A







SLIDING JAW

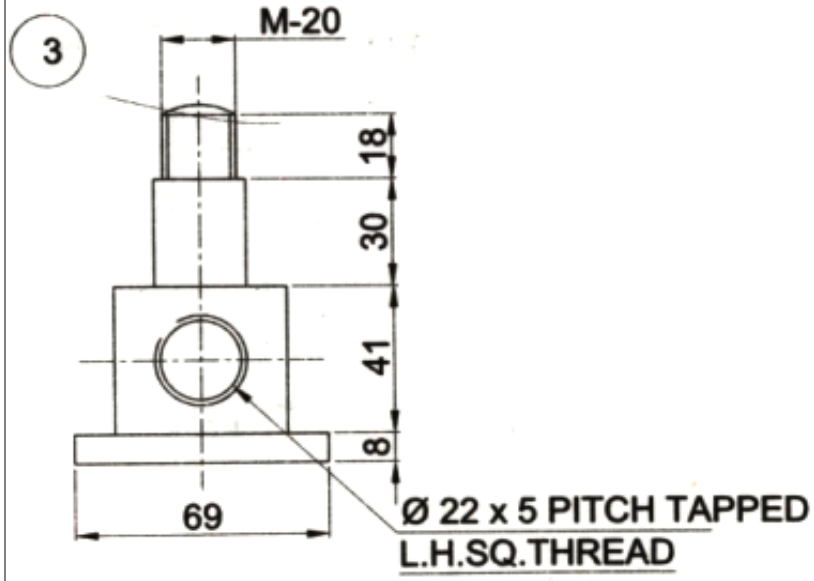


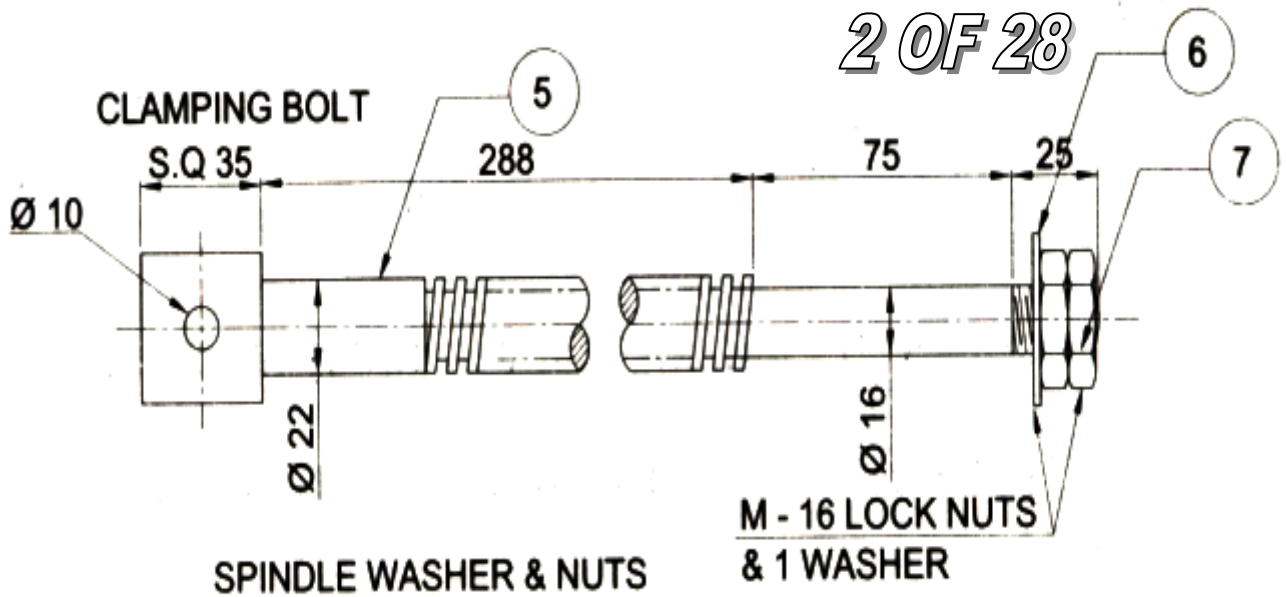
VICE BODY

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

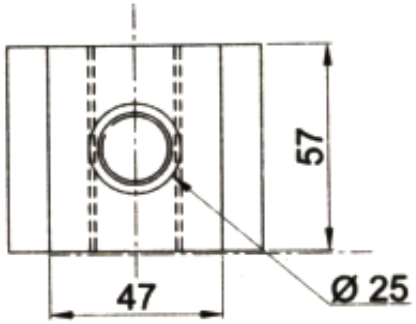
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

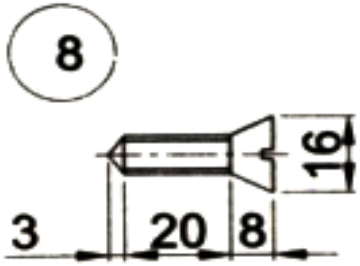
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



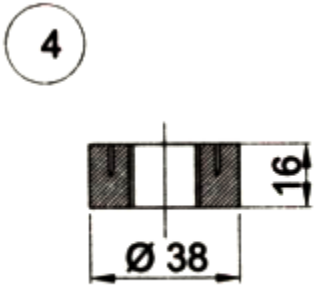


SPINDLE WASHER & NUTS





SET SCREW



TOMMY NUT

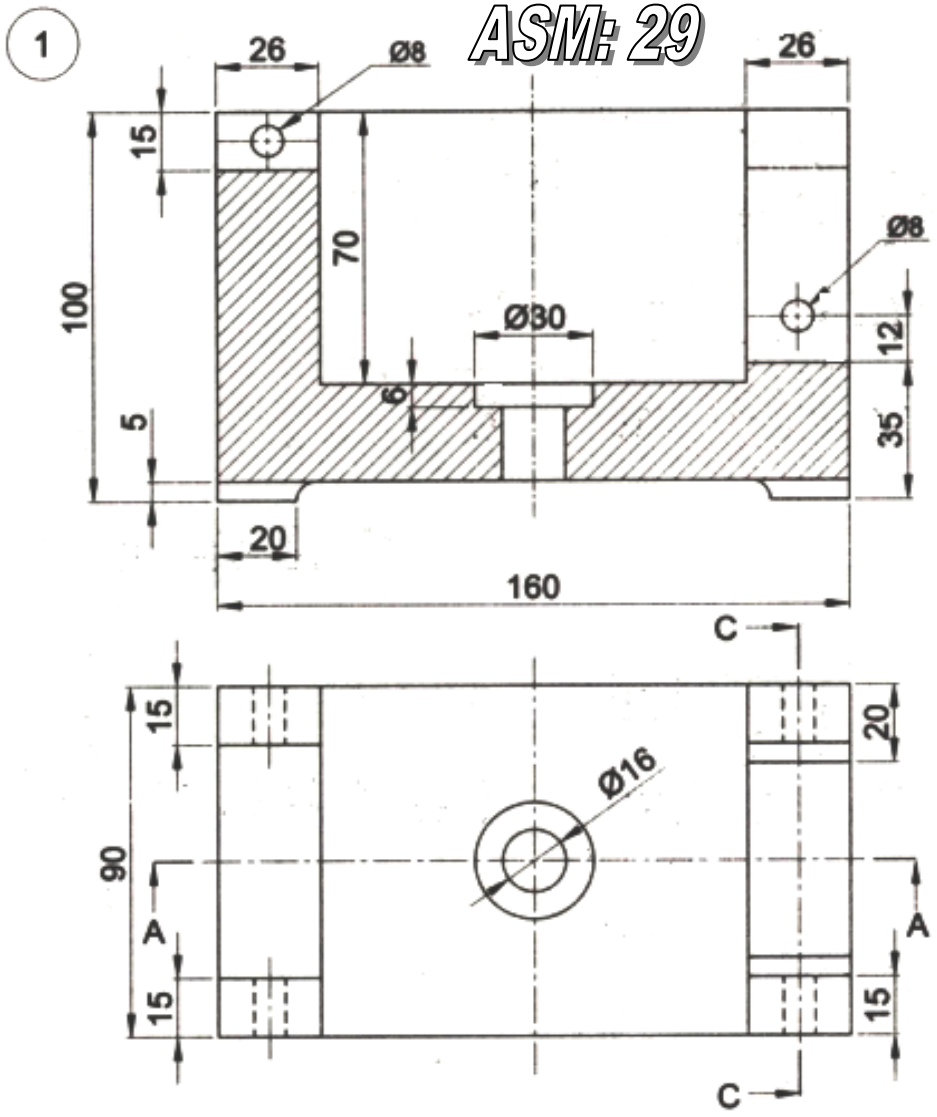
ALL DIMENSIONS IN mm

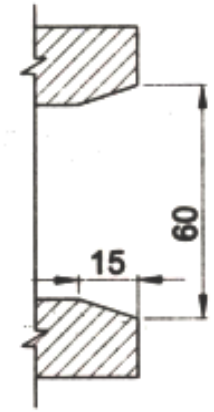
ITEM NO	DESCRIPTION	MATERIAL	NO OFF
8	SETSCREW	M.S.	4
7	NUTS	M.S.	2
6	WASHER	M.S.	1
5	SPINDLE	M.S.	1
4	TOMMY NUT	M.S.	1
3	CLAMPING BOLT	M.S.	1
2	SLIDING JAW	C.I.	1
1	VICE BODY	C.I.	1

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

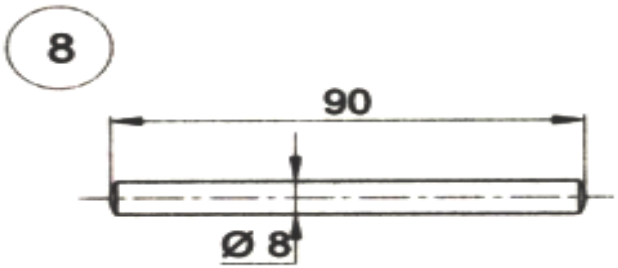
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

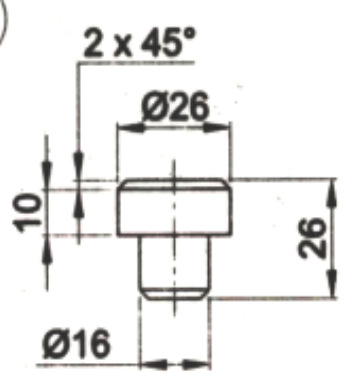
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.





SECTION CC





ALL DIMENSIONS IN mm

ITEM	DESCRIPTION	MATERIAL	NO OFF
9	BOLT CAP(STARRED)	M.S.	1
8	HINGE PIN	M.S.	2
7	LATCH BOLT	M.S.	1
6	LOCATING PIN	STEEL	1
5	WORK PIECE	C.I.	1
4	JIG BUSH	BRASS	4
3	SCREW FOR WORK PIECE	M.S.	1
2	LATCH PLATE	M.S.	1
1	BASE	C.I.	1

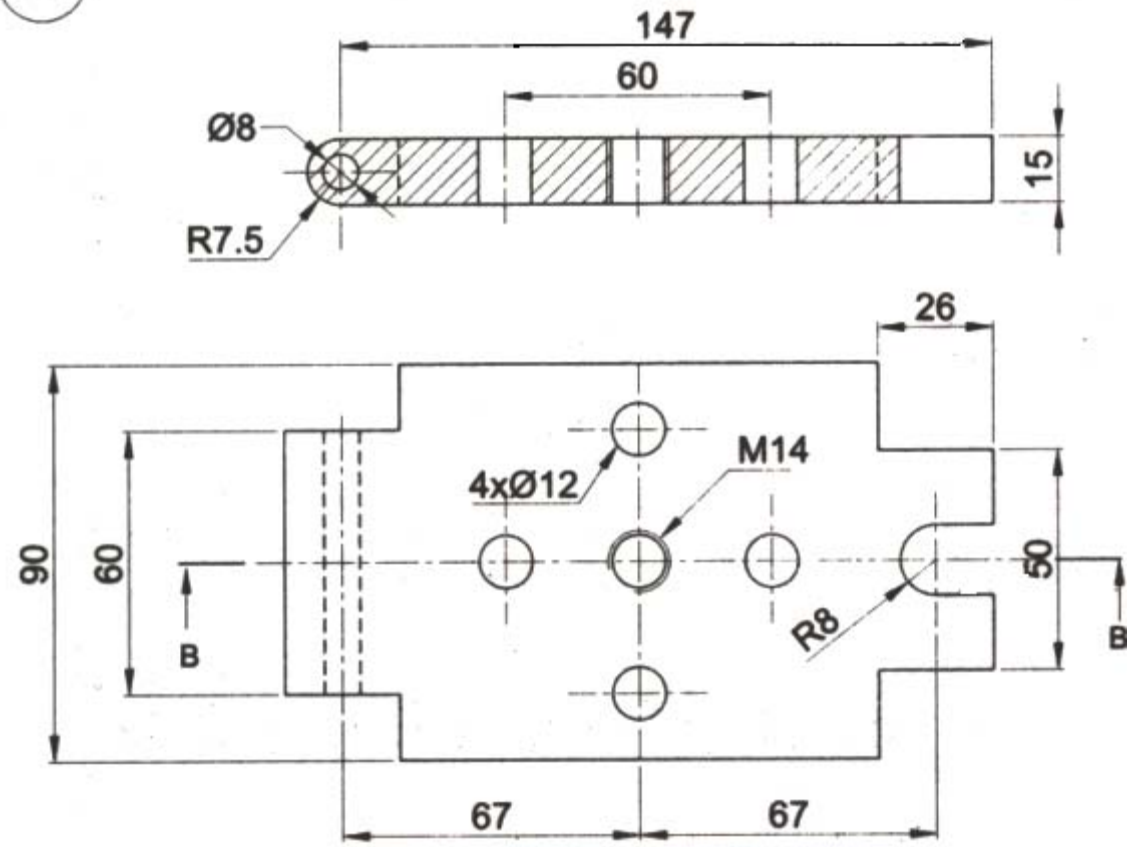
Drill jig (latch type)

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

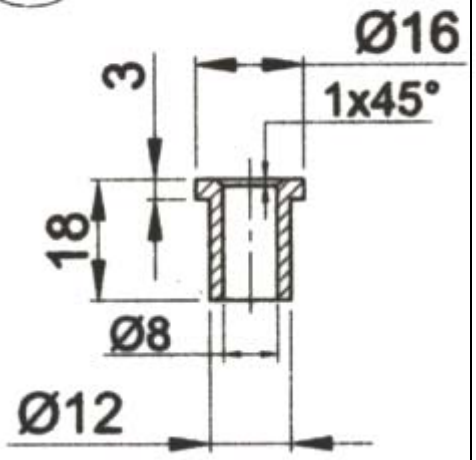
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

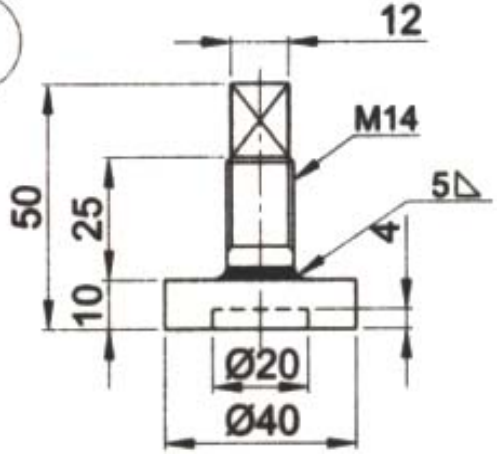
2



4



3

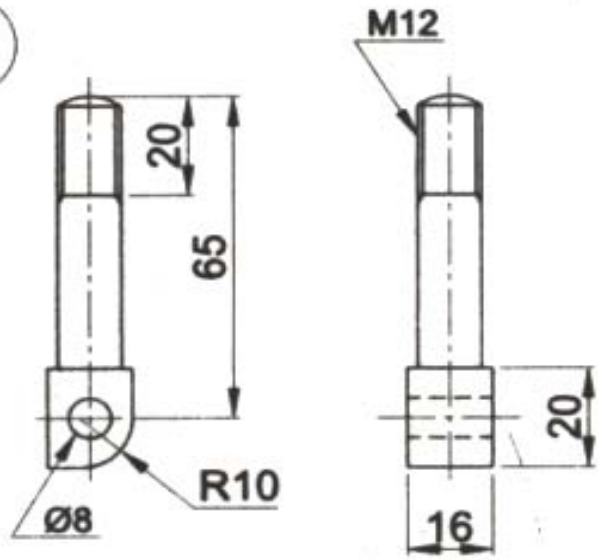


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

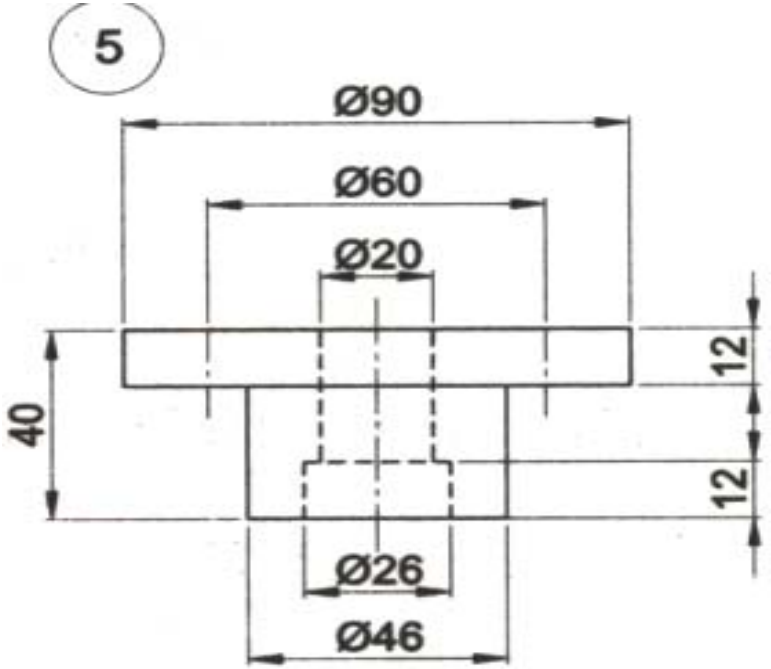
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

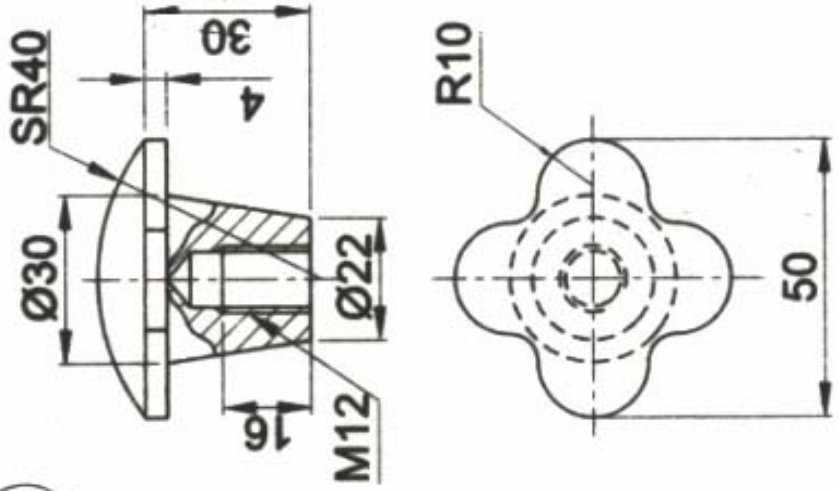
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

7



5



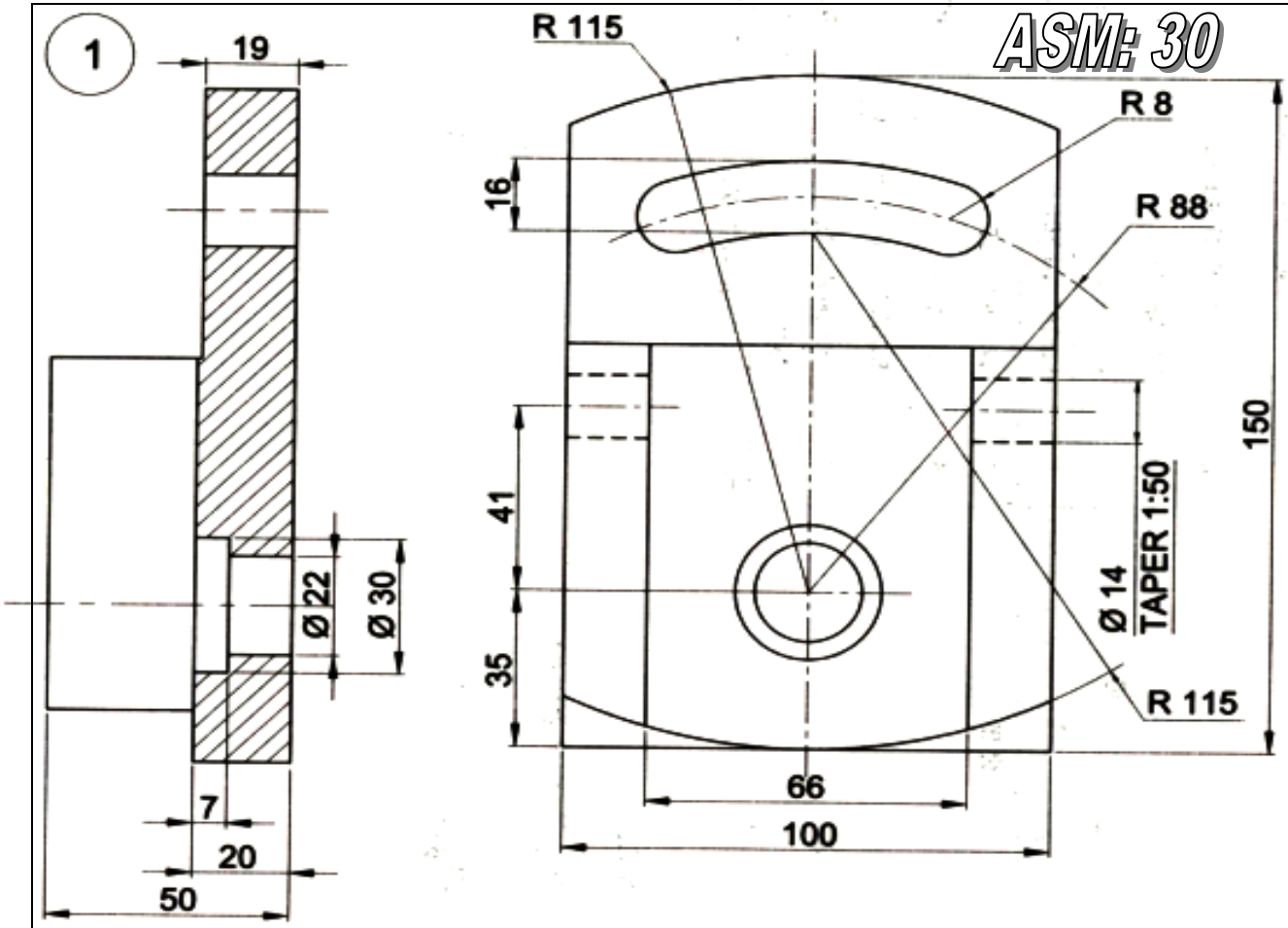


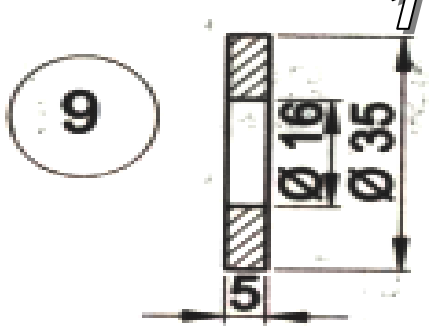
9

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

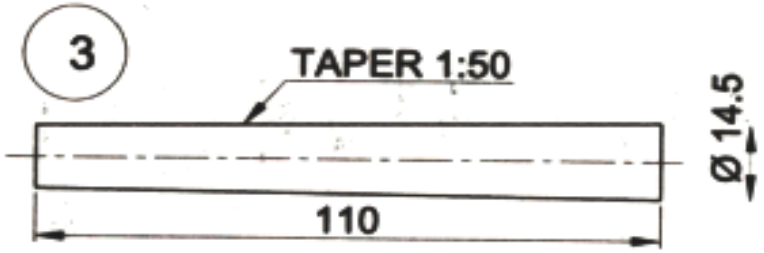




ALL DIMENSIONS IN mm

ITEM NO	DESCRIPTION	MATERIAL	NO OFF
9	WASHER	M.S.	1
8	TOOL FIXING SCREW	M.S.	4
7	WASHER	M.S.	2
6	CLAMPING SCREW	M.S.	1
5	SWIVEL SCREW PIN	M.S.	1
4	TOOL HOLDER	M.S.	1
3	PIVOT PIN	M.S.	1
2	DRAG PLATE	C.I.	1
1	SWIVEL PLATE	C.S	1

Parts details of clapper box

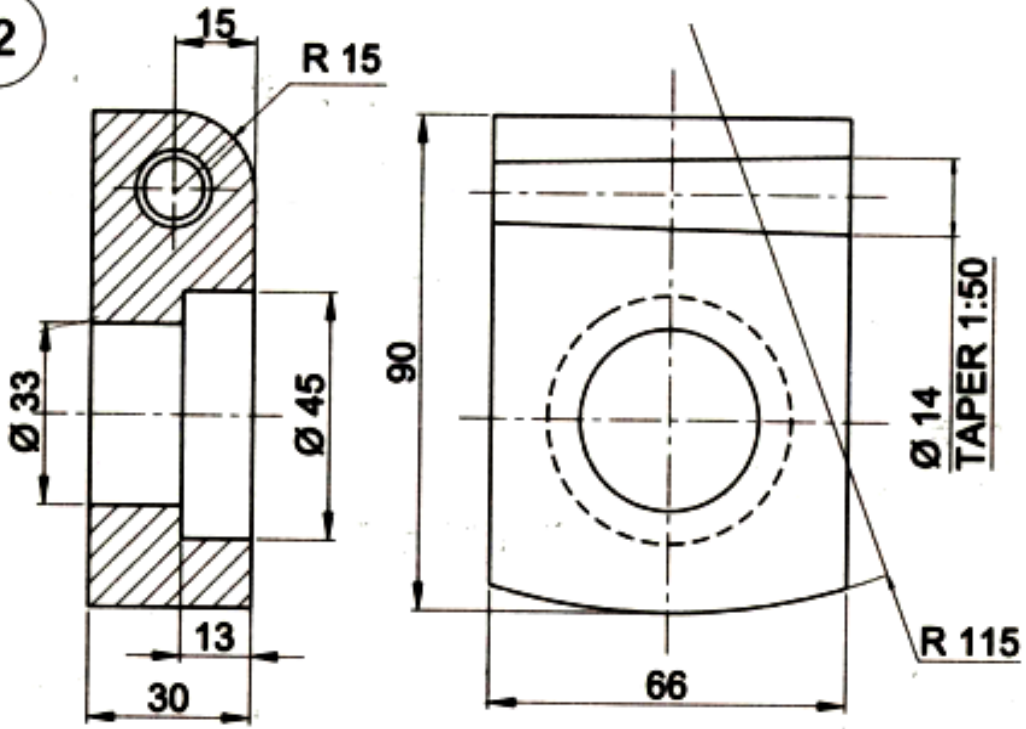


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

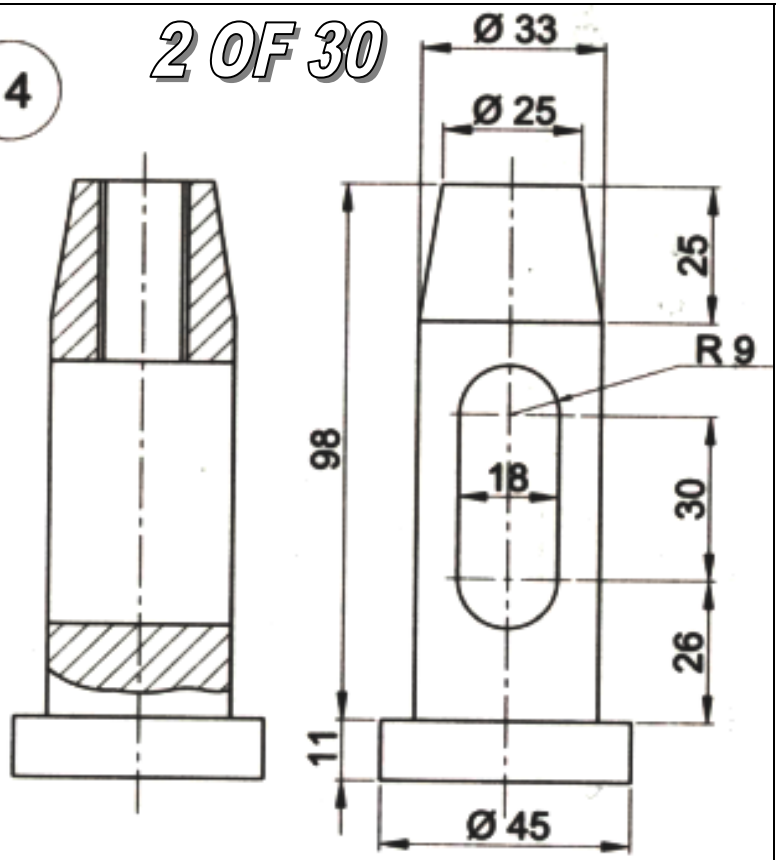
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

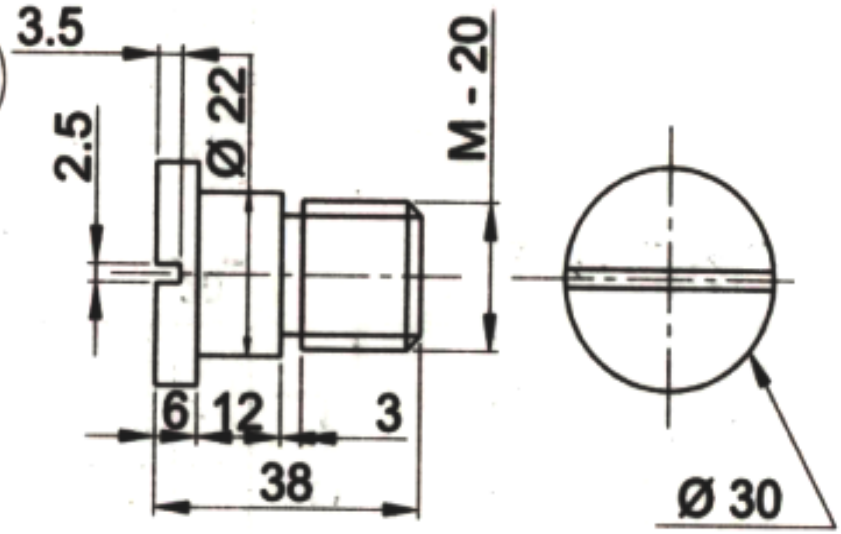
2



4



5

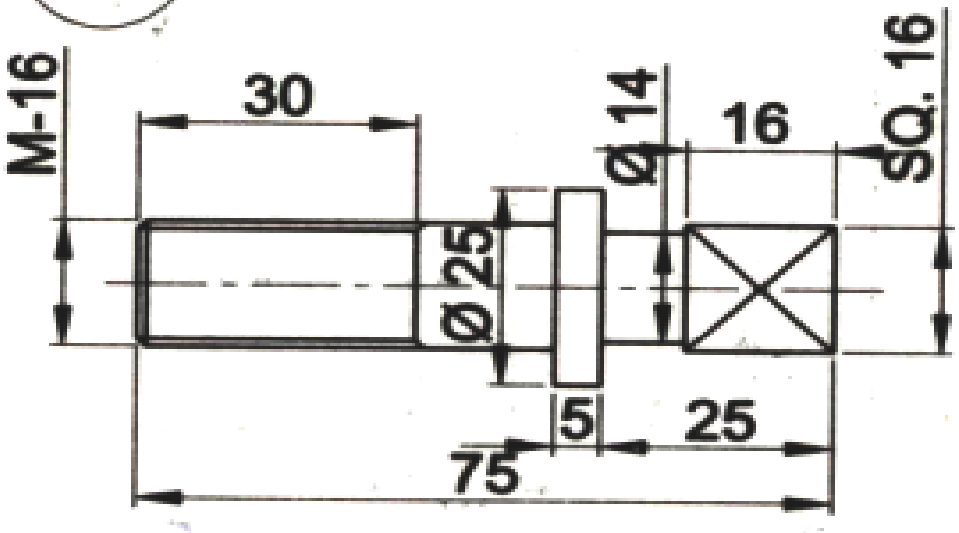


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

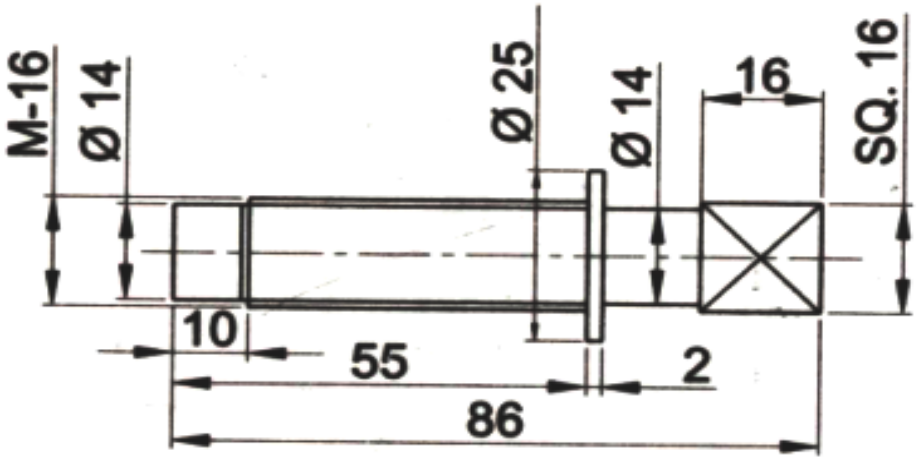
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

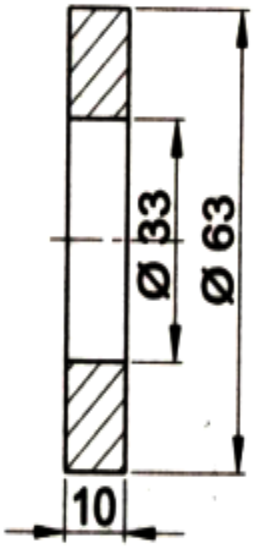
6



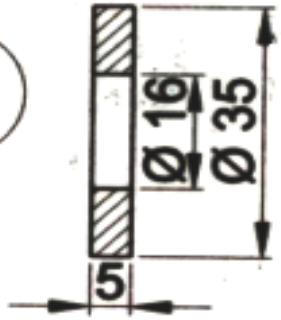
8



7



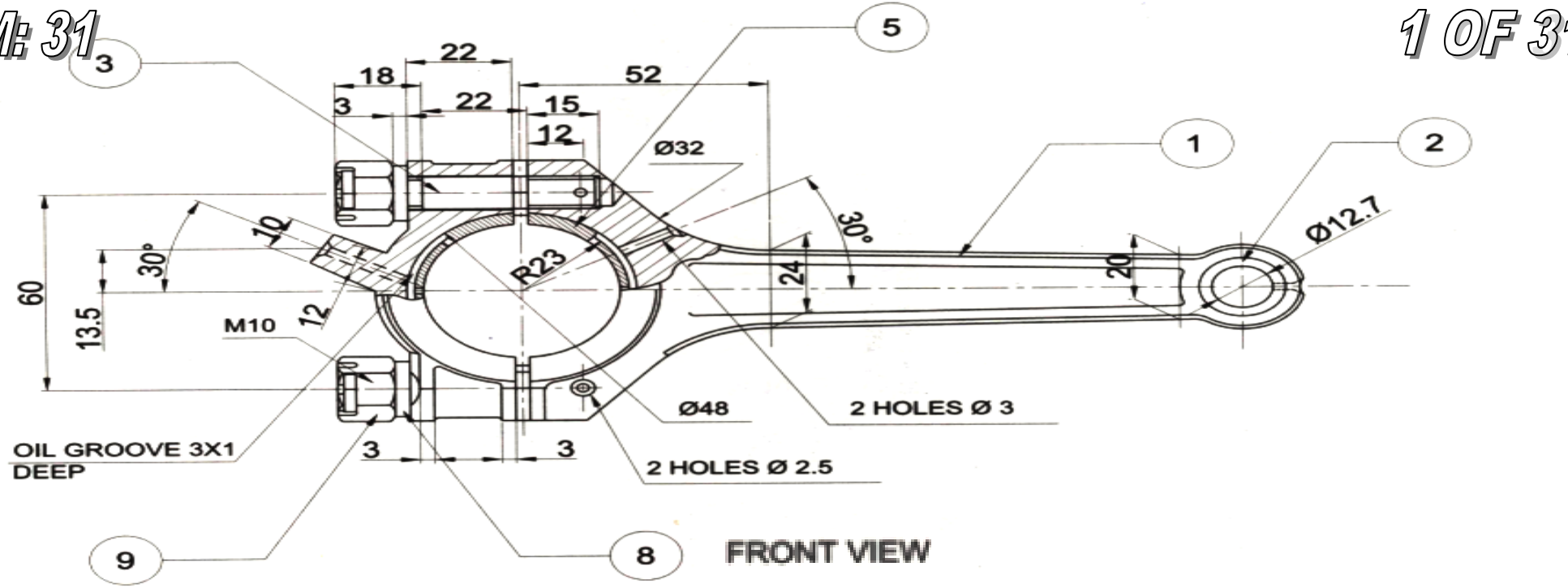
9

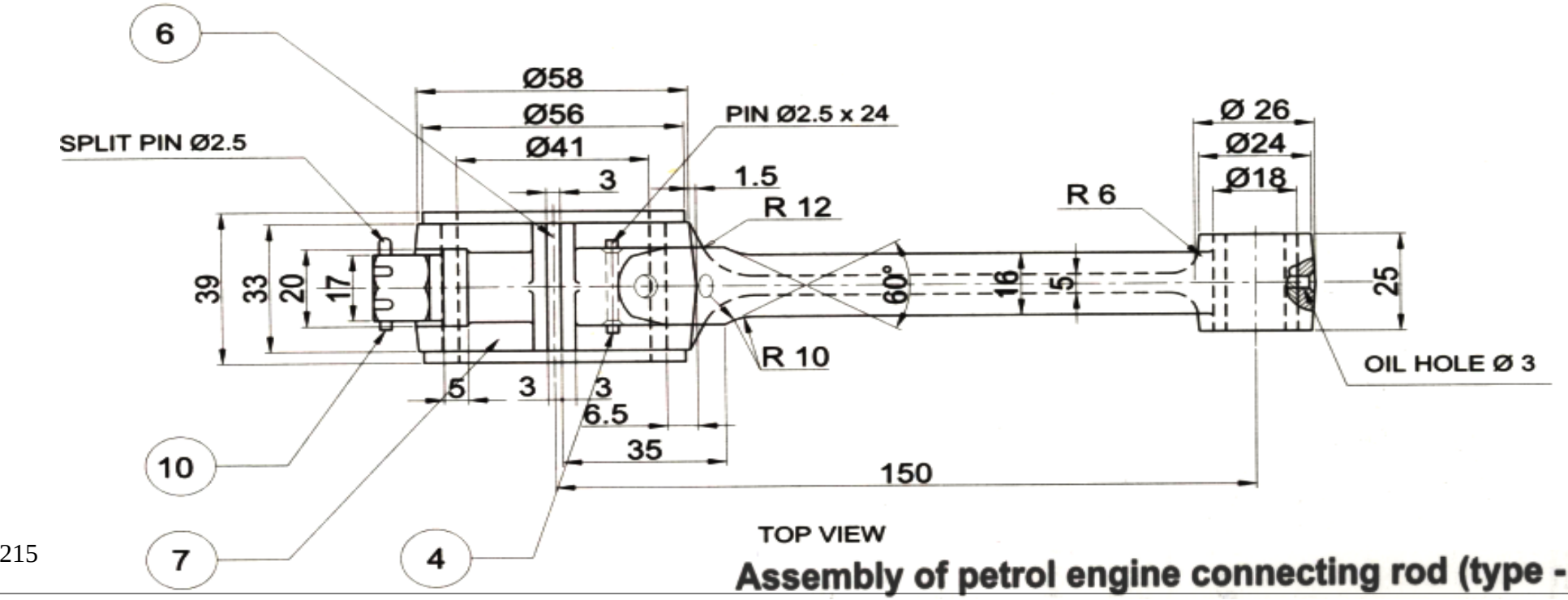


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

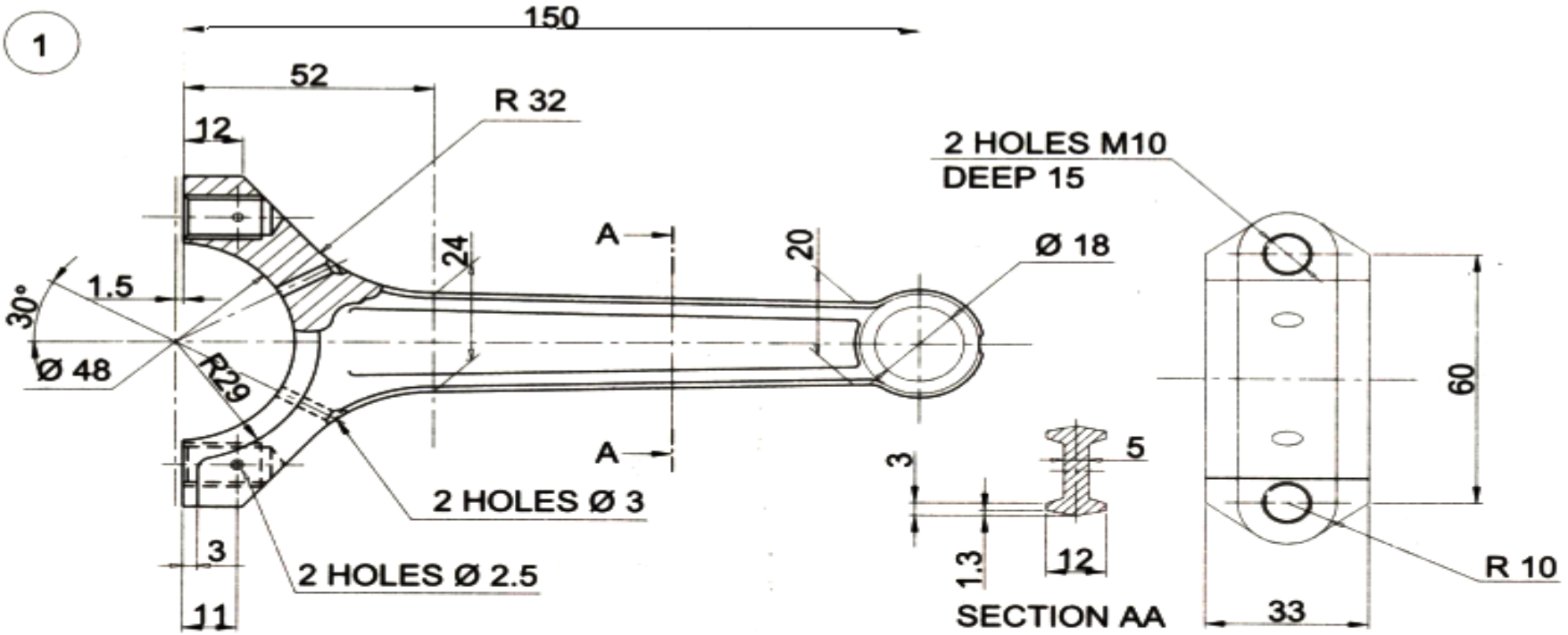
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

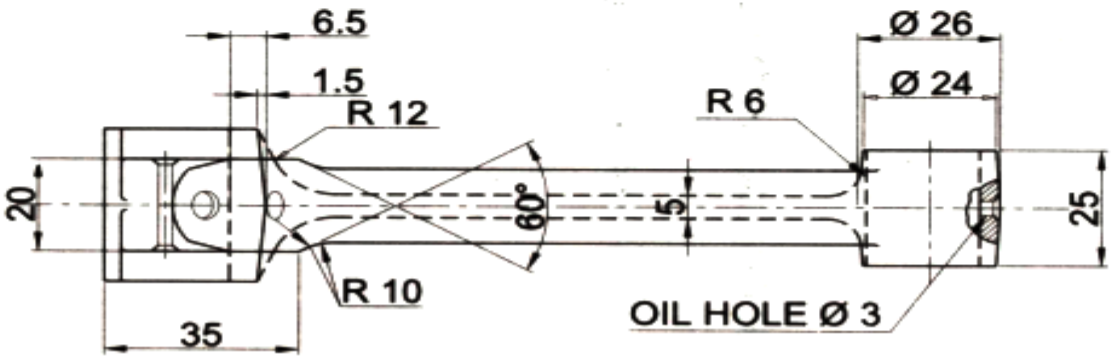




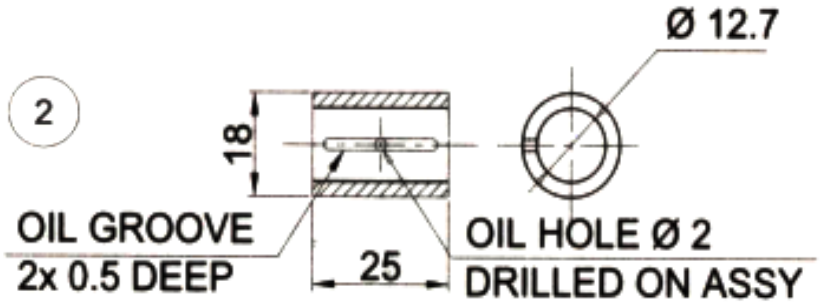
Assembly of petrol engine connecting rod (type - II)

1





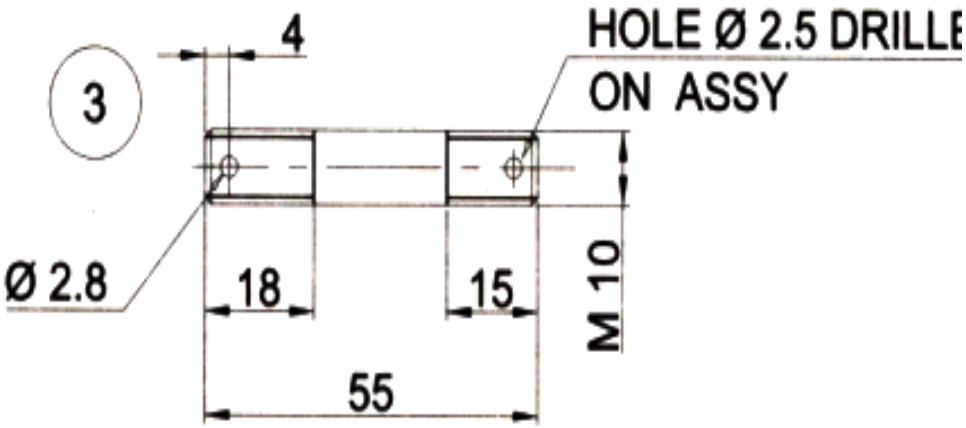
2

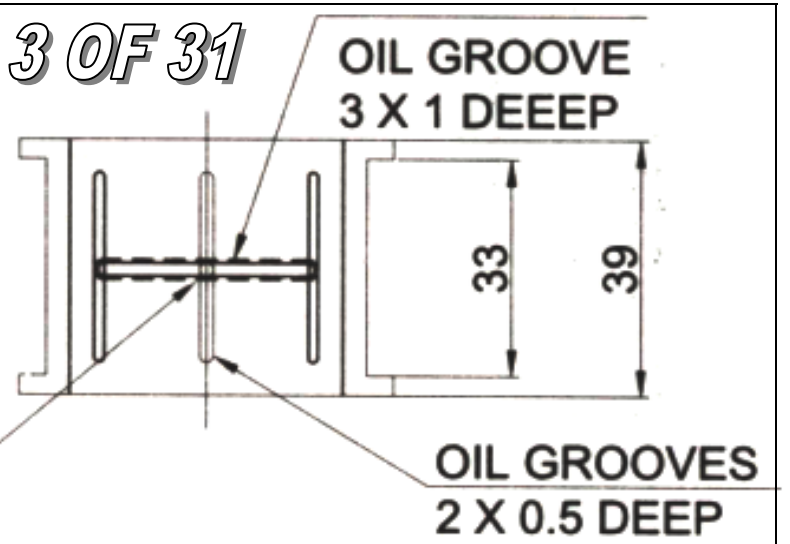


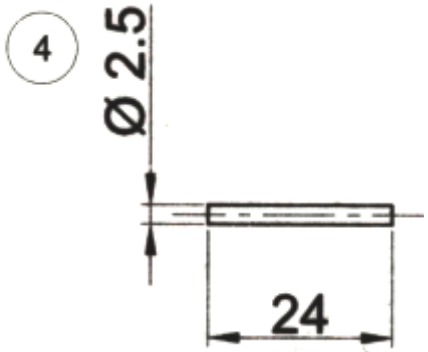
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

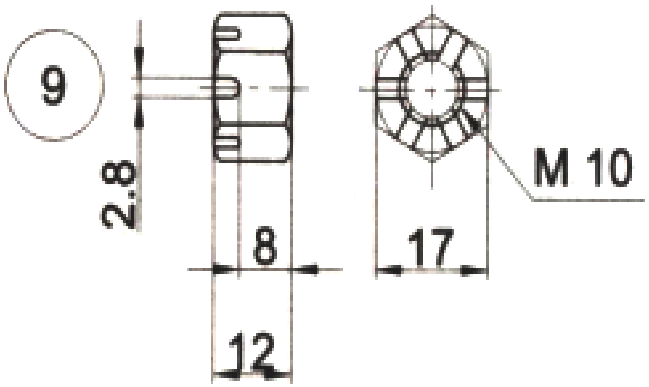
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

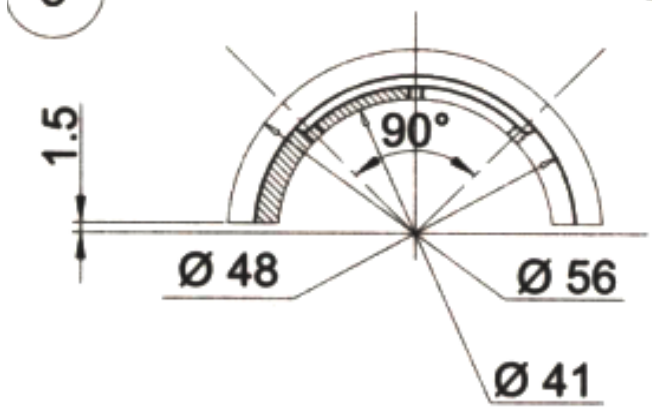
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

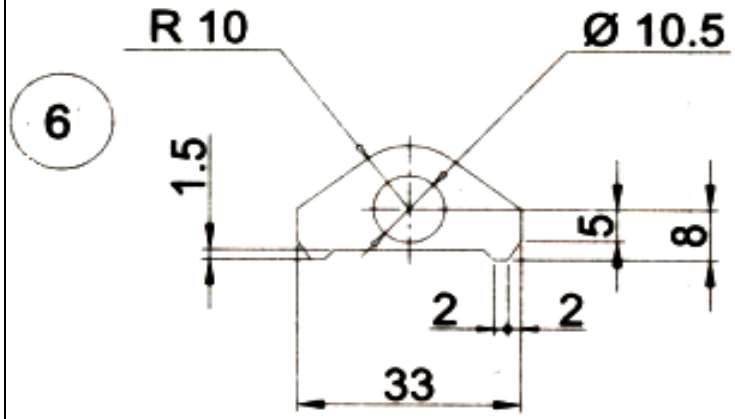








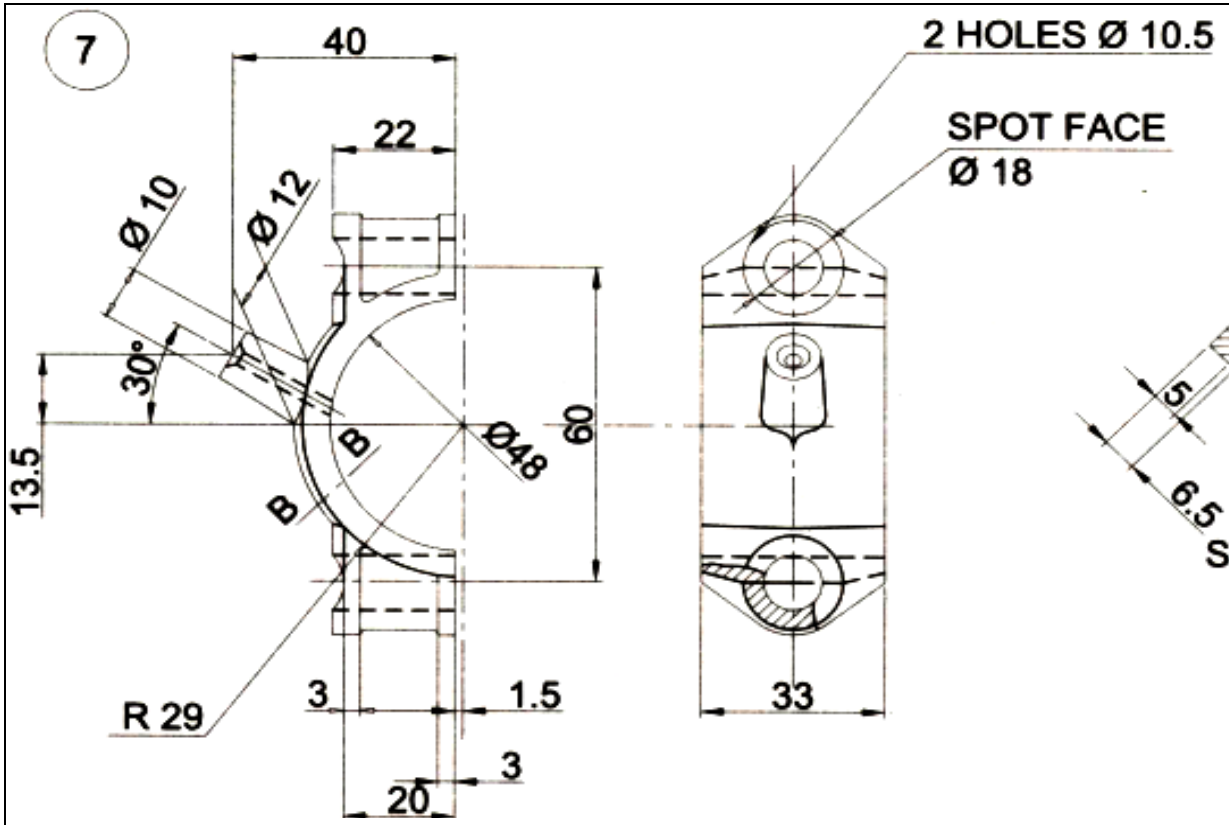




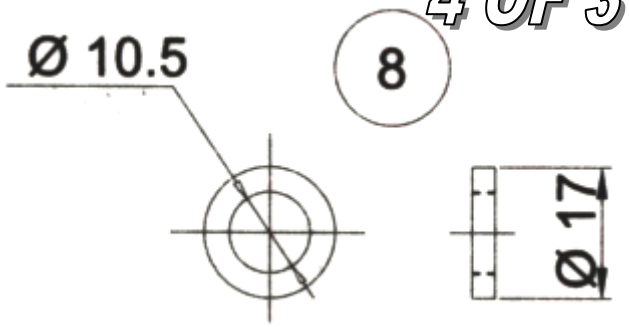
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

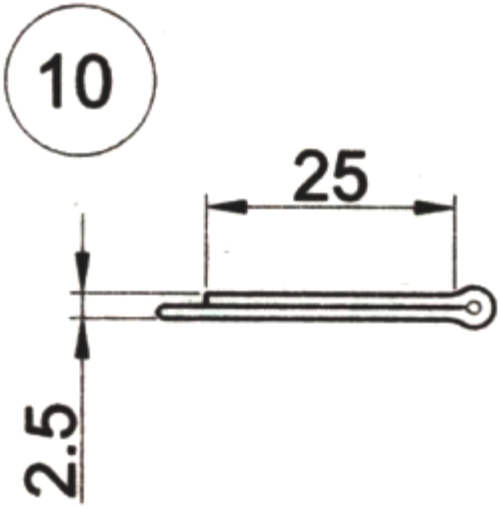
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



SECTION BB





ALL DIMENSIONS IN mm

ITEM NO	DESCRIPTION	MATERIAL	NO OFF
10	SPLIT PIN	Fe 410 W	2
9	NUT	C- 20 Br	2
8	WASHER	C- 20 Br	2
7	COVER	DURALUMIN	1
6	DISTANCE PIECE	BRONZE	2
5	BEARING BRASSES	BRONZE	2
4	PIN	Fe 410 W	2
3	STUD	C- 20 Br	2
2	BUSH	BRONZE	1
1	CONNECTING ROD	DURALUMIN	1

Parts details of petrol engine connecting rod (type - II)

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

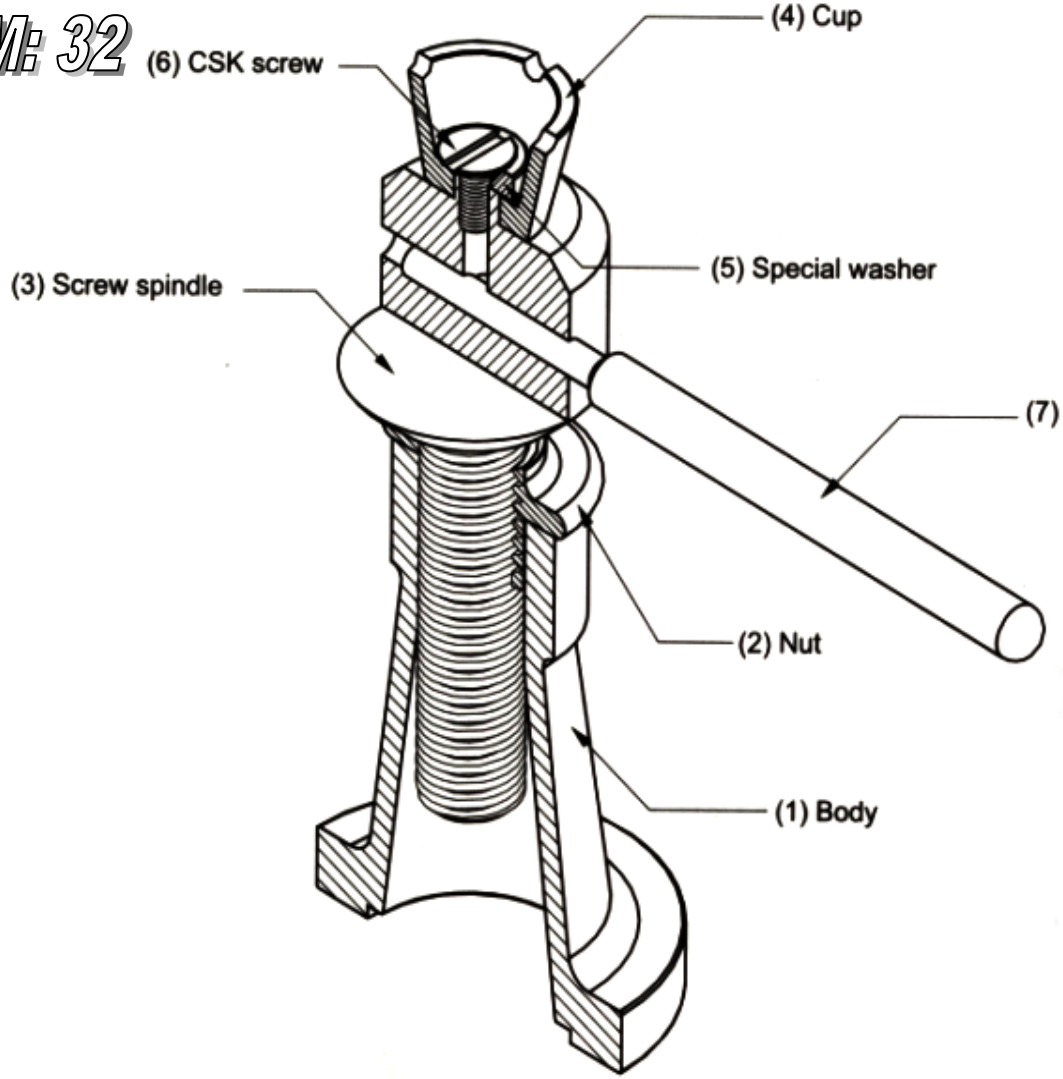


Figure Screw jack

ALL DIMENSIONS IN mm

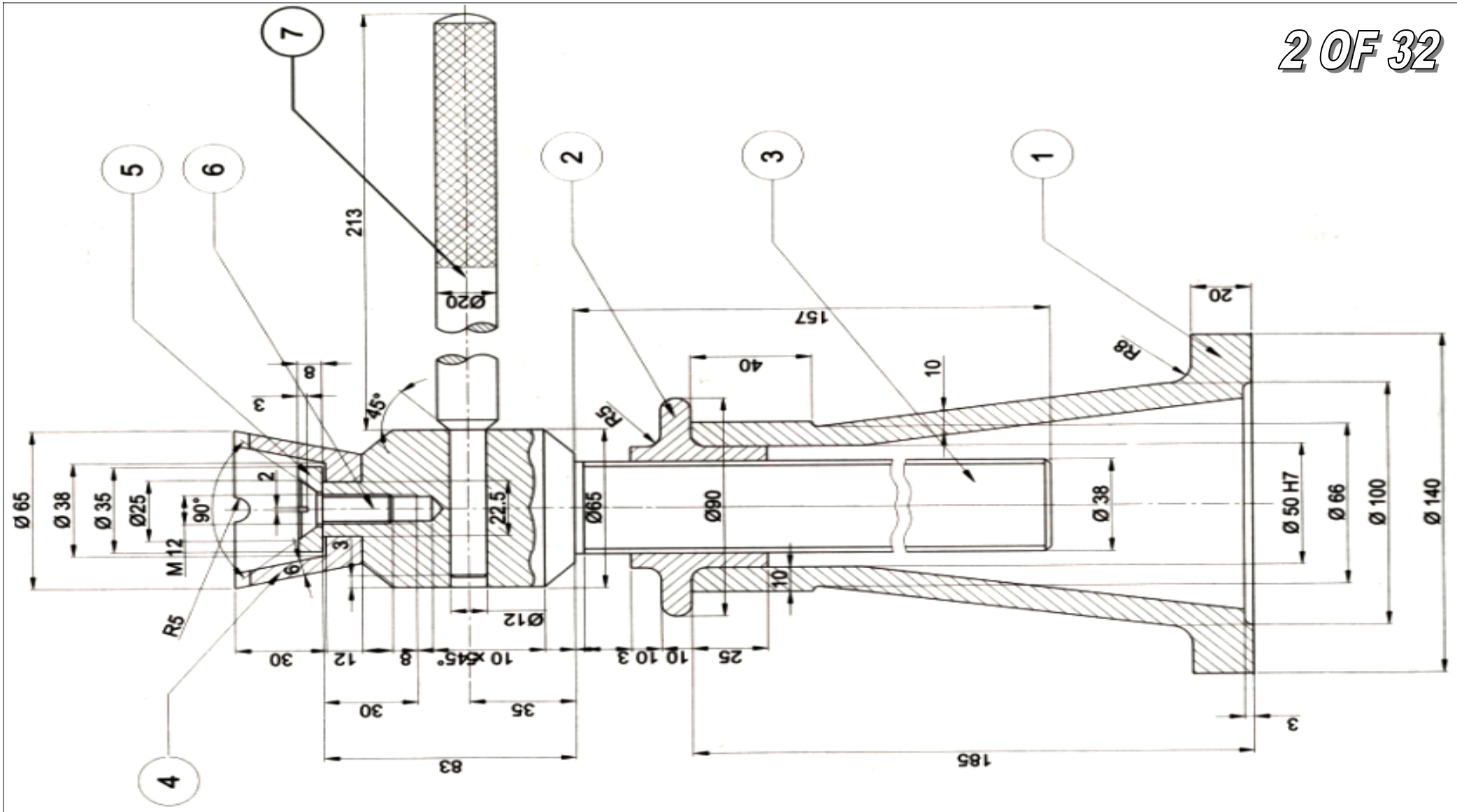
ITEM NO	DESCRIPTION	MATERIAL	NO OFF
7	TOMMY BAR	Fe-410 W	1
6	CSK SCREW	Fe-410 W	1
5	SPECIAL WASHER	Fe-410 W	1
4	CUP	CAST STEEL	1
3	SCREW-SPINDLE	Fe-410 W	1
2	NUT	GUN METAL	1
1	BODY	CAST IRON	1

Parts details of screw jack

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



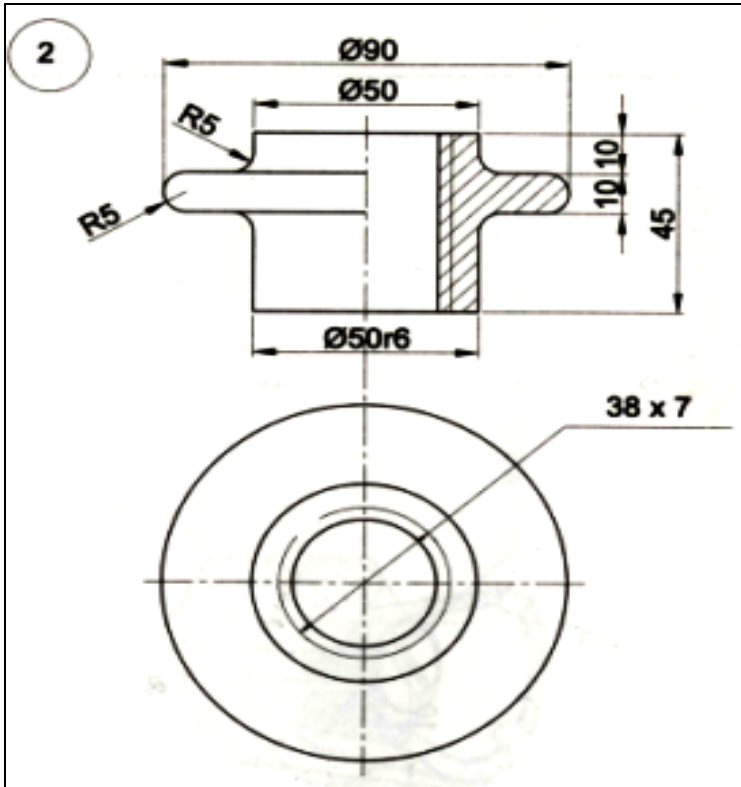
FULL SECTIONAL FRONT VIEW

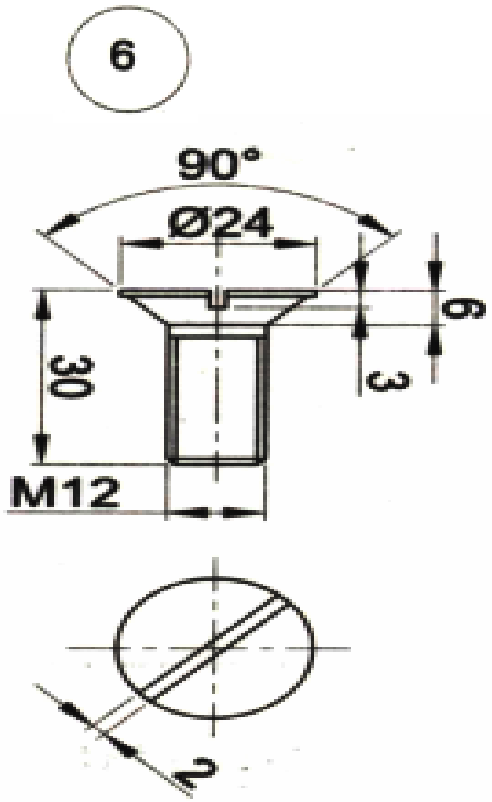
Assembly of screw jack

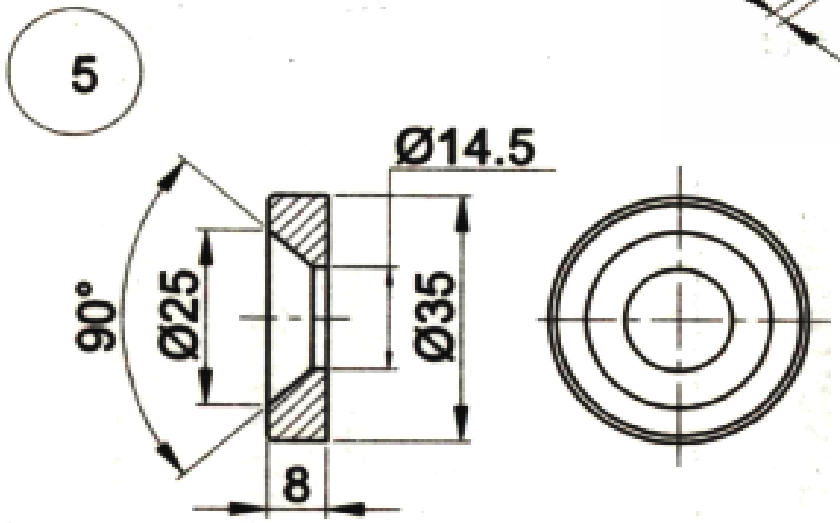
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

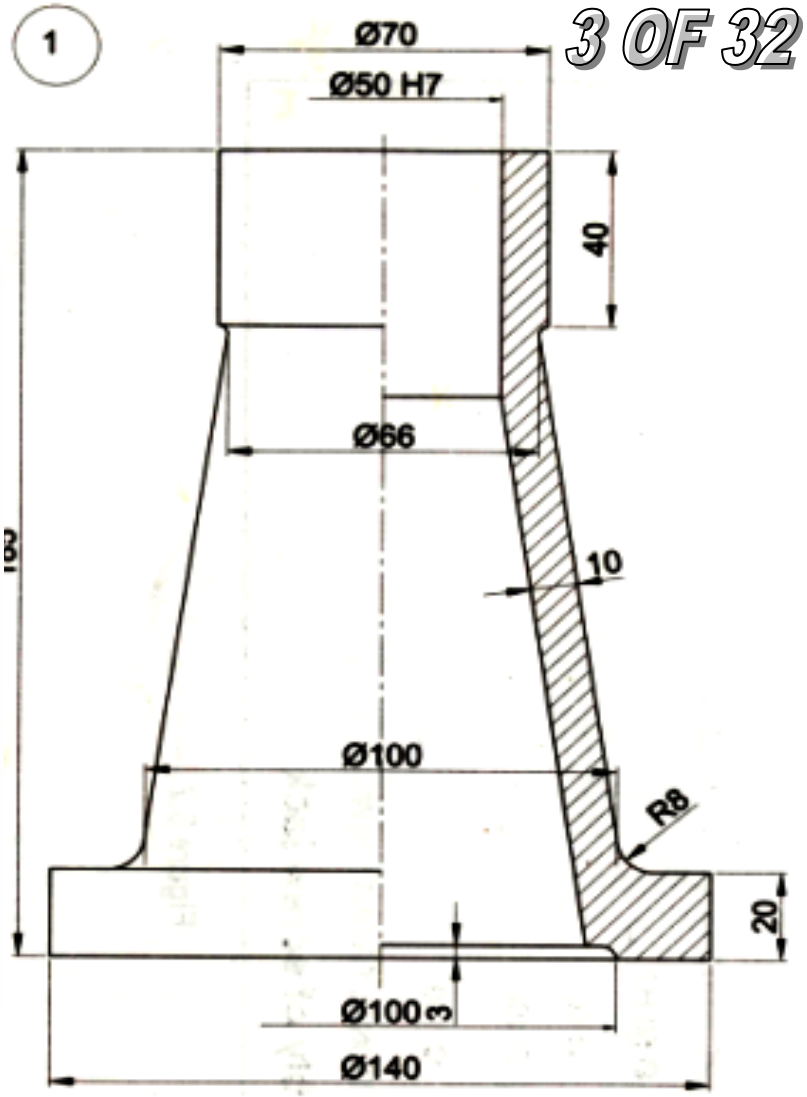
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.





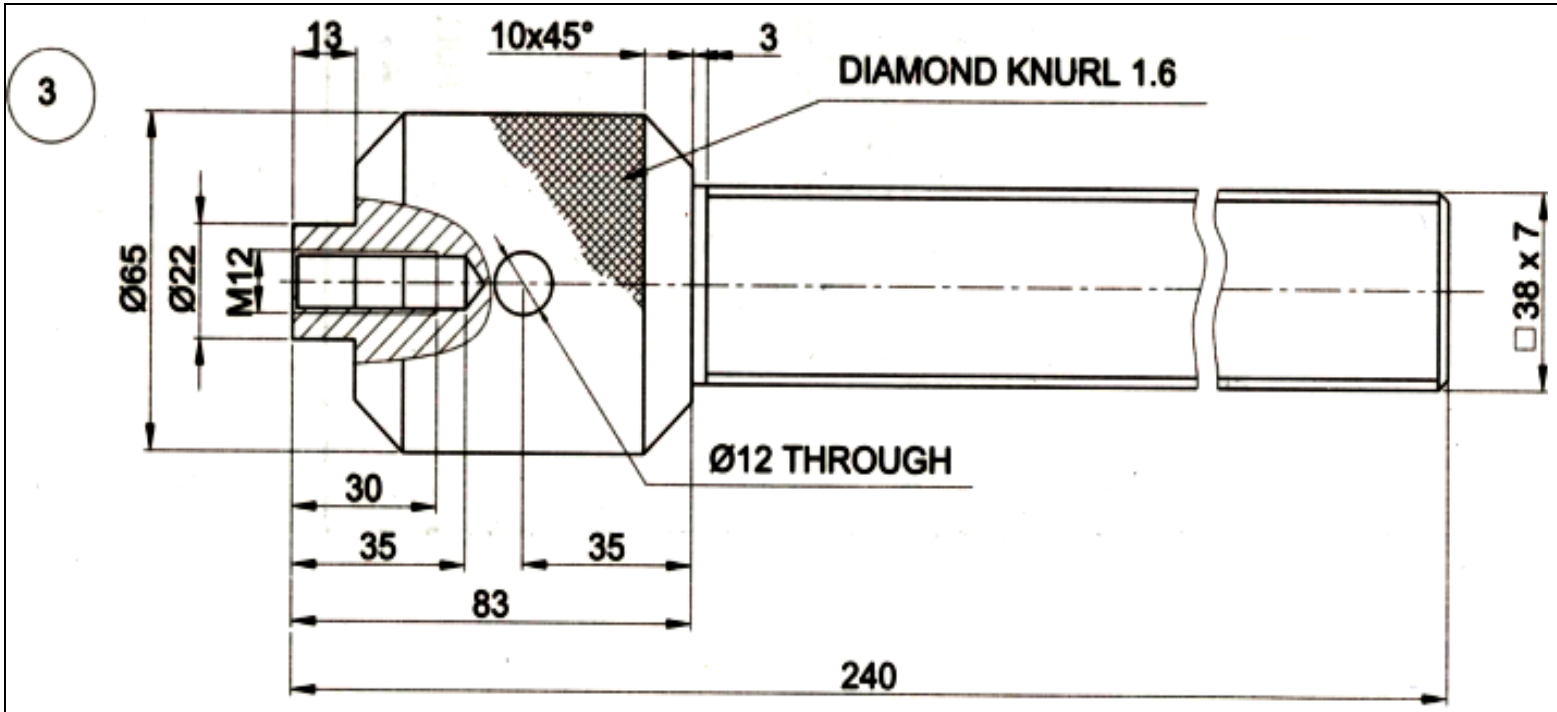


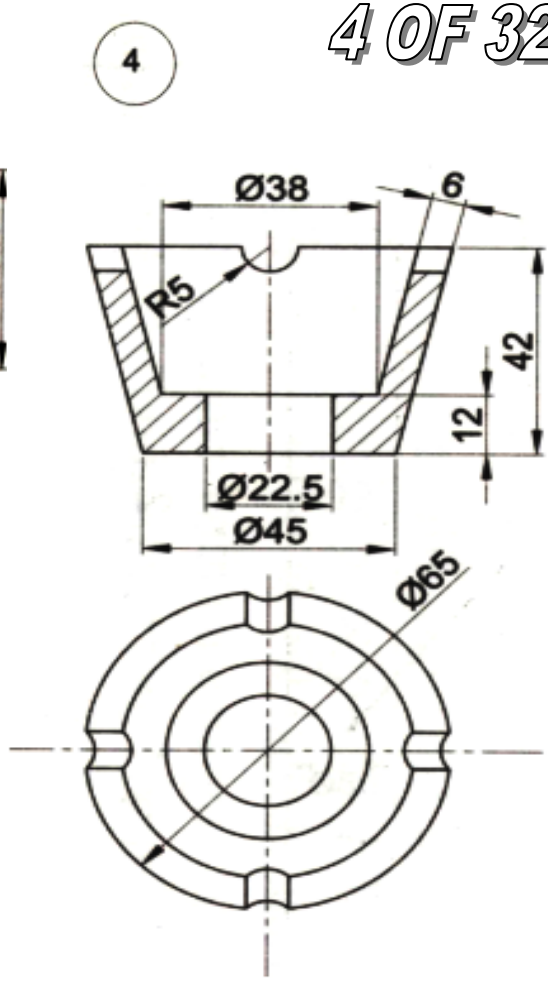


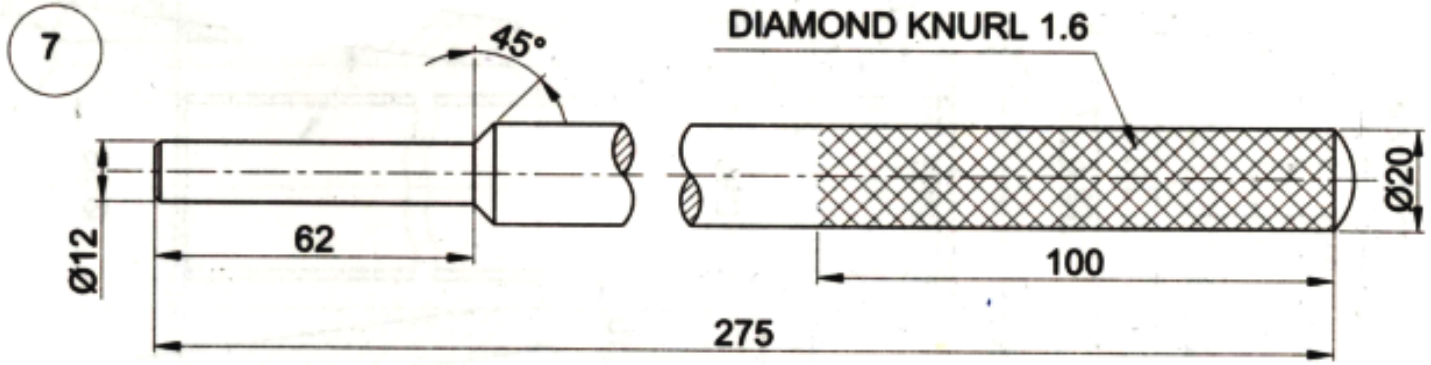
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



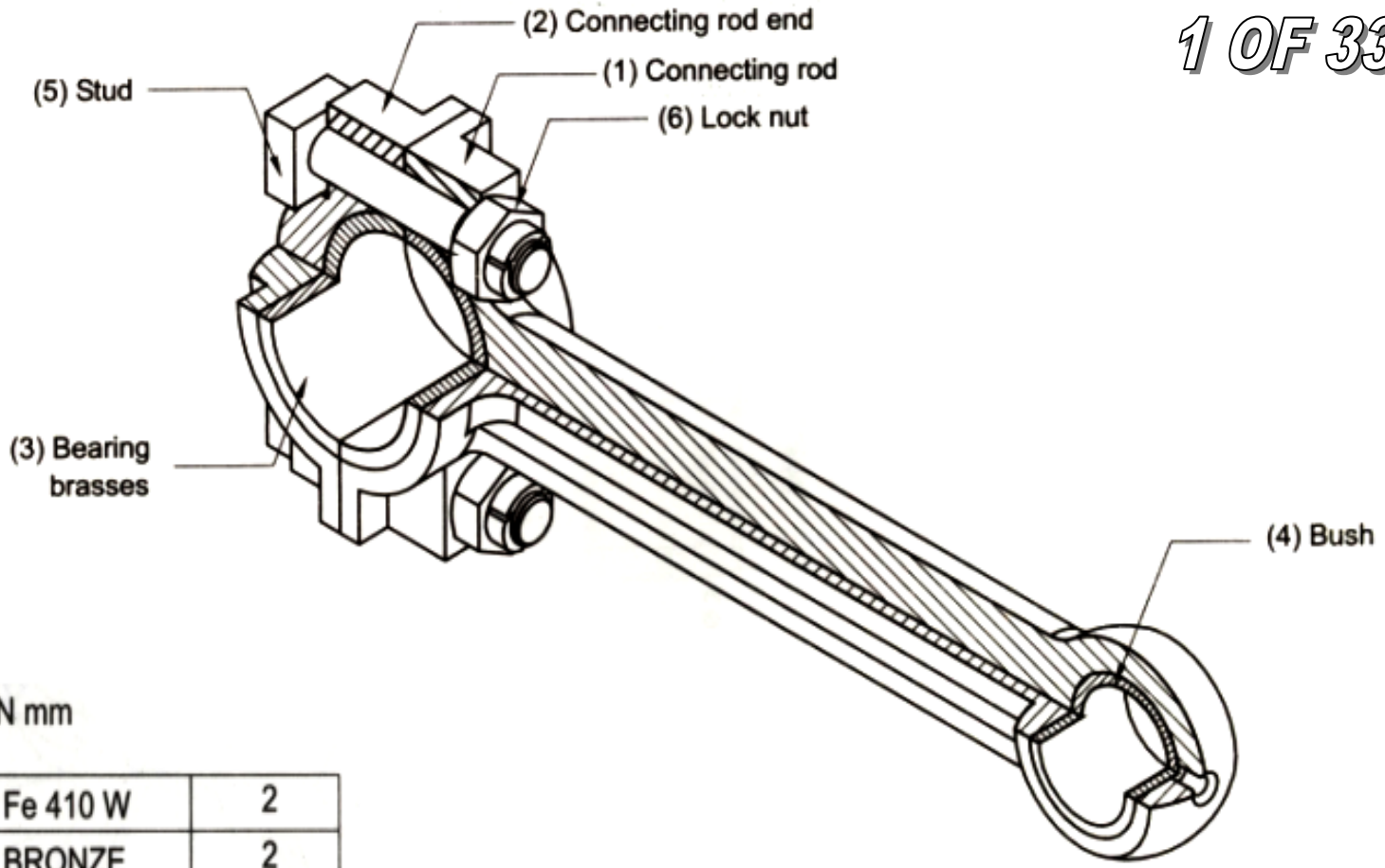




ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



ALL DIMENSIONS IN mm

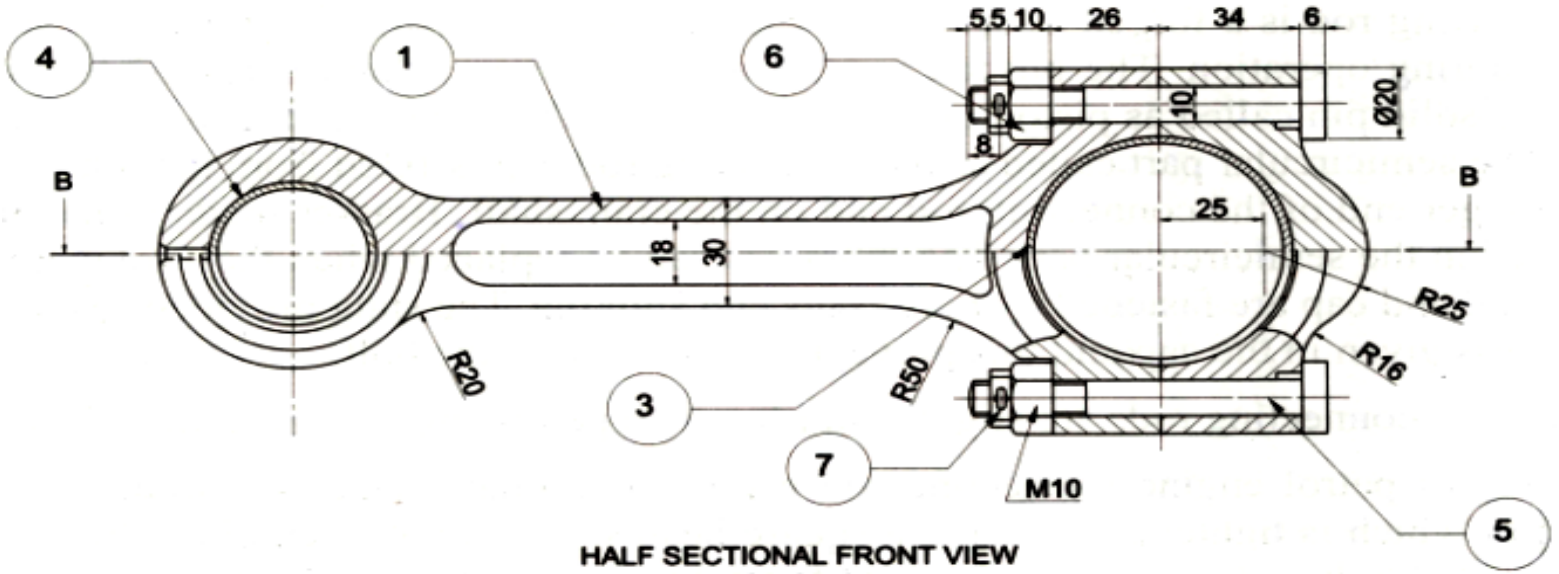
ITEM NO	DESCRIPTION	MATERIAL	NO OFF
7	SPLIT PIN	Fe 410 W	2
6	LOCK NUT	BRONZE	2
5	BOLT	BRONZE	2
4	BUSH	Fe 410 W	1
3	BEARING BRASSES	C- 20 Br	2
2	CONNECTING ROD END	DURALUMIN	1
1	CONNECTING ROD	DURALUMIN	1

Parts details of diesel engine connecting rod

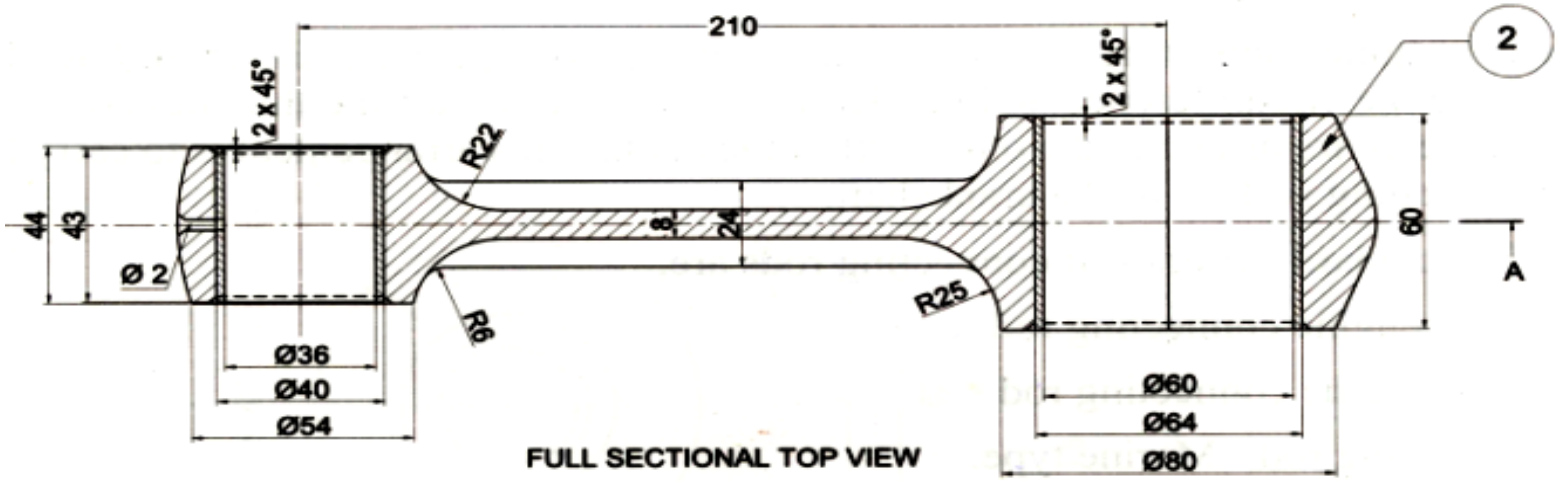
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



HALF SECTIONAL FRONT VIEW
SECTION AA

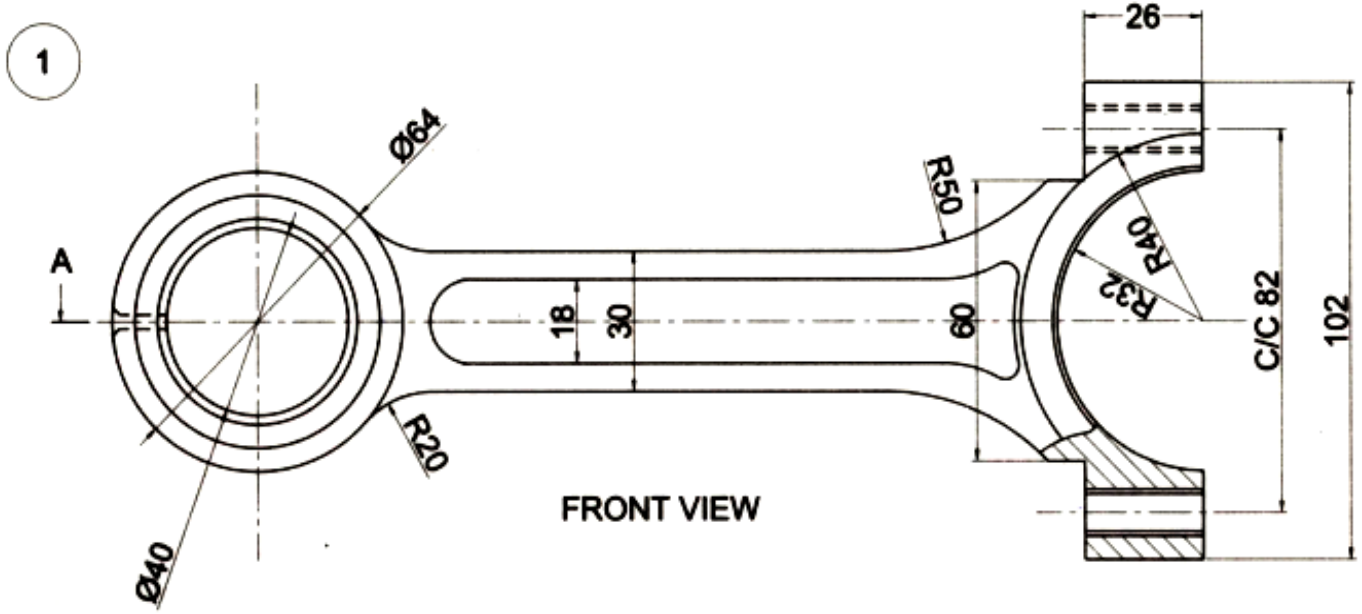


FULL SECTIONAL TOP VIEW
SECTION BB

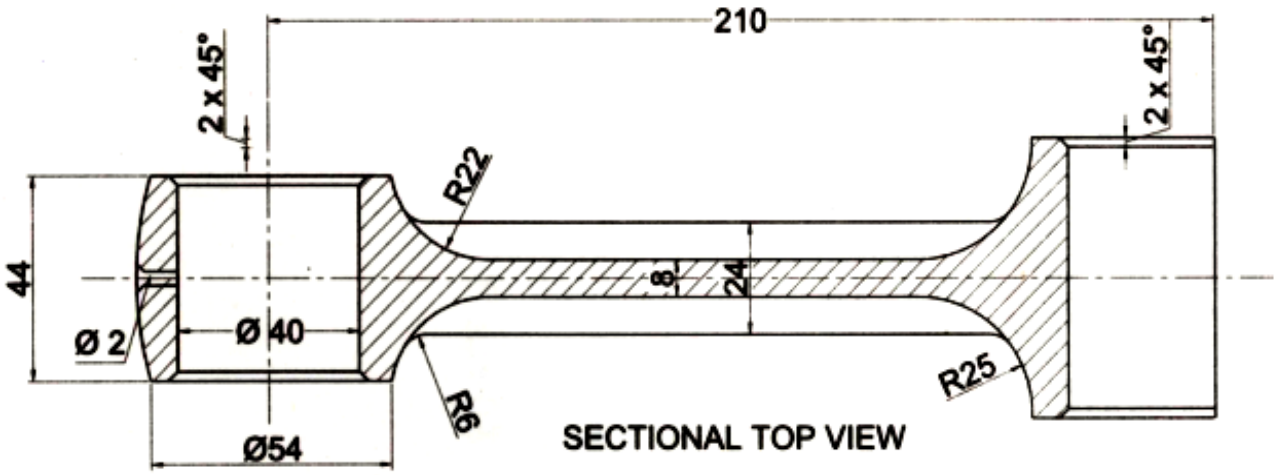
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

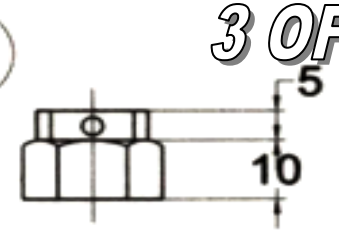


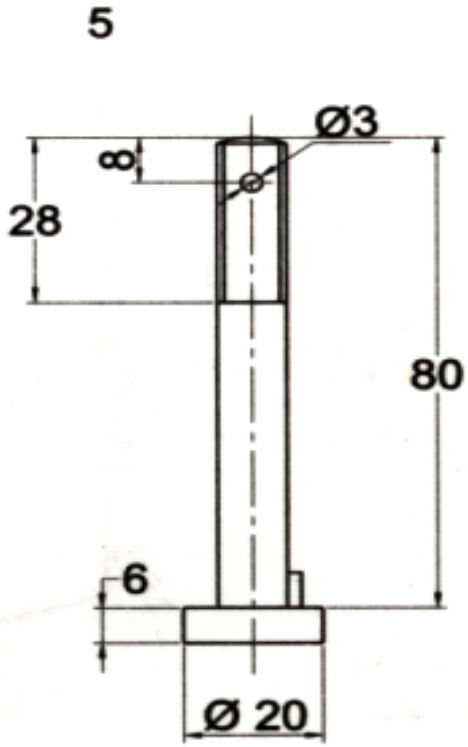
FRONT VIEW



SECTIONAL TOP VIEW

SECTION AA



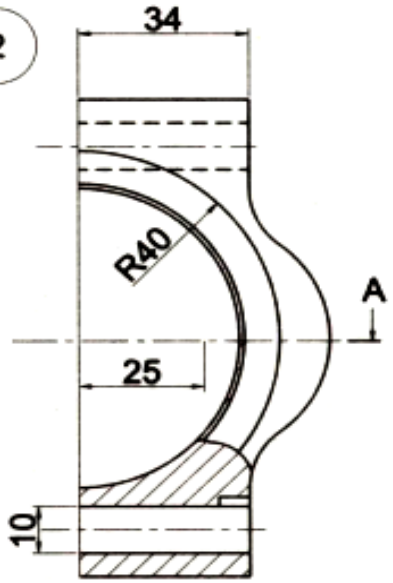


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

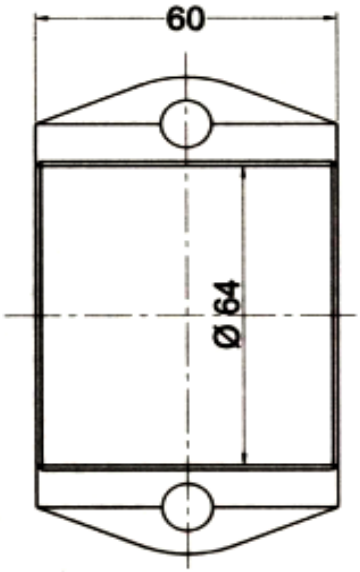
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

2

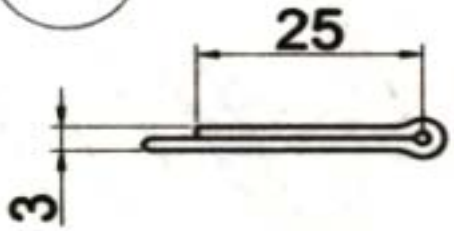


FRONT VIEW

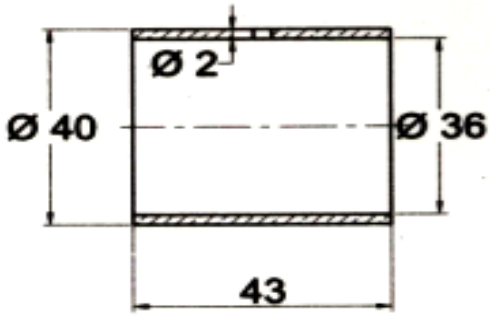


LEFT SIDE VIEW

7

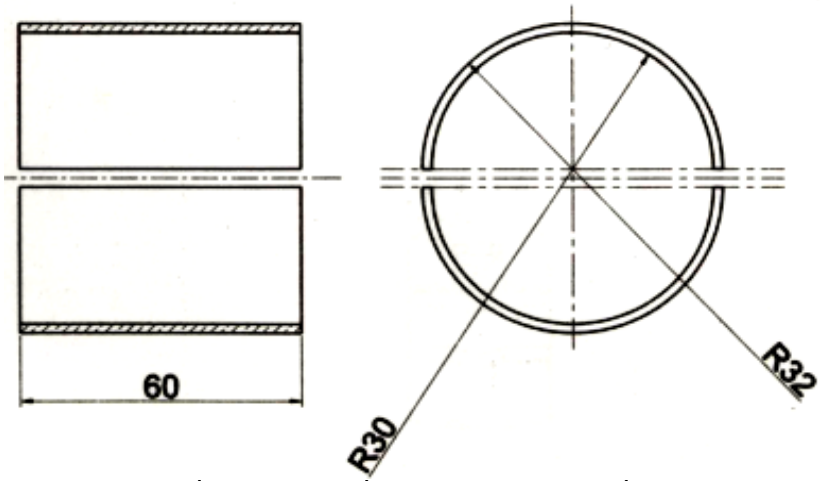


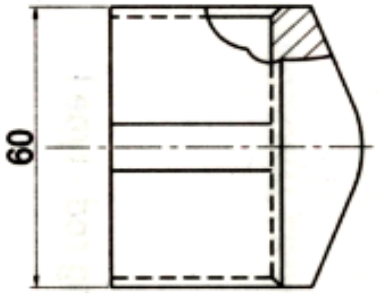
4



Bush

3



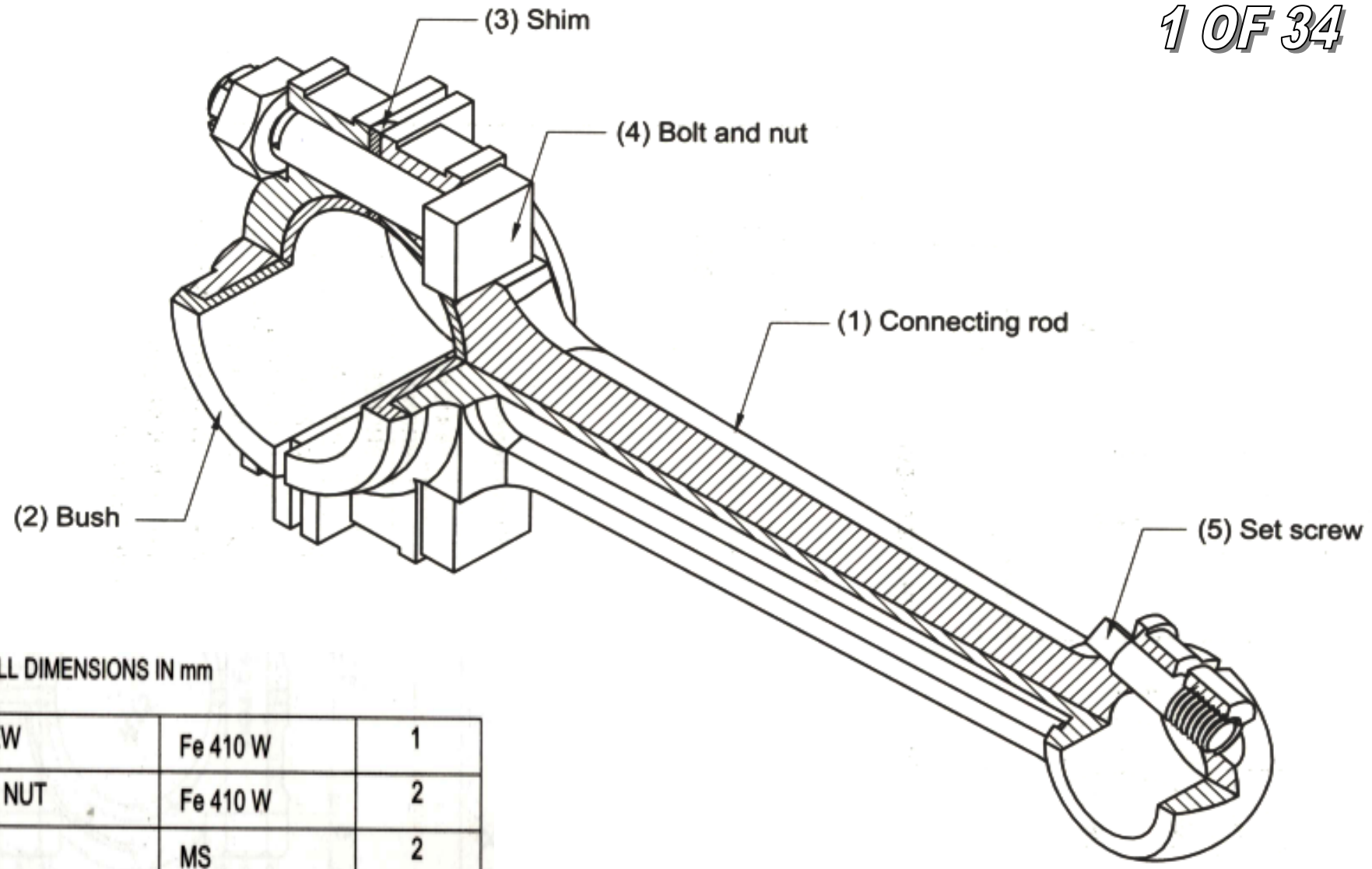


TOP VIEW

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



ALL DIMENSIONS IN mm

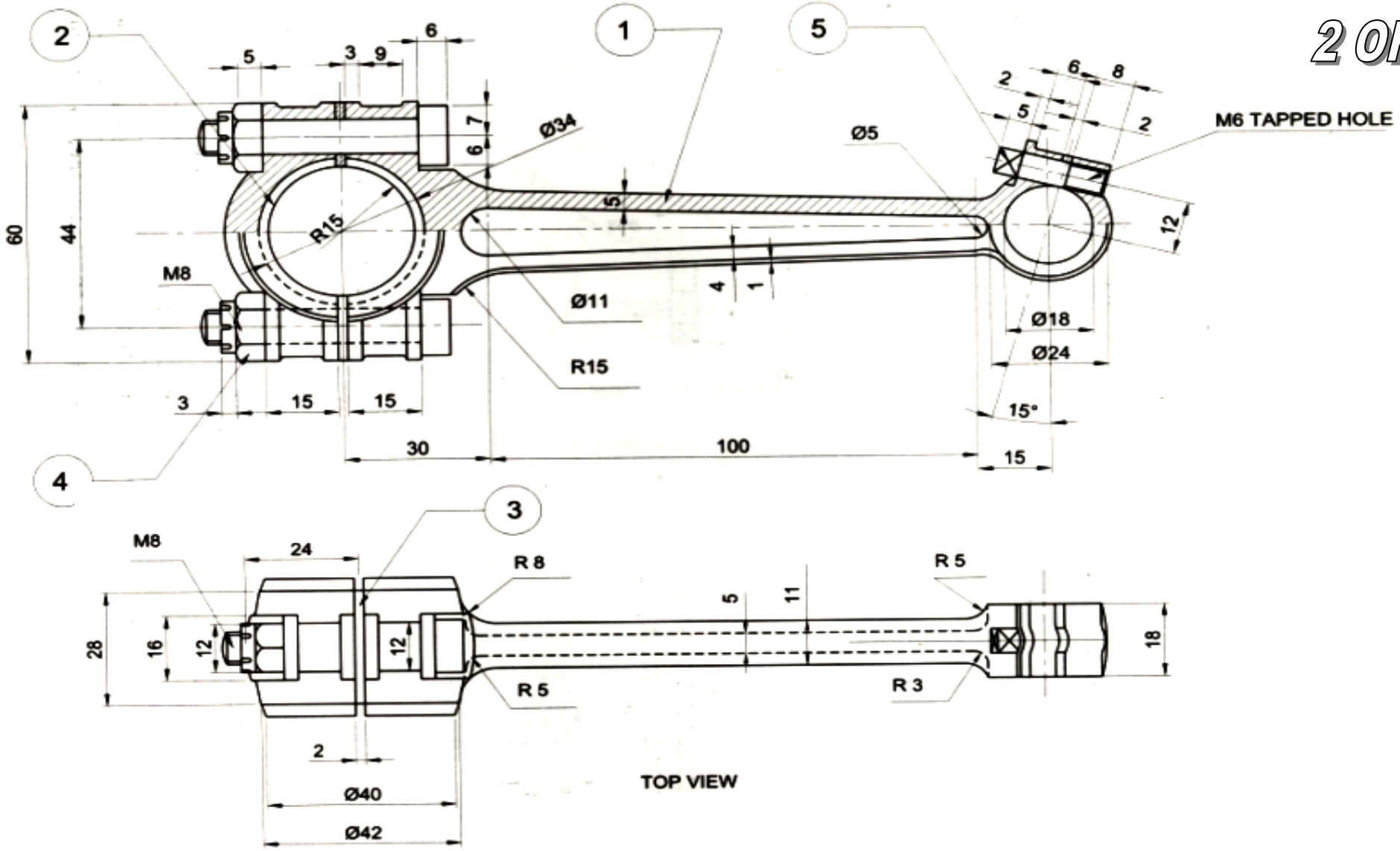
ITEM NO	DESCRIPTION	MATERIAL	NO OFF
5	SET SCREW	Fe 410 W	1
4	BOLT AND NUT	Fe 410 W	2
3	SHIM	MS	2
2	BUSH	WHITE METAL	1
1	CONNECTING ROD	CI	1

Parts details of petrol engine connecting rod (type - I)

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1 / PART NO.
	NAME	DATE		
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY
CHECKED	G.D.B.			
APPROVED	G.S.A.			

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



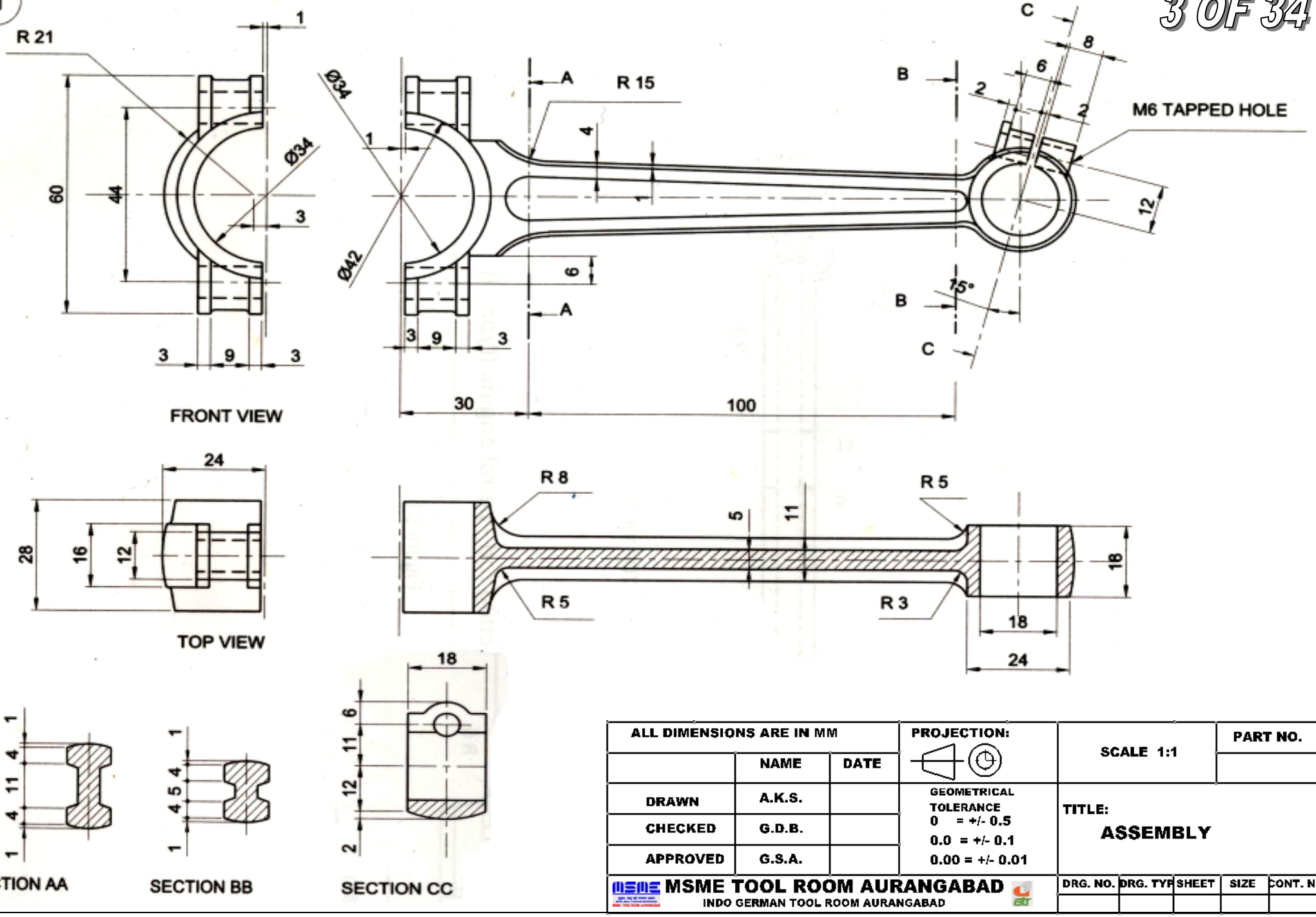
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

Assembly of connecting rod - petrol engine (type - I)

1

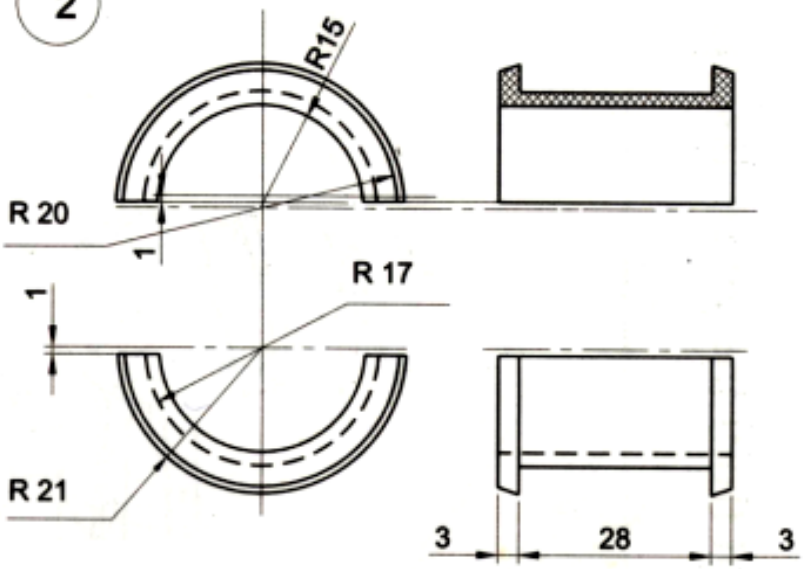


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

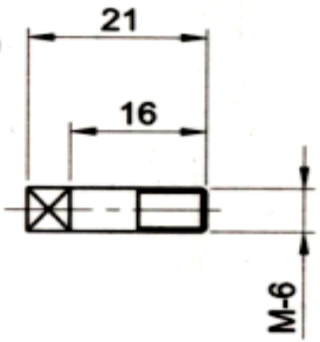
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

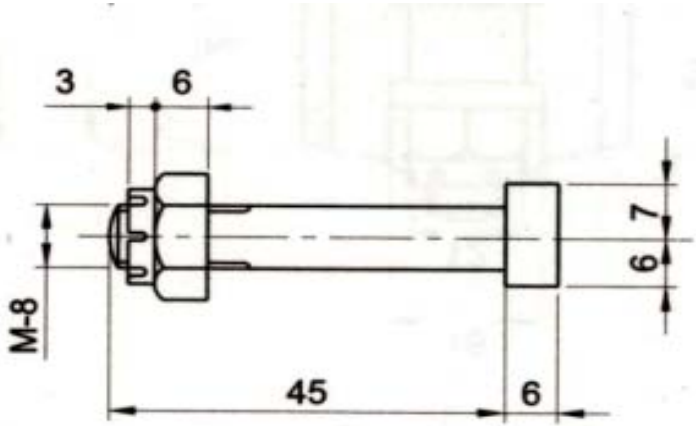
2



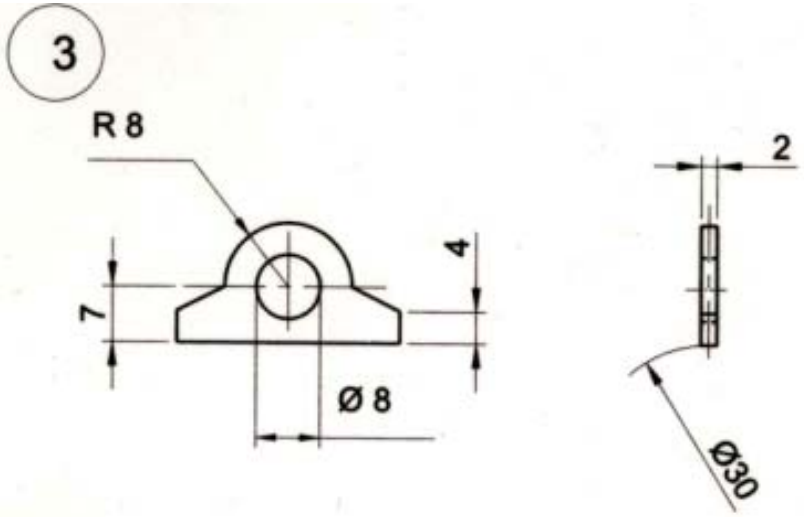
5



4



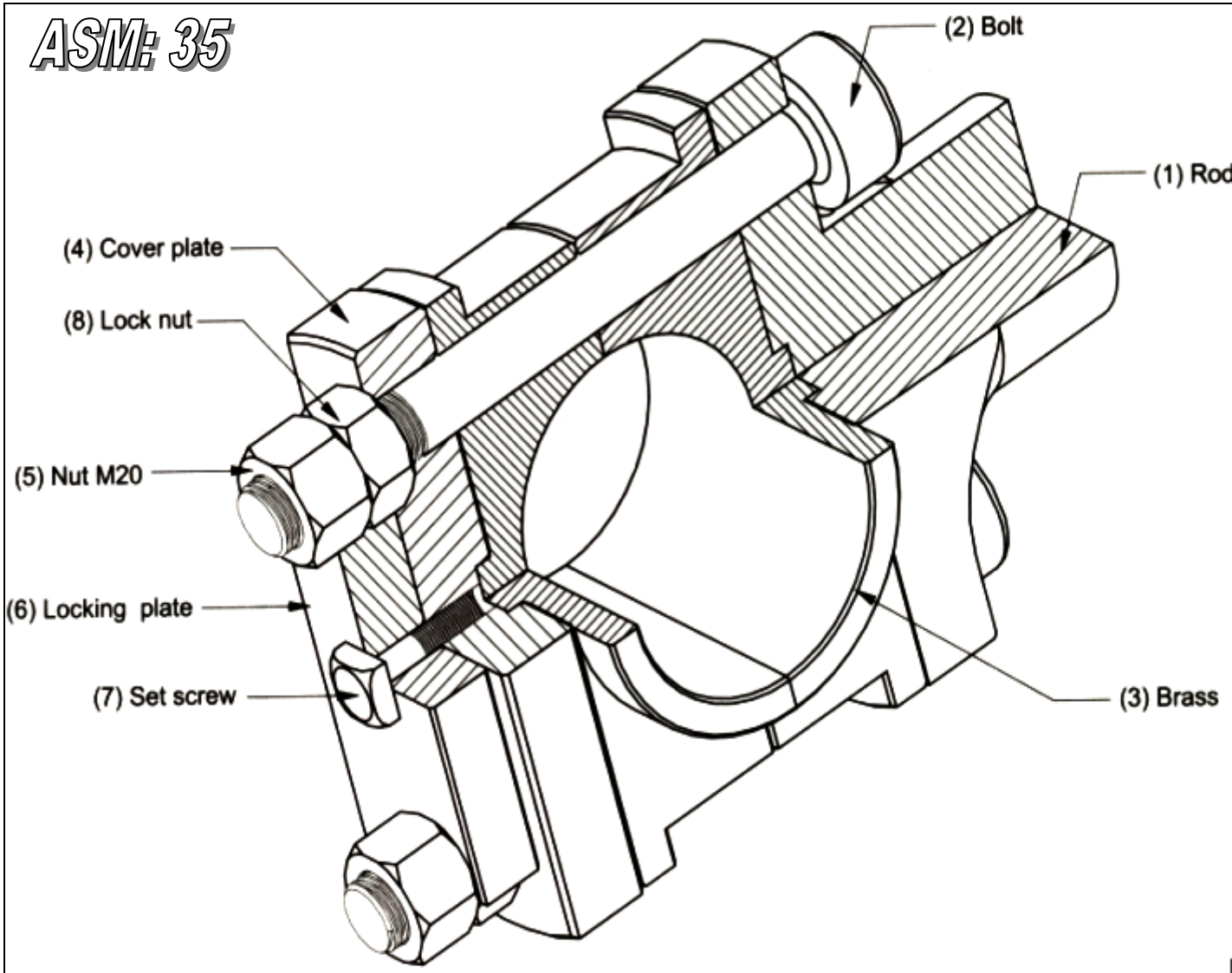
3



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



ALL DIMENSIONS IN mm

ITEM NO	DESCRIPTION	MATERIAL	NO OFF
8	LOCK NUT	Fe - 410 W	2
7	SET SCREW	Fe - 410 W	1
6	LOCKING PLATE	Fe - 410 W	1
5	NUT M 20	Fe - 410 W	2
4	COVER PLATE	FORGE STEEL	1
3	BRASS	GUN METAL	2
2	BOLT	Fe - 410 W	2
1	ROD END	FORGE STEEL	1

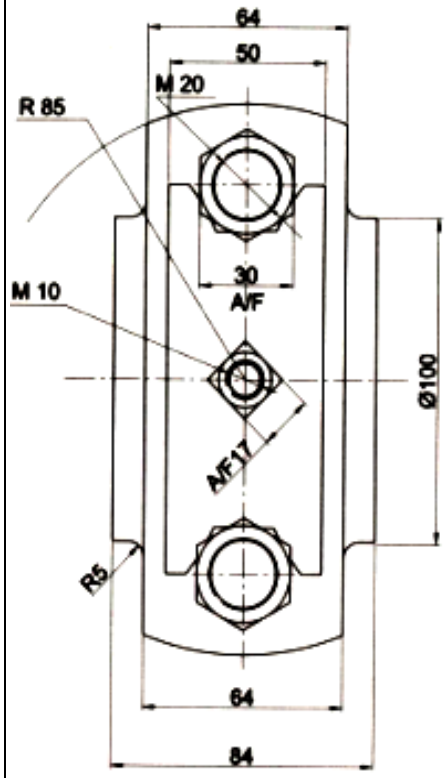
Parts details of marine type connecting rod

Figure Connecting rod - marine type

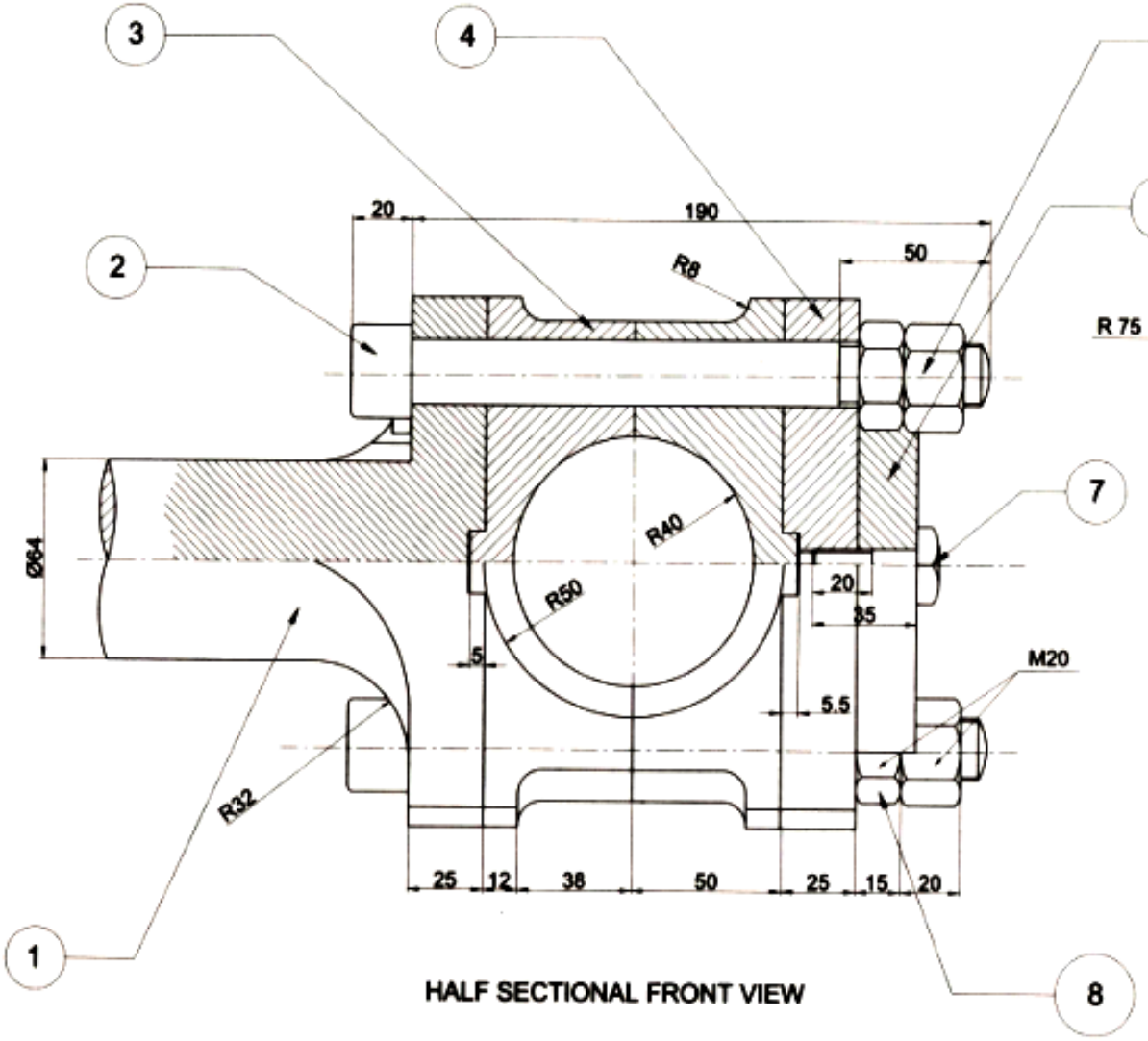
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

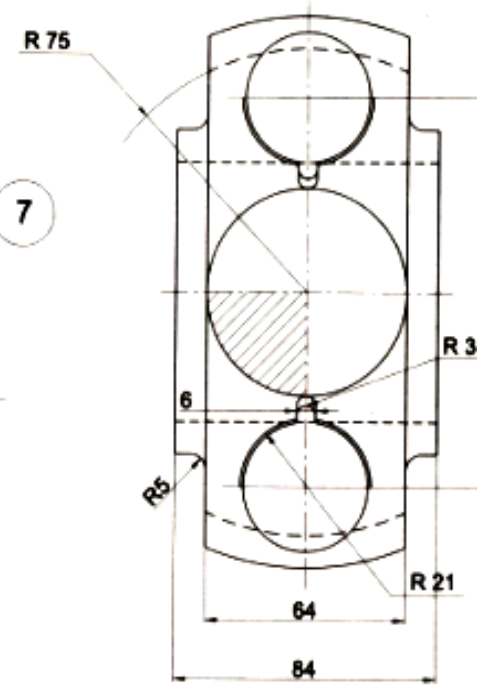
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



RIGHT SIDE VIEW



HALF SECTIONAL FRONT VIEW



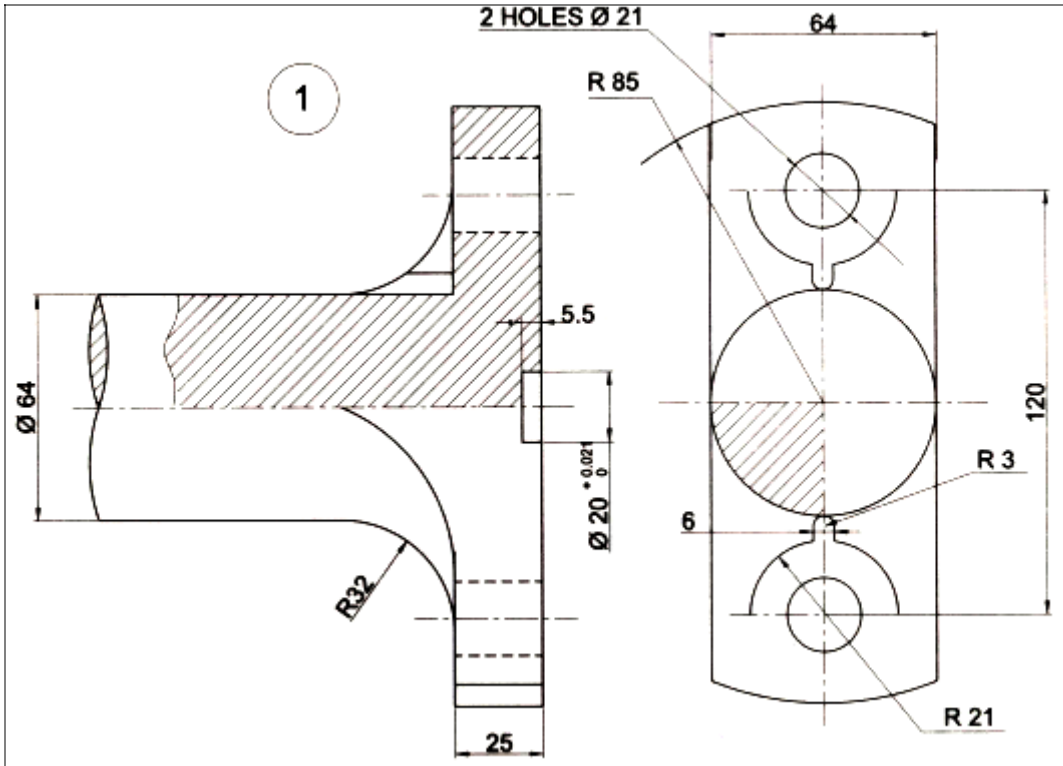
LEFT SIDE VIEW

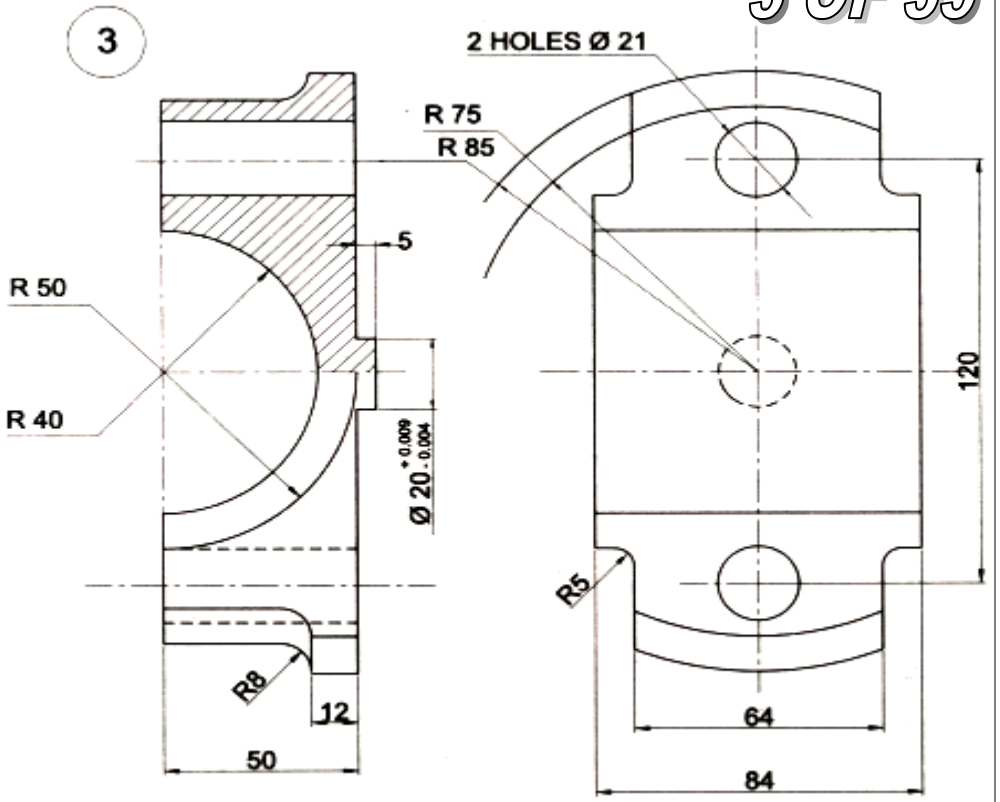
Assembly of marine type connecting rod

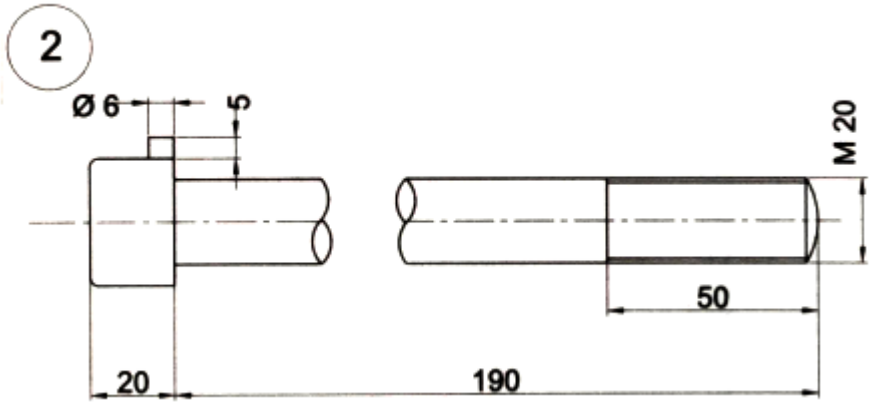
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



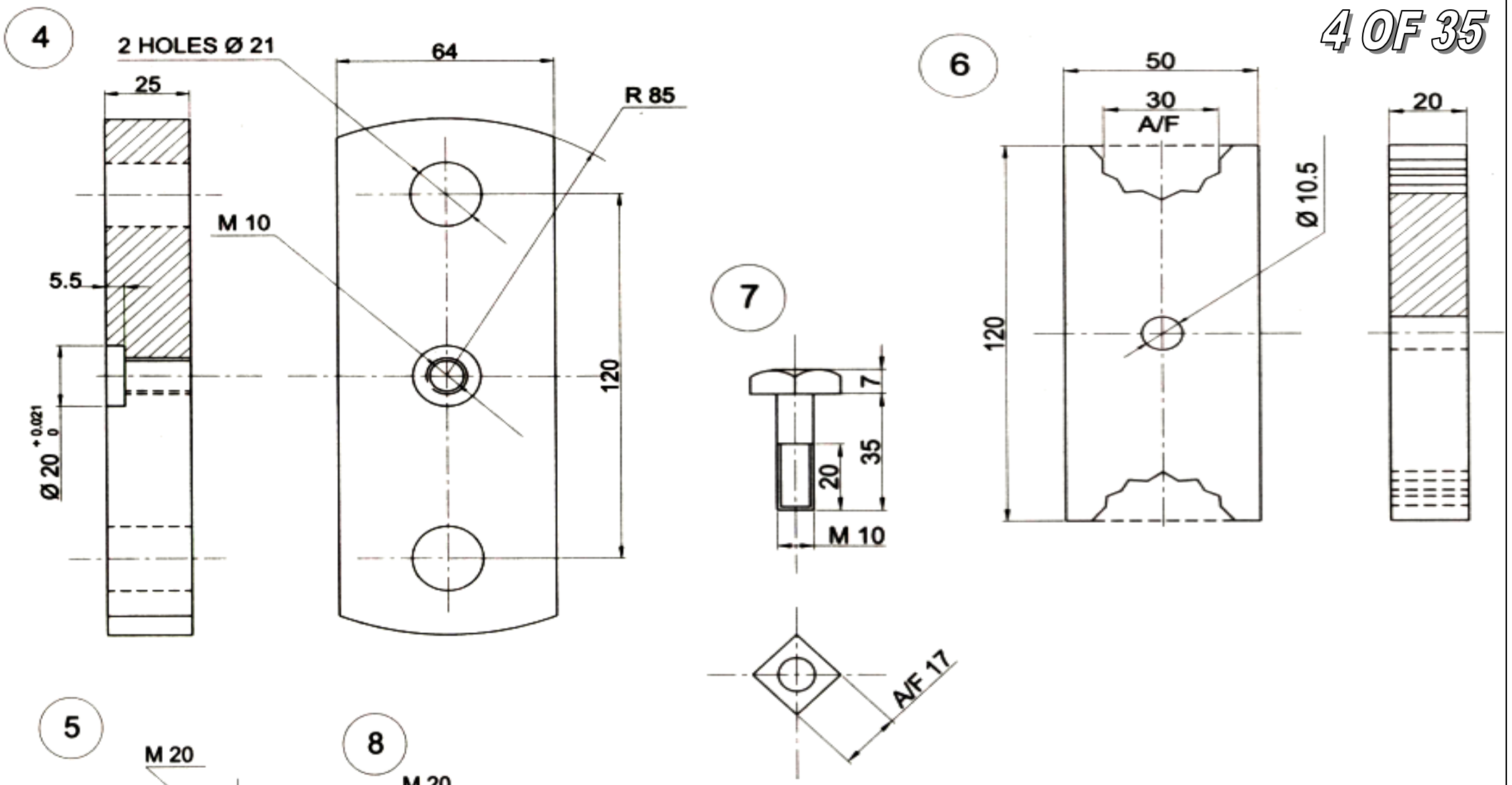




ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

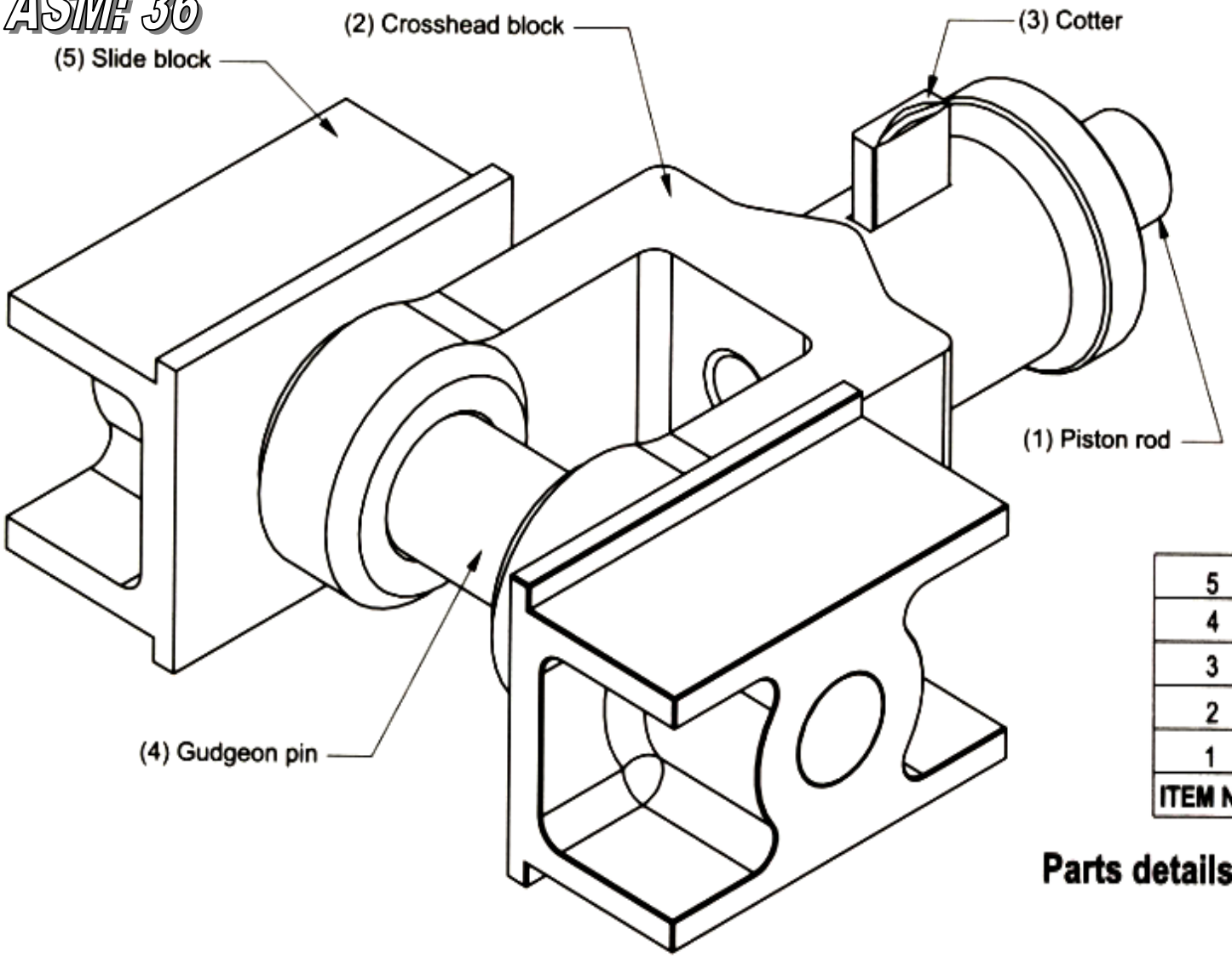
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



ALL DIMENSIONS IN mm

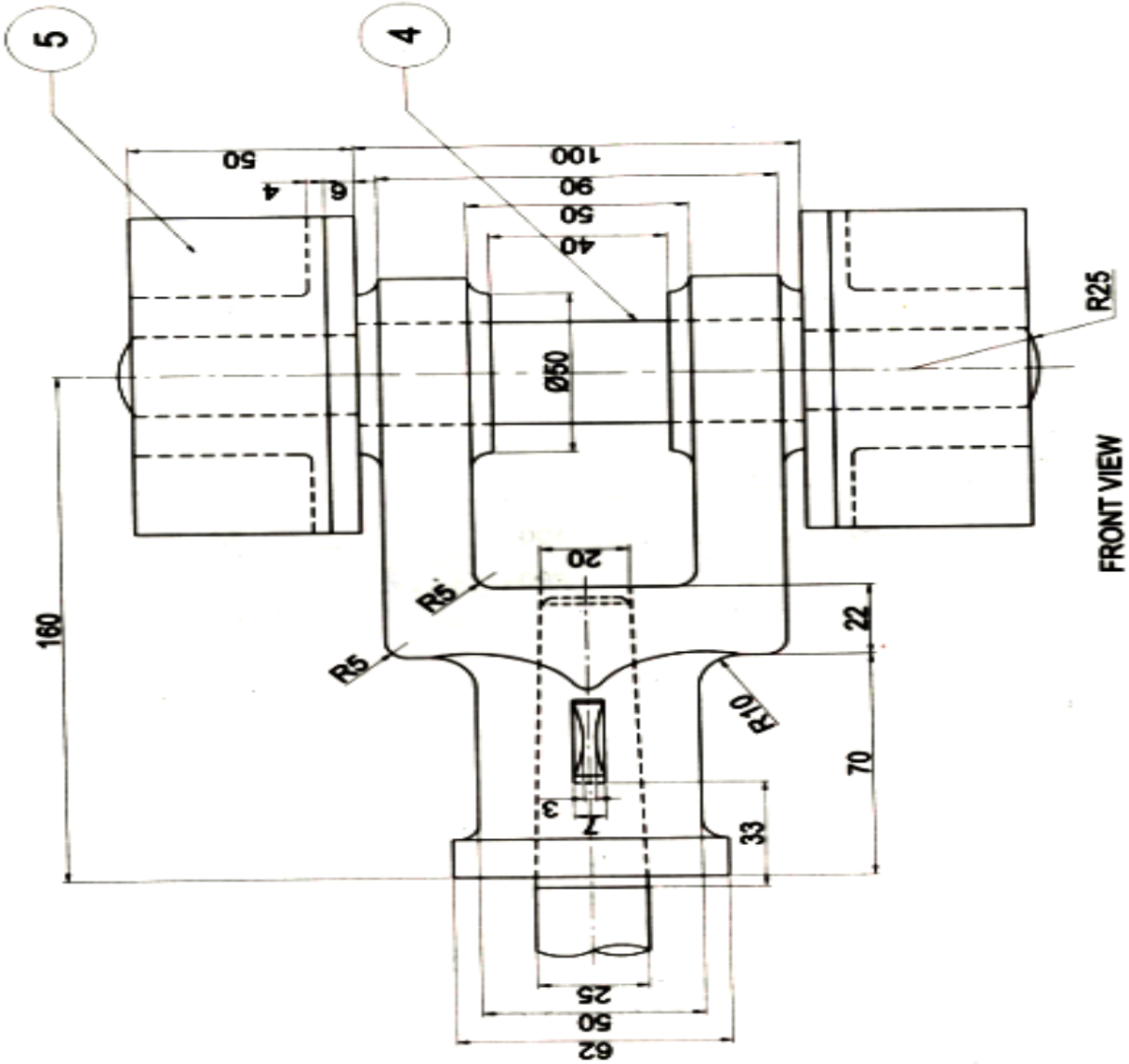
ITEM NO	DESCRIPTION	MATERIAL	NO OFF
5	SLIDE BLOCK	CAST IRON	2
4	GUDGEON PIN	STEEL	1
3	COTTER	STEEL	1
2	CROSSHEAD BLOCK	CAST STEEL	1
1	PISTON ROD	Fe 410 W	1

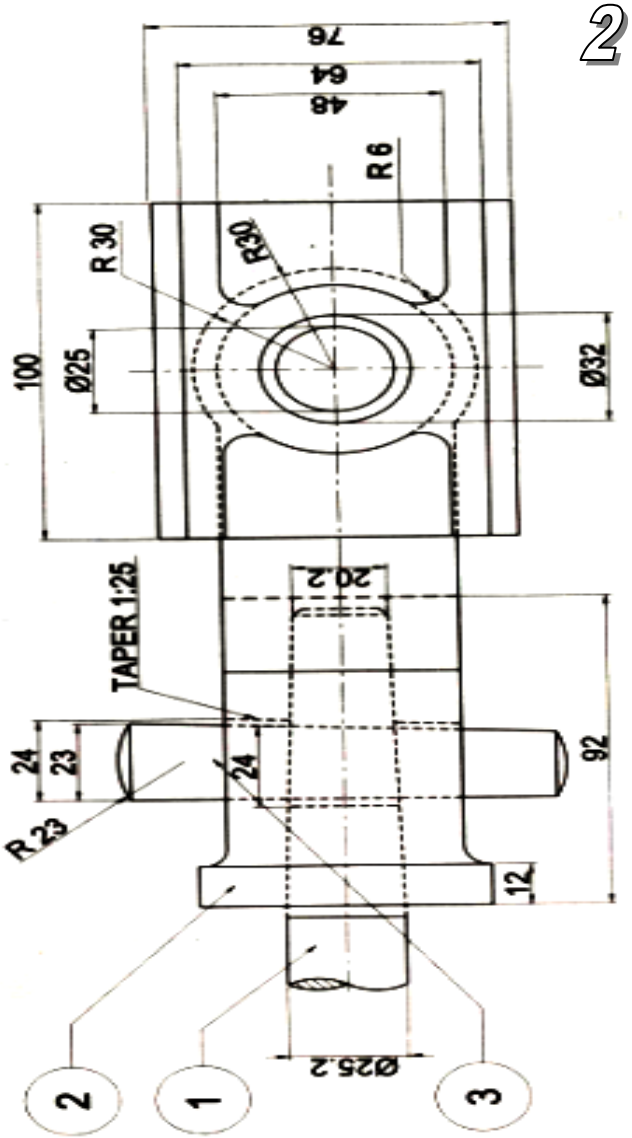
Parts details of cross head - horizontal engine

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



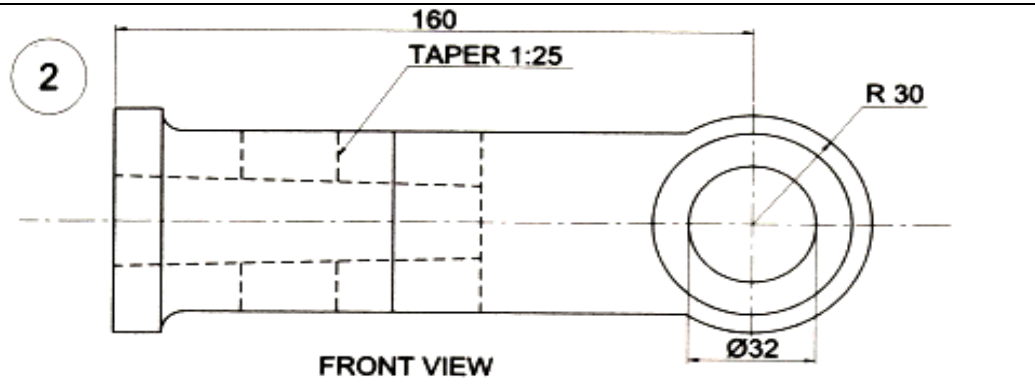


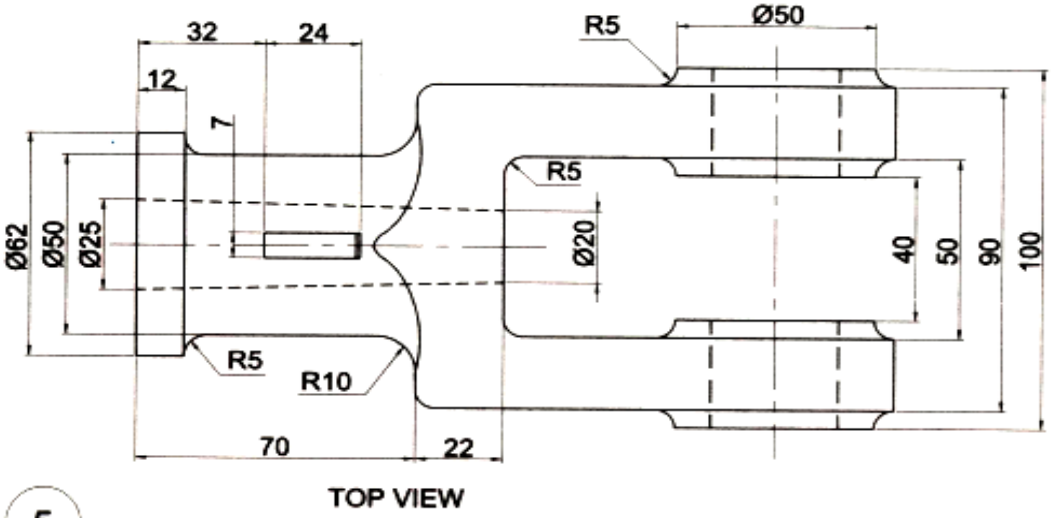
Assembly of cross head- horizontal engine

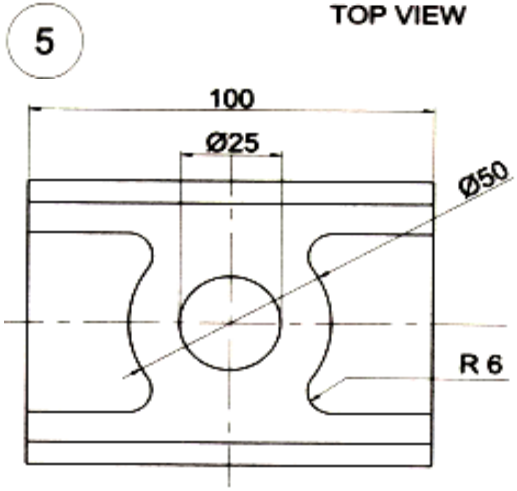
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

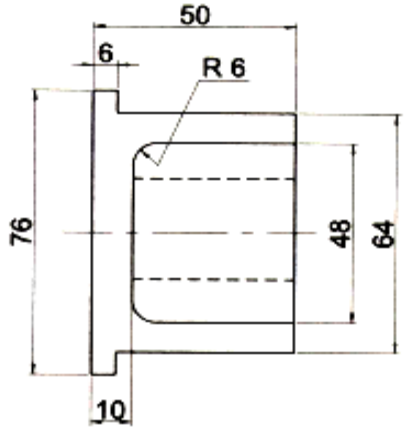
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

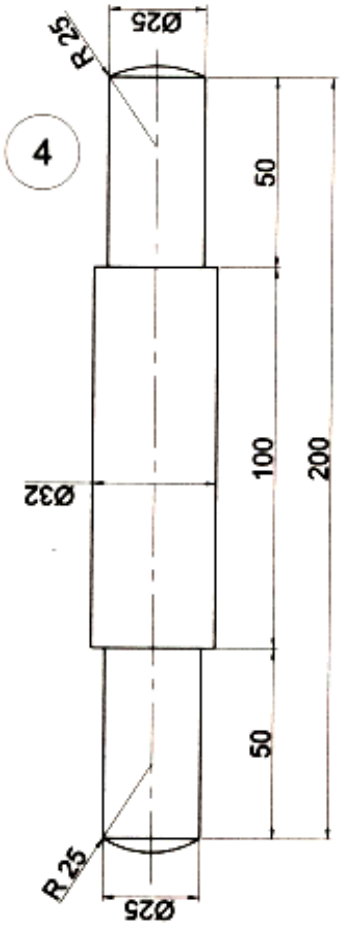
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

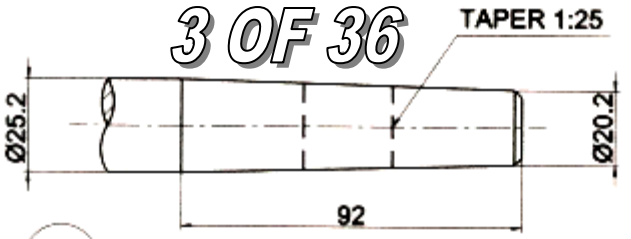




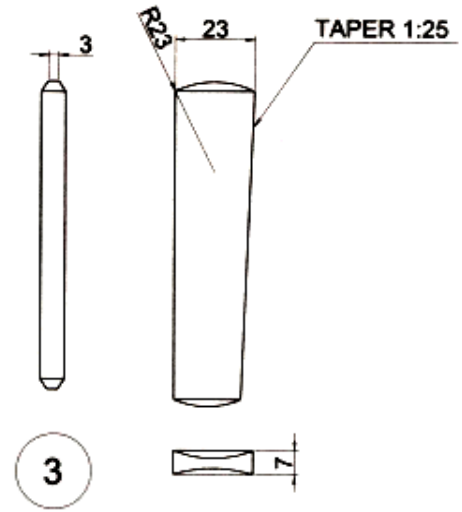












ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

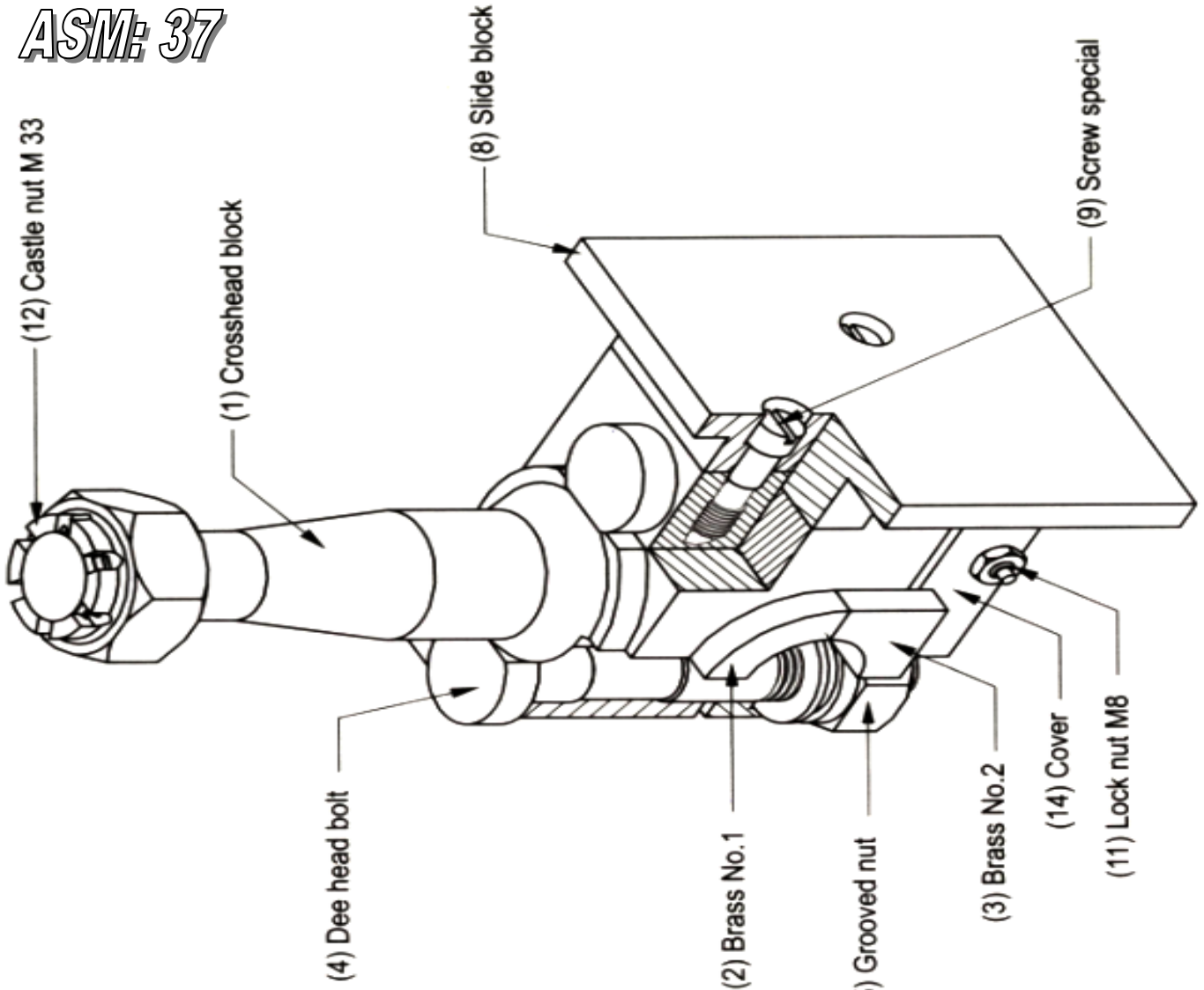


Figure Vertical cross head

ALL DIMENSIONS IN mm

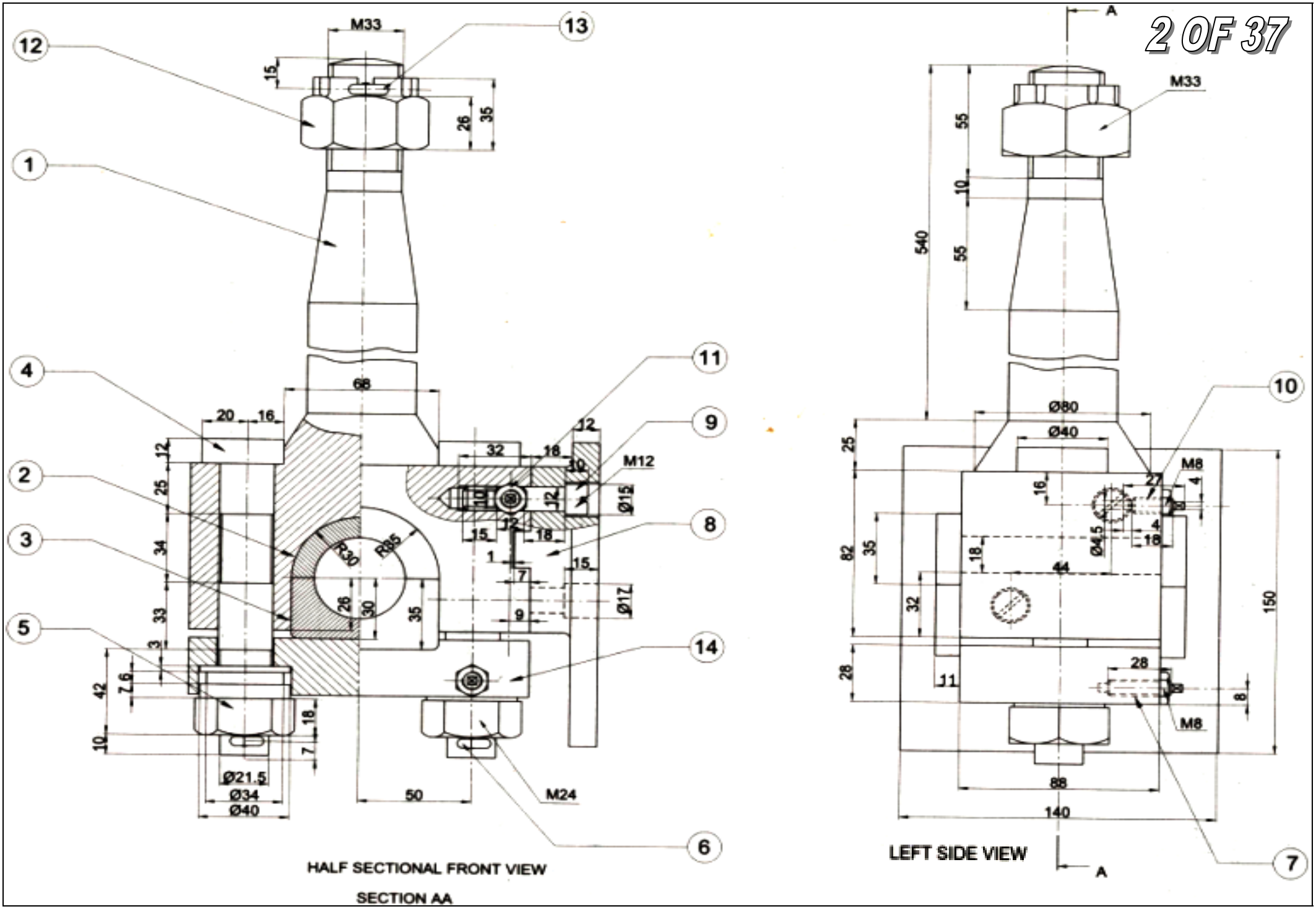
ITEM NO	DESCRIPTION	MATERIAL	NO OFF
14	COVER	Fe 410 W	1
13	SPLIT PIN Ø 6.3x55L	Fe 410 W	1
12	CASTLE NUT M 33	Fe 410 W	1
11	LOCK NUT M8	Fe 410 W	4
10	SET SCREW NO.2	Fe 410 W	2
9	SCREW SPECIAL	Fe 410 W	2
8	SLIDE BLOCK	CAST IRON	1
7	SET SCREW NO.1	Fe 410 W	2
6	SPLIT PIN Ø 5x35L	Fe 410 W	2
5	GROOVED NUT	Fe 410 W	2
4	DEE HEAD BOLT	Fe 410 W	2
3	BRASS NO.2	GUN METAL	1
2	BRASS NO.1	GUN METAL	1
1	CROSSHEAD BLOCK	STEEL	1

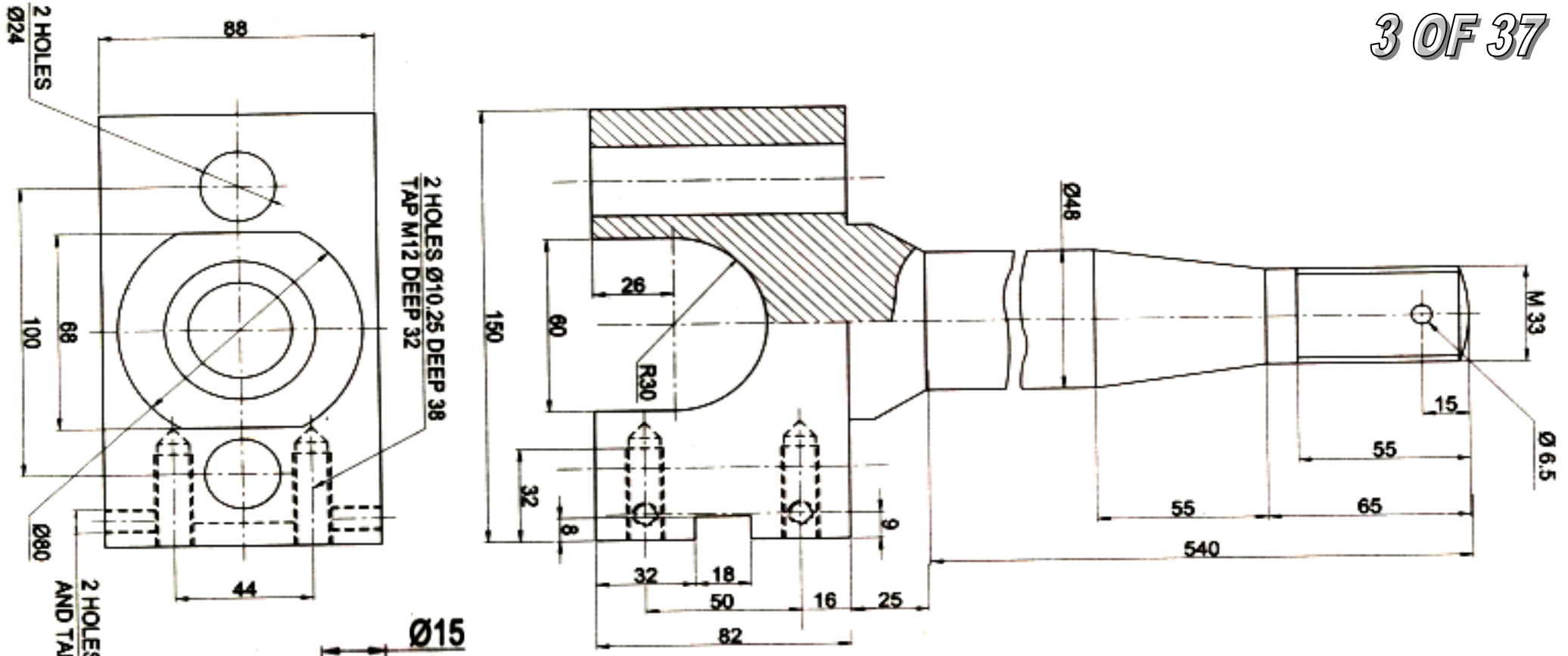
Parts details of cross head of vertical steam engine

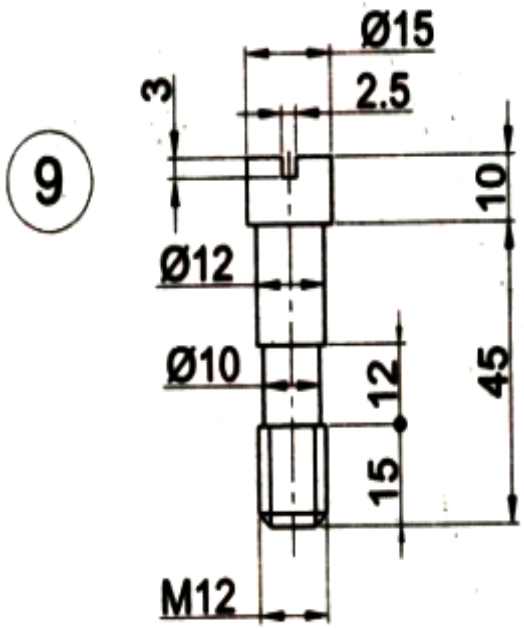
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.


M33
13
12
15
26
35
1
4
68
20
16
11
9
12
32
18
10
M12
Ø15
2
25
34
12
10
12
15
18
8
3
Ø30
Ø35
1
7
15
Ø17
26
30
35
9
5
14
3
42
7.6
10
18
7
Ø21.5
Ø34
Ø40
50
M24
6
HALF SECTIONAL FRONT VIEW
SECTION AA
A
M33
55
10
55
540
10
Ø80
Ø40
25
M8
27
4
16
Ø4.5
4
18
82
35
18
44
32
150
28
11
28
8
M8
88
140
LEFT SIDE VIEW
A
7

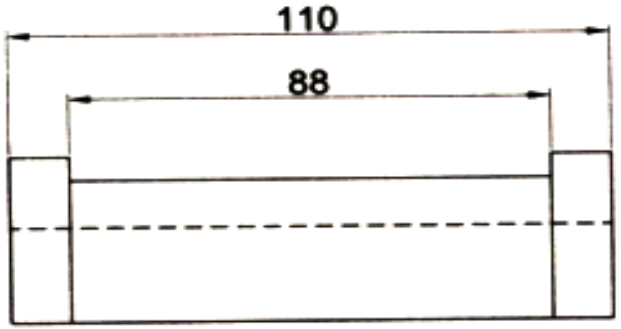




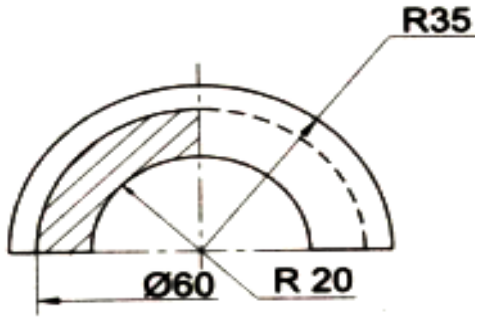
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

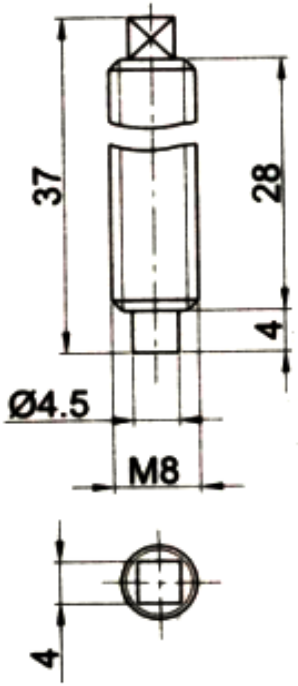
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



2



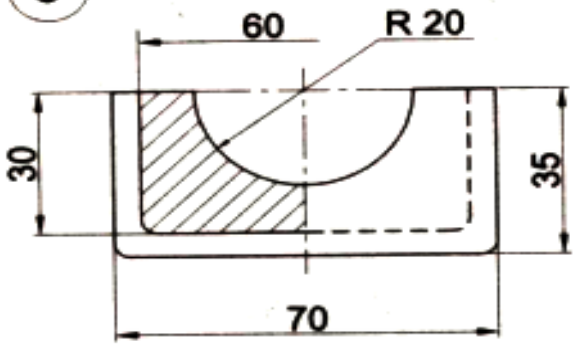
7

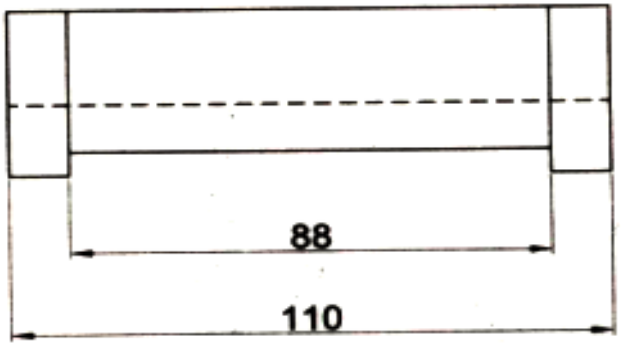


6

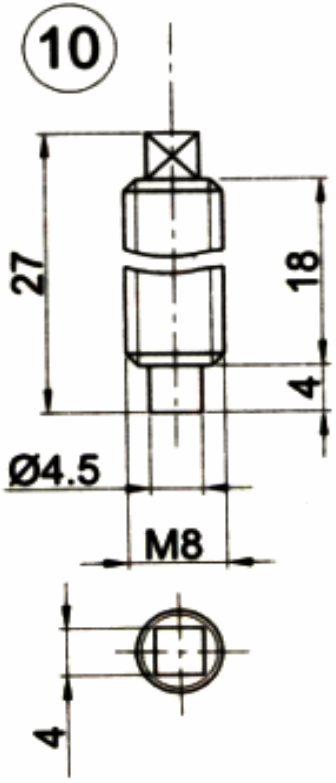


3

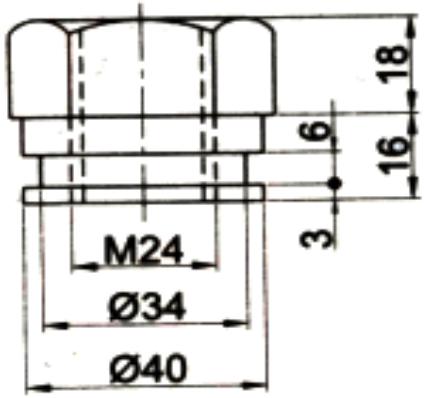




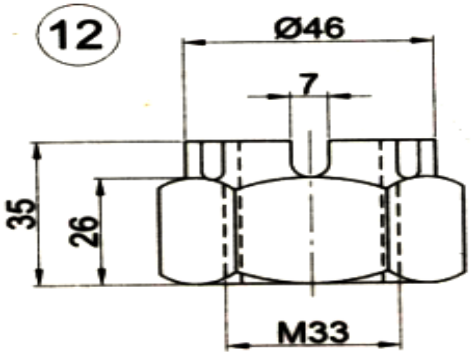
10



5



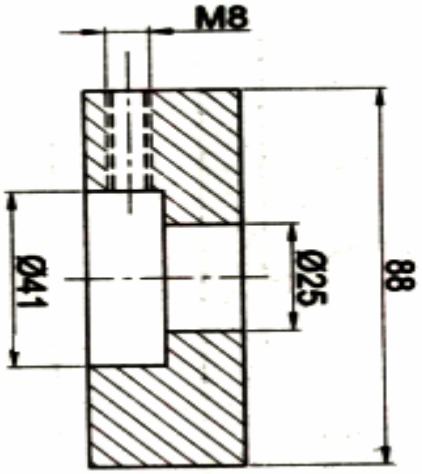
12

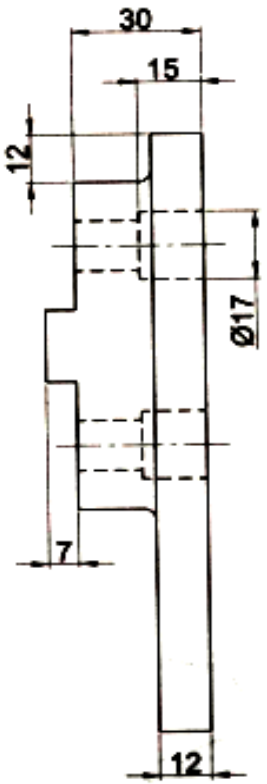


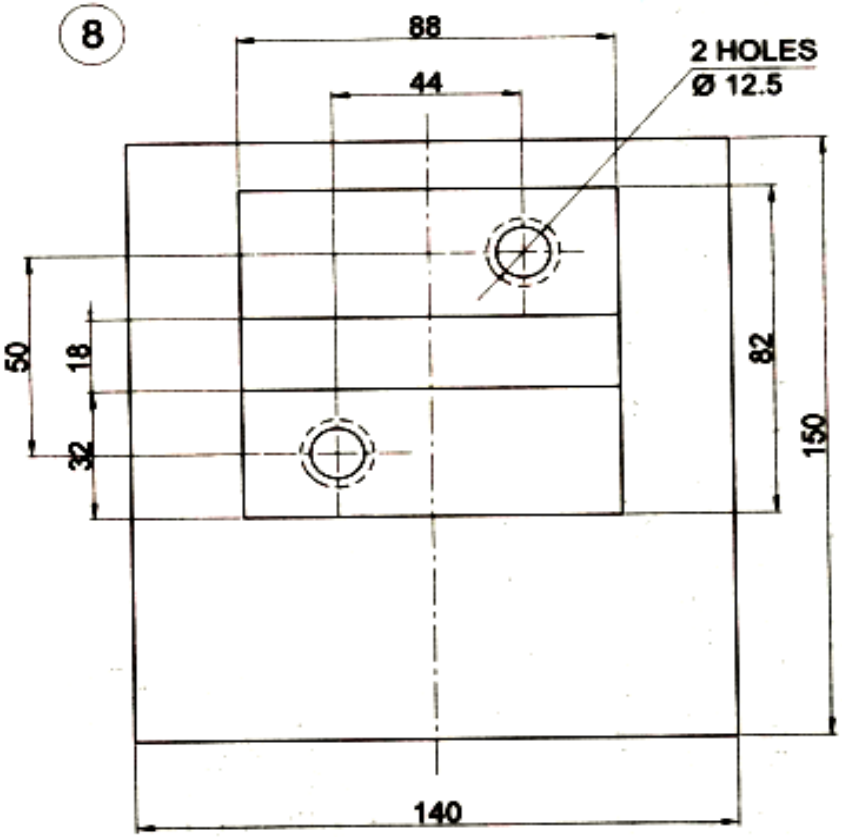
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

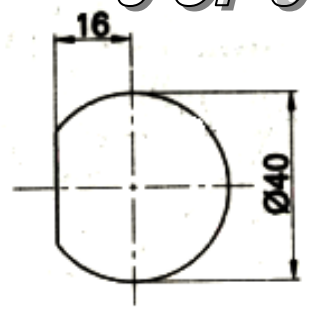
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

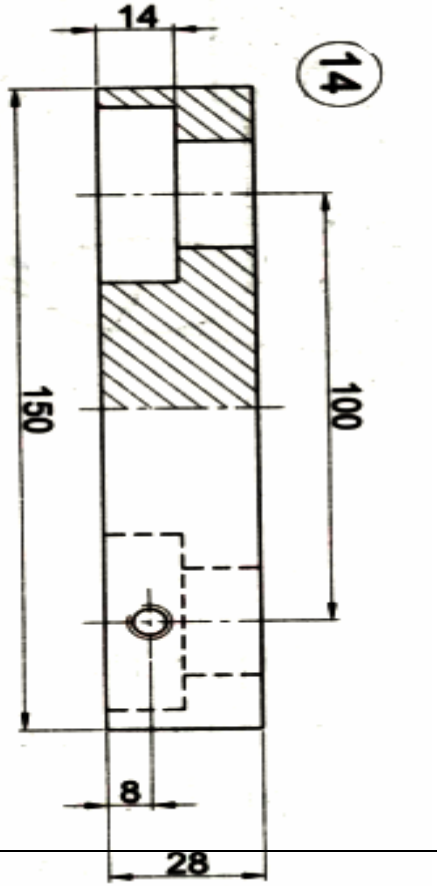
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

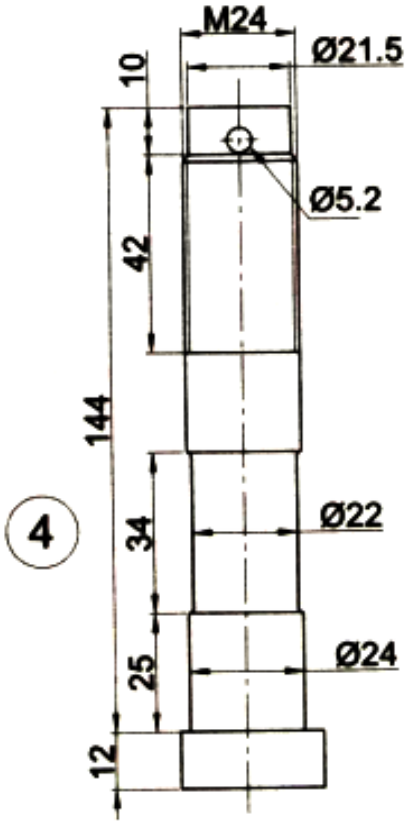












ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD INDO GERMAN TOOL ROOM AURANGABAD	DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

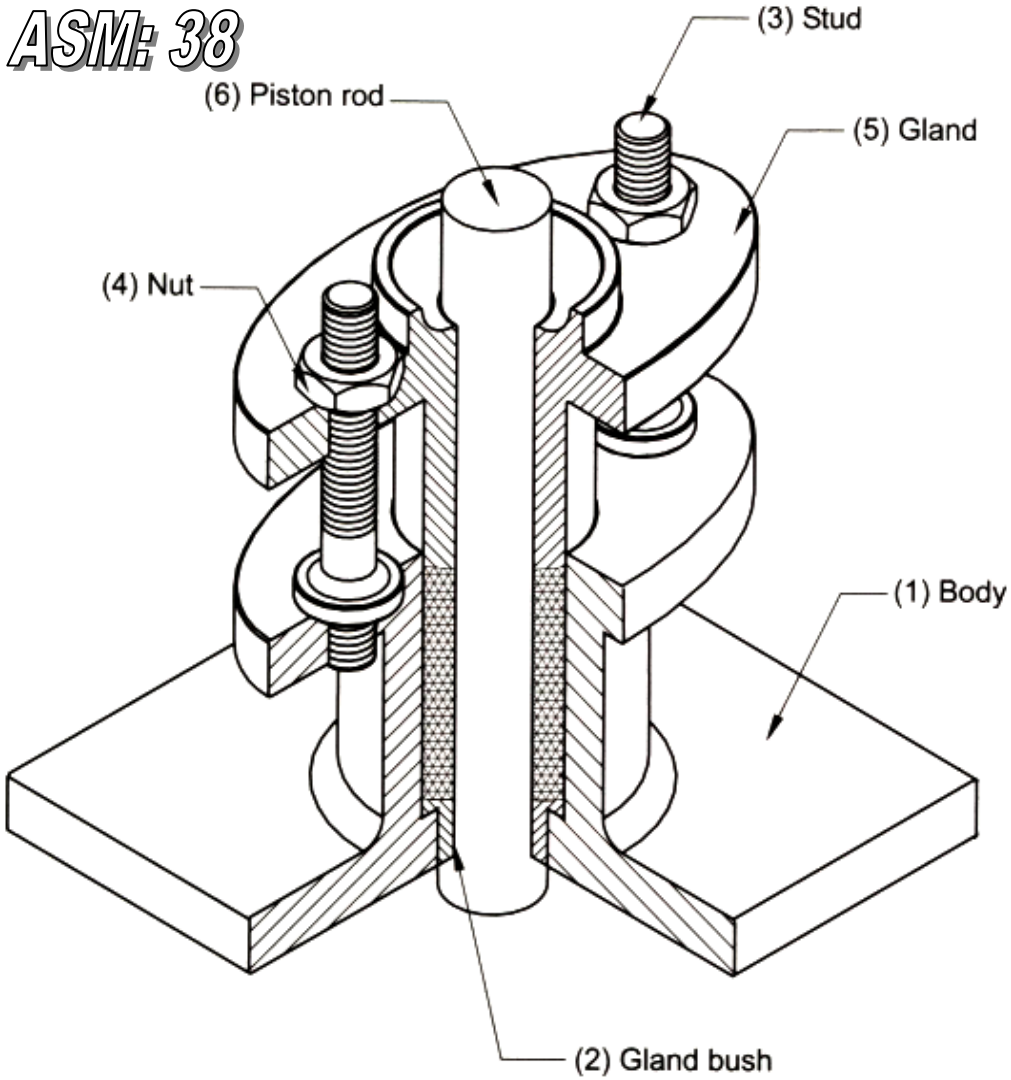


Figure Stuffing box

ALL DIMENSIONS IN mm

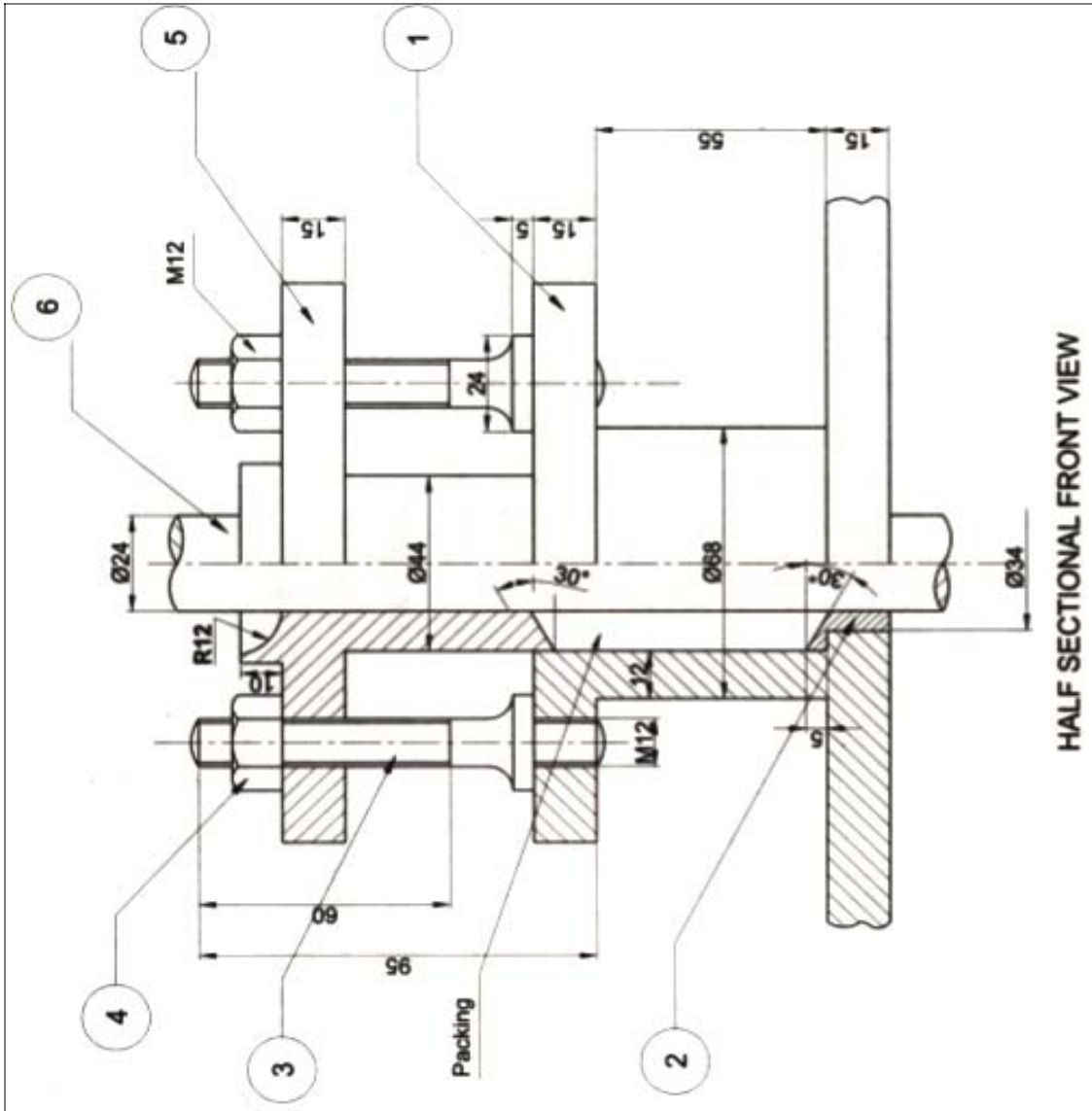
ITEM	DESCRIPTION	MATERIAL	NO OFF
6	PISTON ROD	STEEL	1
5	GLAND	C. I.	1
4	NUT	M. S.	2
3	STUD	M. S.	2
2	GLAND BUSH	Brass	1
1	BODY	C.I.	1

Parts details of stuffing box

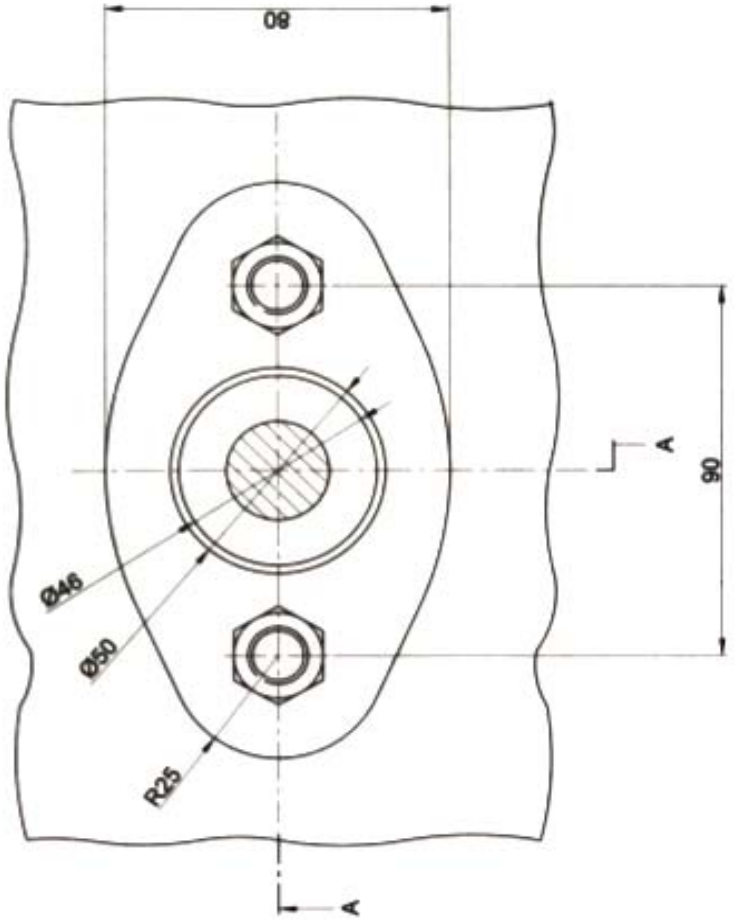
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



HALF SECTIONAL FRONT VIEW
SECTION AA



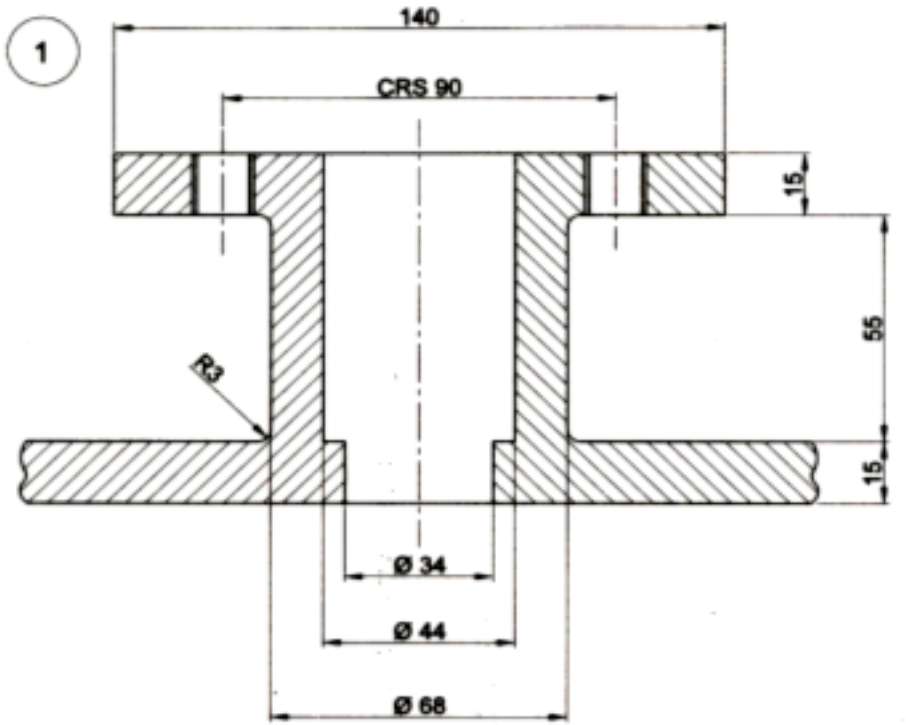
TOP VIEW

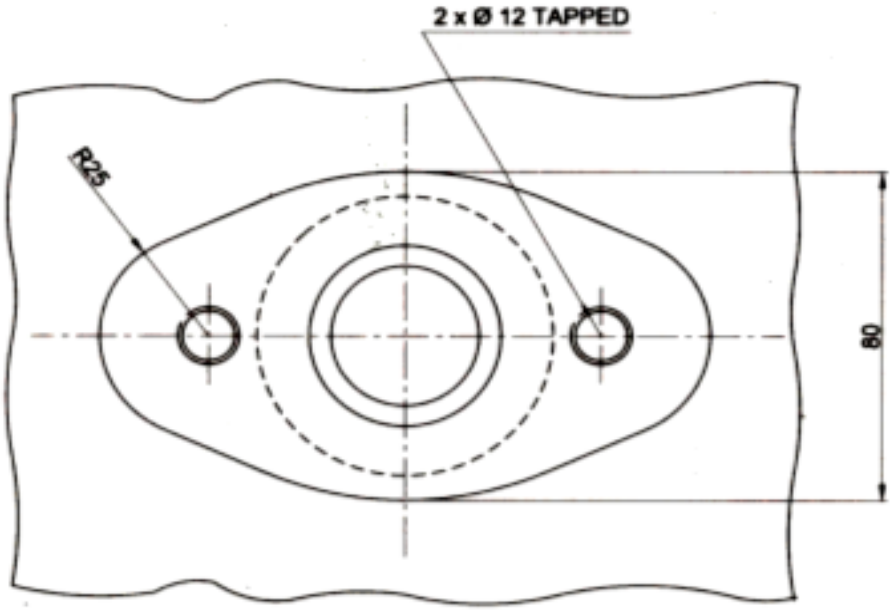
Assembly view of stuffing box

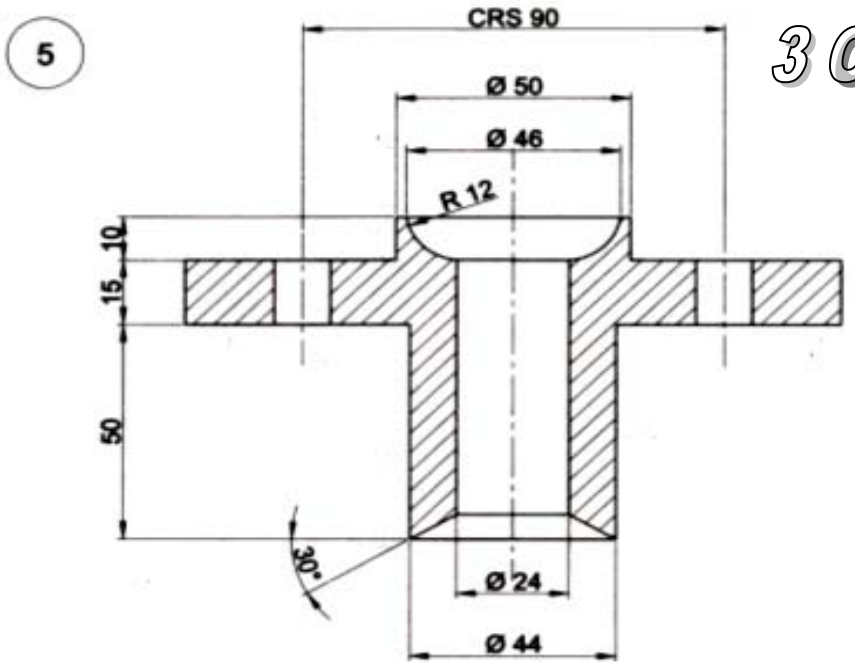
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

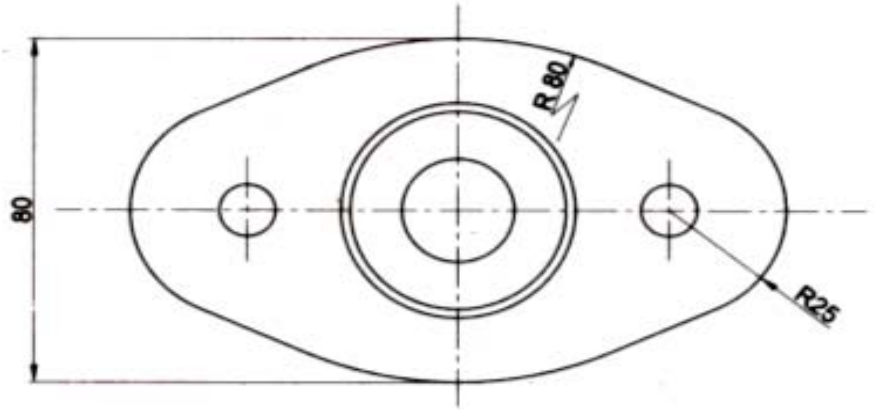
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.







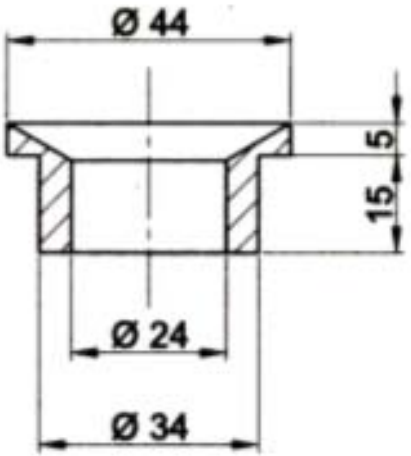


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

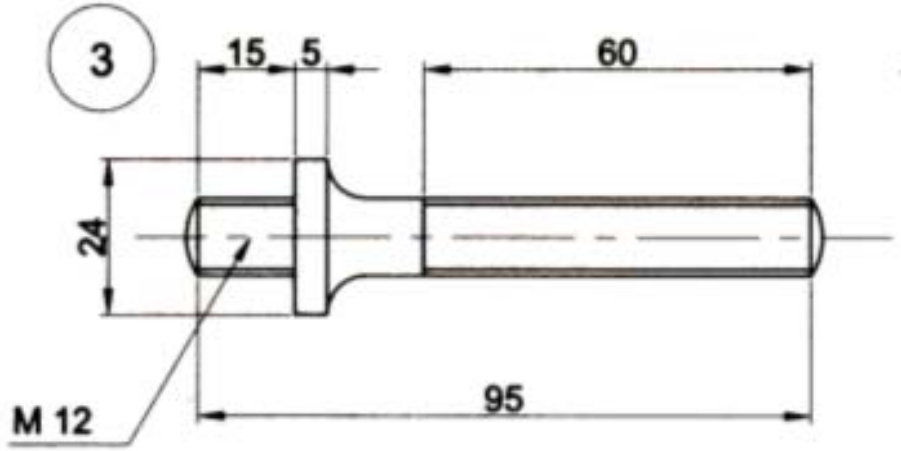
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

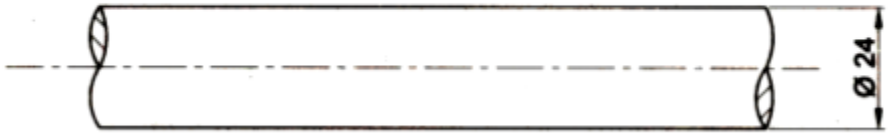
2



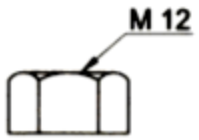
3



6



4



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

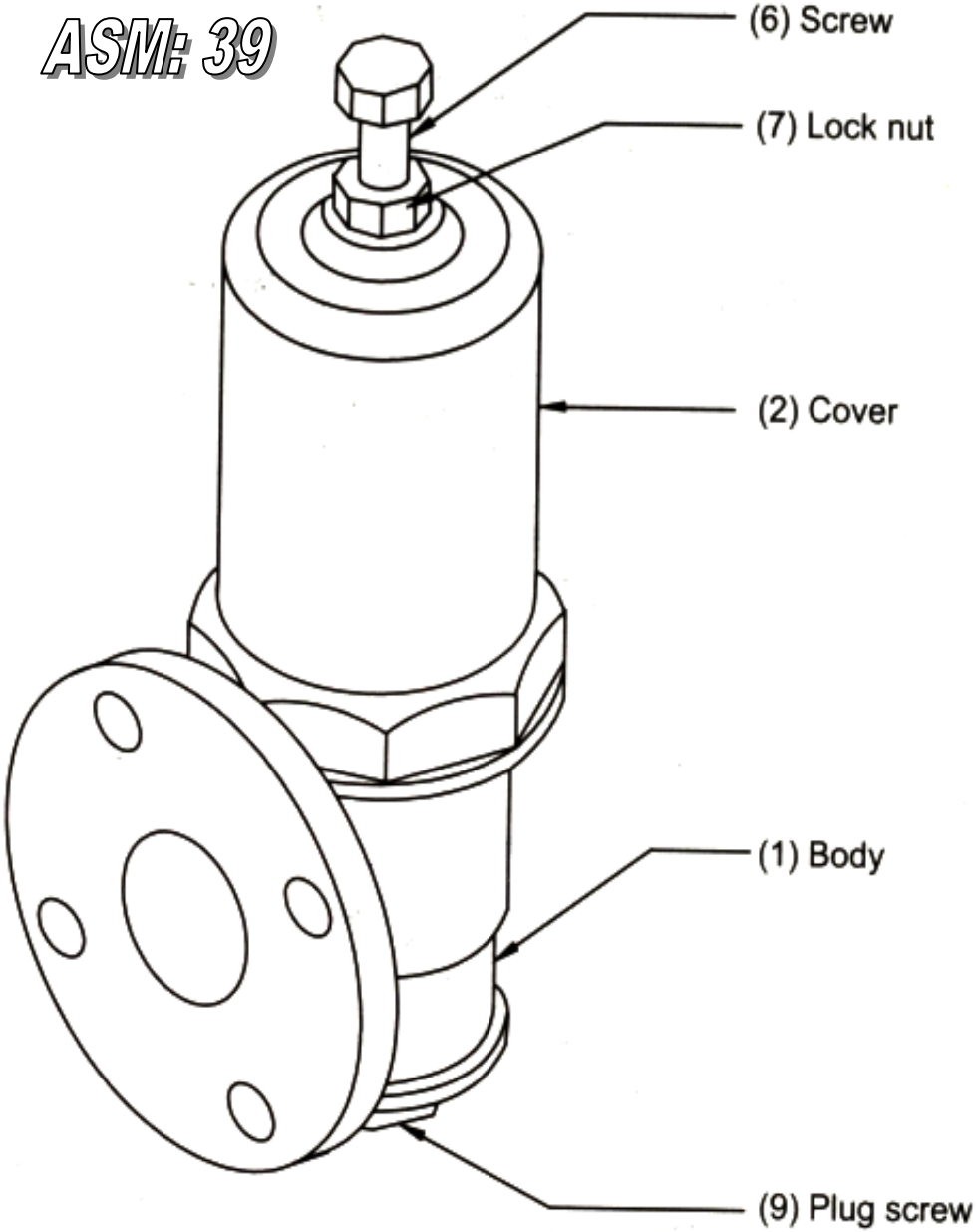


Figure Cylinder relief valve

ALL DIMENSIONS IN mm

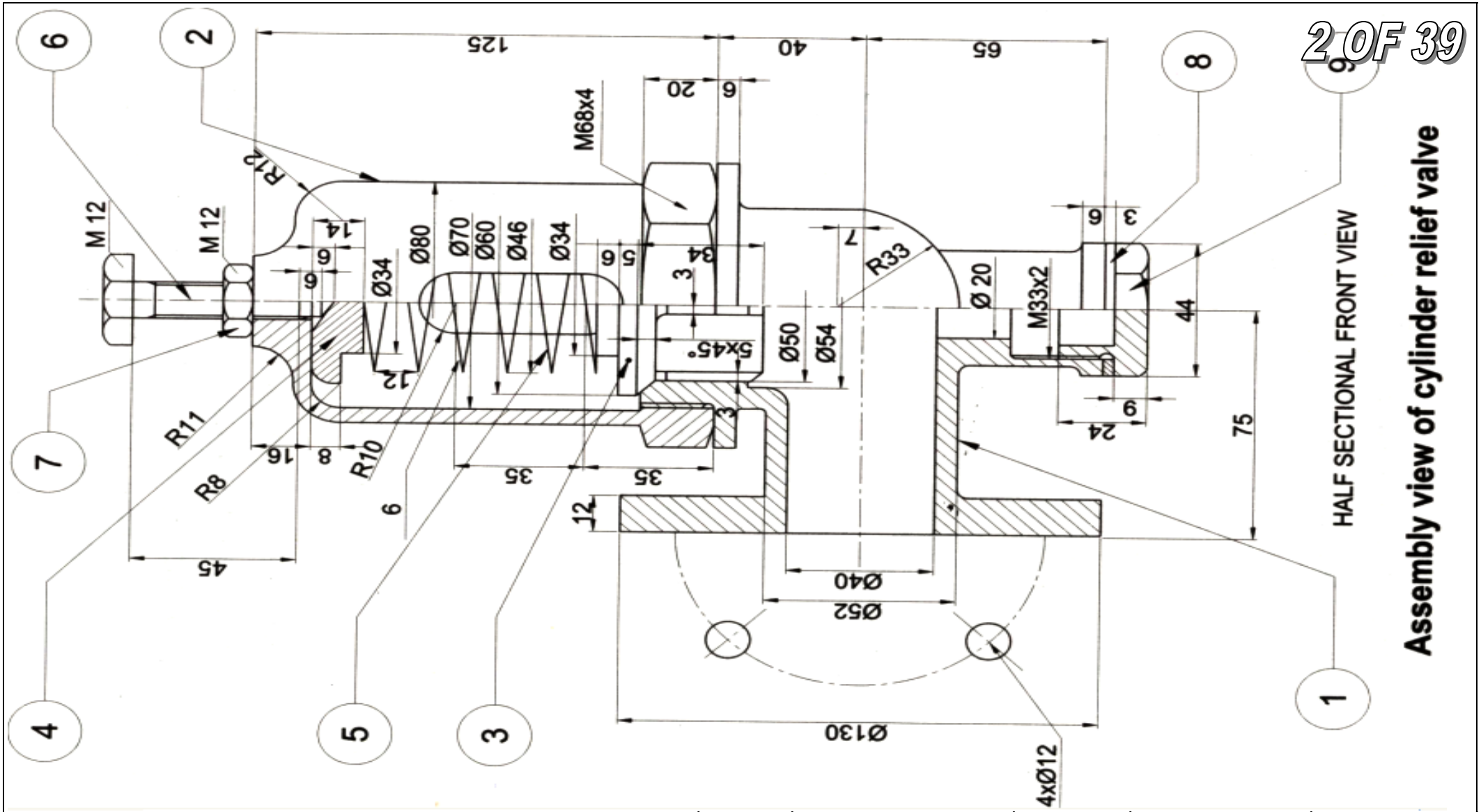
ITEM	DESCRIPTION	MATERIAL	NO OFF
9	PLUG SCREW	GUN METAL	1
8	WASHER	ALUMINIUM	1
7	LOCK NUT	Fe 410 W	1
6	SCREW M12	Fe 410 W	1
5	SPRING	STEEL	1
4	SPRING SEAT	GUN METAL	1
3	VALVE	GUN METAL	1
2	COVER	GUN METAL	1
1	BODY	GUN METAL	1

Parts details of cylinder relief valve

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

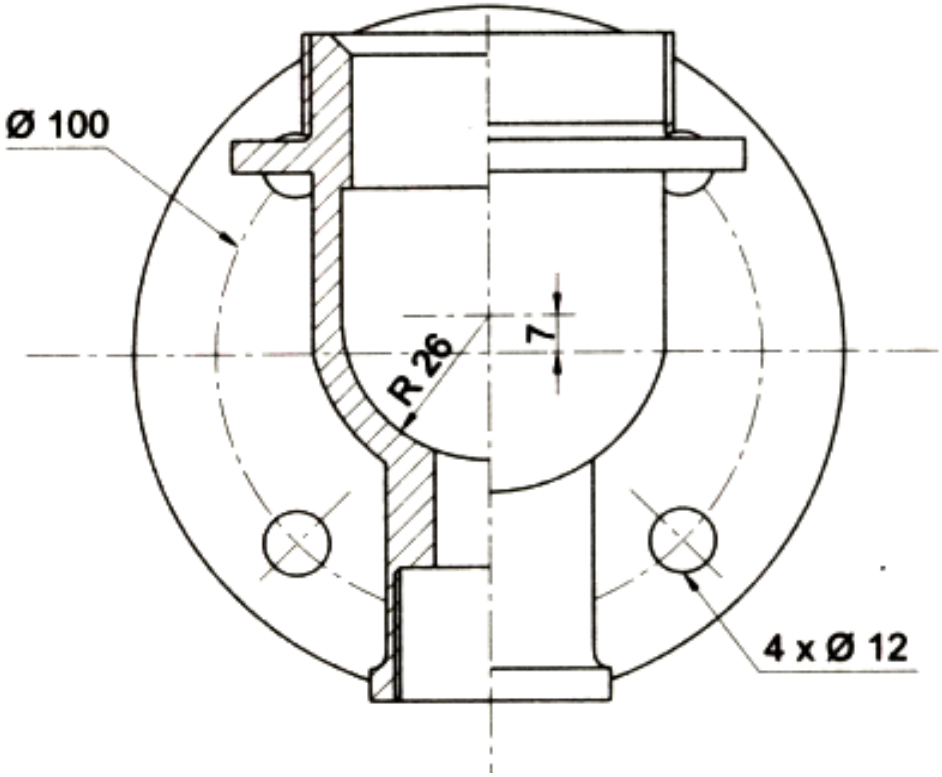


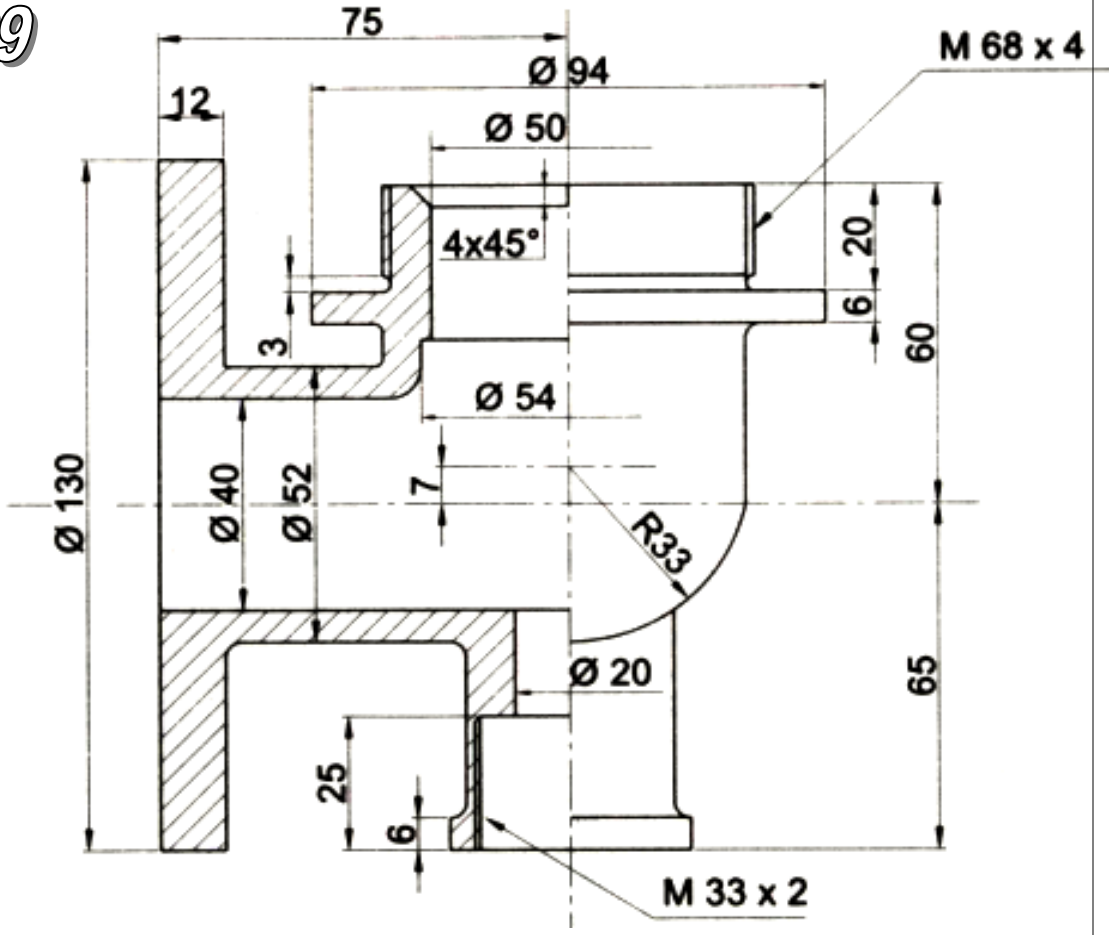
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

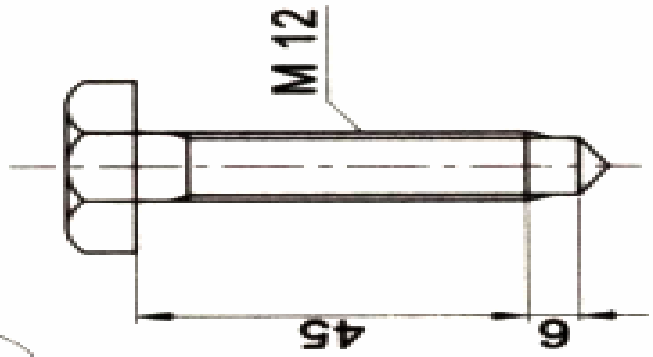
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

1







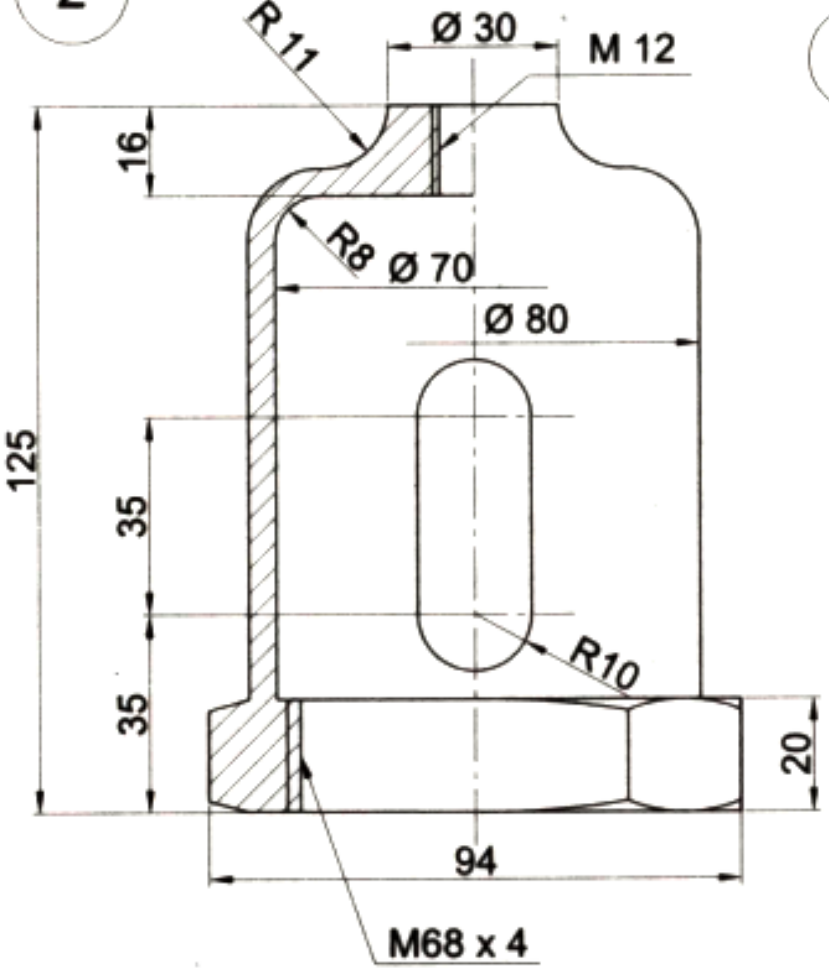
9

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

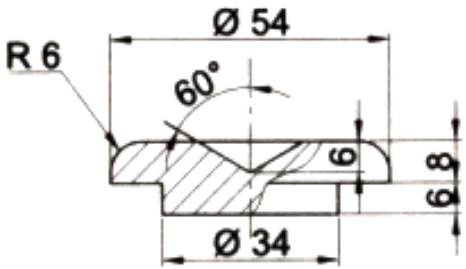
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

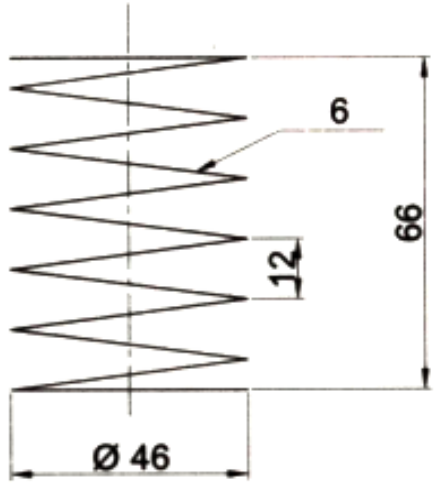
2



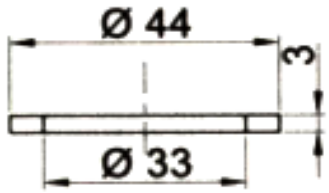
4



5



8

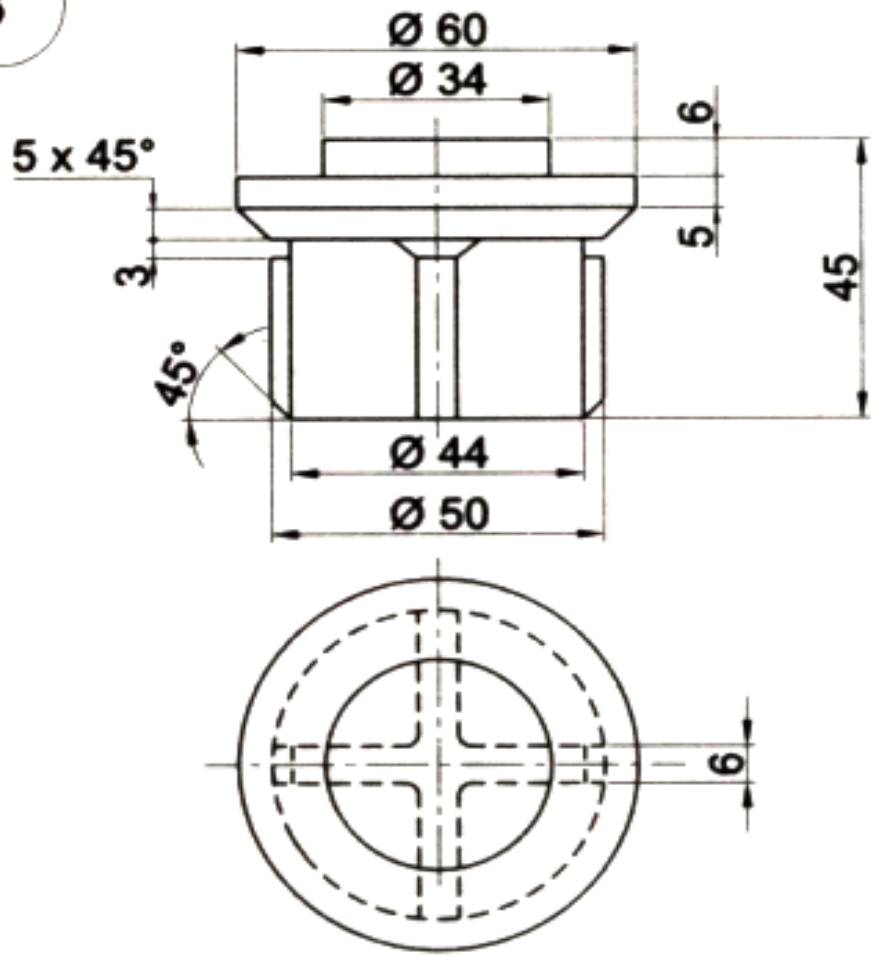


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

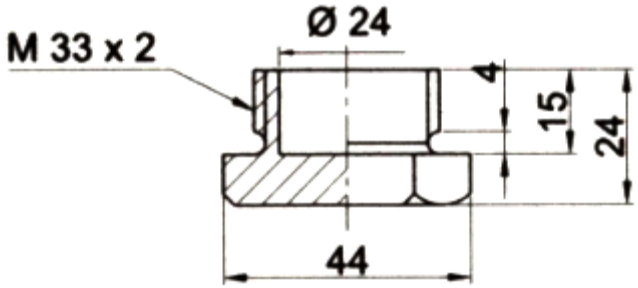
3



7



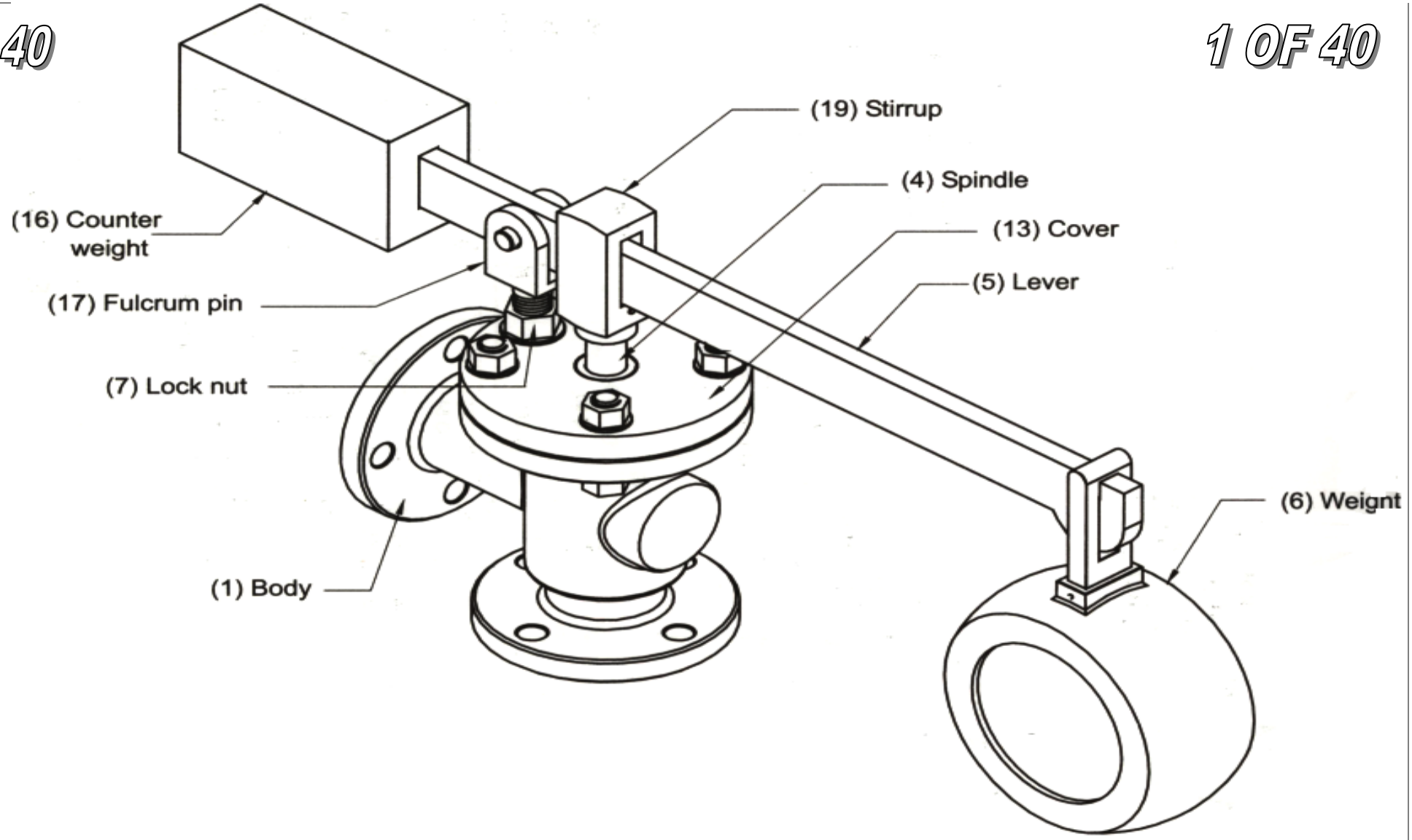
9



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

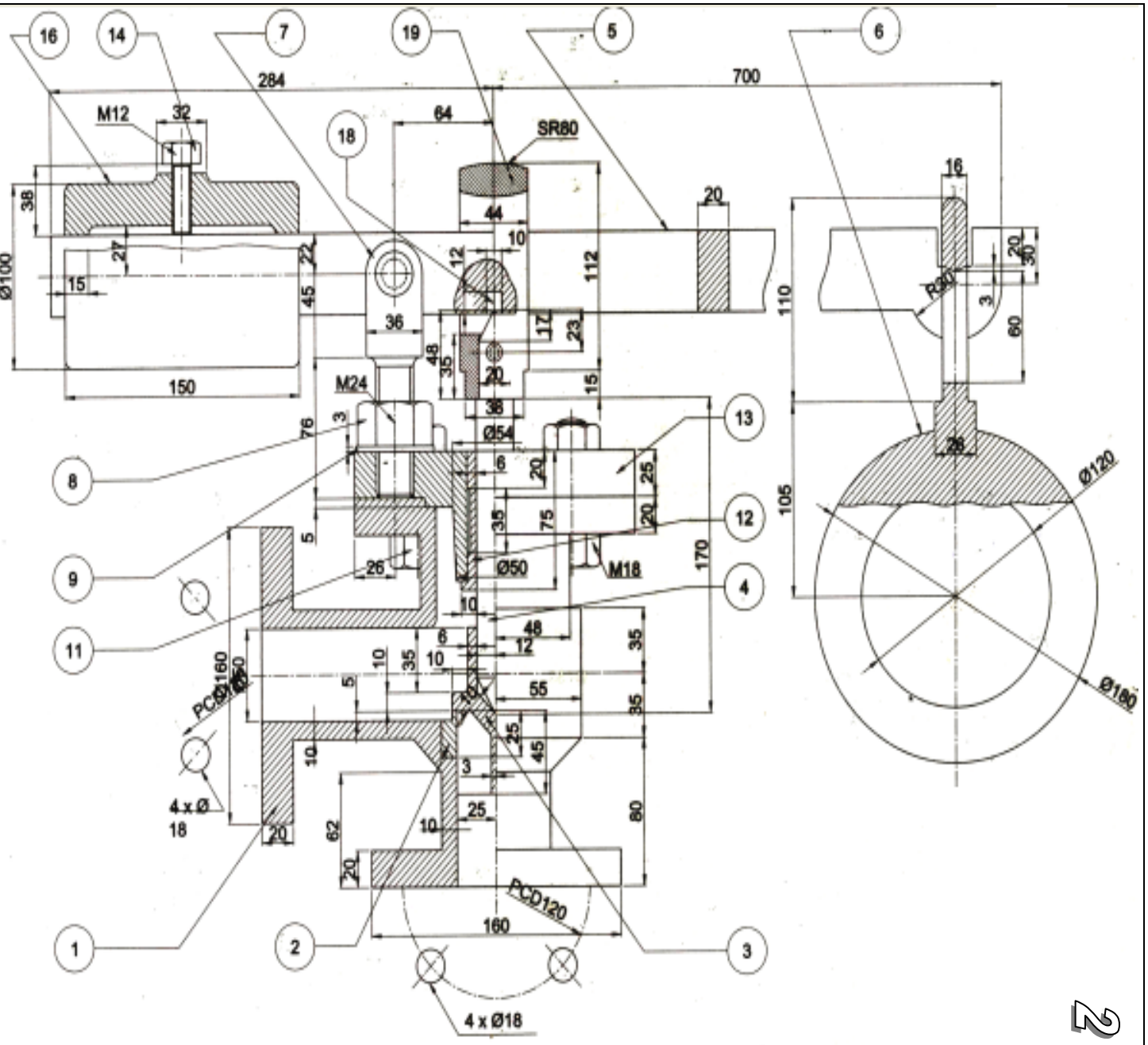
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

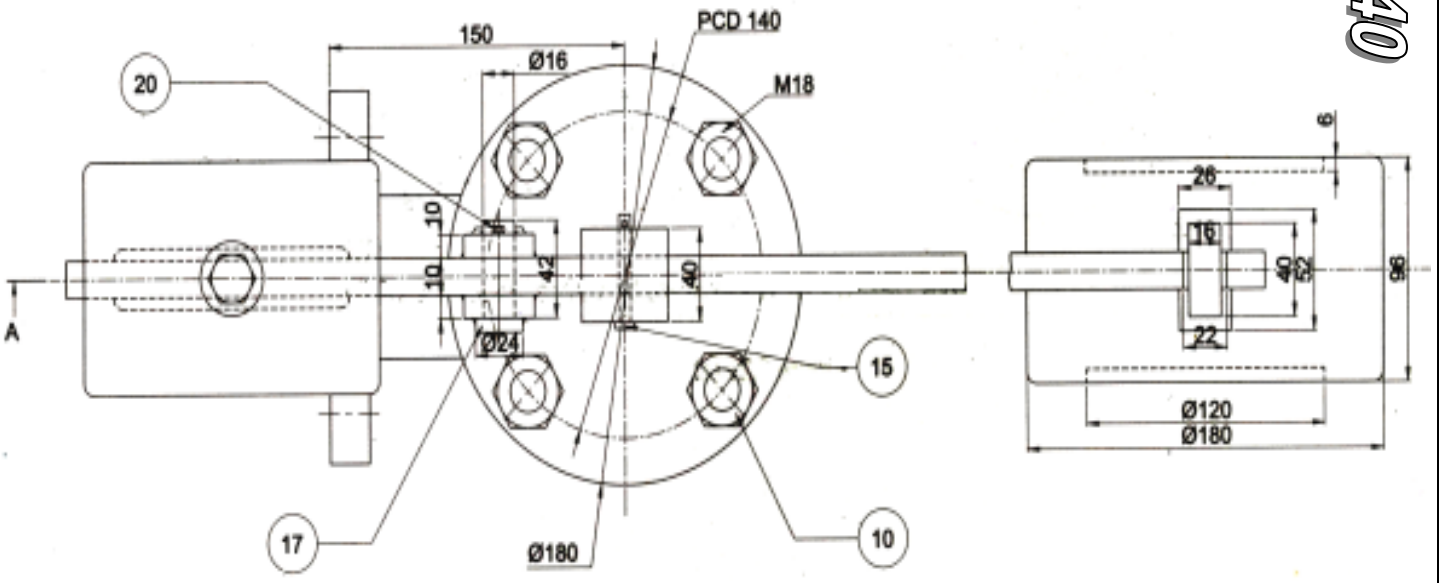
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



HALF SECTIONAL FRONT VIEW

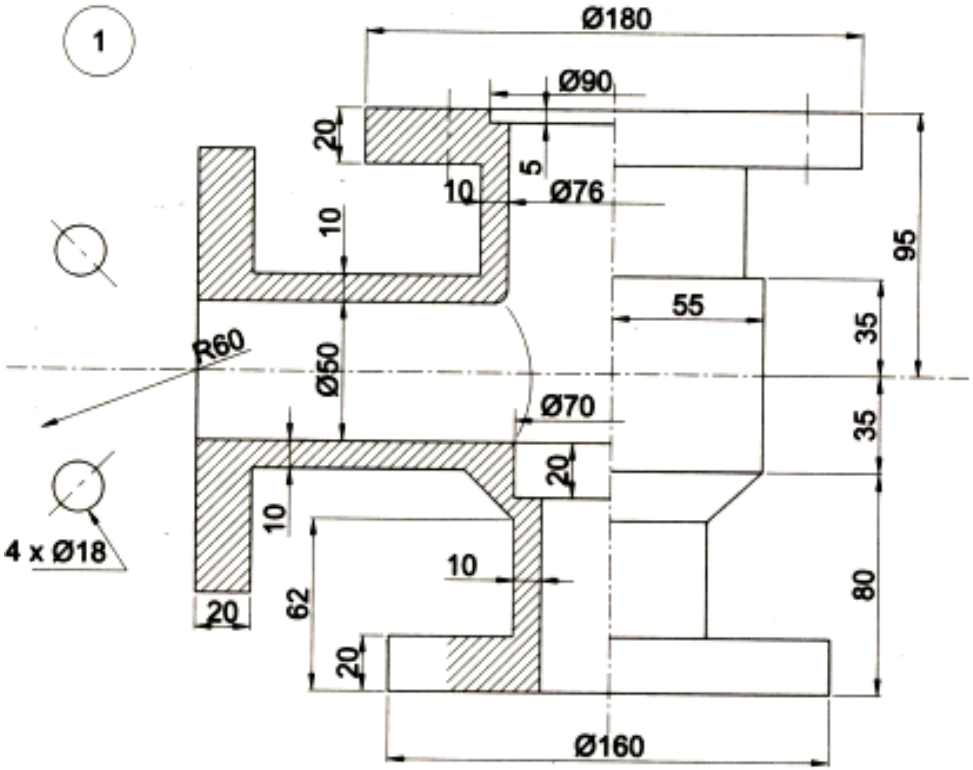
SECTION AA

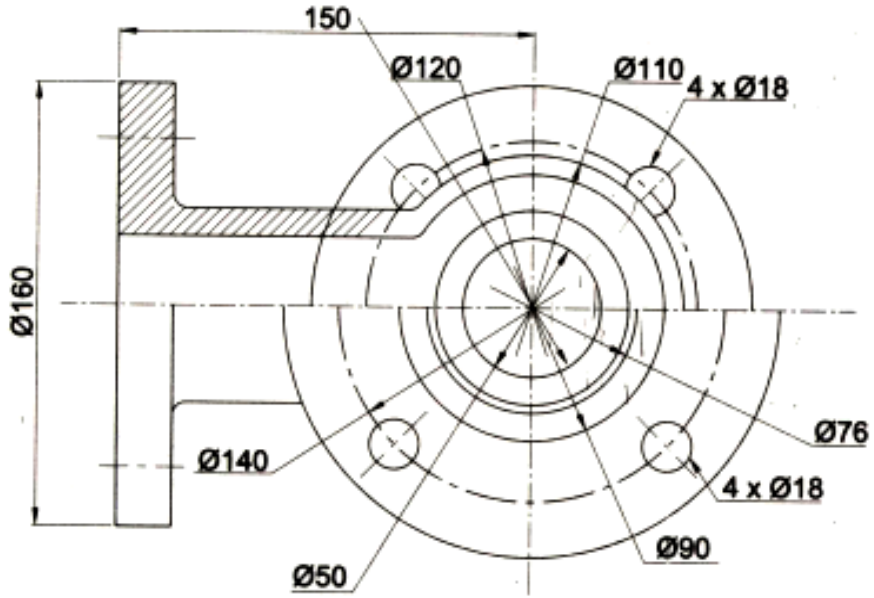


TOP VIEW

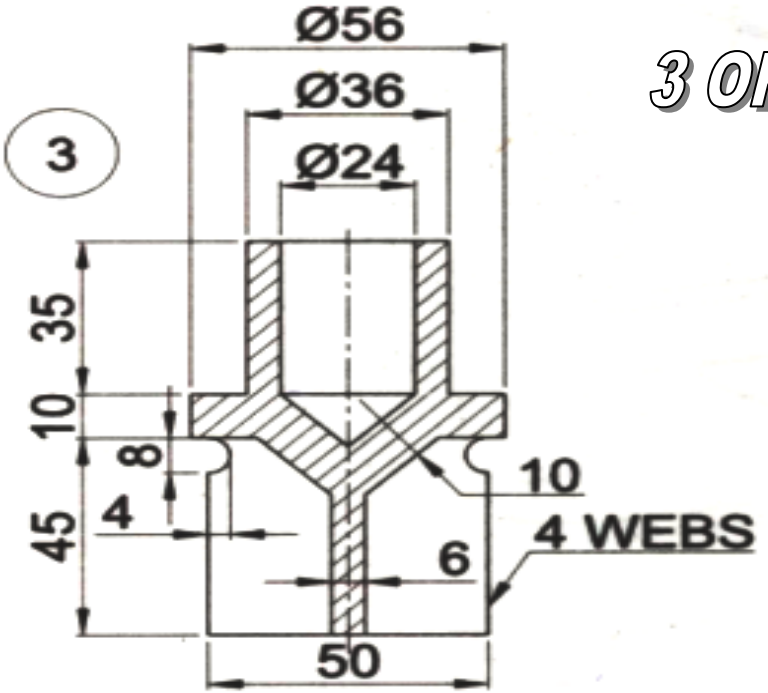
Assembly view of lever safety valve

1

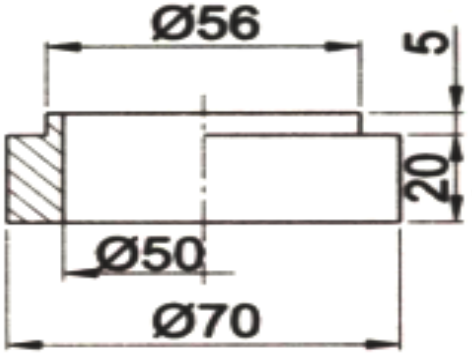




3



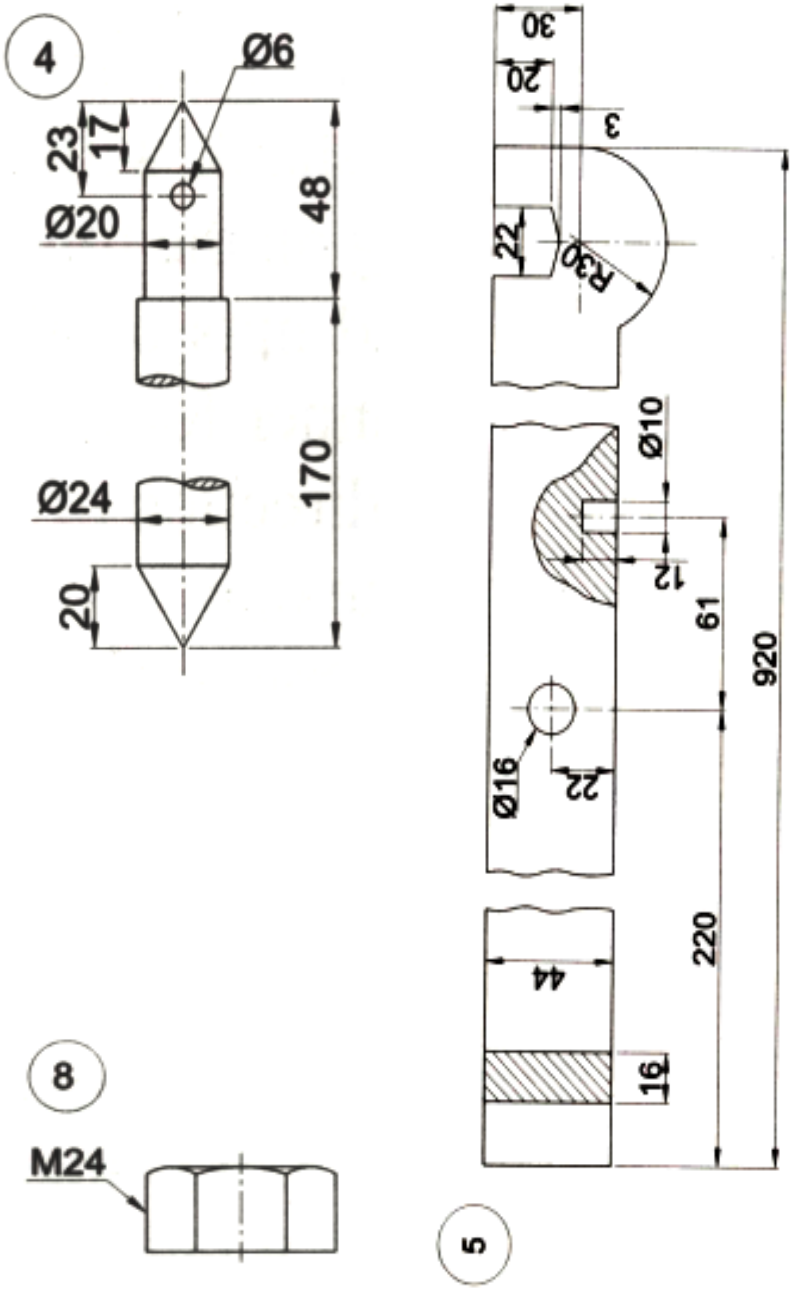
2

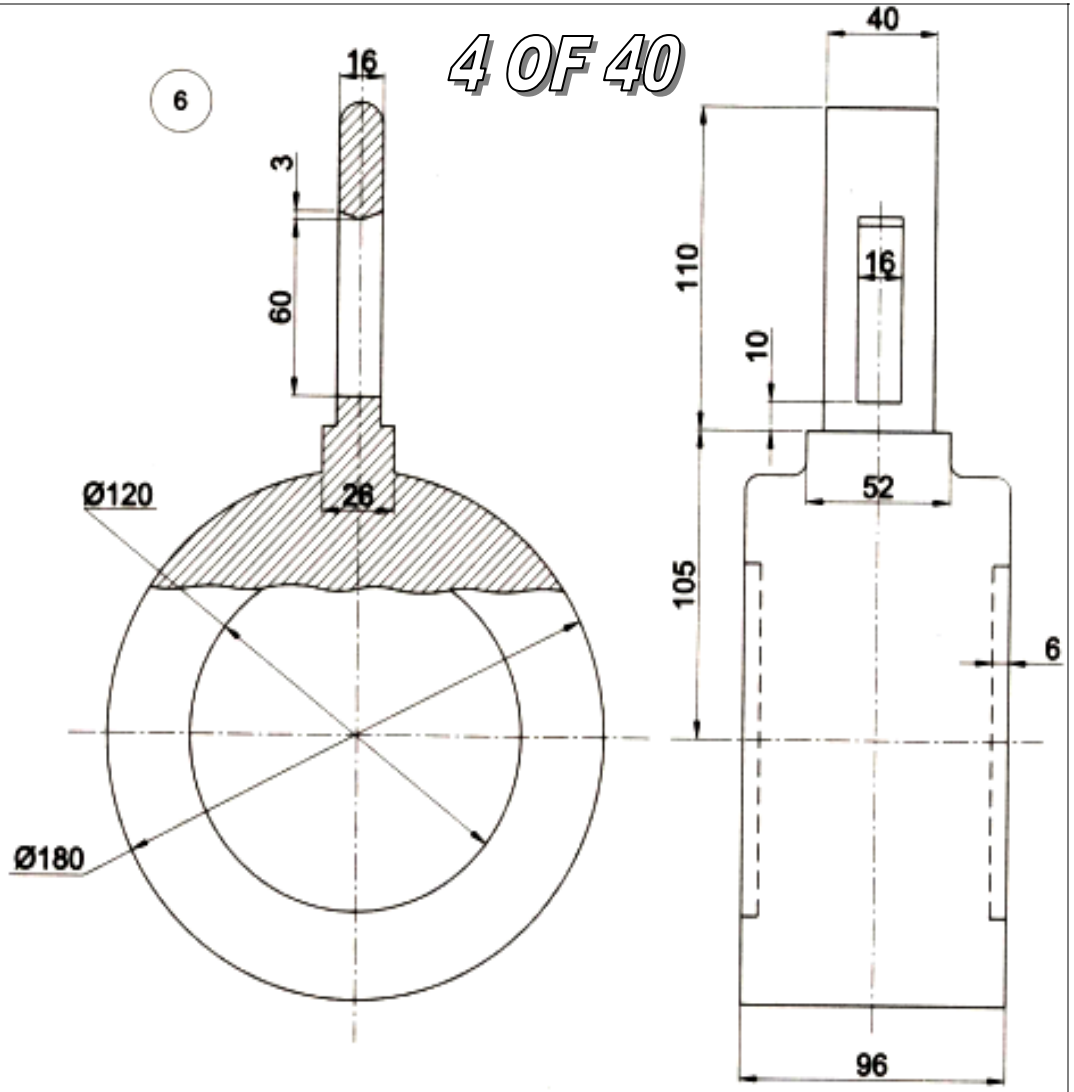


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



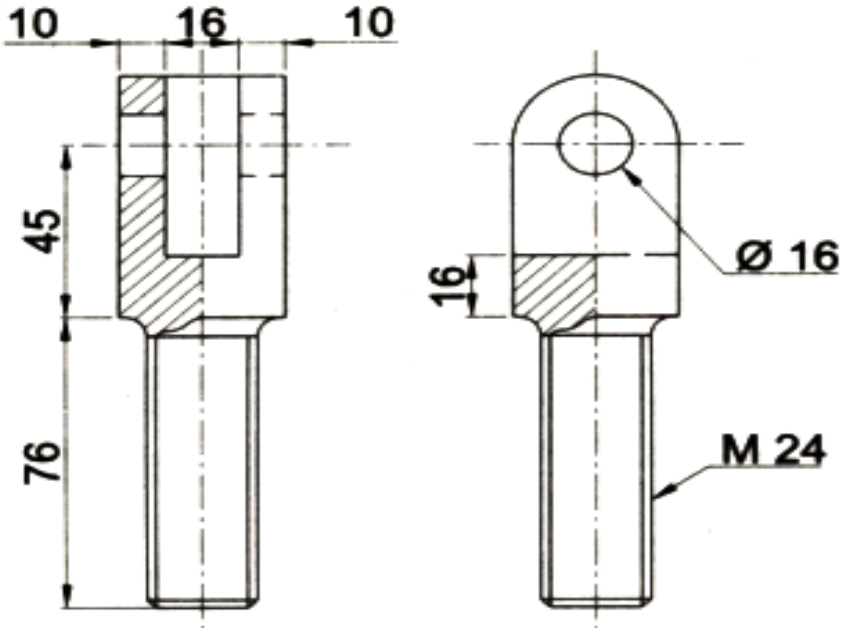


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

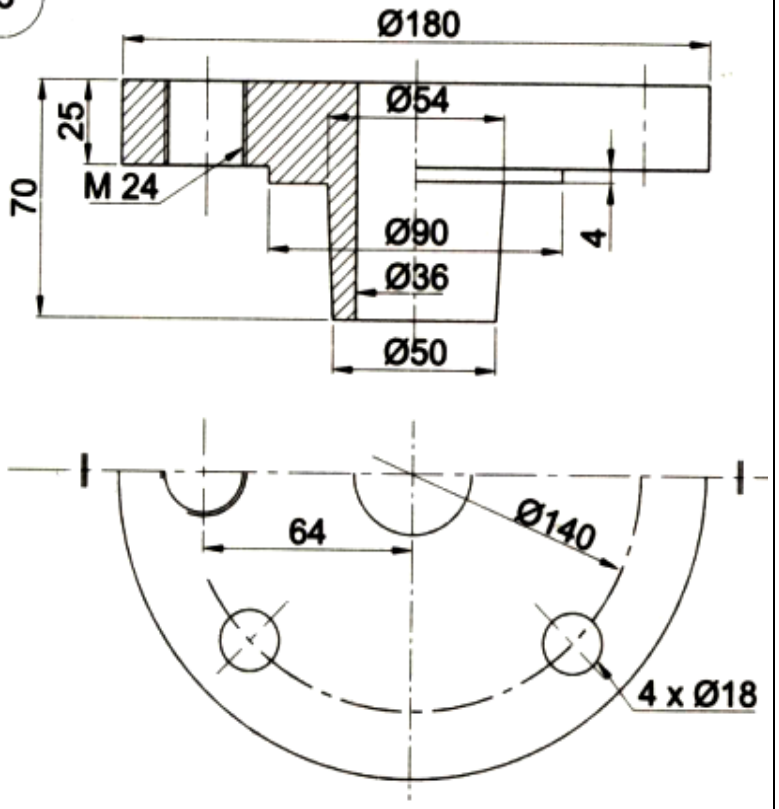
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

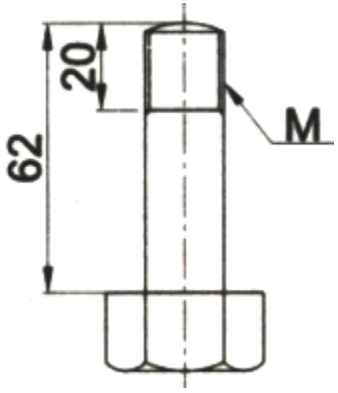
7



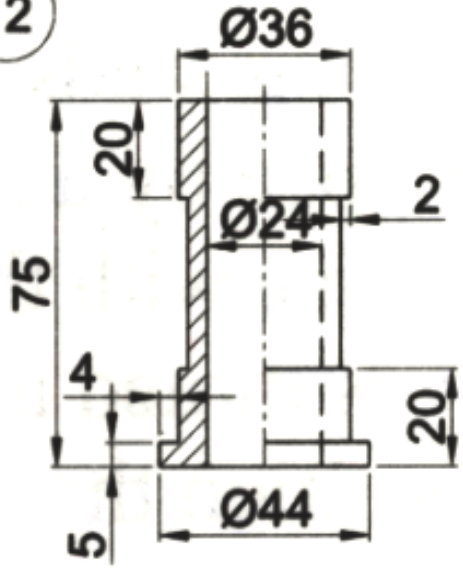
13



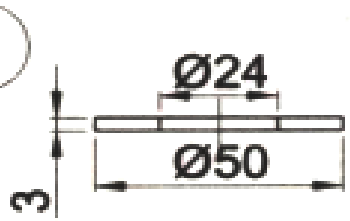
11



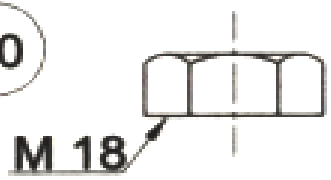
12



9



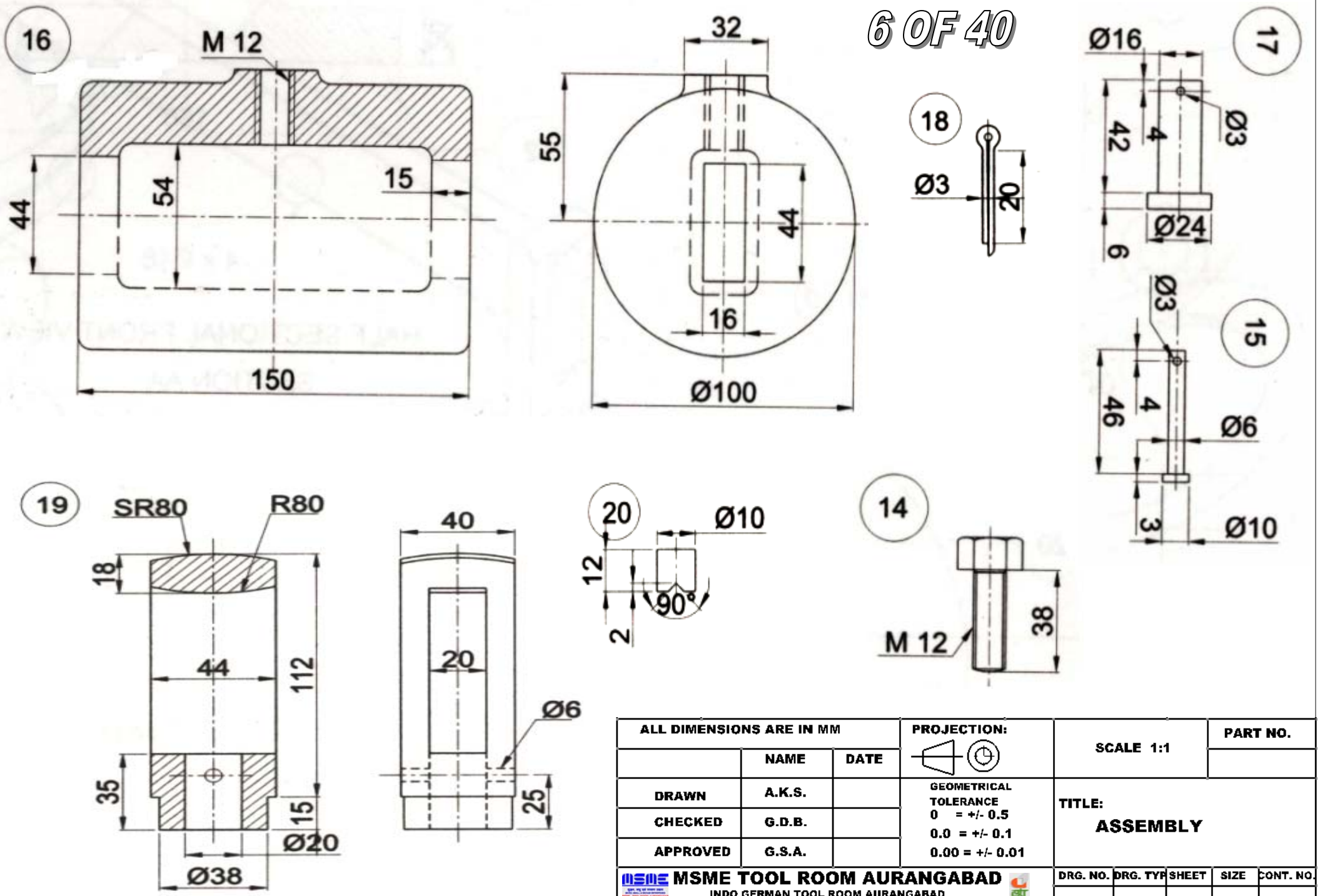
10



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

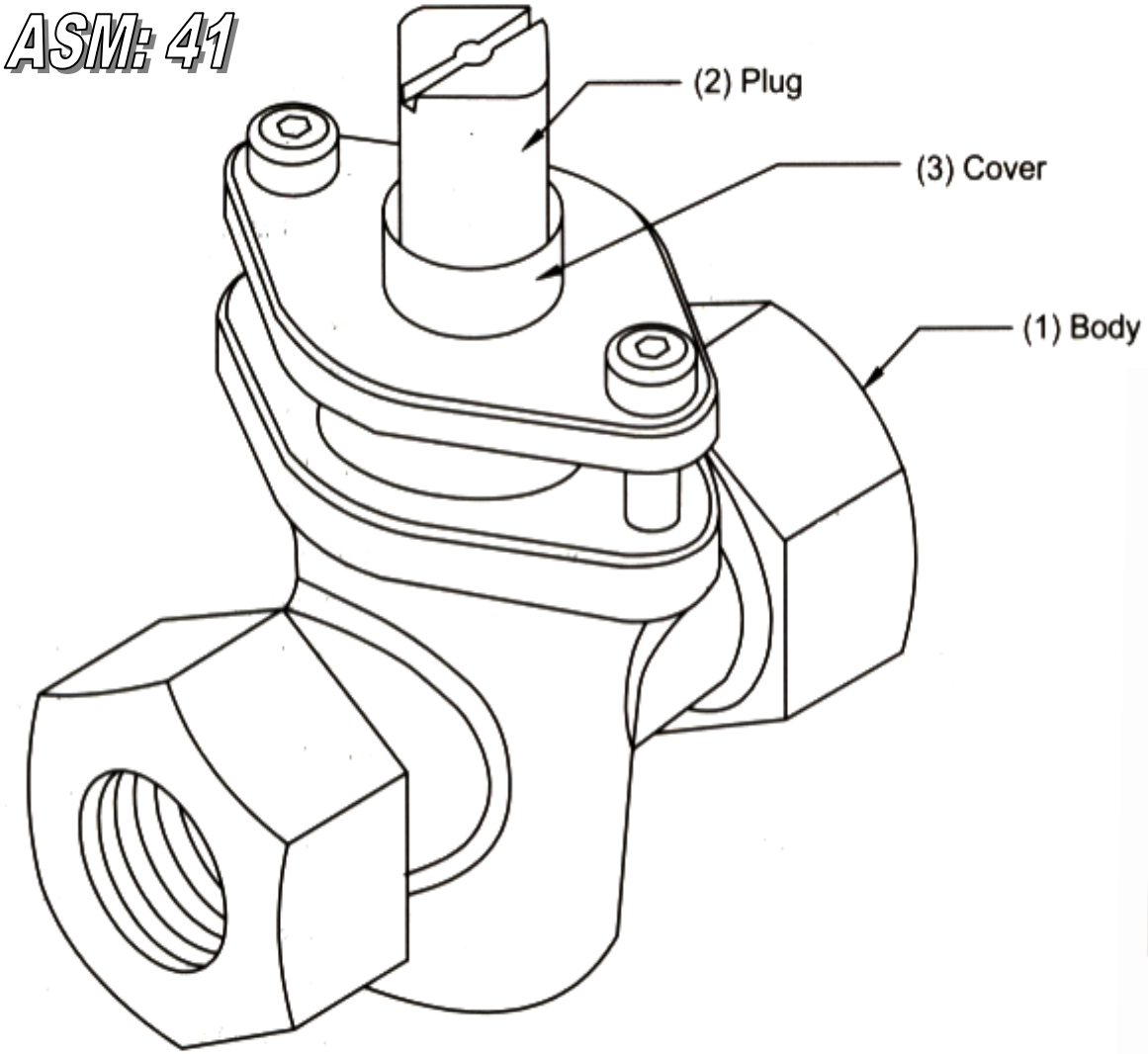


Figure Stop cock

ALL DIMENSIONS IN mm

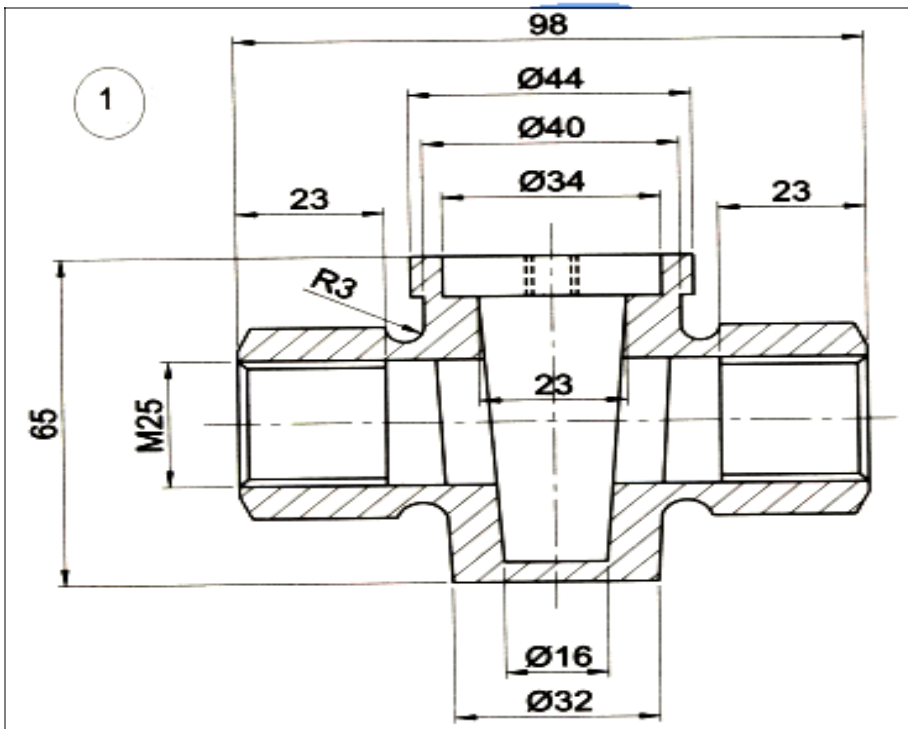
ITEM	DESCRIPTION	MATERIAL	NO OFF
4	SEAL	RUBBER	1
3	COVER	GUN METAL	1
2	PLUG	GUN METAL	1
1	BODY	GUN METAL	1

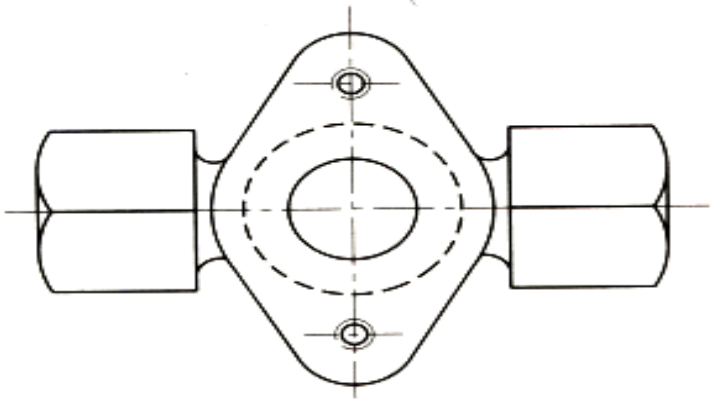
Parts details of stop cock

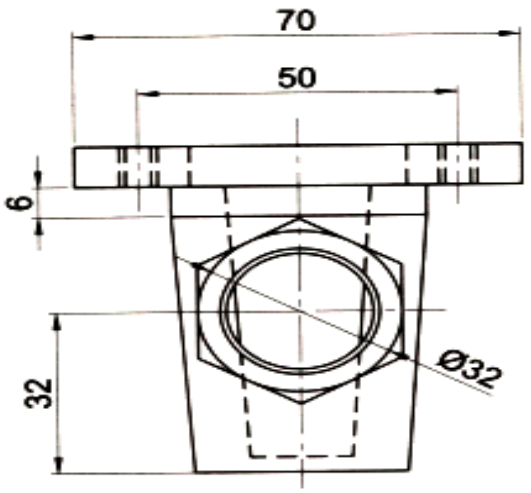
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

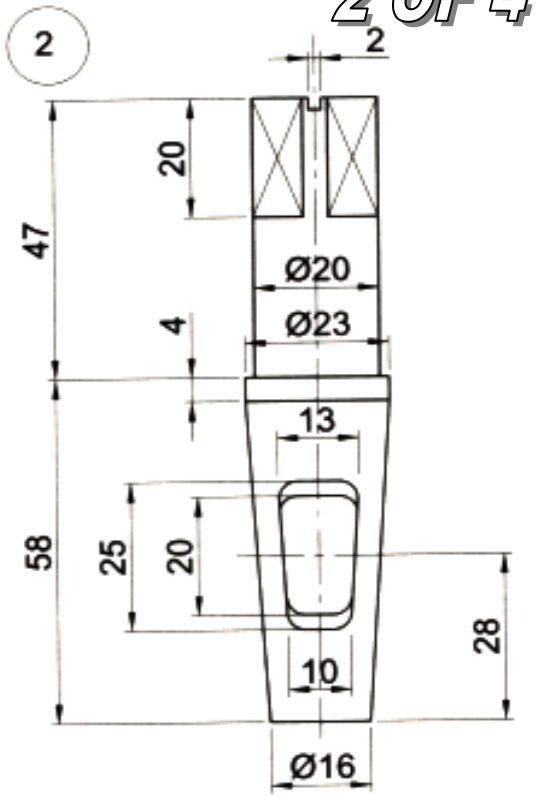
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

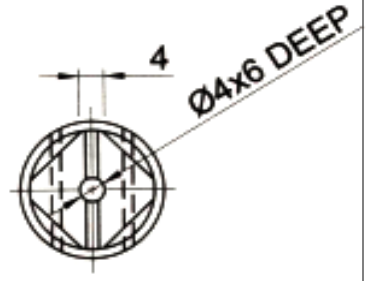
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.









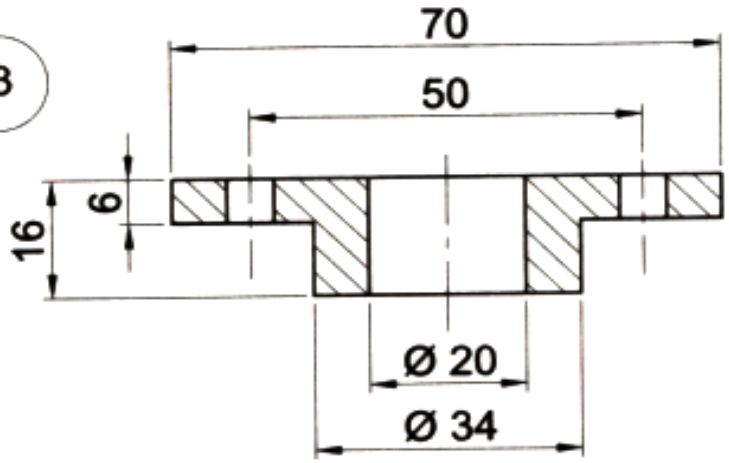


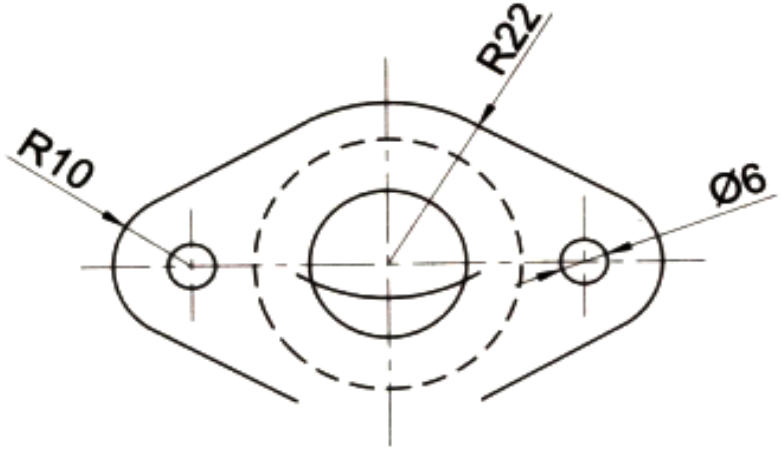
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

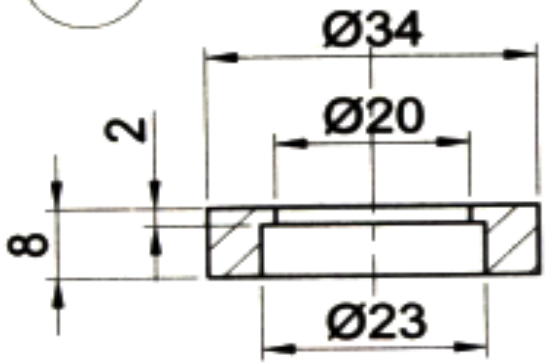
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

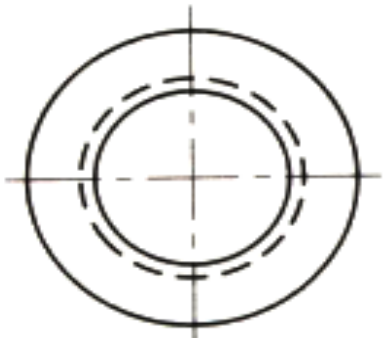
3





4





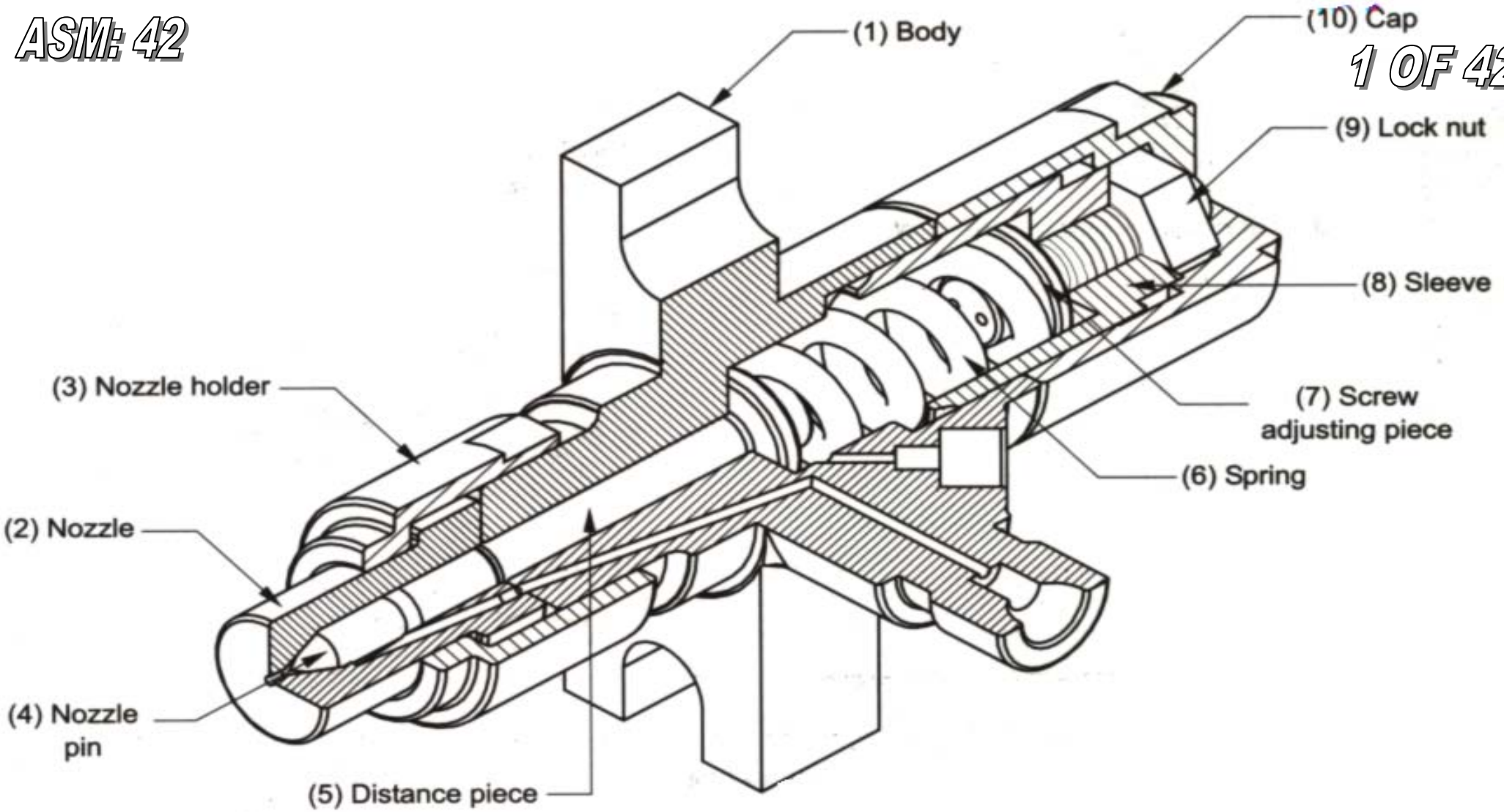
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

ASM: 42

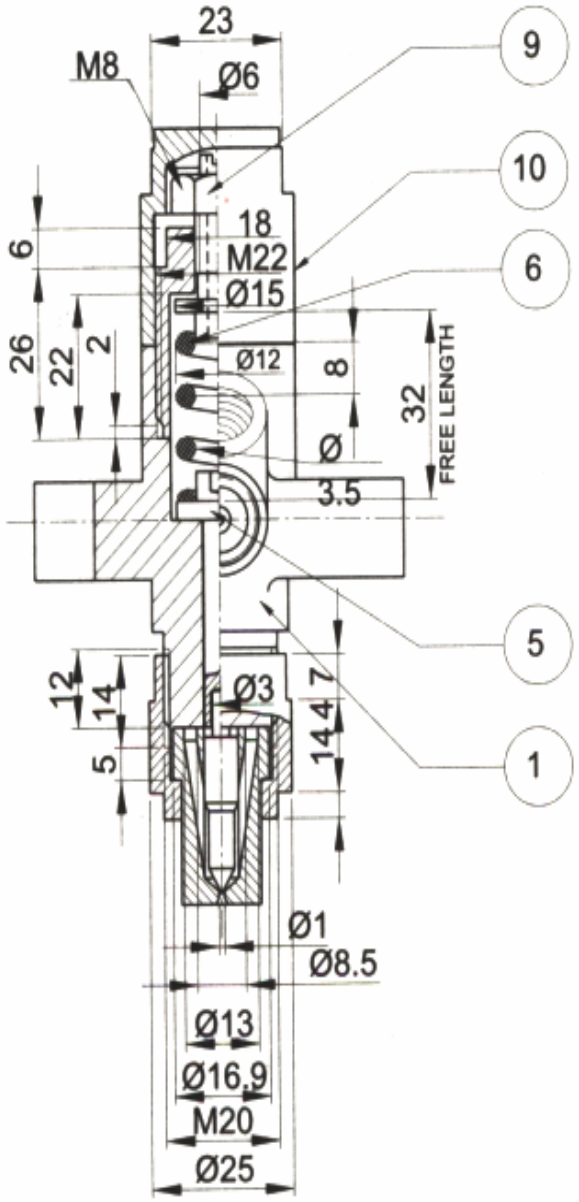
1 OF 42



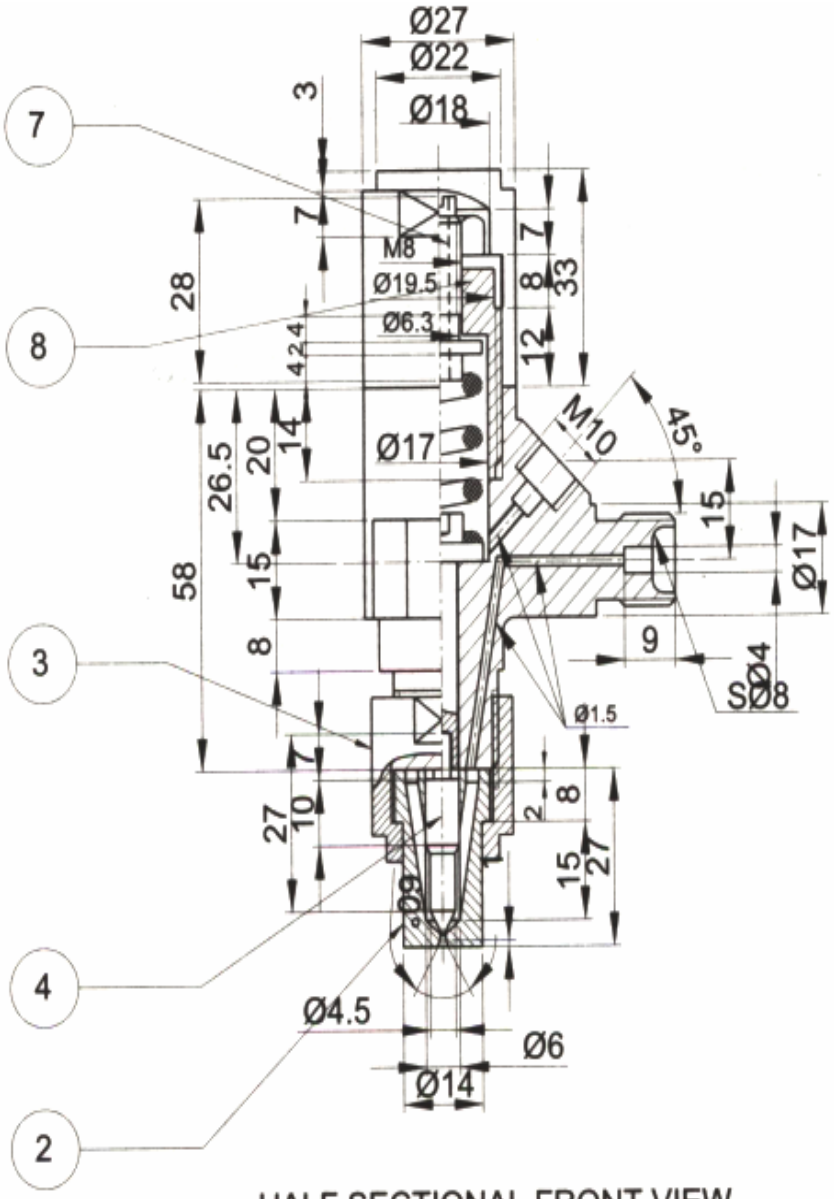
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

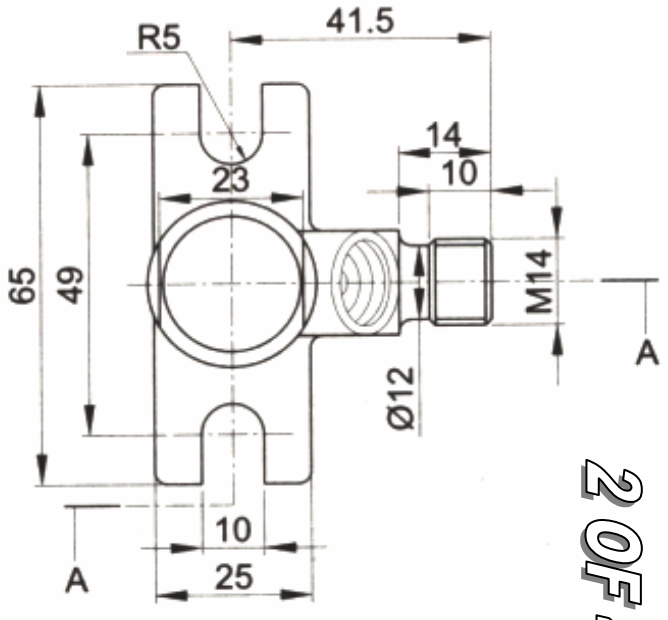
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



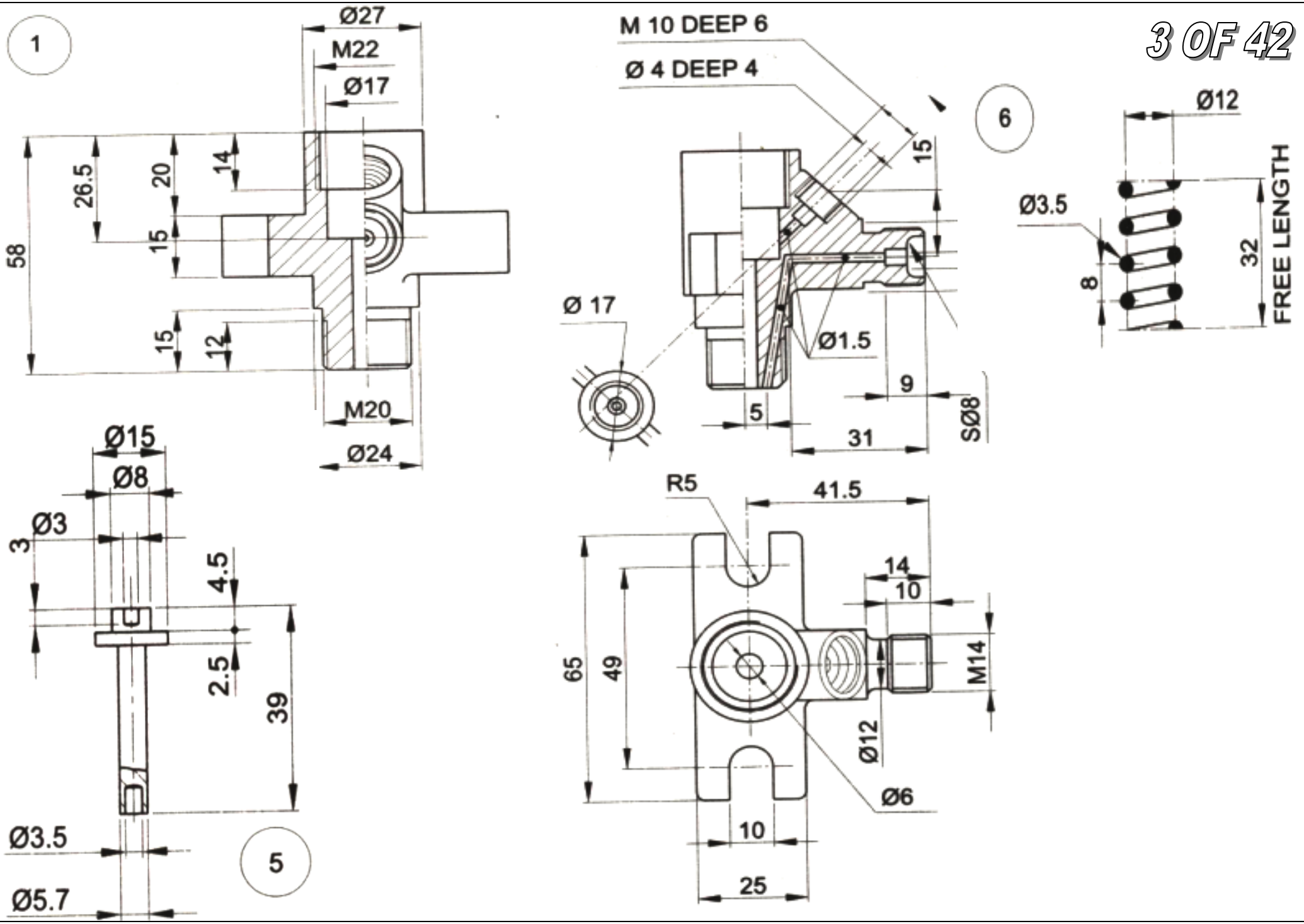
HALF SECTIONAL RIGHT SIDE VIEW



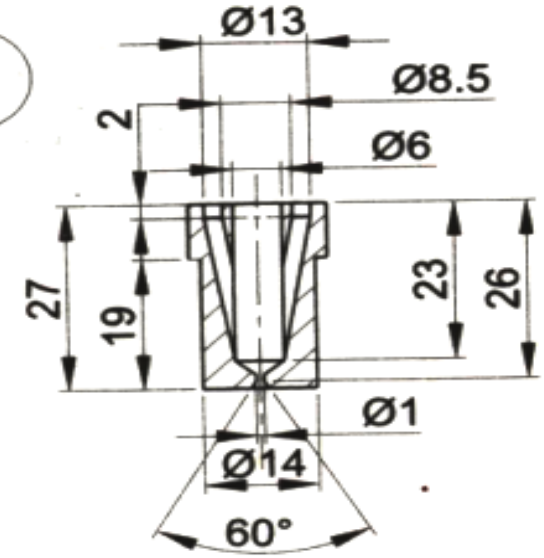
HALF SECTIONAL FRONT VIEW
SECTION AA



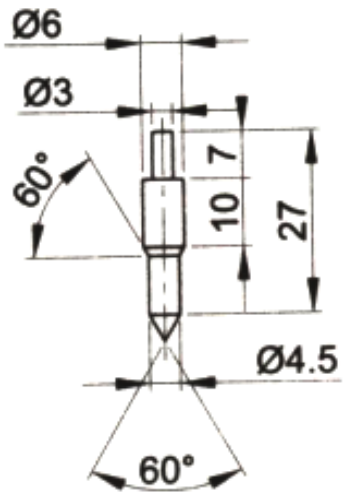
TOP VIEW

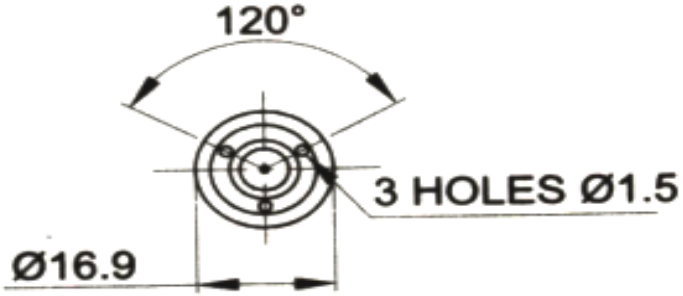

1
Ø27
M22
Ø17
58
26.5
20
14
15
15
12
M20
Ø24
M 10 DEEP 6
Ø 4 DEEP 4
6
15
Ø 17
Ø1.5
9
5
31
SØ8
Ø12
Ø3.5
8
32
FREE LENGTH
Ø15
Ø8
Ø3
3
4.5
2.5
39
Ø3.5
Ø5.7
5
R5
41.5
14
10
65
49
M14
Ø12
Ø6
10
25

2

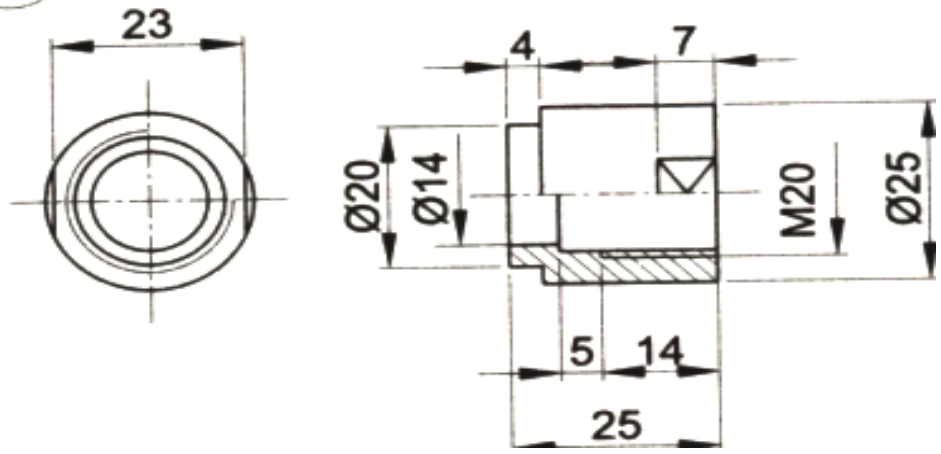


4





3



ALL DIMENSIONS IN mm

ITEM NO	DESCRIPTION	MATERIAL	NO OFF
10	CAP	Fe 410 W	1
9	LOCK NUT	Fe 410 W	1
8	SLEEVE	Fe 410 W	1
7	SCREW ADJUSTING PIECE	BRASS	1
6	SPRING	SPRING STEEL	1
5	DISTANCE PIECE	Fe 410 W	1
4	NOZZLE PIN	BRASS	1
3	NOZZLE HOLDER	Fe 410 W	1
2	NOZZLE	BRASS	1
1	BODY	CAST IRON	1

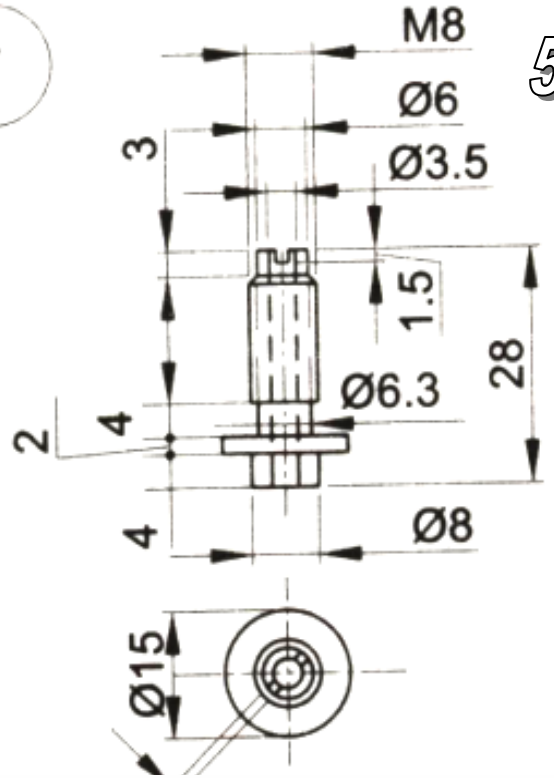
Parts details of fuel injector

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

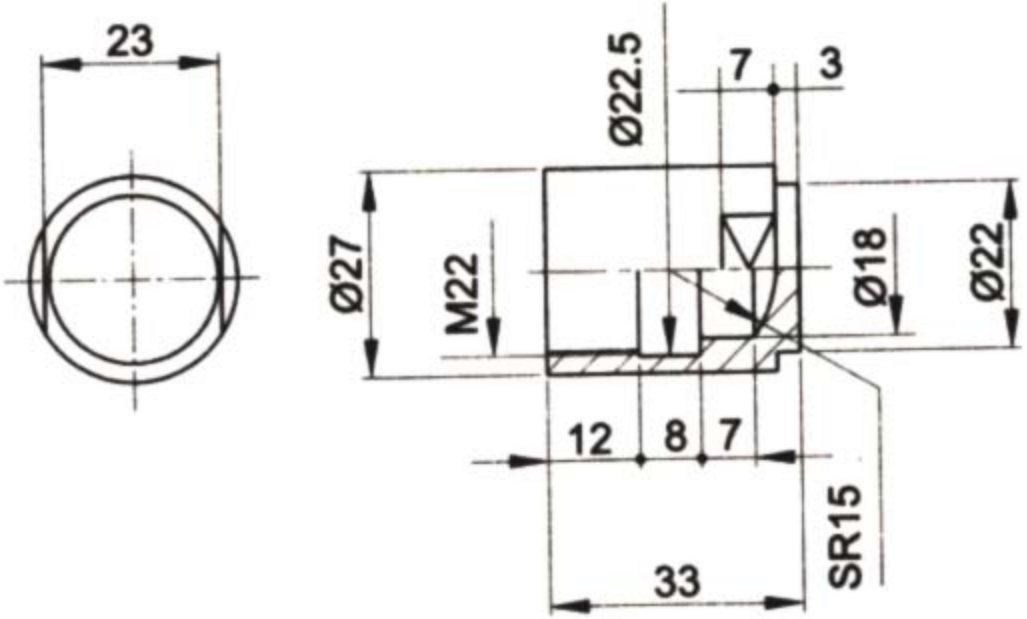
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

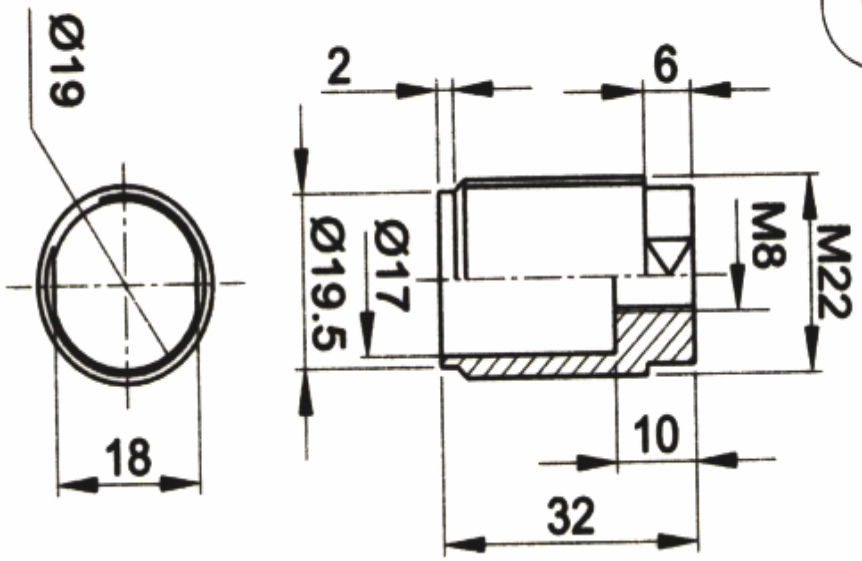
7



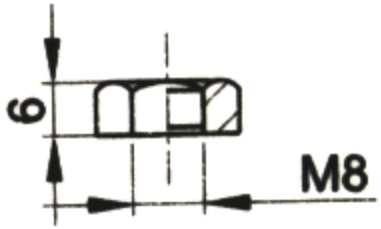
10



8



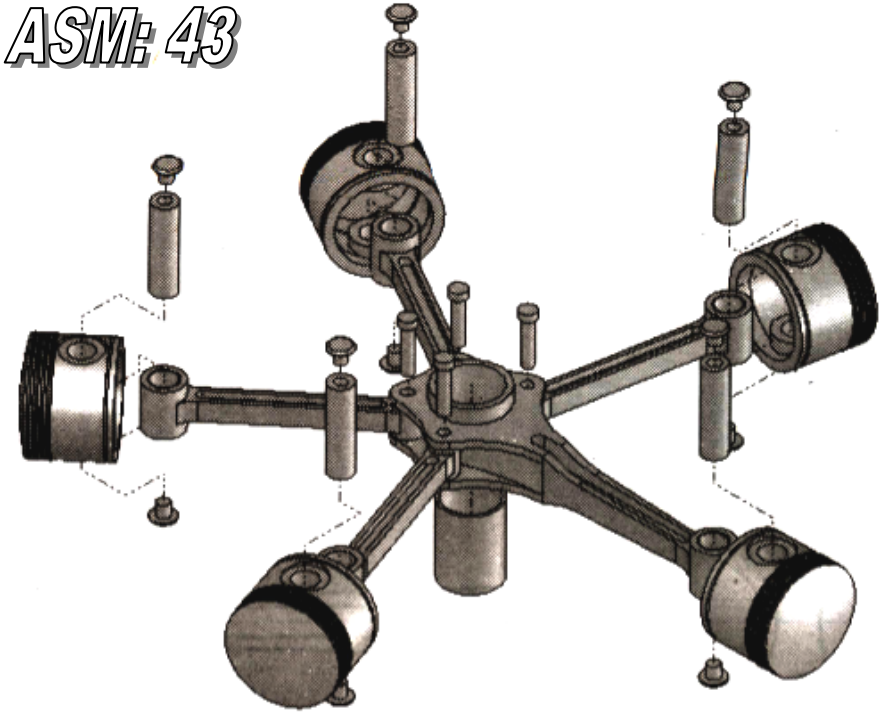
9



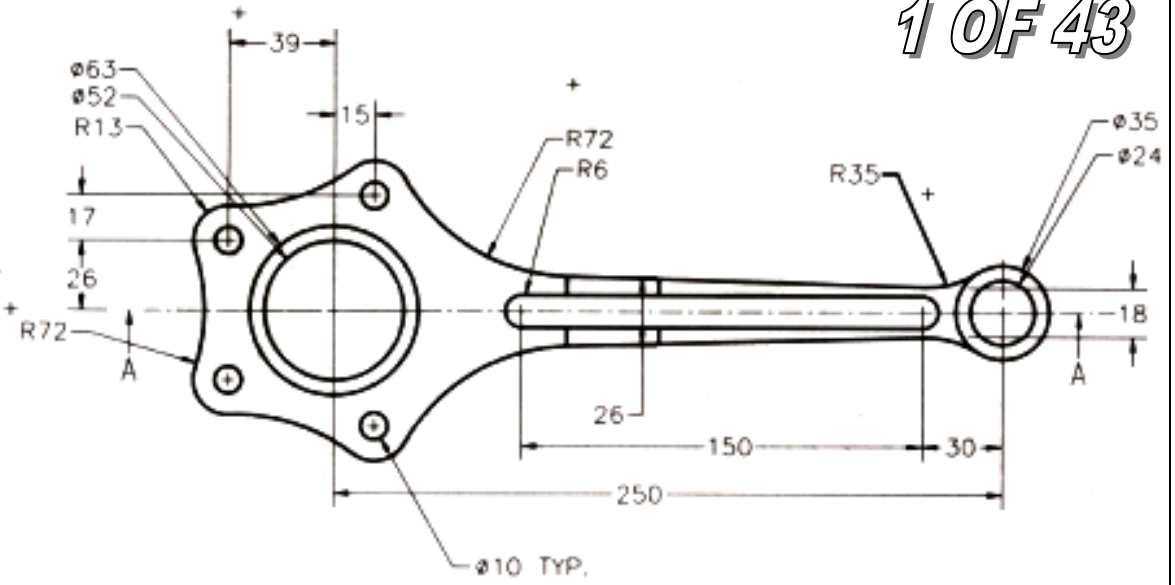
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

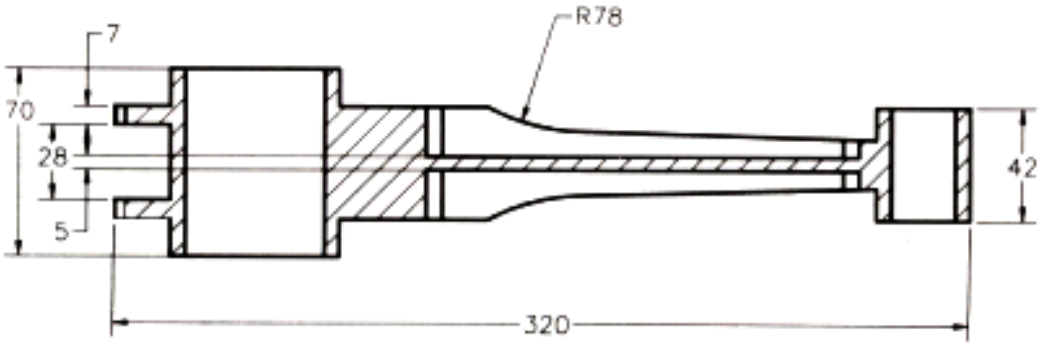
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



Exploded view of the Radial Engine assembly





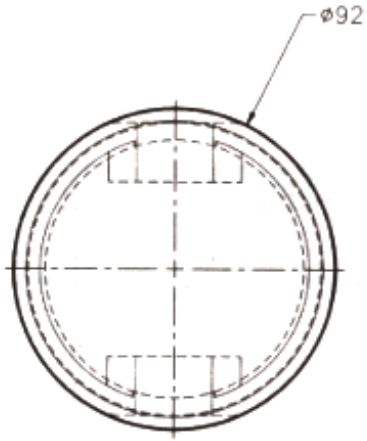
Section A–A

Views and dimensions of the Master Rod

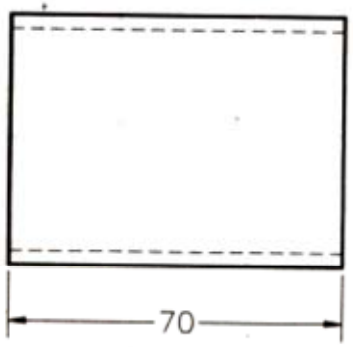
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

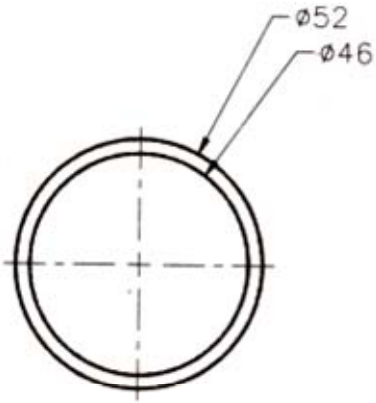
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

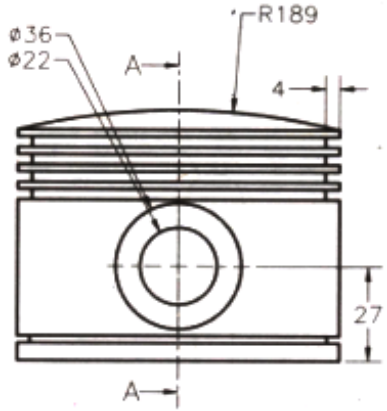


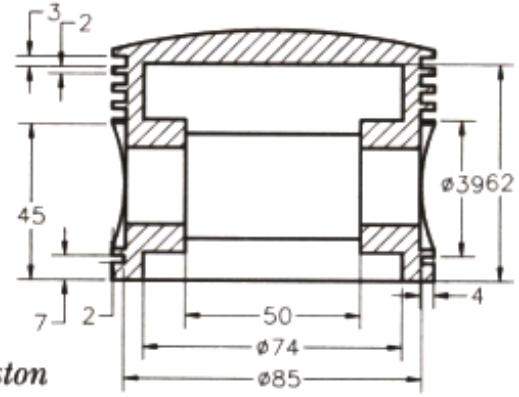






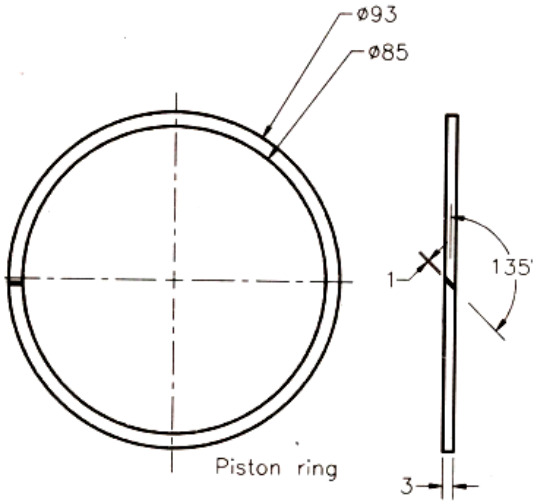
Master rod bearing



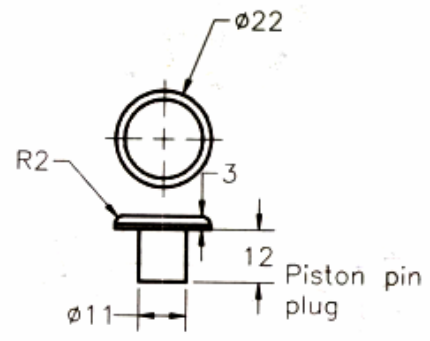


Section A–A

Views and dimensions of the Piston



Piston ring

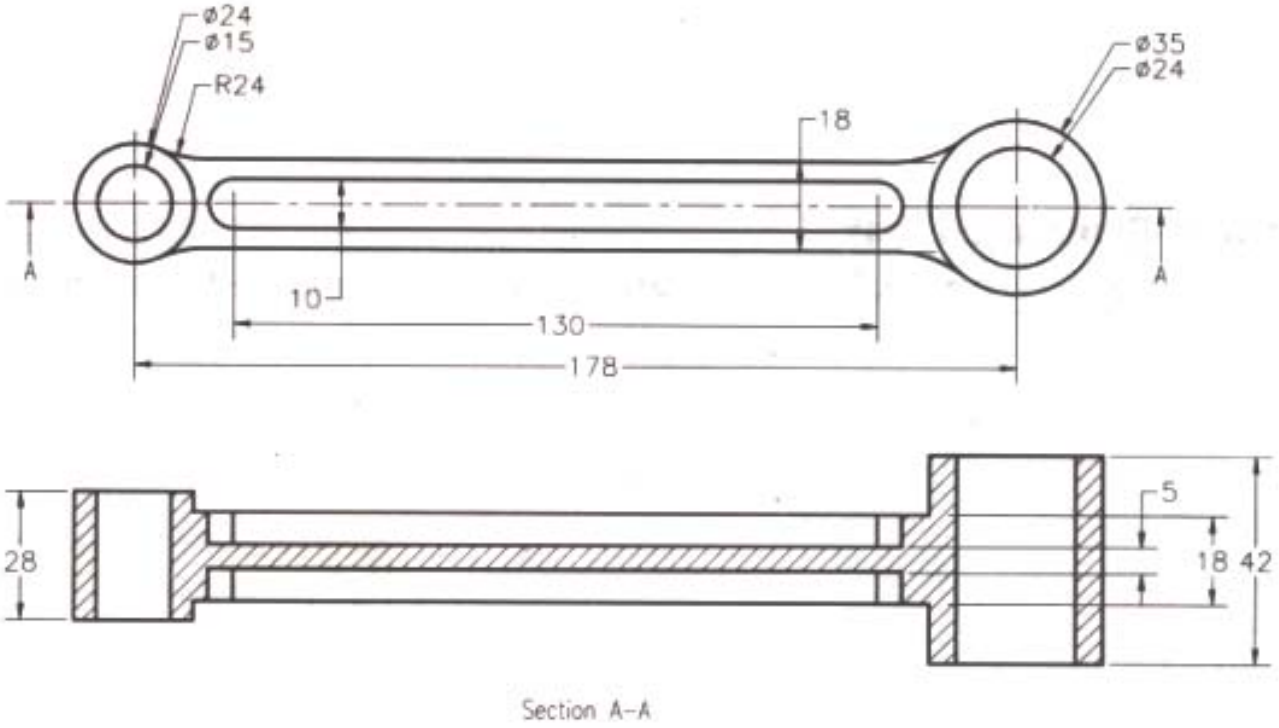


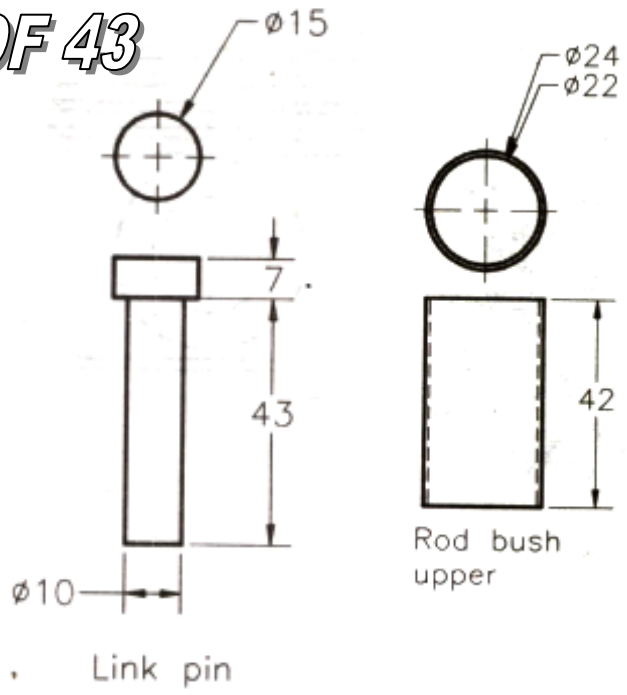
Piston pin plug

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

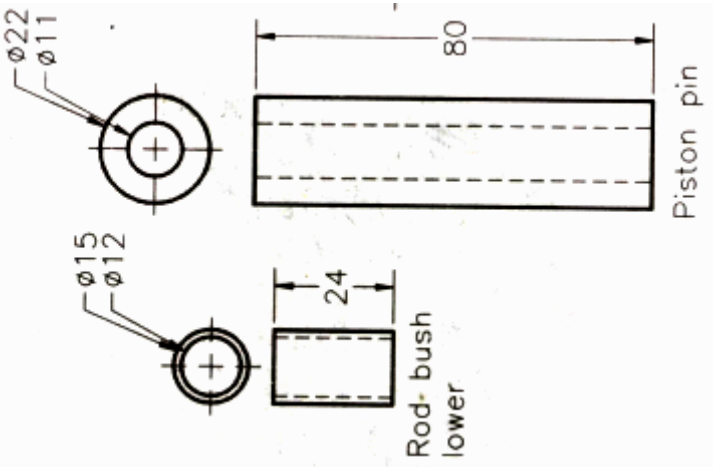
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.





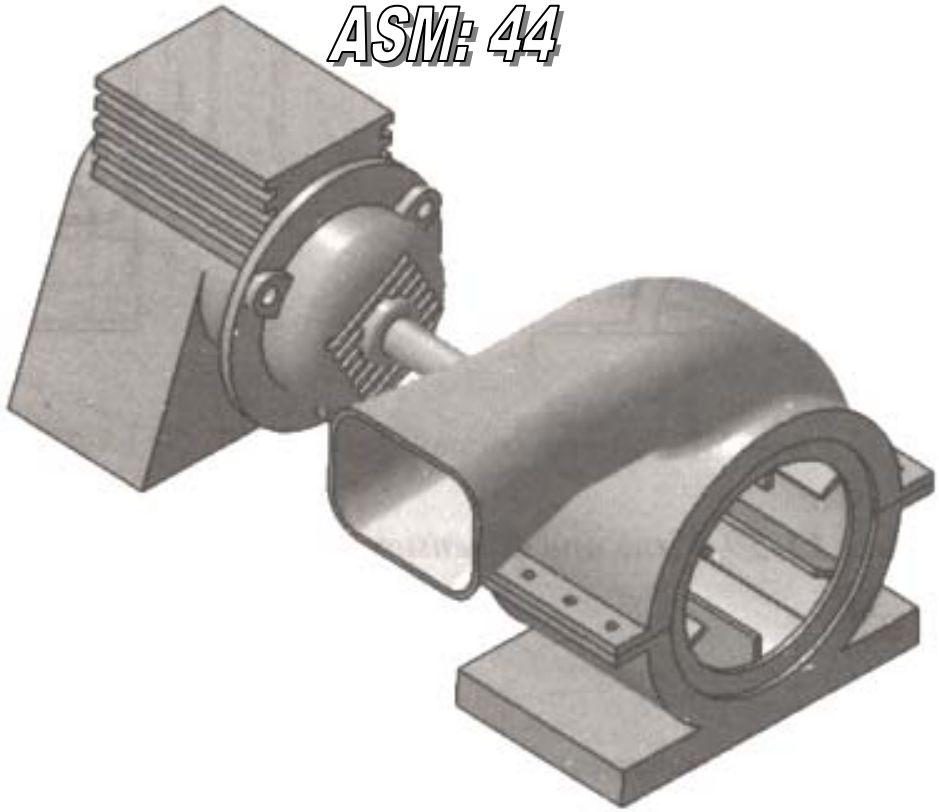
Views and dimensions of the Articulated Rod



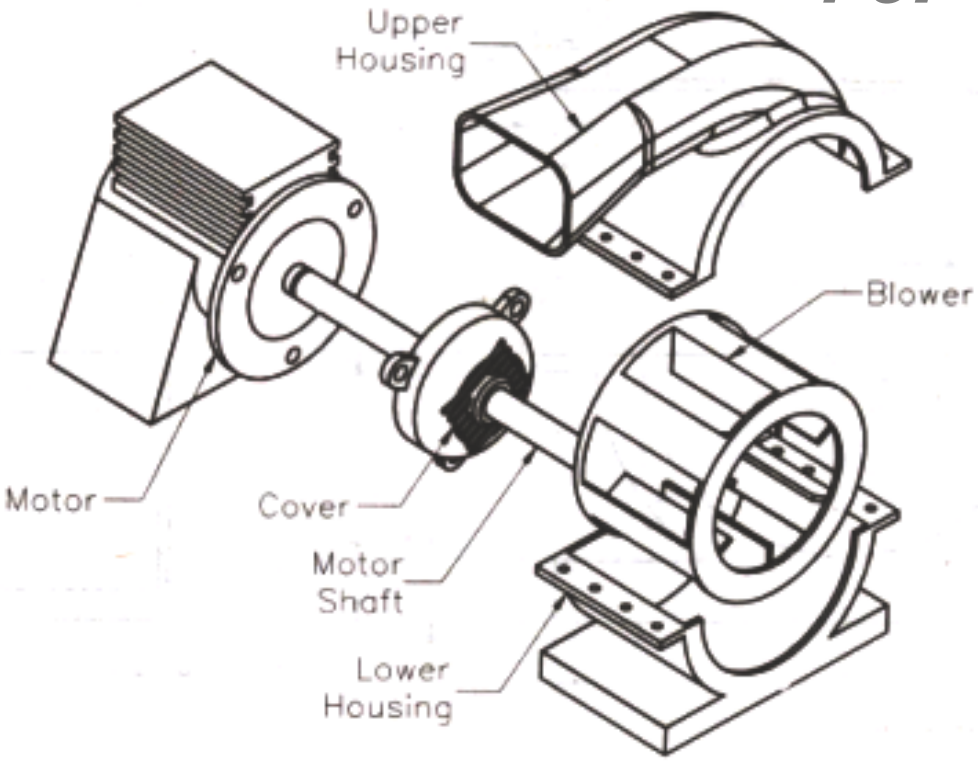
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



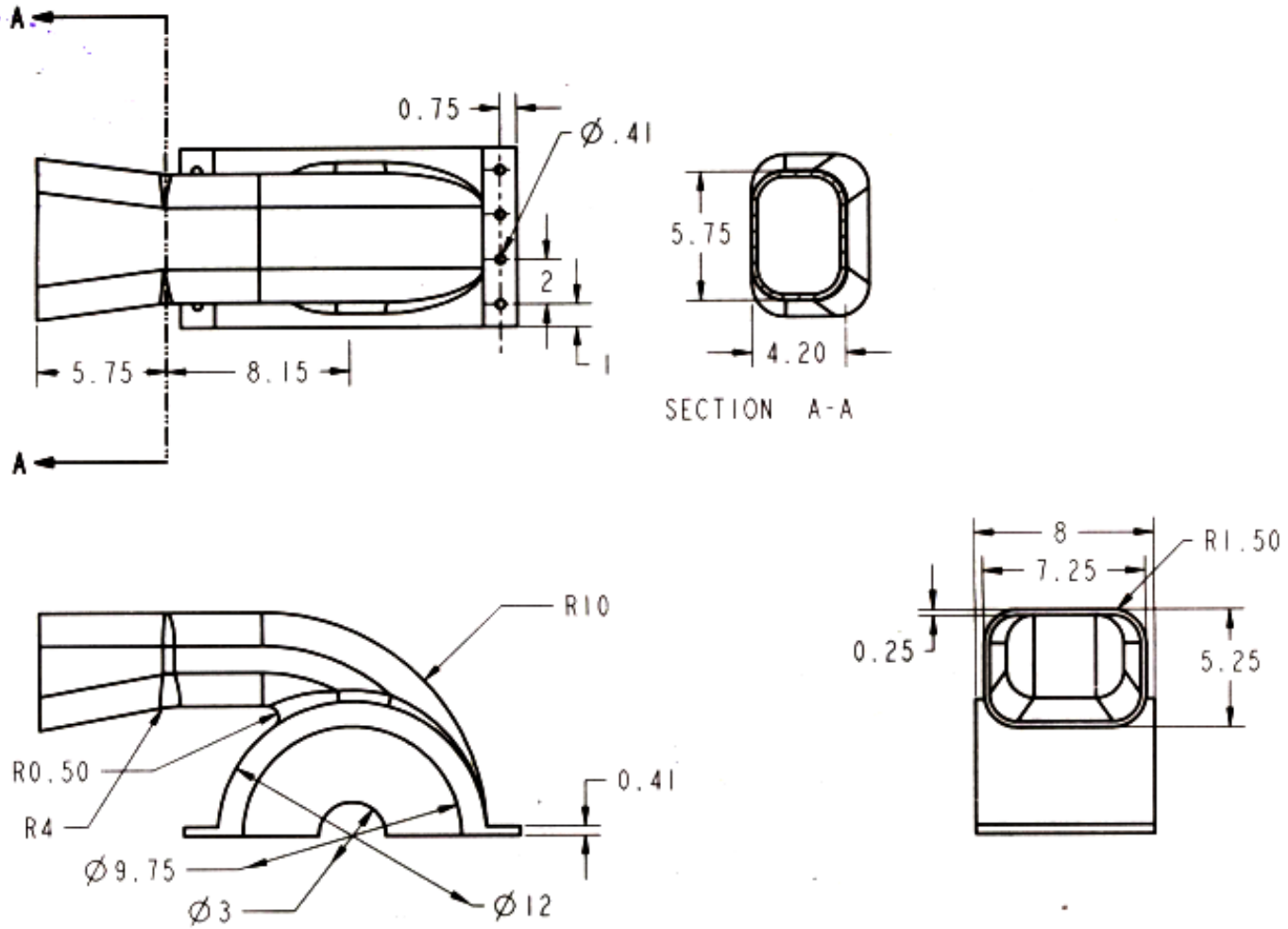
The Blower assembly



Exploded view of the Blower assembly

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD INDO GERMAN TOOL ROOM AURANGABAD	DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

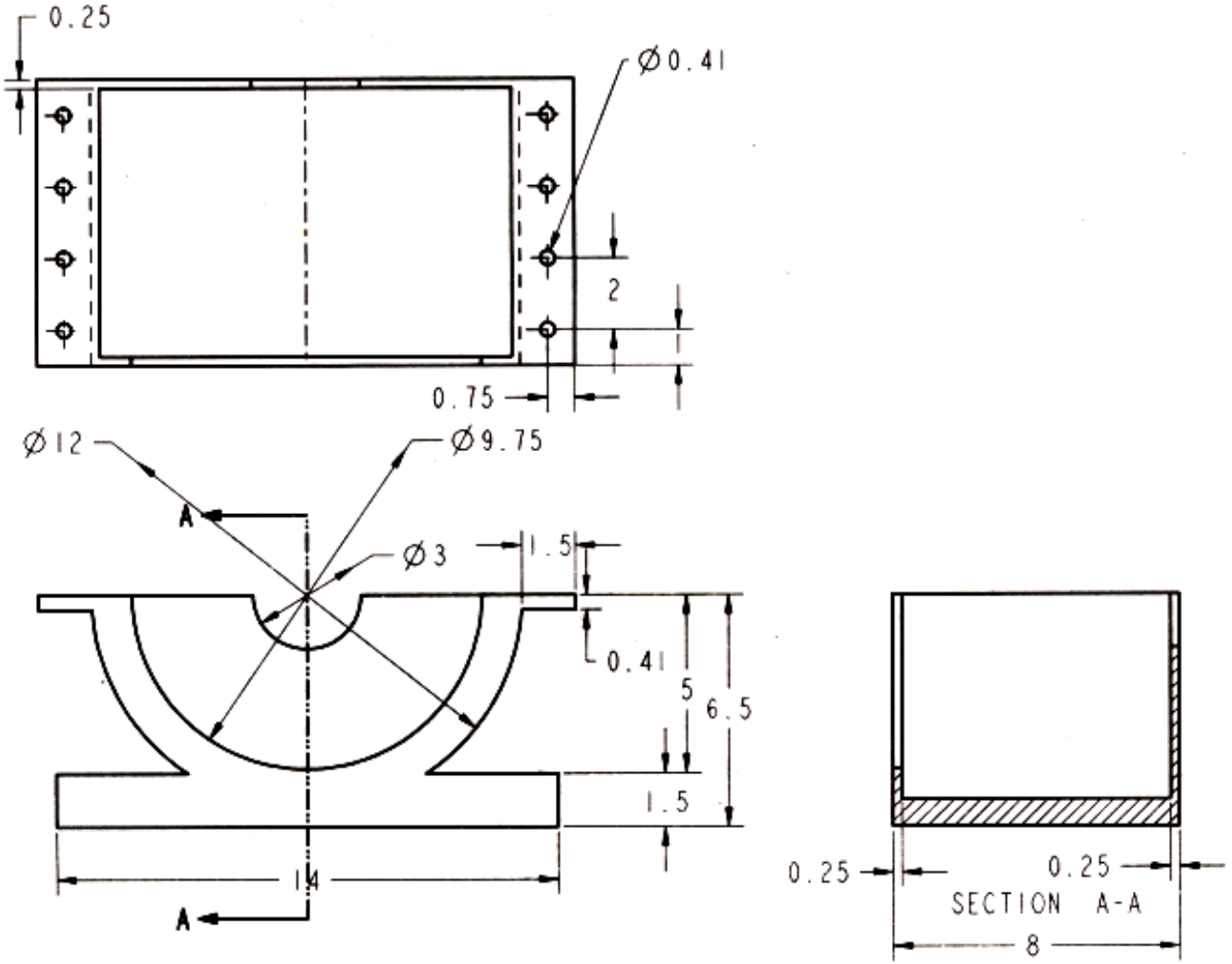


Views and dimensions of the Upper Housing

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

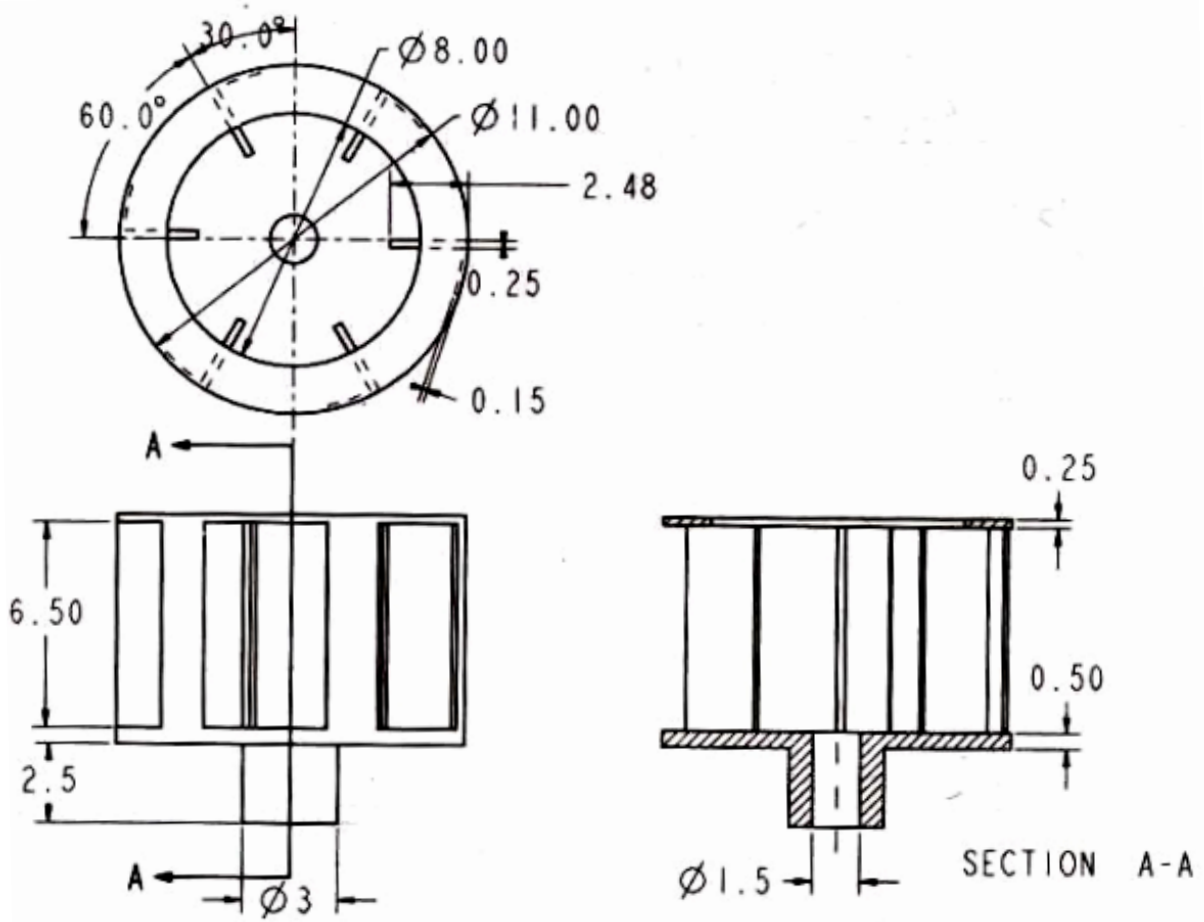


Views and dimensions of the Lower Housing

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO

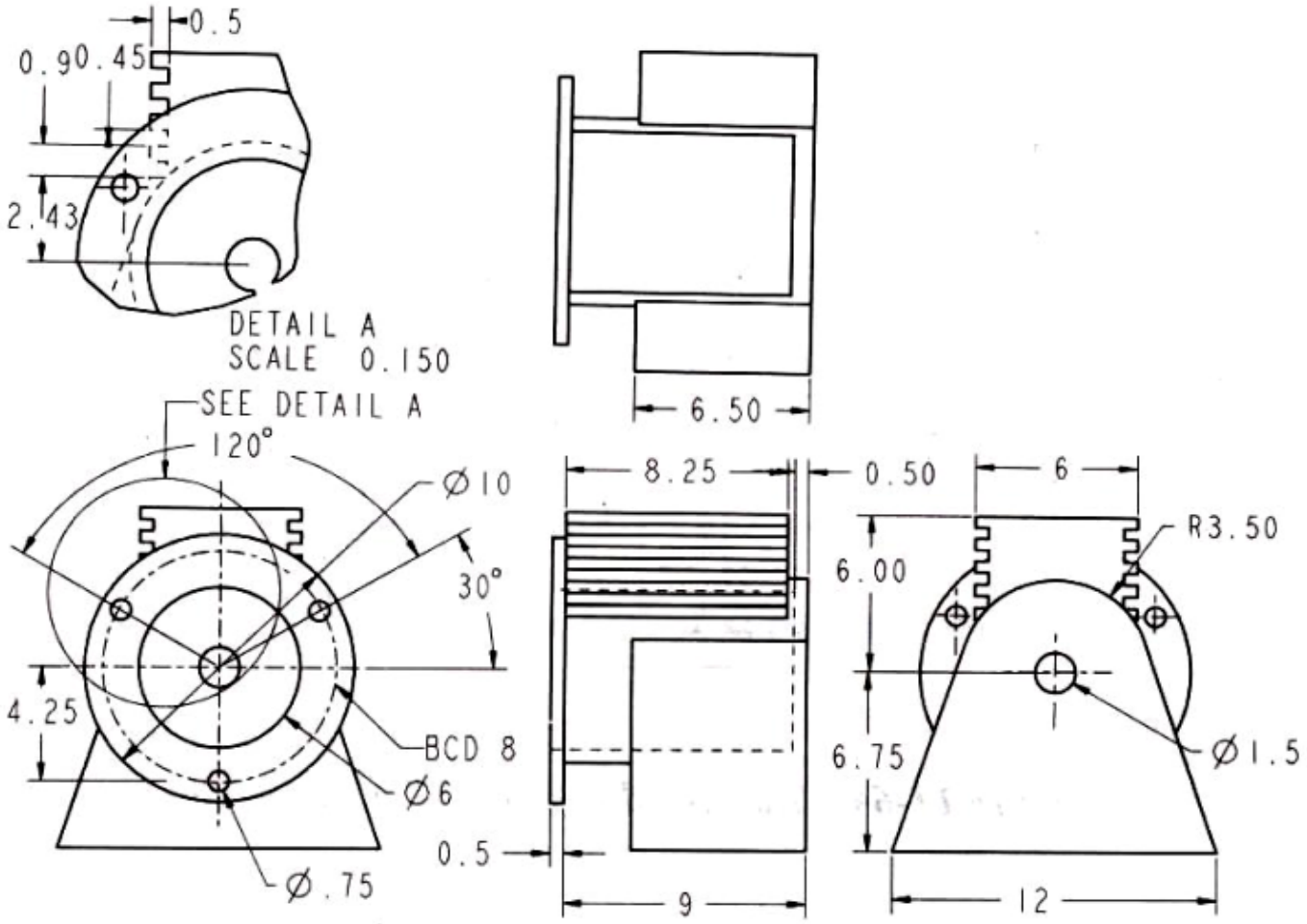


Views and dimensions of the Blower

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

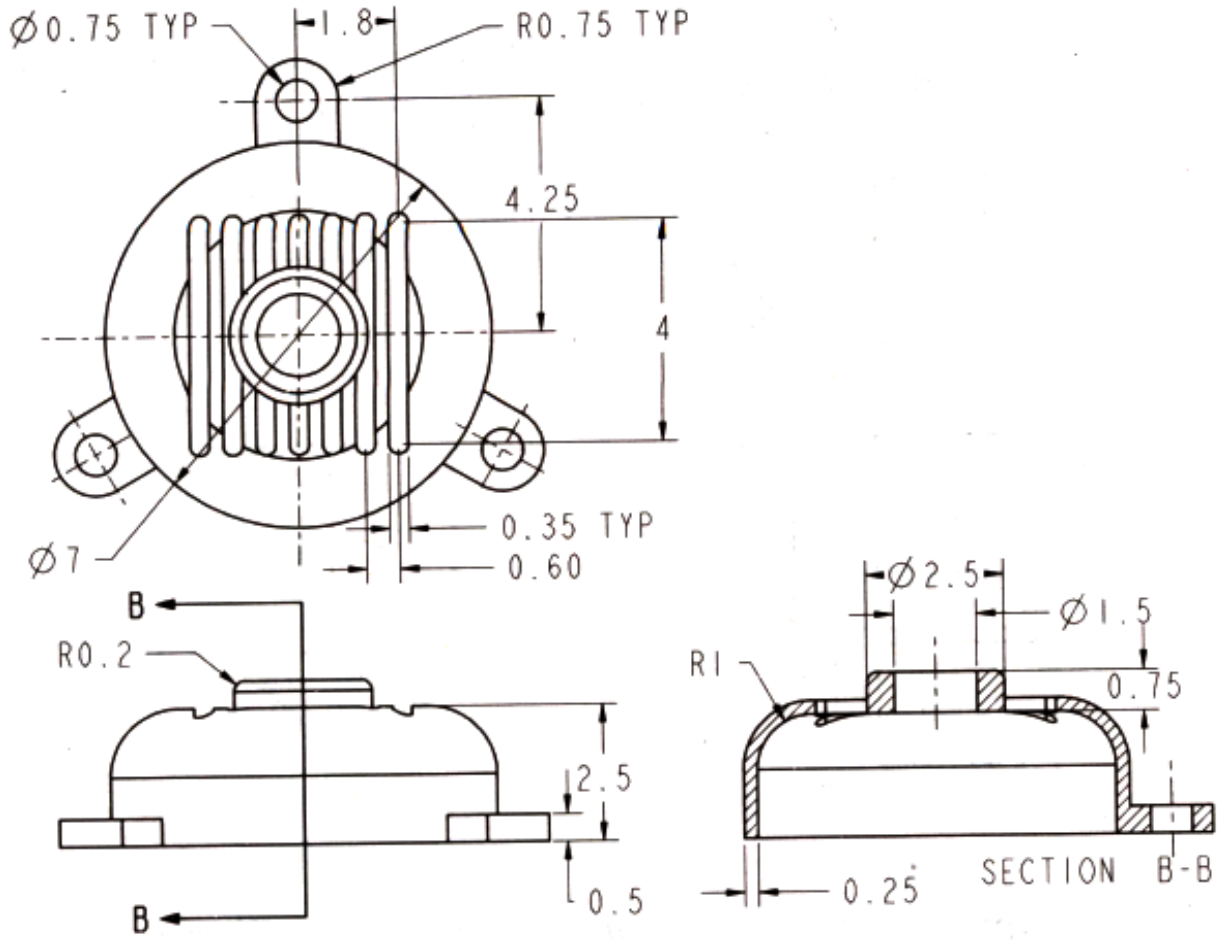


Views and dimensions of the Motor

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

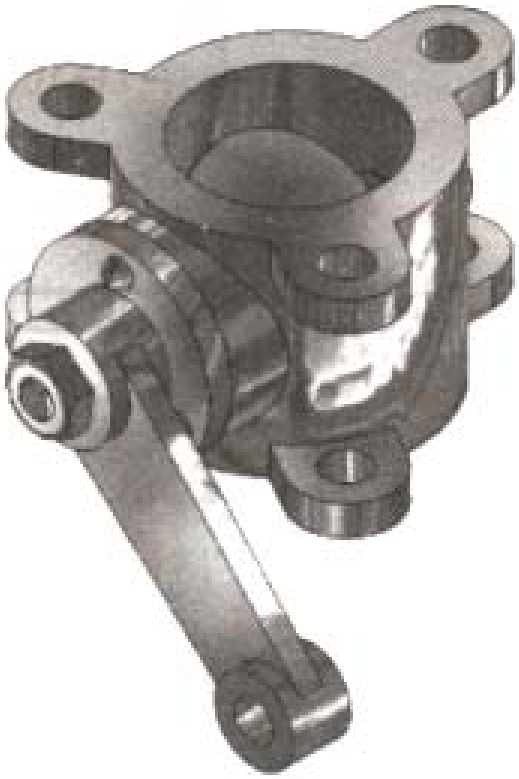


Views and dimensions of the Cover

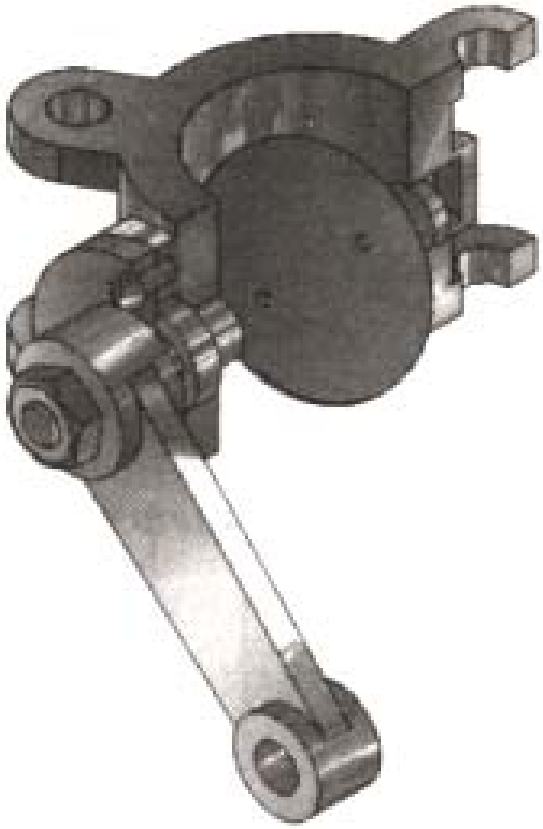
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



Butterfly Valve assembly

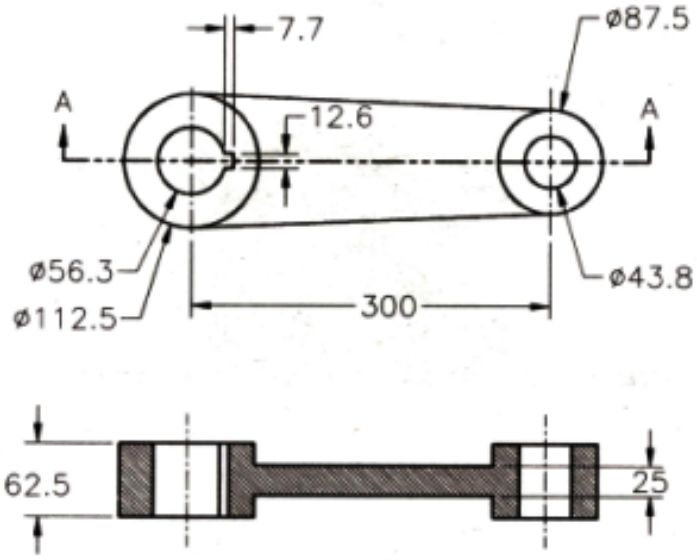


Inside view of the Butterfly Valve

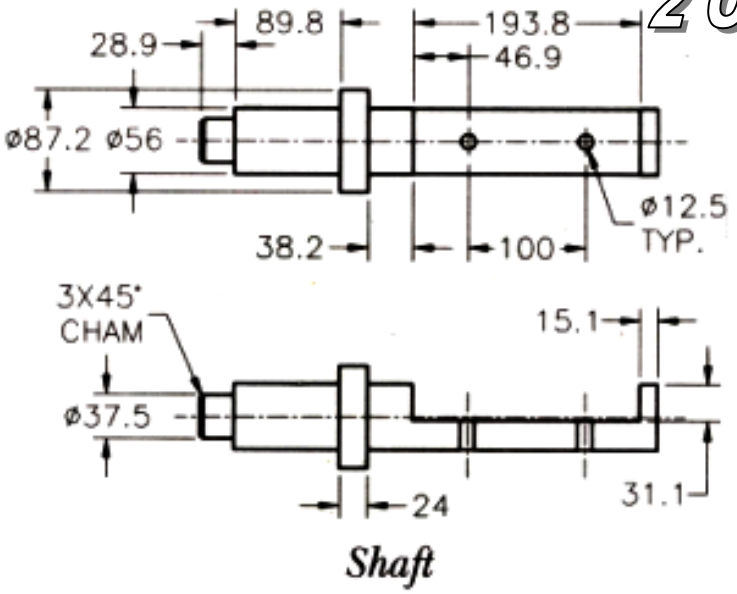
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

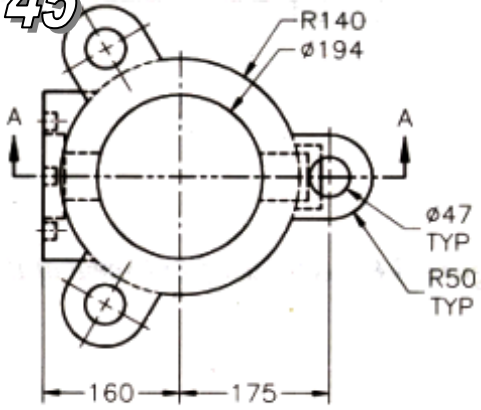
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



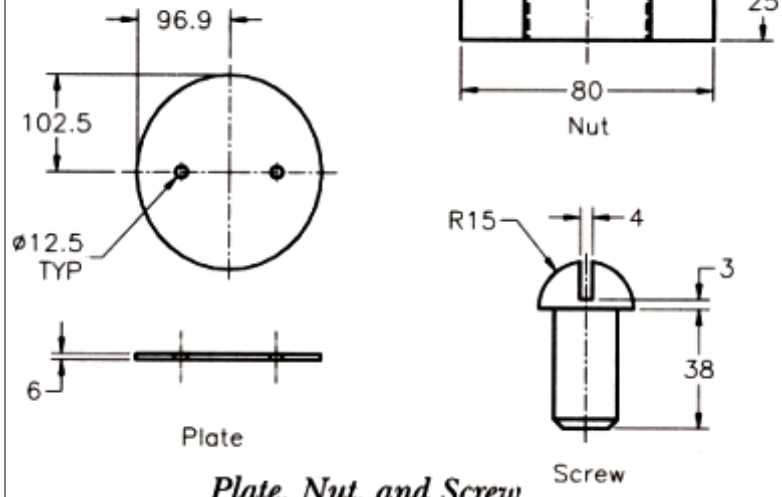
Arm



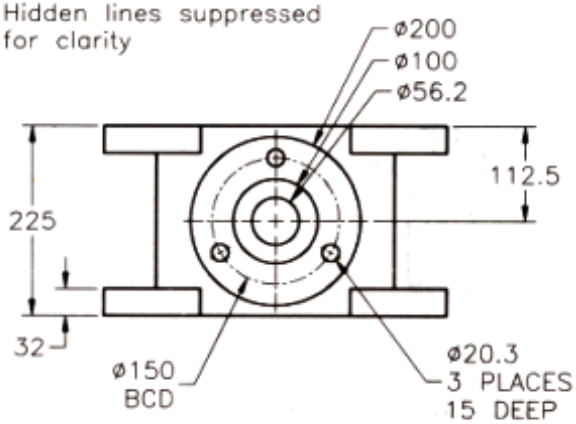
Shaft



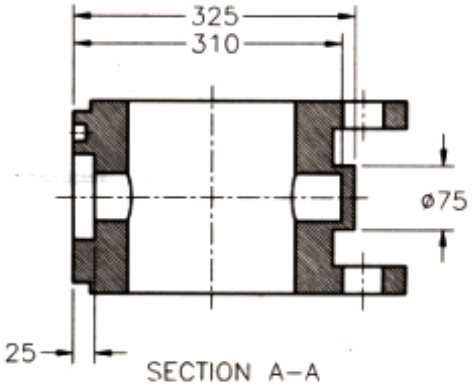
Top view of the Body



Plate, Nut, and Screw



Left-side view of the Body



Sectioned front view of the Body

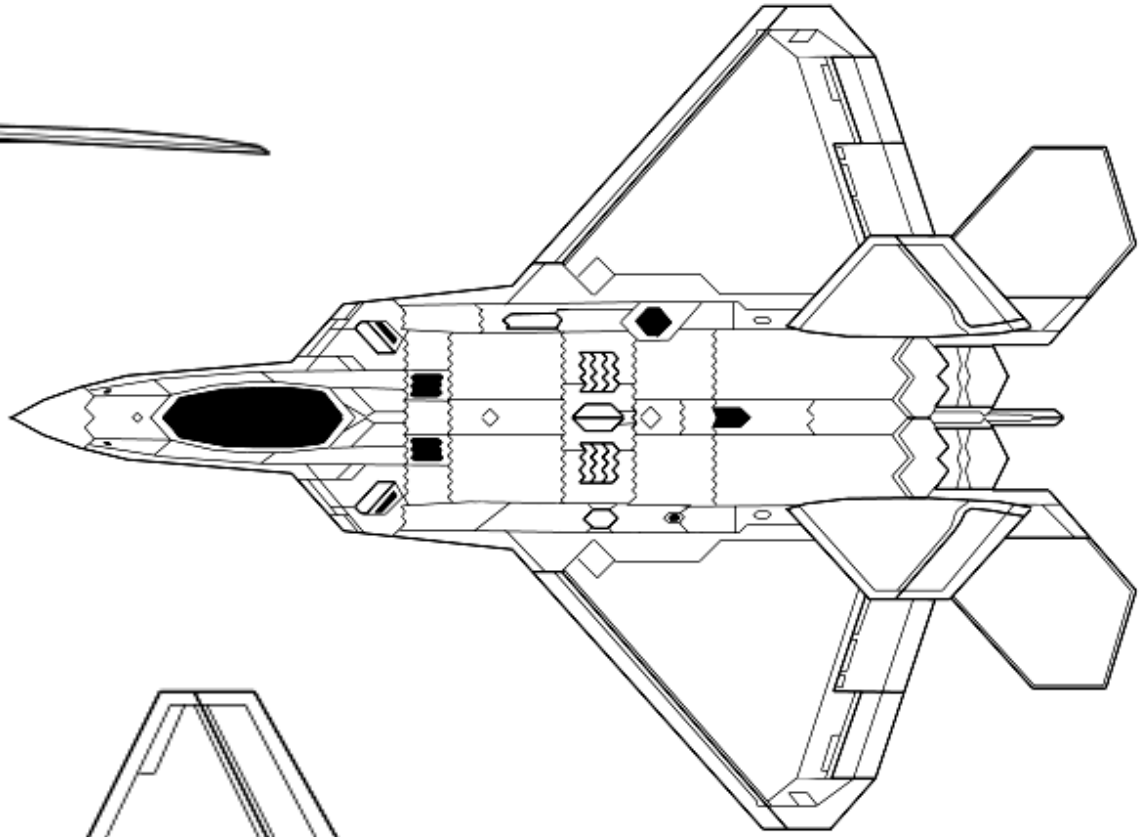
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: ASSEMBLY	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

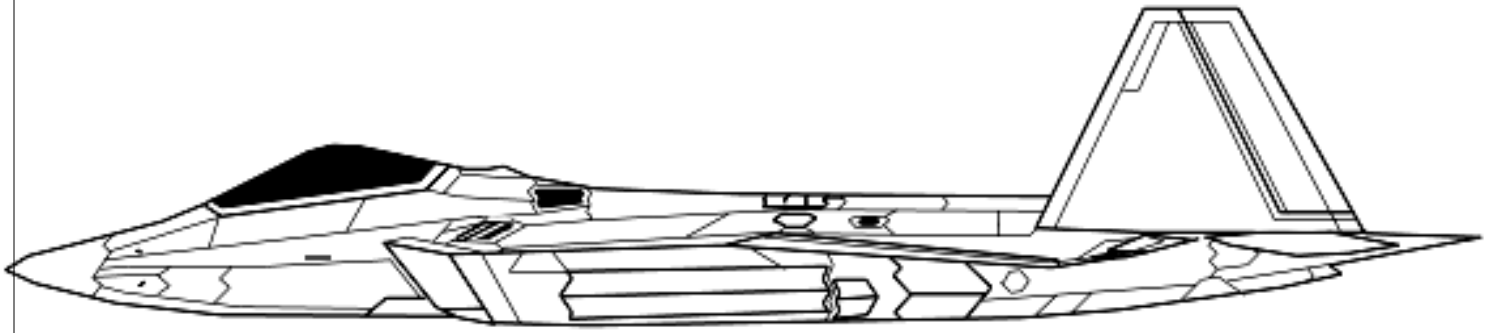
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

PRODUCT DESIGN







FIGHTER PLANE

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PRODUCT DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.





CHAIR

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PRODUCT DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

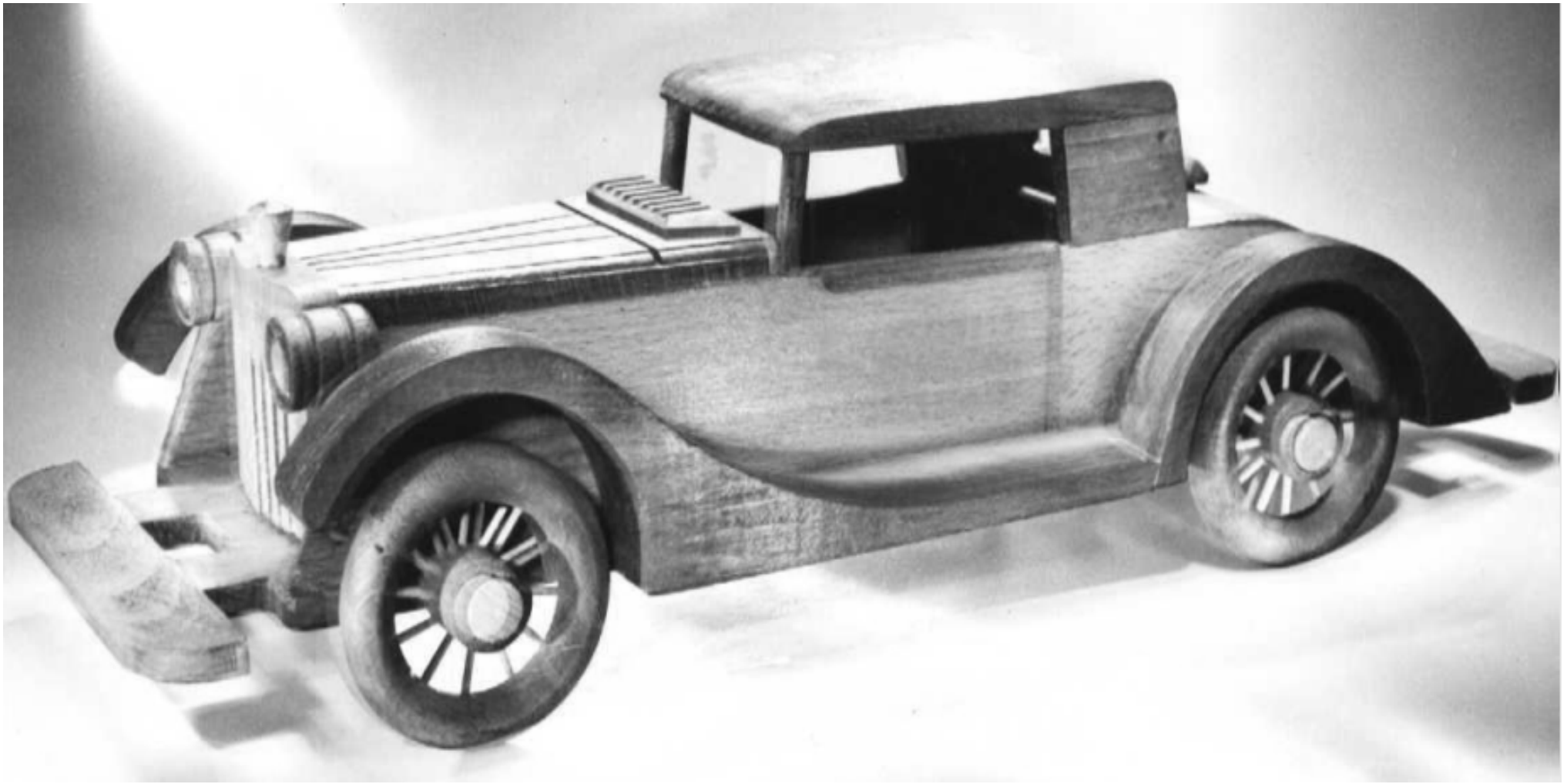
CAR CHASIS



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PRODUCT DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

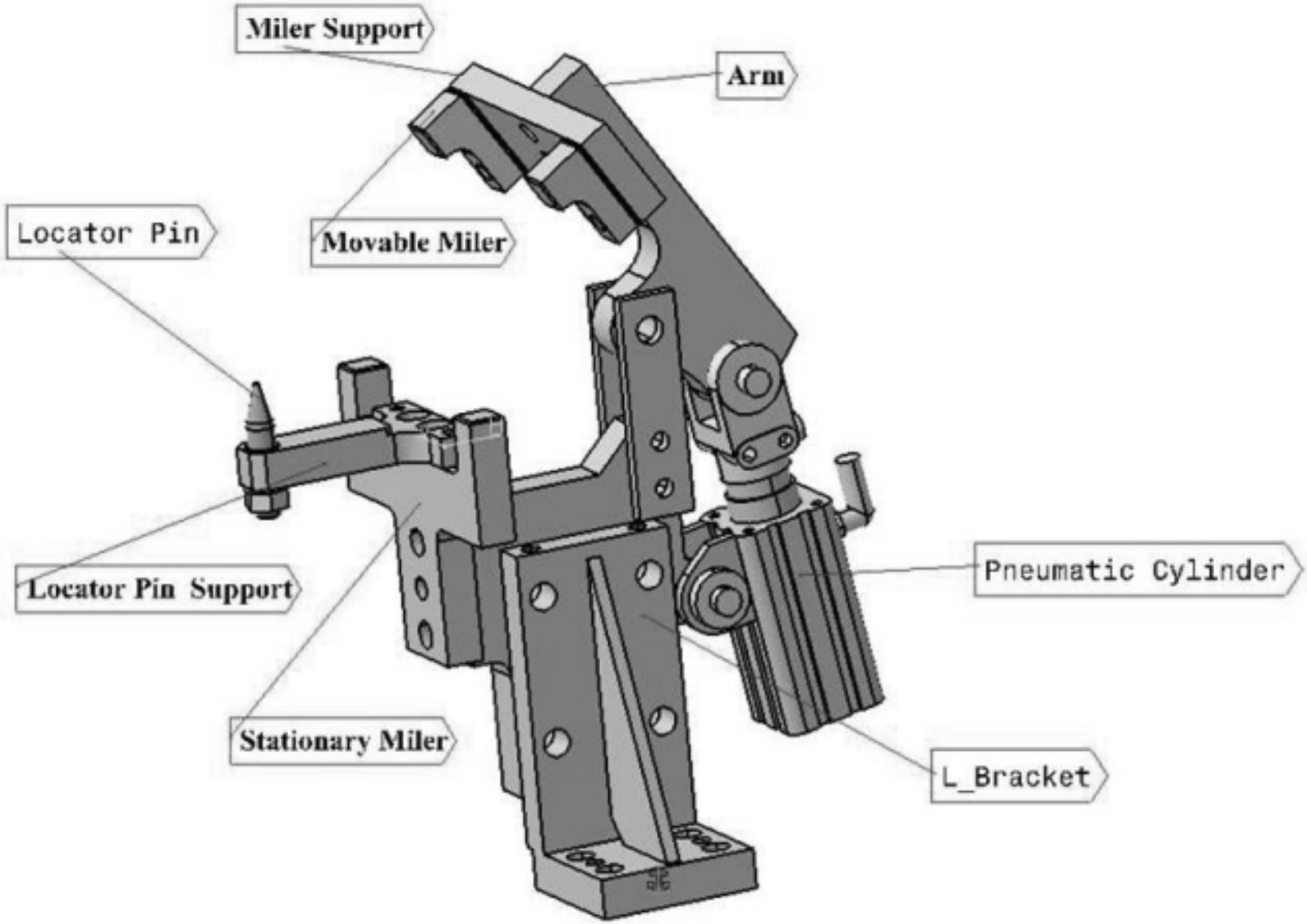


HERITAGE CAR

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PRODUCT DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PRODUCT DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

FIXTURE



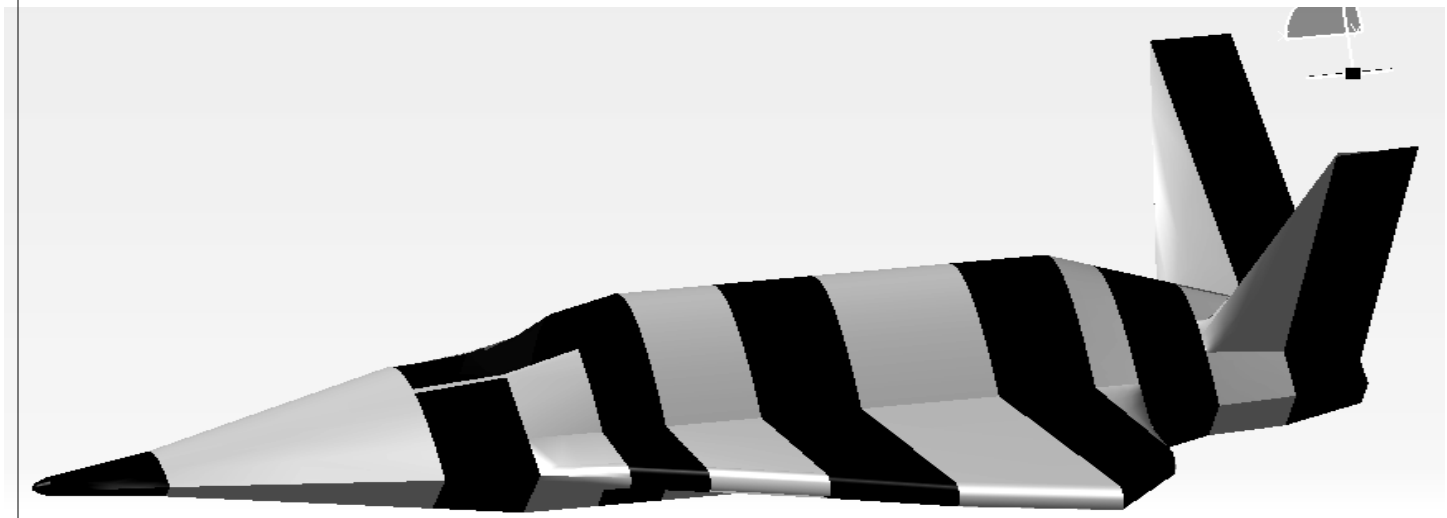
CAR

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: SURFACING	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

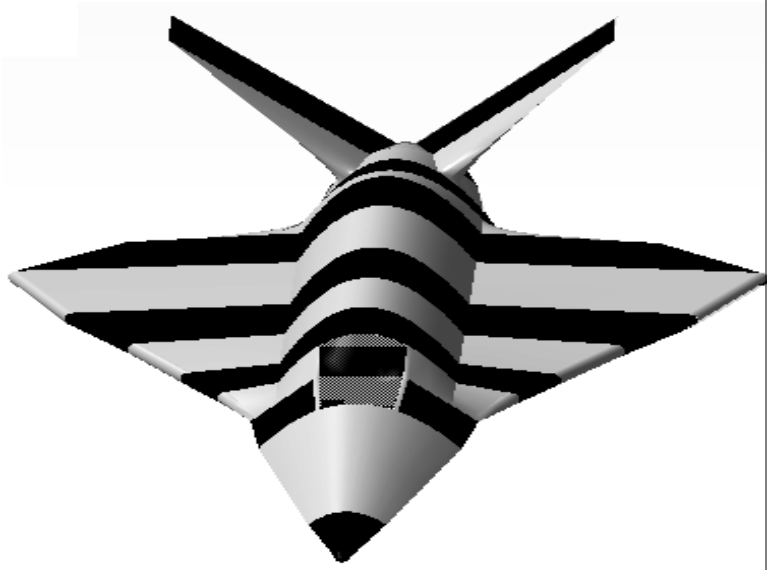
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

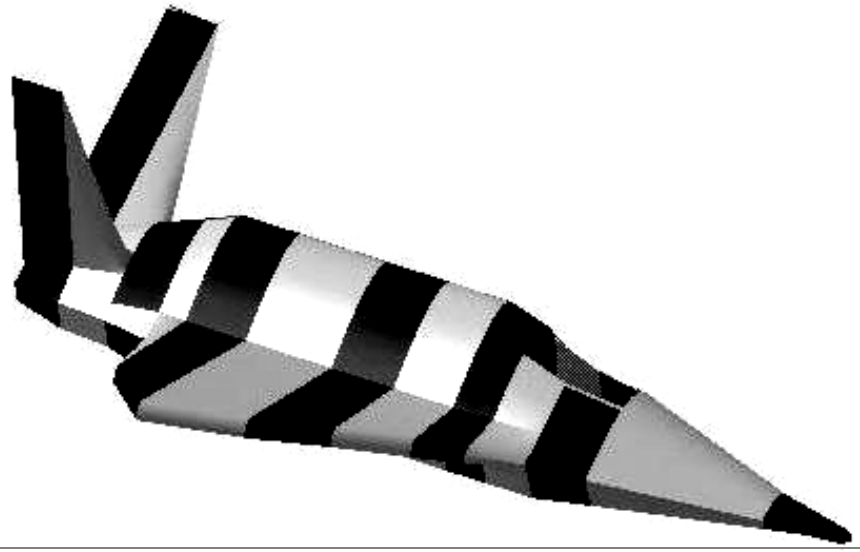
DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

PRODUCT DESIGN



FIGHTER PLANE





ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PRODUCT DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

HELICOPTER



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PRODUCT DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

EXERCISE MACHINE

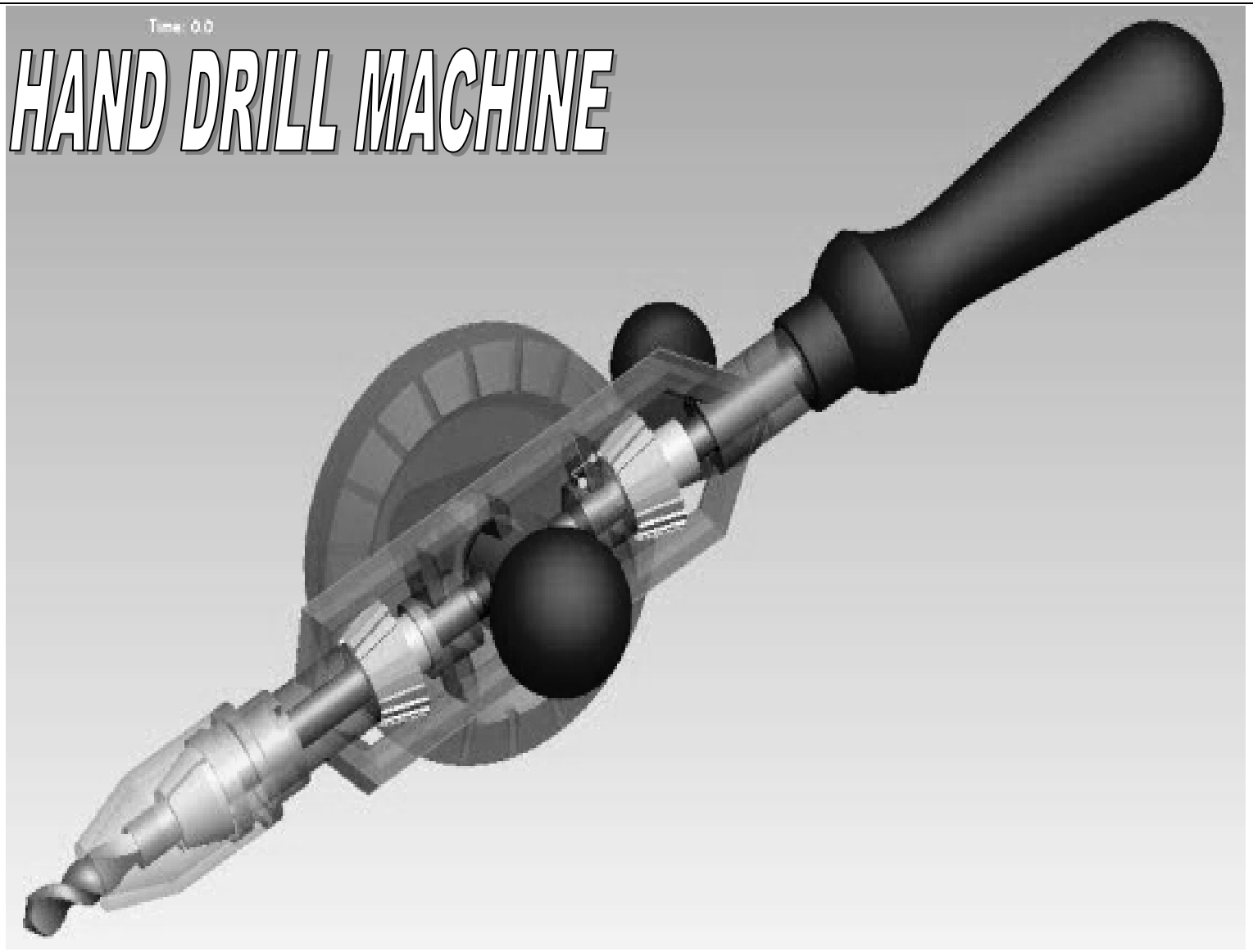


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PRODUCT DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

HAND DRILL MACHINE



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PRODUCT DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

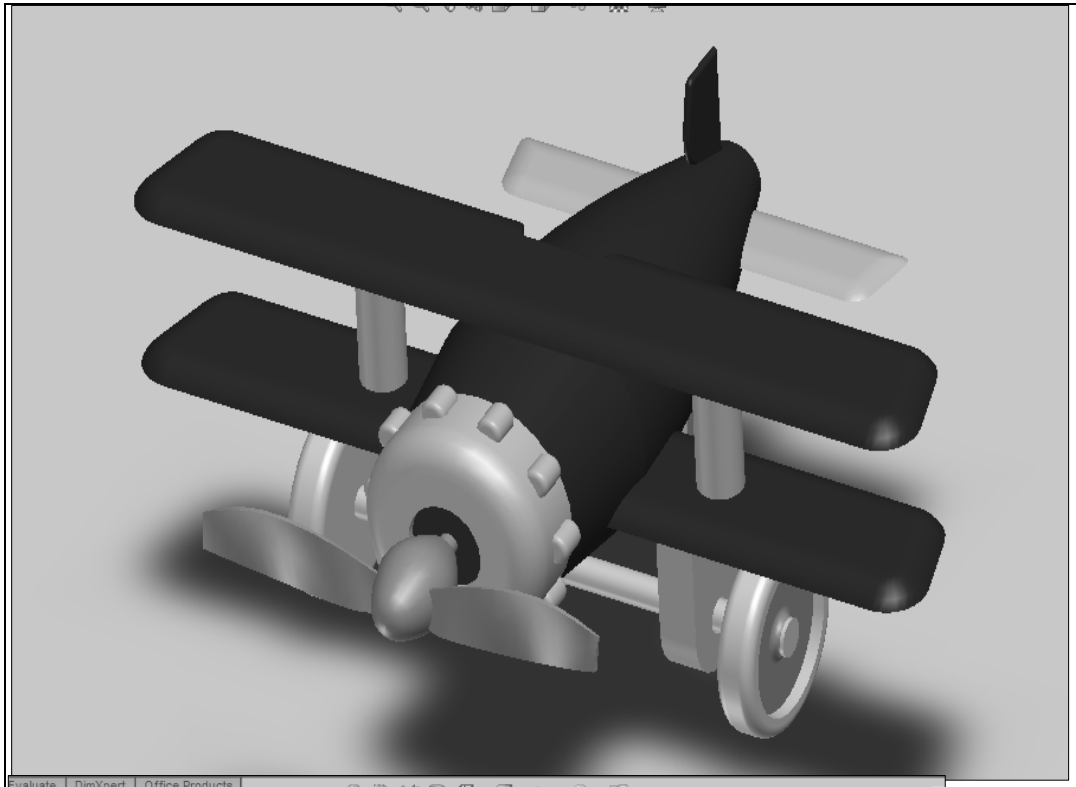


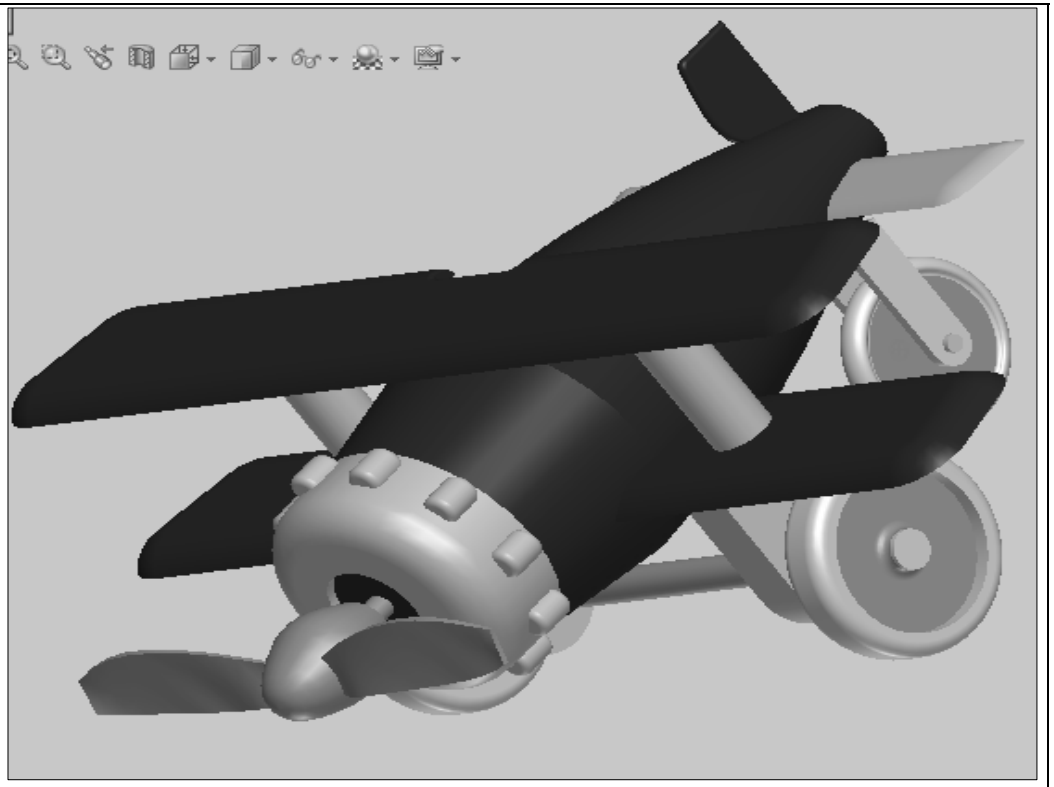
BIKE

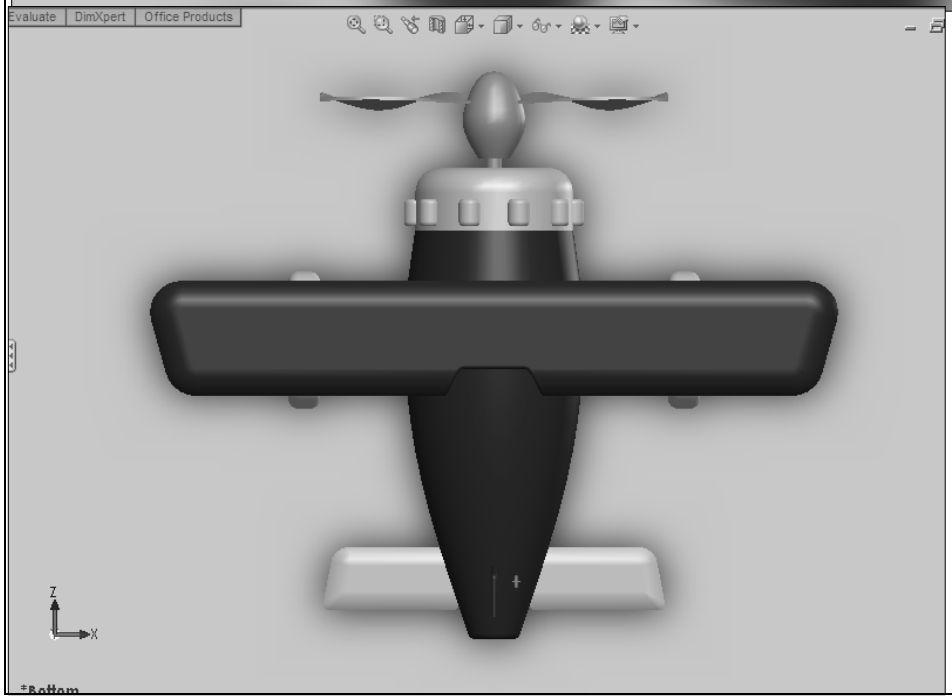
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PRODUCT DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.







TOY AEROPLANE

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PRODUCT DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PRODUCT DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.



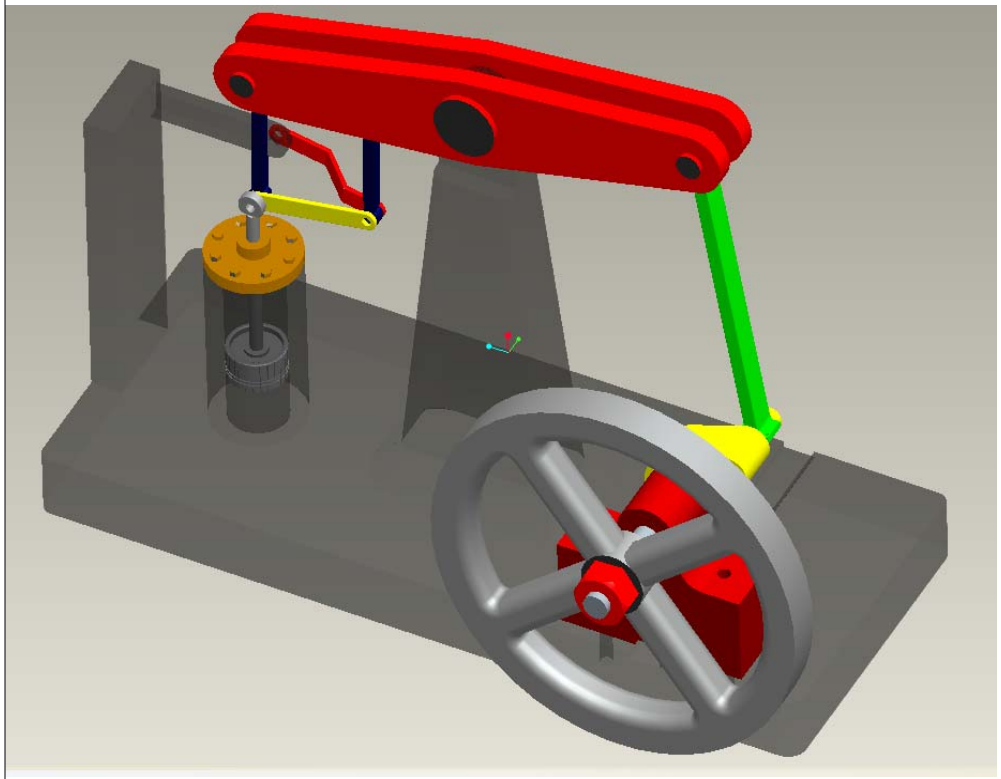
ROBOT

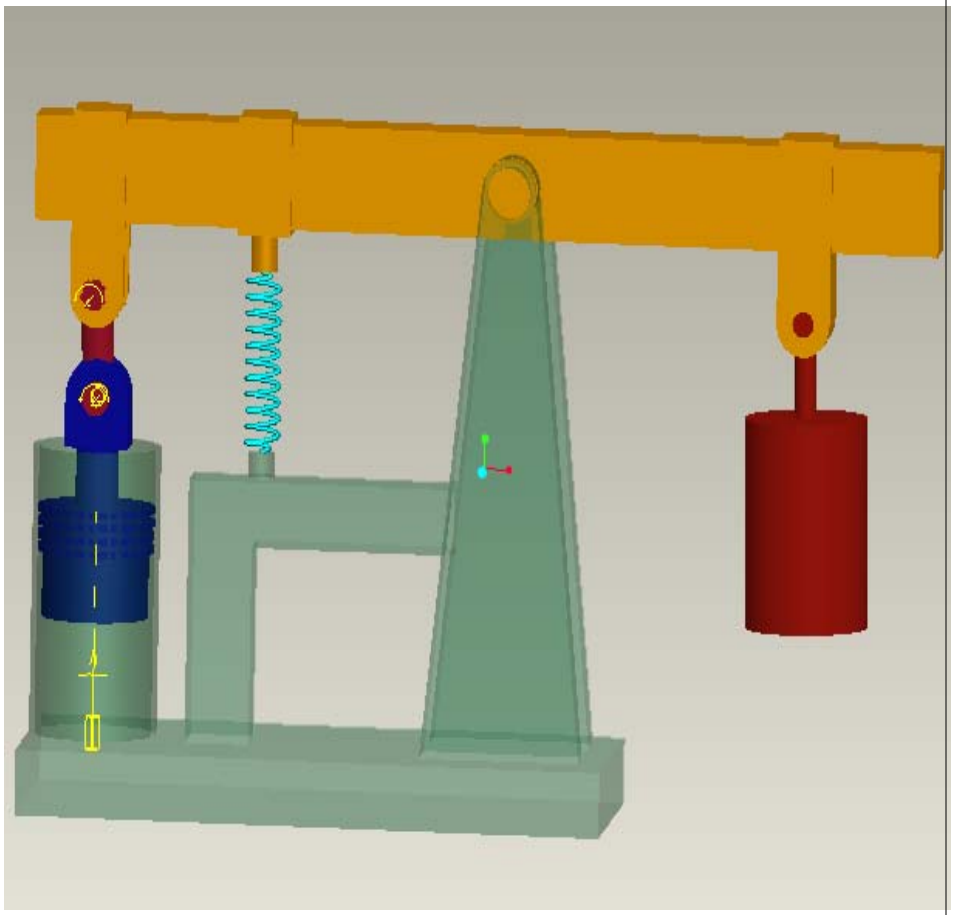


ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PRODUCT DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.





GRAVITY PUMP

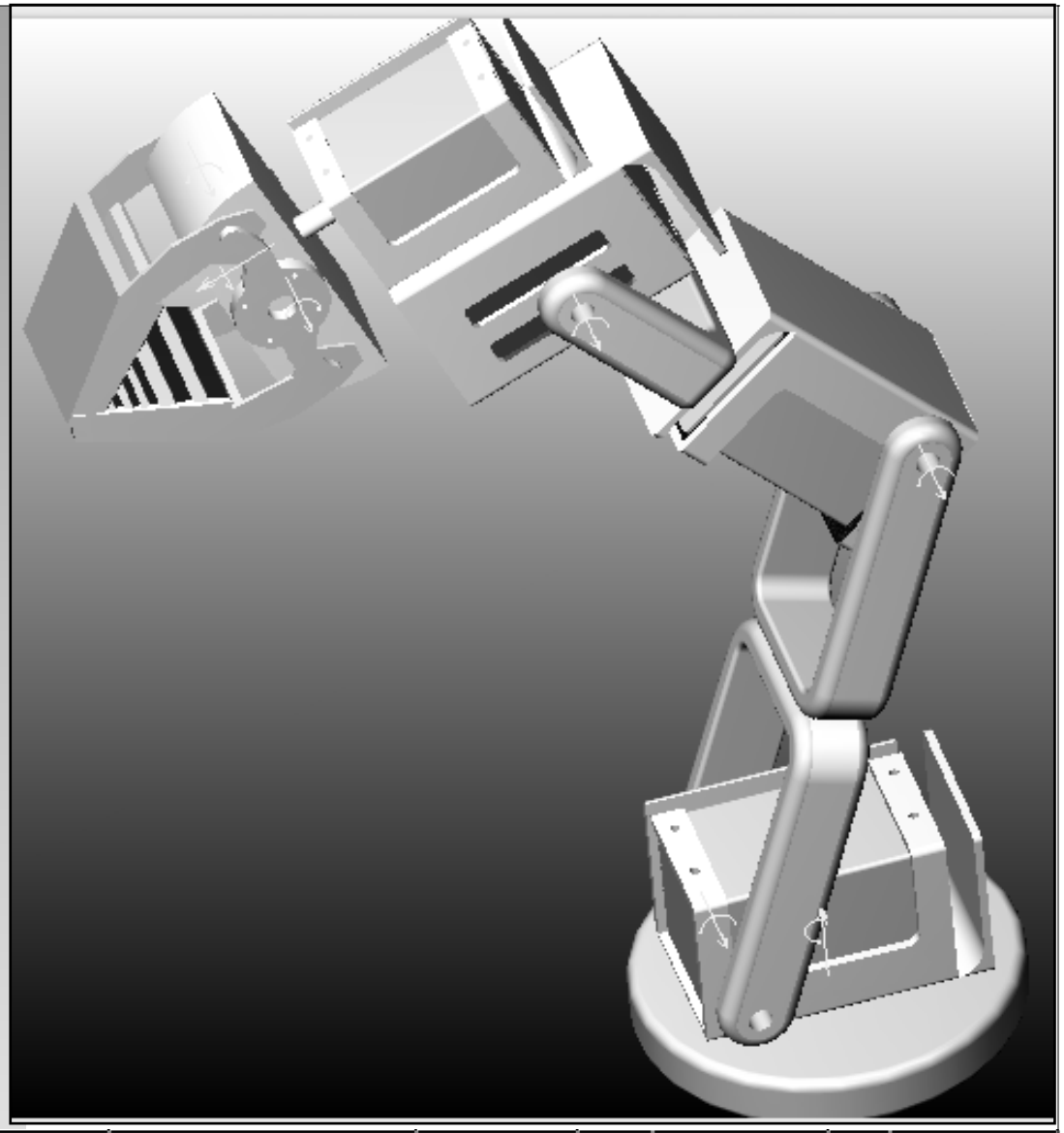
BEAM ENGINE

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PRODUCT DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.





ROBOTIC ARM

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PRODUCT DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.





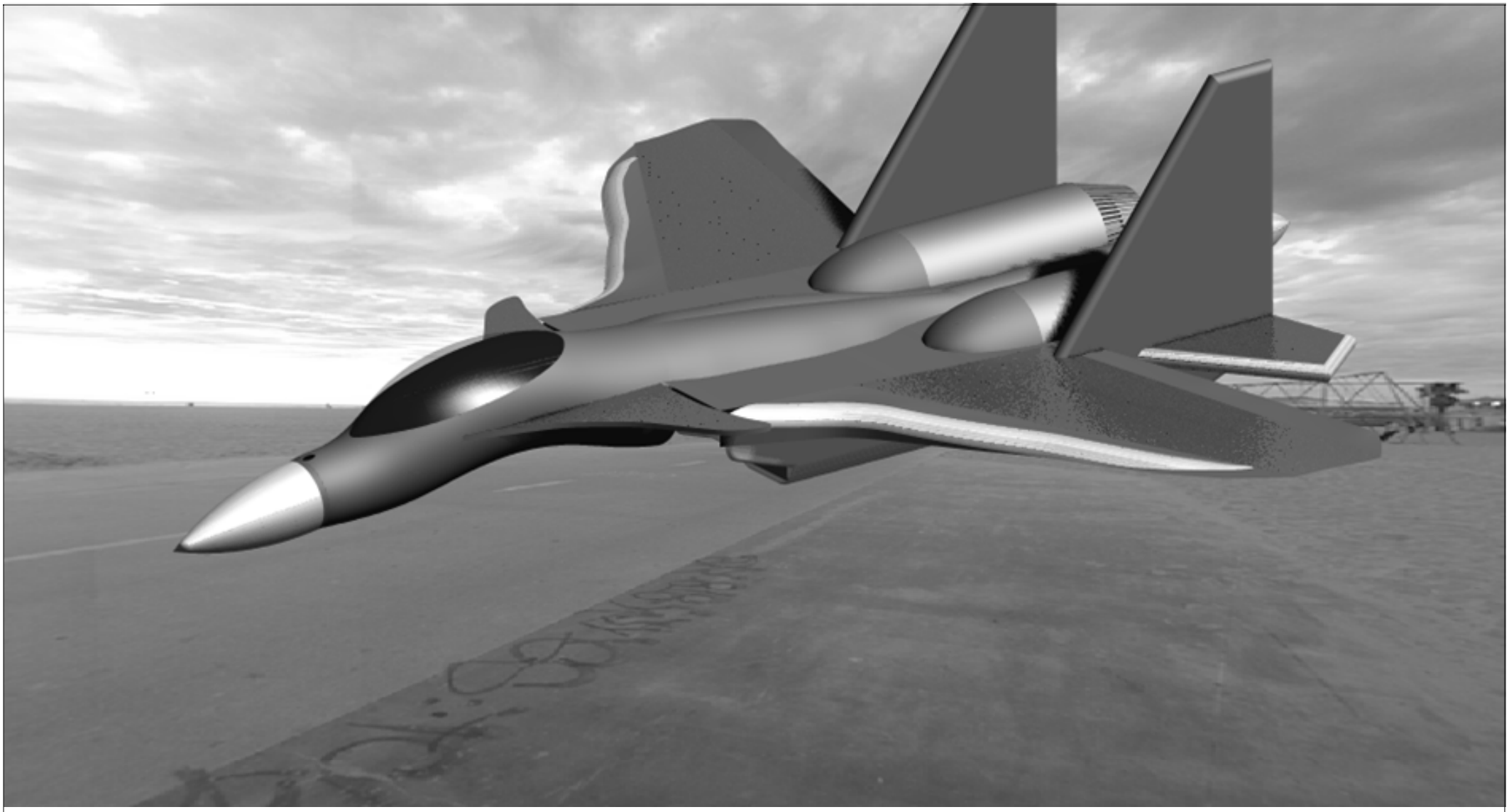
CAMERA

TOY MOBILE

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PRODUCT DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

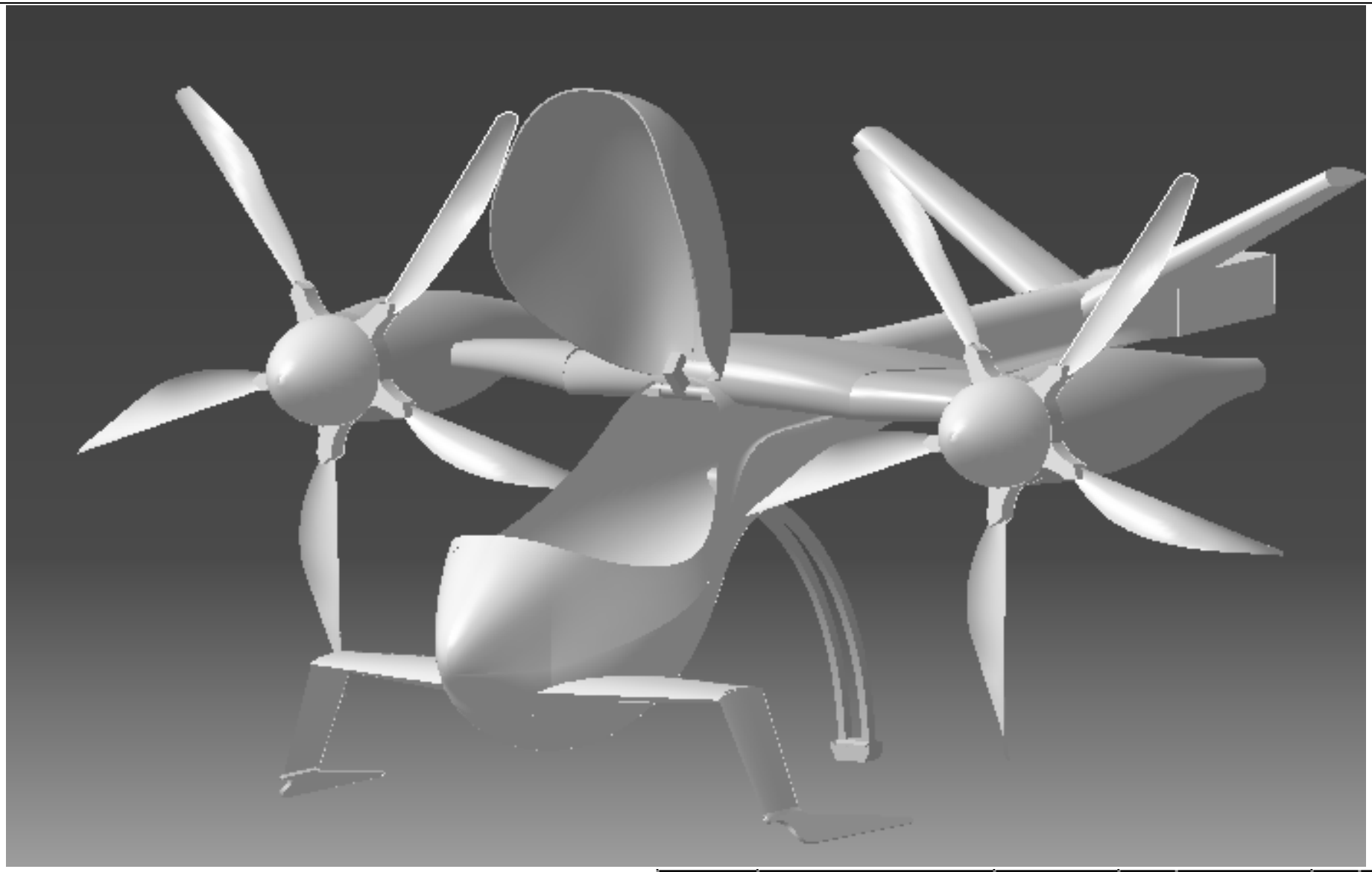


FIGHTER PLANE

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PRODUCT DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

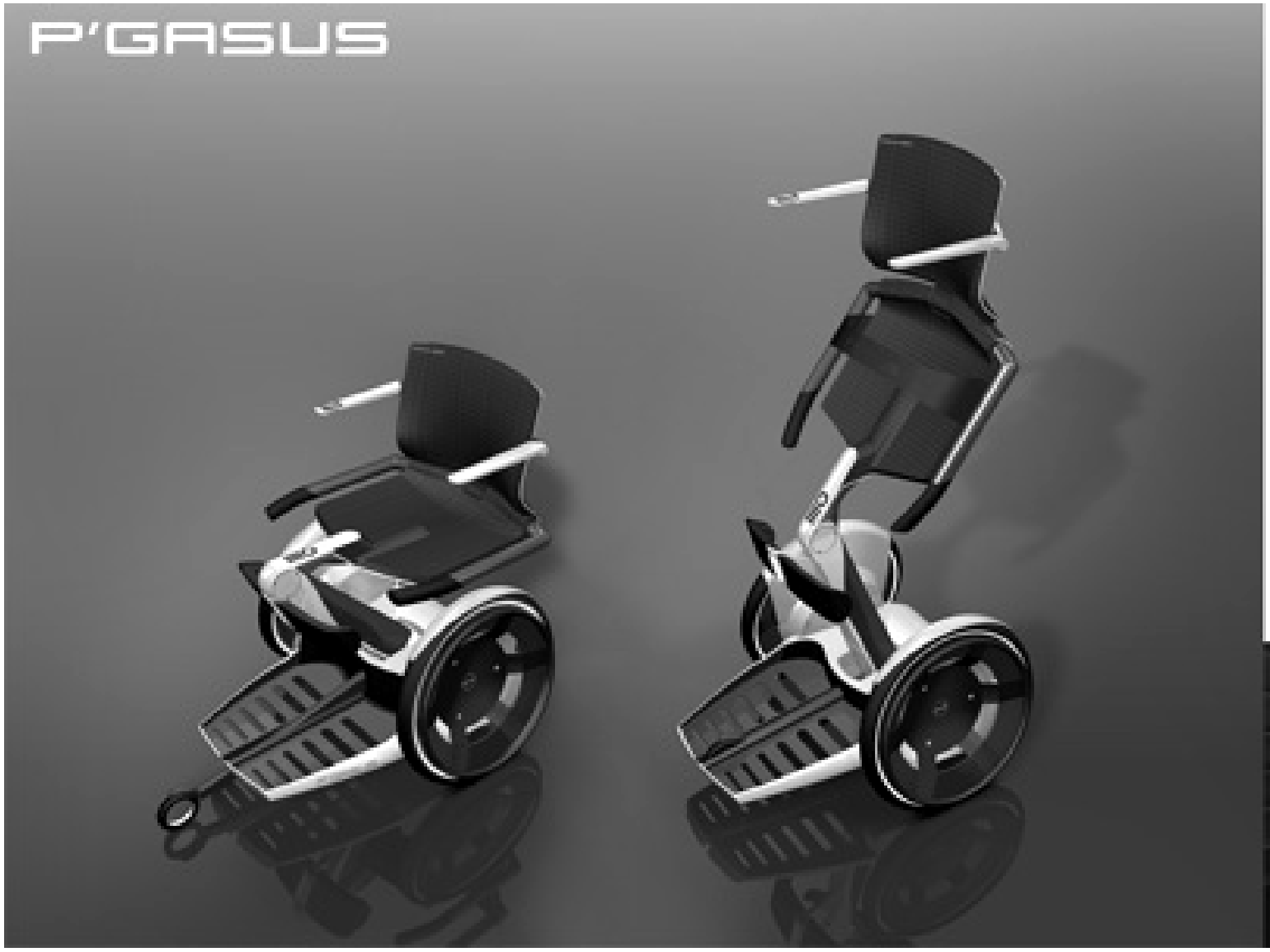


TOY PLANE

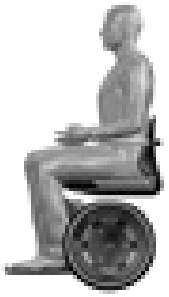
ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PRODUCT DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

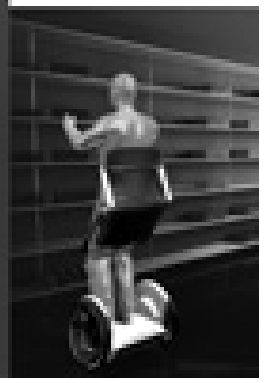
MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.









AUTO WHEEL CHAIR

ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PRODUCT DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.

CONCEPT BIKE





ALL DIMENSIONS ARE IN MM			PROJECTION:	SCALE 1:1	PART NO.
	NAME	DATE			
DRAWN	A.K.S.		GEOMETRICAL TOLERANCE 0 = +/- 0.5 0.0 = +/- 0.1 0.00 = +/- 0.01	TITLE: PRODUCT DESIGN	
CHECKED	G.D.B.				
APPROVED	G.S.A.				

MSME TOOL ROOM AURANGABAD
INDO GERMAN TOOL ROOM AURANGABAD

DRG. NO.	DRG. TYP	SHEET	SIZE	CONT. NO.