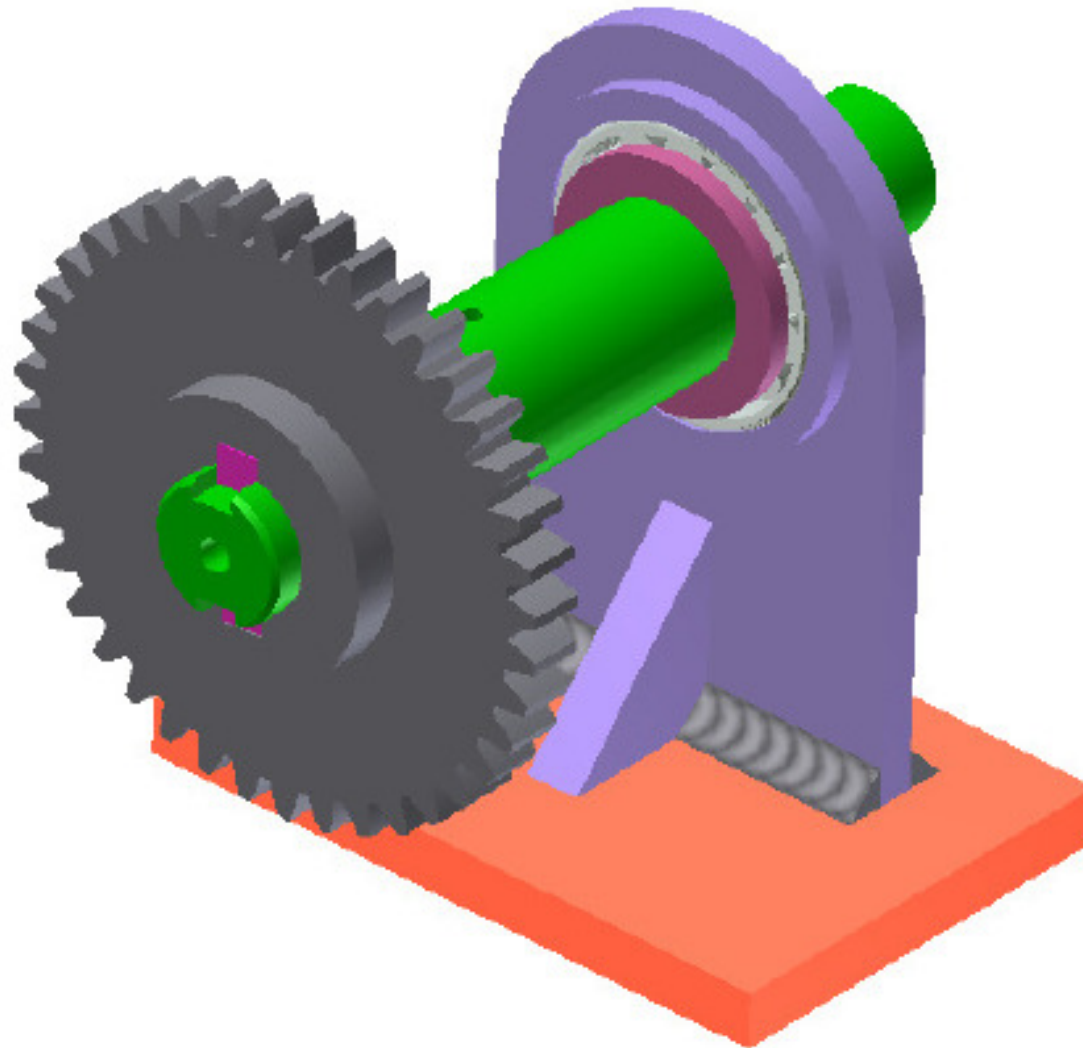


# CREATING ASSEMBLIES ASSEMBLY DRAWING

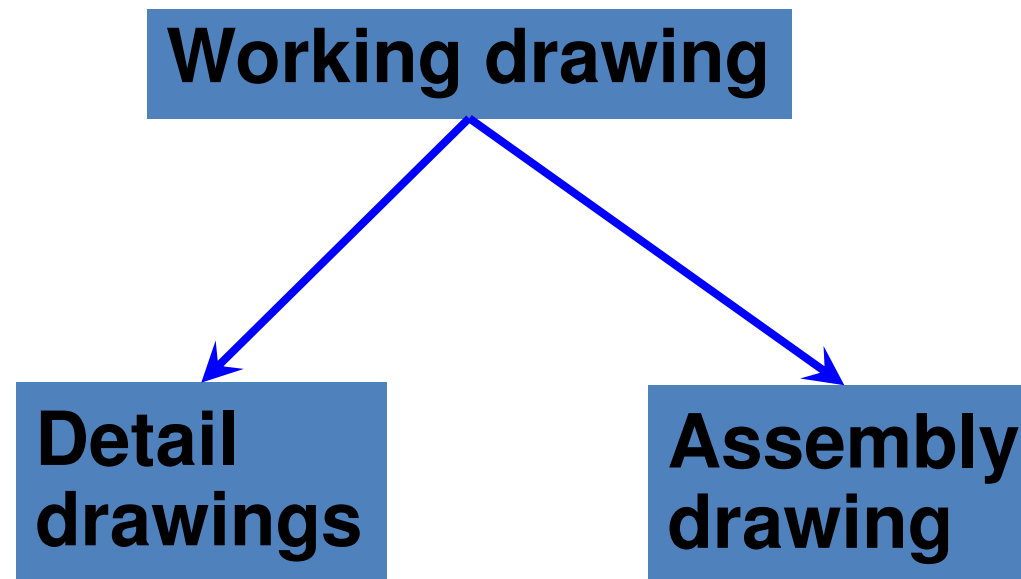
(MONTAJ Montaj Resmi)

# Assembly



# DEFINITION

- **Working drawing** is a set of drawing used during the work of making a product.



# DEFINITION

- **Detail drawing** is a **multiview representation** of a single part with **dimensions and notes**.
- **Assembly drawing** is a drawing of various parts of a machine or structure assembled in their relative working positions.

# PURPOSE

- **Detail drawing** conveys the **information** and **instructions** for manufacturing the part.

- **Assembly drawing** conveys

1. completed shape of the product.
2. overall dimensions.
3. relative position of each part.
4. functional relationship among various components.

# INFORMATION IN DETAIL DRAWING

**1. General information** → Title block

## **2. Part's information**

2.1 Shape description → Object's

2.2 Size description → views

2.3 Specifications → Notes

# GENERAL INFORMATION

- Name of company
  - Title of drawing (usually part's name)
  - Drawing sheet number
  - Name of drafter, checker
  - Relevant dates of action  
(drawn, checked, approved etc.)
  - Revision table
- Unit
  - Scale
  - Method of projection

# PART'S INFORMATION

## Shape

- ❖ **Orthographic drawing**
- ❖ Pictorial drawing

## Size

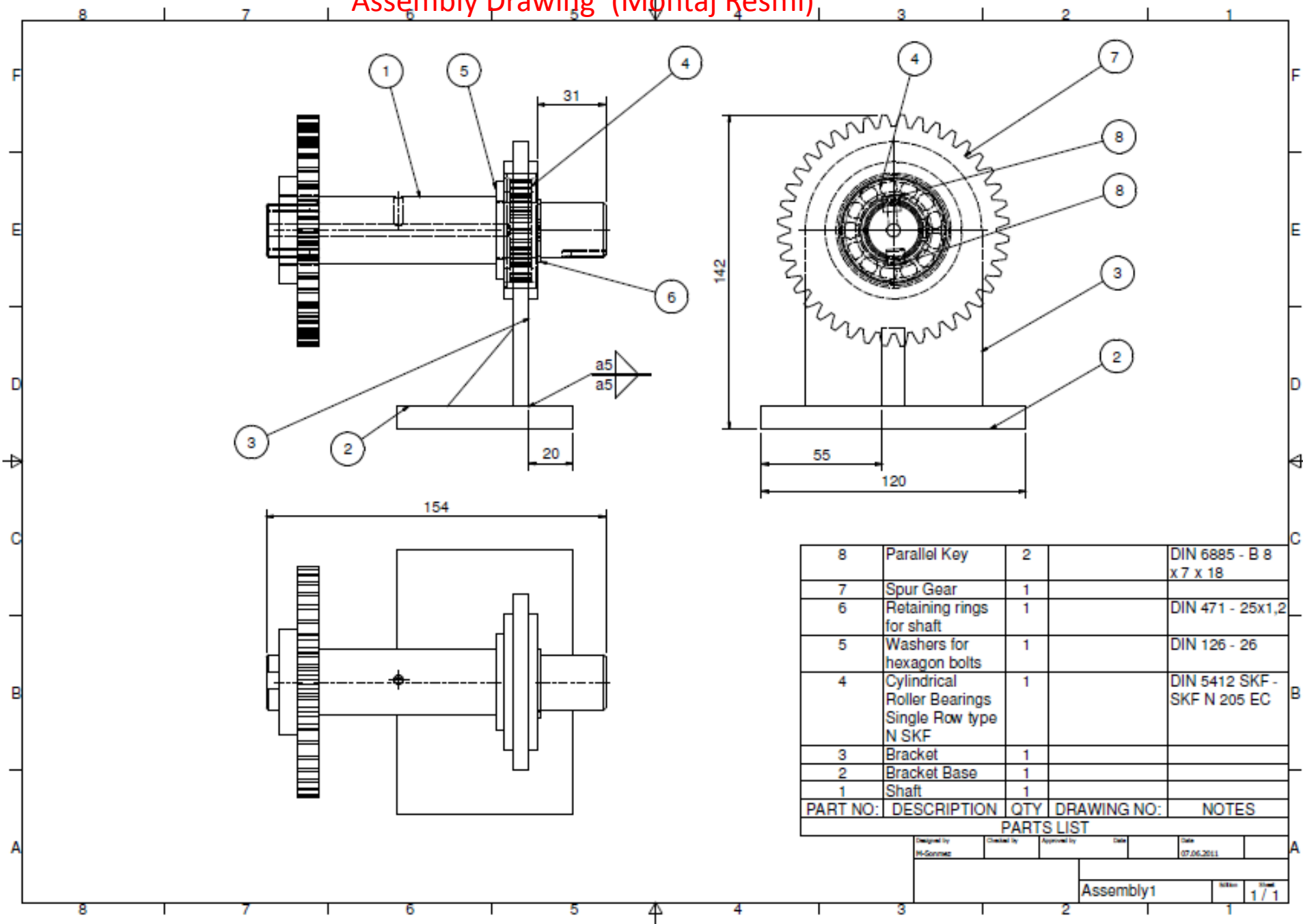
- ❖ **Dimensions and Tolerances**

## Specifications

- ❖ **Part number, name, number required**
- ❖ **Type of material used**
- ❖ **General notes**
- ❖ Heat treatment
- ❖ Surface finish
- ❖ General tolerances



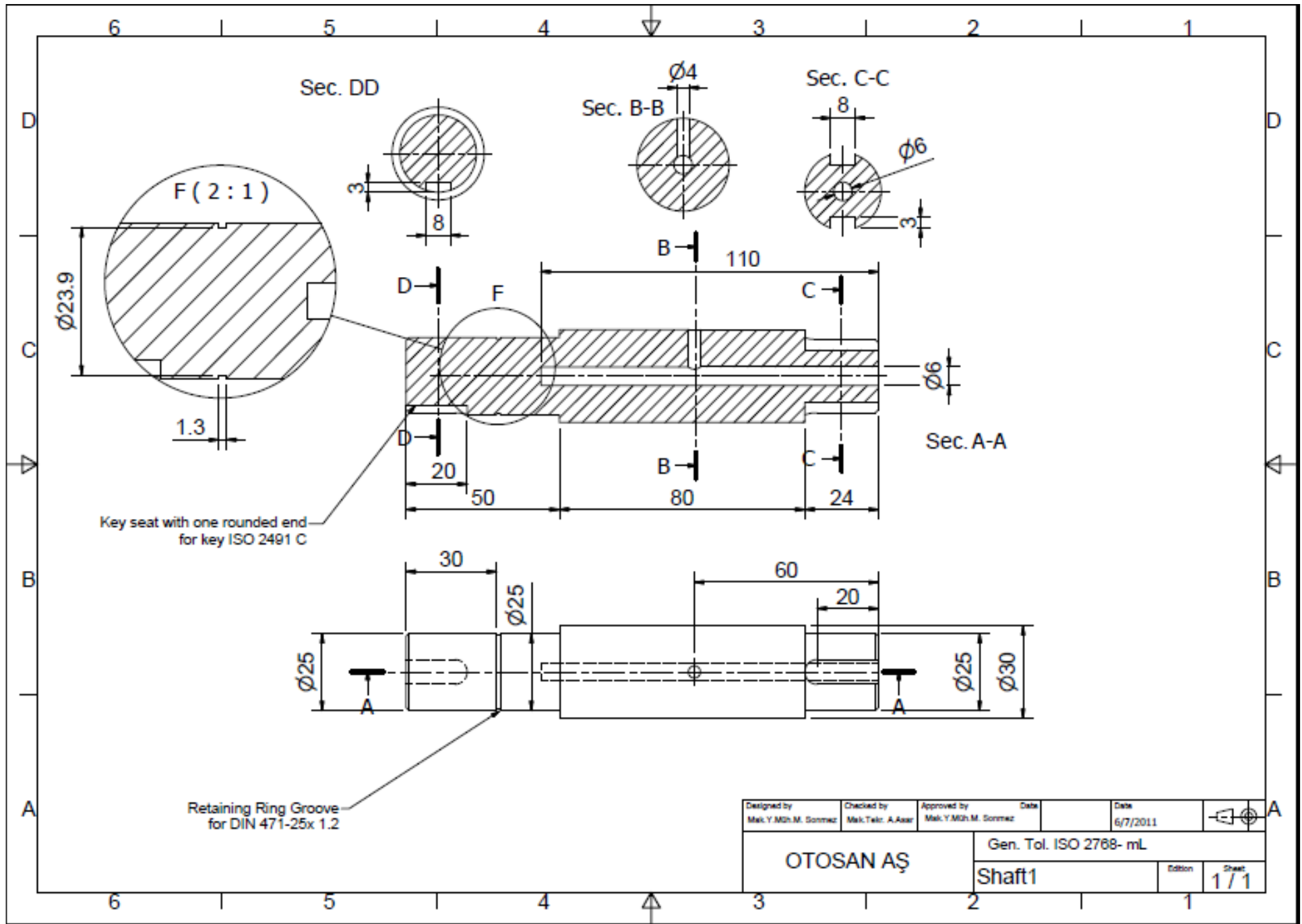
# Assembly Drawing (Montaj Resmi)



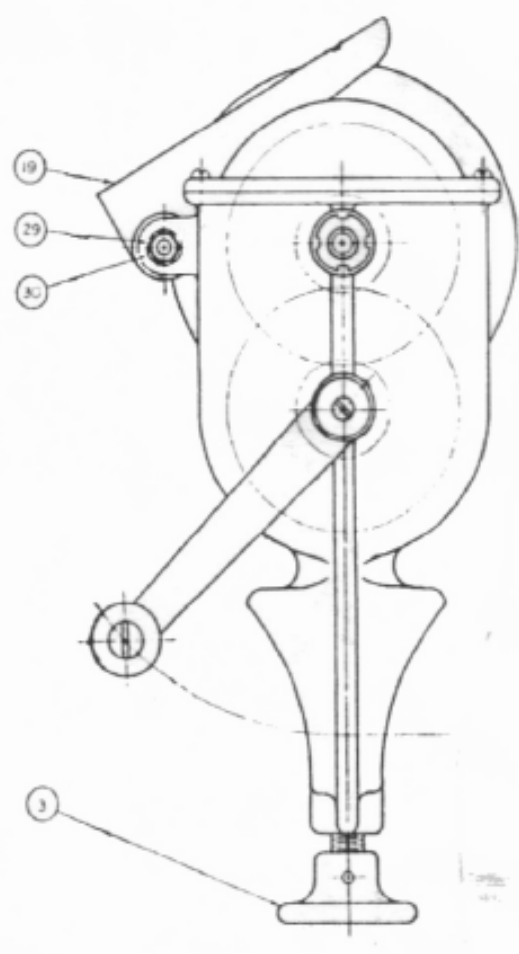
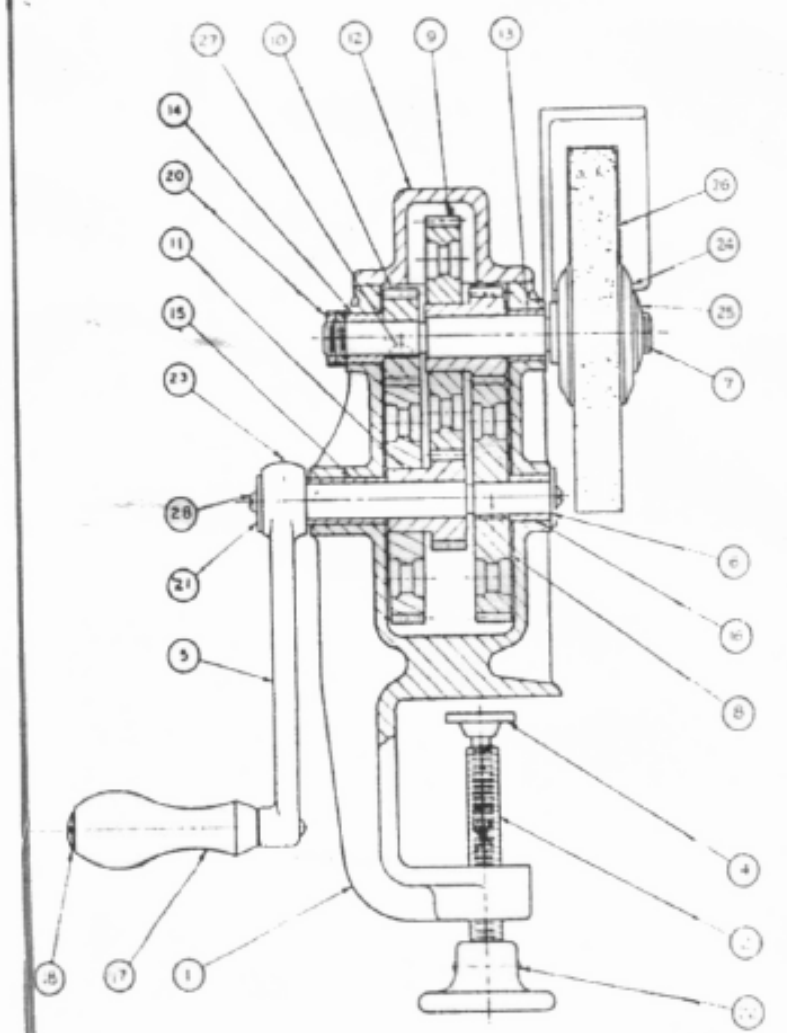
8	Parallel Key	2		DIN 6885 - B 8 x 7 x 18	
7	Spur Gear	1			
6	Retaining rings for shaft	1		DIN 471 - 25x1,2	
5	Washers for hexagon bolts	1		DIN 126 - 26	
4	Cylindrical Roller Bearings Single Row type N SKF	1		DIN 5412 SKF - SKF N 205 EC	
3	Bracket	1			
2	Bracket Base	1			
1	Shaft	1			
PART NO:		DESCRIPTION	QTY	DRAWING NO:	NOTES
PARTS LIST					

Designed by	Checked by	Approved by	Date	Date
HA-Gormez				07.06.2011
Assembly1				1/1

# Detail Drawing (İmalat Resmi)

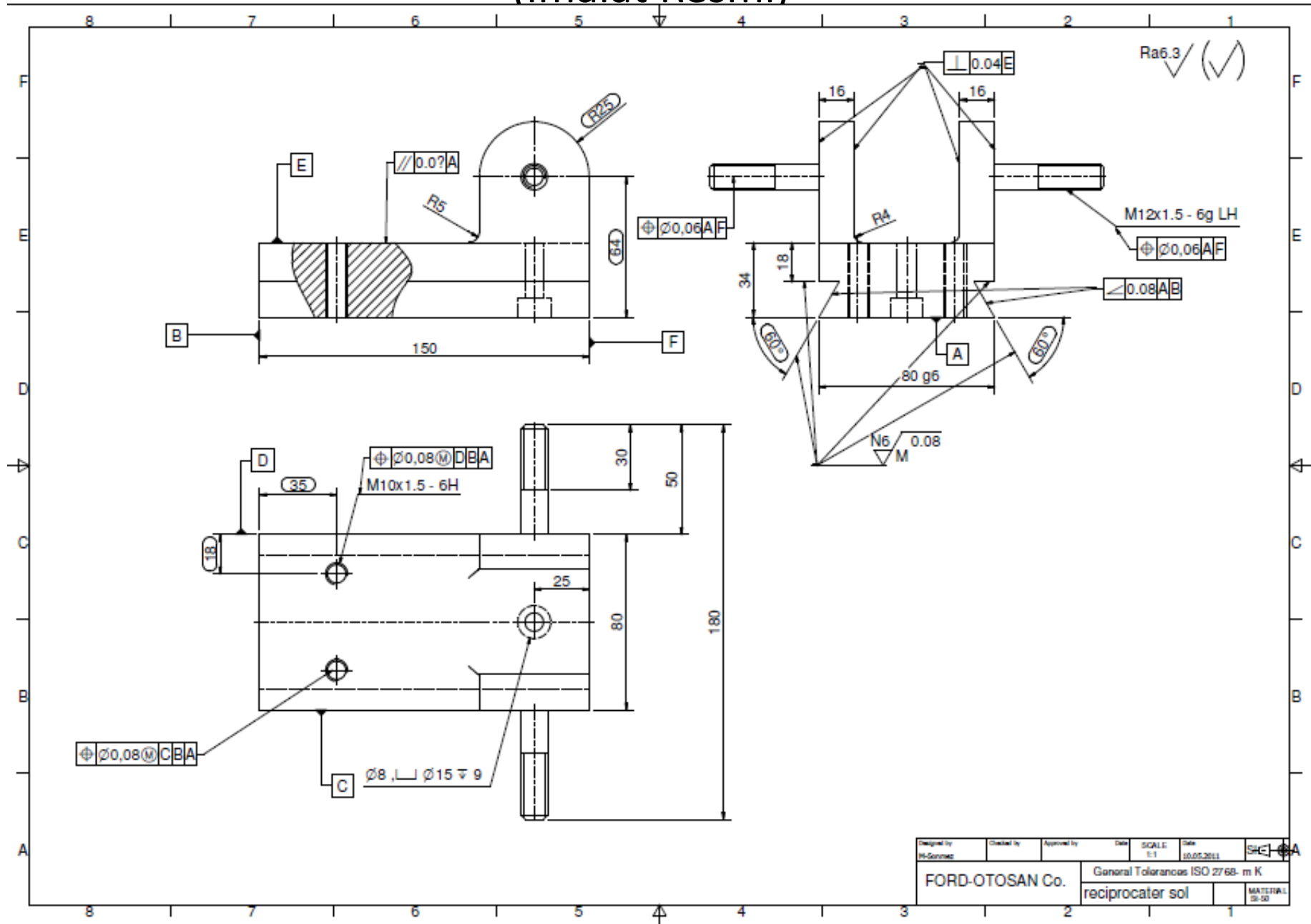


Designed by Mek.Y.Mh.M. Sommez	Checked by Mek.Telr. A.Azar	Approved by Mek.Y.Mh.M. Sommez	Date 6/7/2011	A
OTOSAN AŞ			Gen. Tol. ISO 2768- mL	
Shaft1			Edition	Sheet 1/1

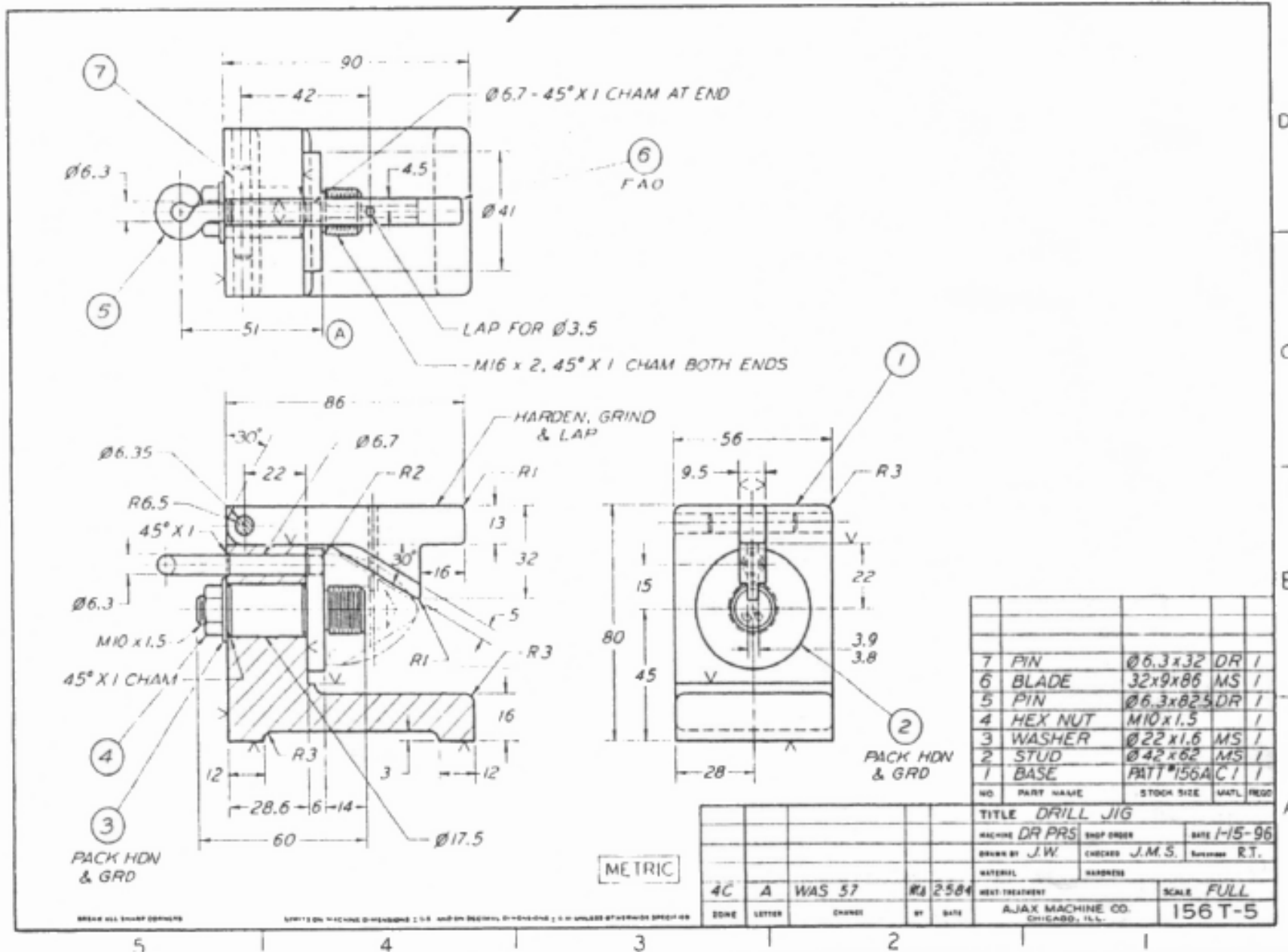


30	1/2 LOCK WASHER	1	
29	1/4 X 1/8 X 1/4 TYP DIRT & NUT	1	
28	1/4 X 1/8 RD HD MACH SCR	4	
27	WOODRUFF KEY #204	2	
26	5/8 X 1/2 ALUMINA WHEEL	1	
25	WHEEL NUT	1	STEEL
24	WHEEL WASHER	2	STEEL
23	1/4 X 1/8 SET SCREW-CUP POINT	1	
22	1/4 X 1/8 PIN	1	
21	CRANK SPINDLE WASHER	2	STEEL
20	SPECIAL LOCK NUT	4	STEEL
19	TOOL REST	1	CI
18	HANDLE BOLT	1	STEEL
17	CRANK HANDLE	1	WOOD
16	BUSHING	1	BRONZE
15	BUSHING	1	BRONZE
14	BUSHING	1	BRONZE
13	BUSHING	1	BRONZE
12	HOUSING COVER	1	CI
11	SMALL PINION, PRESSED	2	CI
10	SMALL PINION, KEYED	1	CI
9	LARGE GEAR, PRESSED	2	CI
8	LARGE GEAR, KEYED	1	CI
7	WHEEL SPINDLE	1	STEEL
6	CRANK SPINDLE	1	STEEL
5	CRANK	1	CI
4	CLAMP SCREW CAP	1	CI
3	CLAMP SCREW HANDLE	1	CI
2	CLAMP SCREW	1	STEEL
1	HOUSING	1	CI
NO	JUST NAME	REQD	AMT.
JOHN SMITH AND CO. ST. LOUIS, MO.			
<b>GRINDER ASSEMBLY</b>			
DR BY	61996	CHK BY	61996
TR BY	R. D. J.	APPD BY	61996
SCALE FULL	SECTION BOX	<b>R-145</b>	

# Detail Drawing (İmalat Resmi)



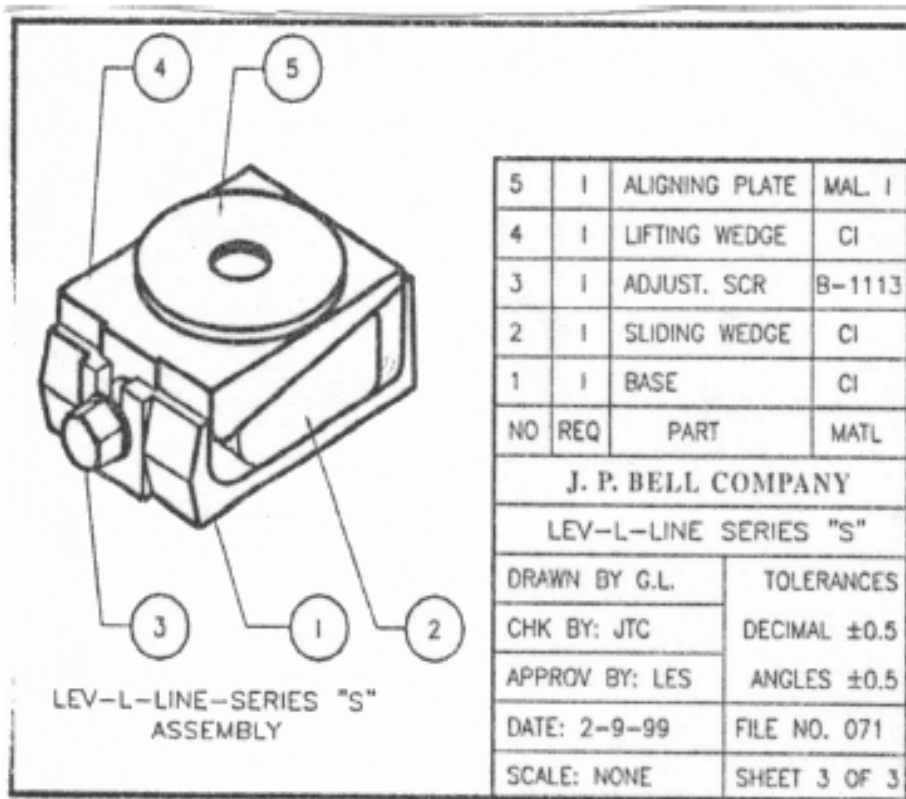
# Detailed Assembly Drawing



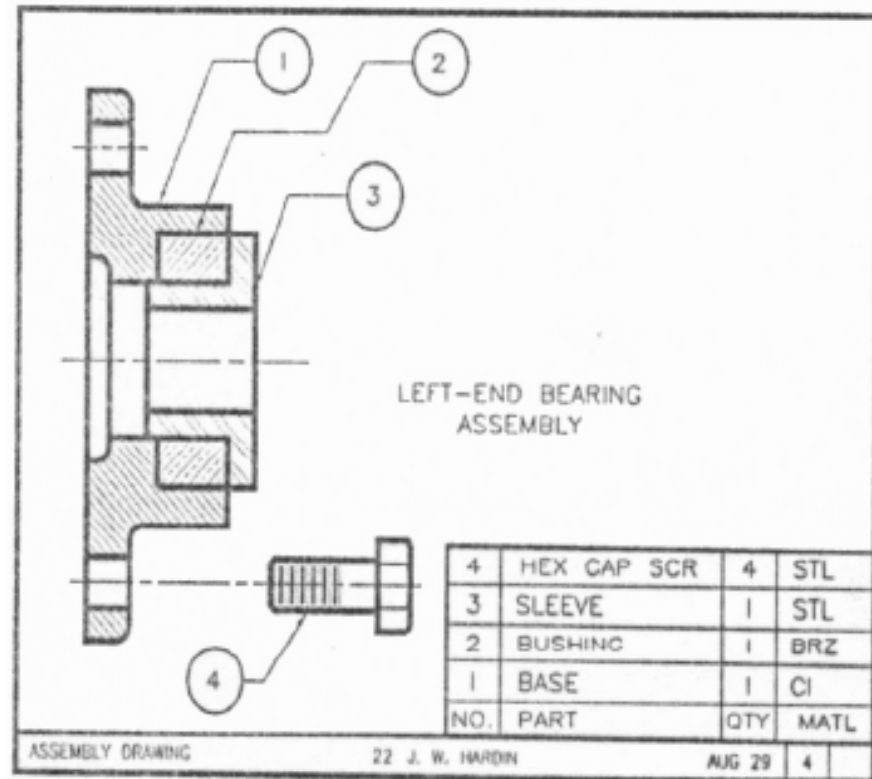
NO	PART NAME	STOCK SIZE	MATL	QTY
7	PIN	Ø6.3 x 32	DR	1
6	BLADE	32 x 9 x 86	MS	1
5	PIN	Ø6.3 x 82.5	DR	1
4	HEX NUT	M10 x 1.5		1
3	WASHER	Ø22 x 1.6	MS	1
2	STUD	Ø42 x 62	MS	1
1	BASE	PATT #156A	C	1

TITLE DRILL JIG			
MACHINE DR PRS	SHOP ORDER	DATE 1-15-96	
DRAWN BY J.W.	CHECKED J.M.S.	APPROVED R.T.	
MATERIAL		HARDNESS	
4C	A	WAS 57	RA 2584
NEXT TREATMENT		SCALE FULL	
AJAX MACHINE CO.			156 T-5
CHICAGO, ILL.			

BREAK ALL SHARP EDGES  
 DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED  
 DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED  
 METRIC

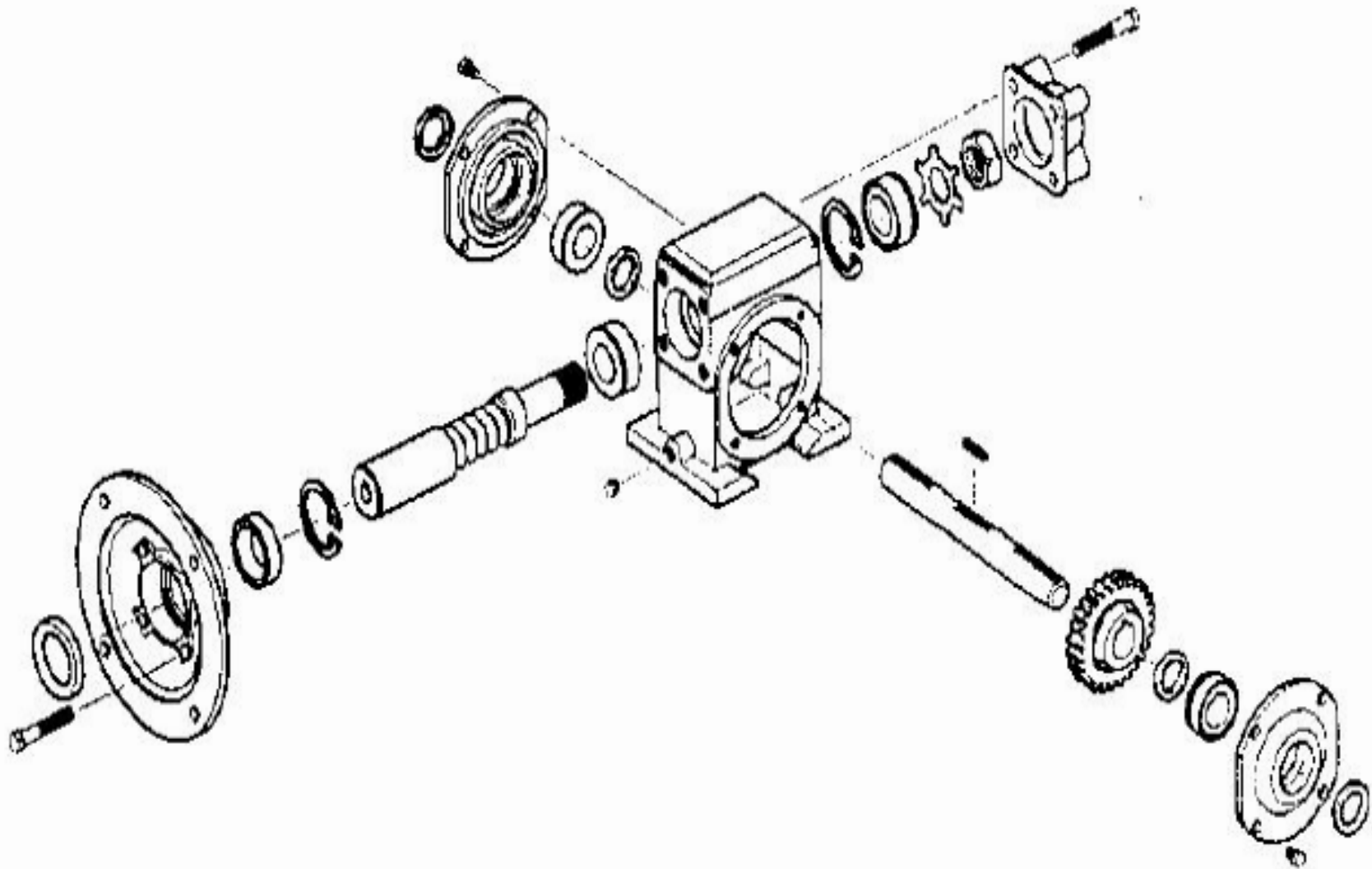


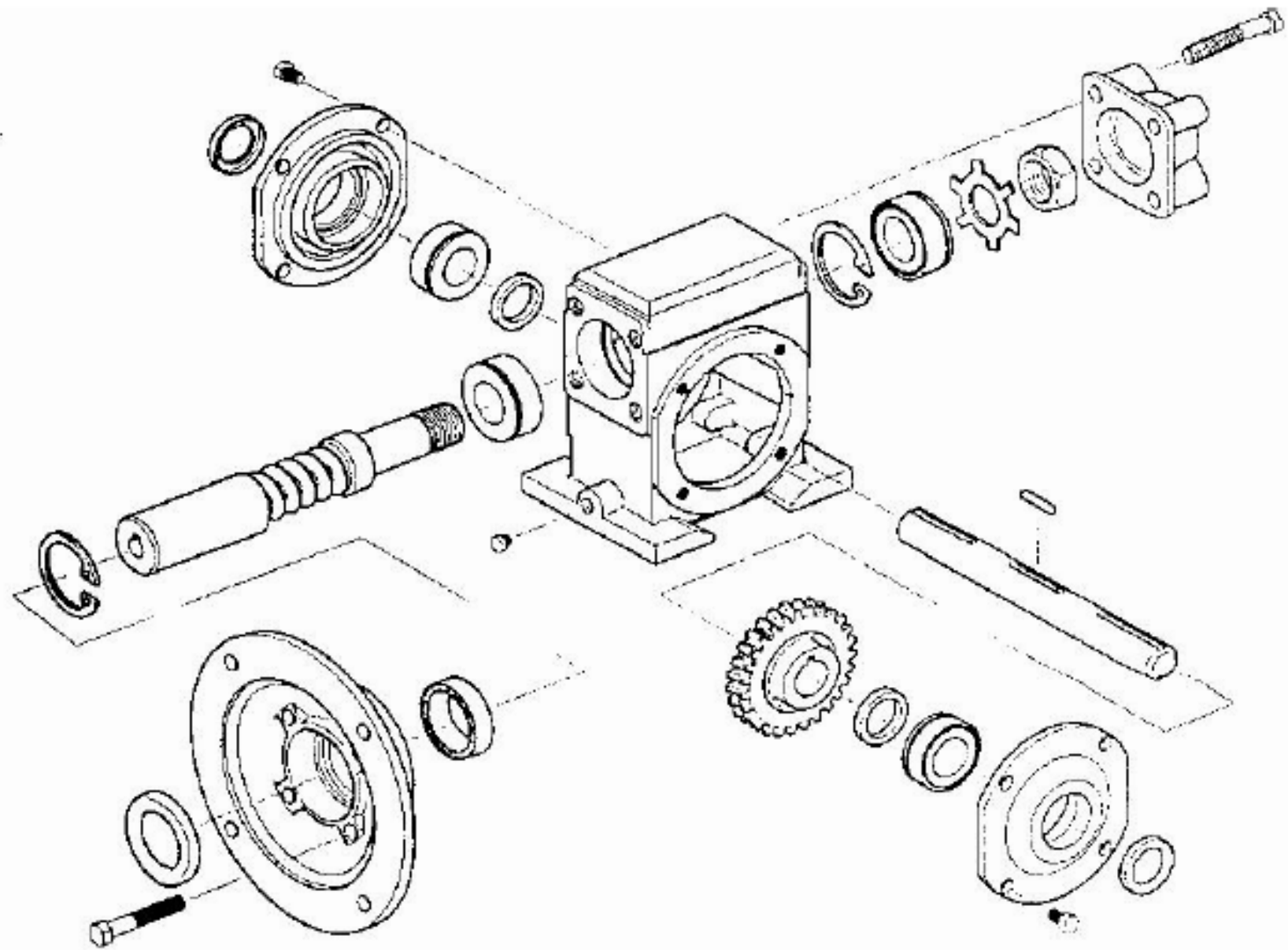
An isometric assembly drawing depicting the parts of the lifting device fully assembled. Dimensions are usually omitted from assembly drawings; a parts list is given.



A sectioned orthographic assembly showing the left-end bearing assembly. All parts except for the exploded bolt are in their assembled positions.

## Exploded Pictorial Drawing

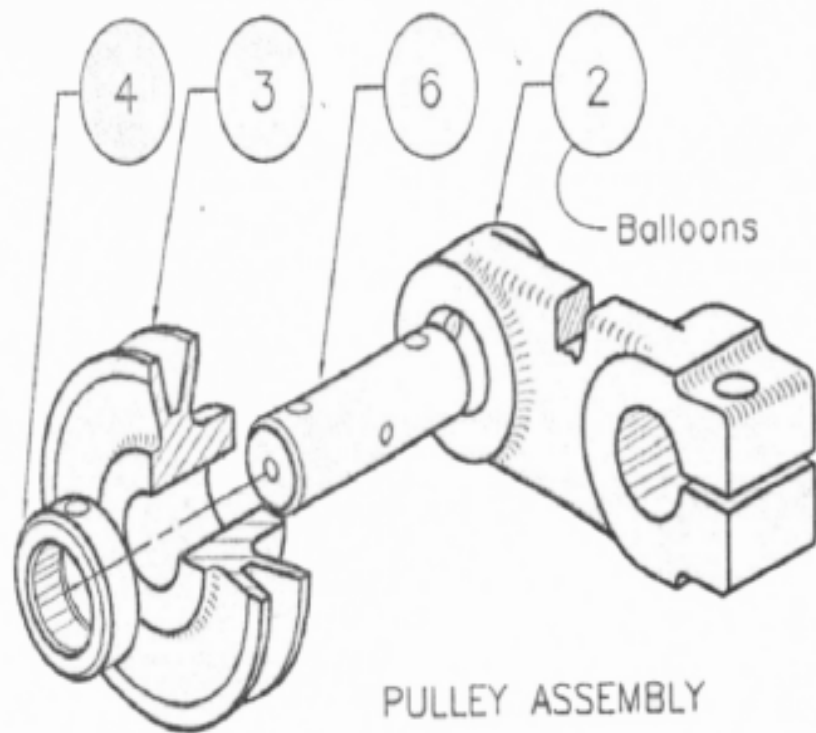




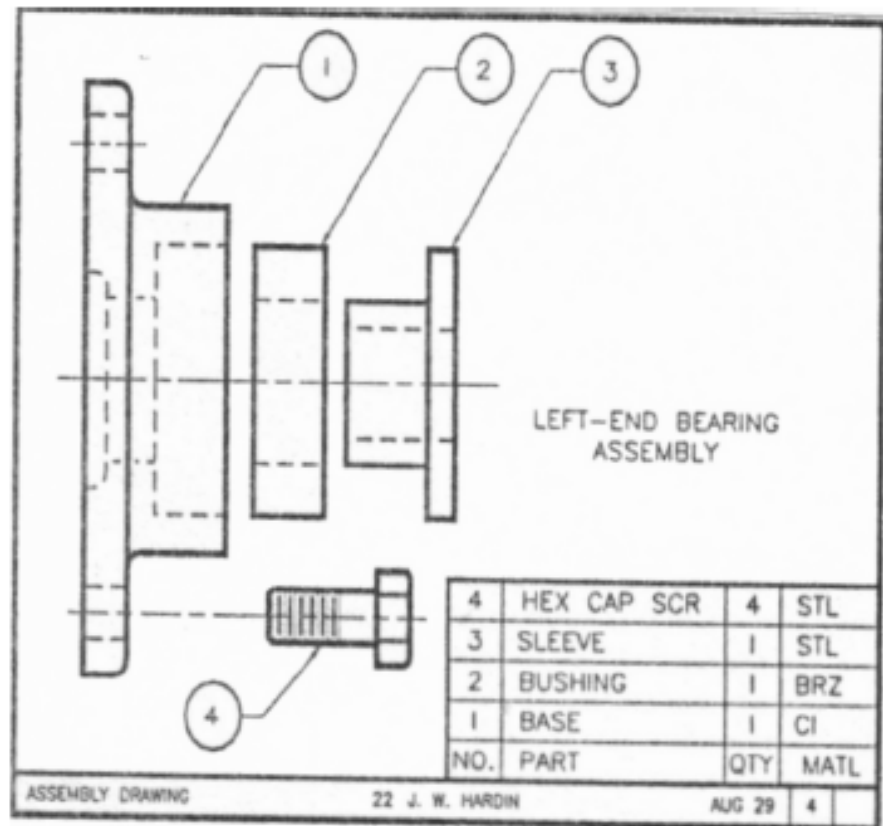
(B) Use of flow lines

Flow Lines to Reproportion the Drawing






An exploded pictorial assembly drawing of a pulley assembly.



An exploded orthographic assembly drawing illustrating how the parts shown are to be put together.

15		95			20	45	28.0
16		Correction			Date	Approved By	
6		Part No			Part Name	Drawing No	Notes
6		Date		Signature, Name		< Name of the Firm >	
6		Drawn By		Checked By		Approved By	
20		Scale	Material	< General Tolerances >		Drawing No:	
15		SI- 		< Name of Drawing >		Replaced By:	
25		20	= 0		60		
175							