

**PROBLEM 15.15 Working drawing (in.)**

Assembly Name: Arbor Press

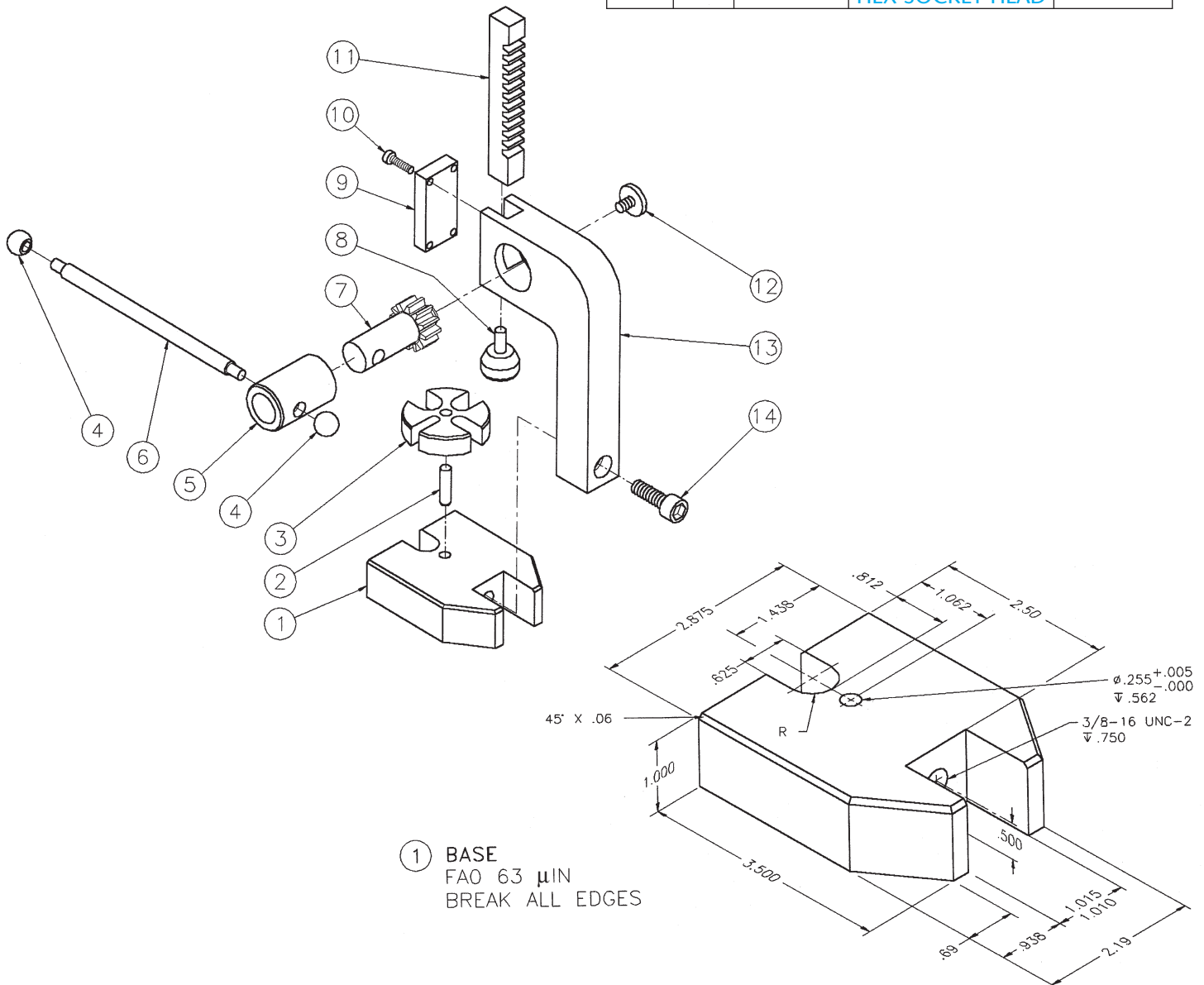
**SPECIFIC INSTRUCTIONS:** This problem is generally basic, but it also contains challenging applications that include gears. You should study gears and related drafting practices

covered in Chapter 16 before completing this problem. Prepare a complete set of working drawings with one detail drawing per sheet and the assembly drawing and bill of materials on another sheet. Use multiview projection for view layout.

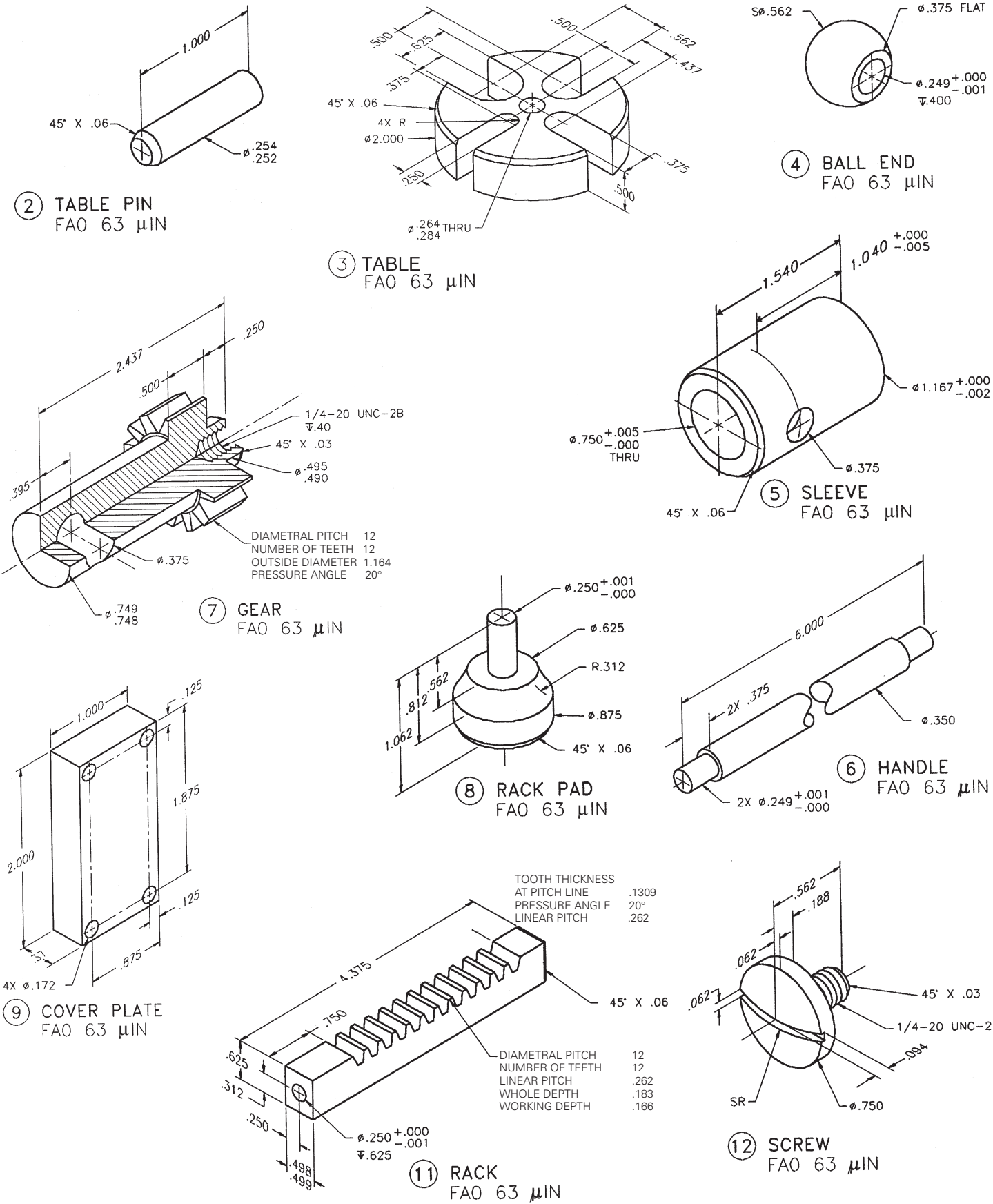
**PARTS LIST**

ITEM	QTY	NAME	DESCRIPTION	MATERIAL
1	1	BASE		SAE 1020
2	1	TABLE PIN		SAE 1020
3	1	TABLE		SAE 1020
4	2	BALL END		SAE 1020
5	1	SLEEVE		SAE 1020
6	1	HANDLE		SAE 1020
7	1	GEAR		SAE 4320
8	1	RACK PAD		SAE 4320

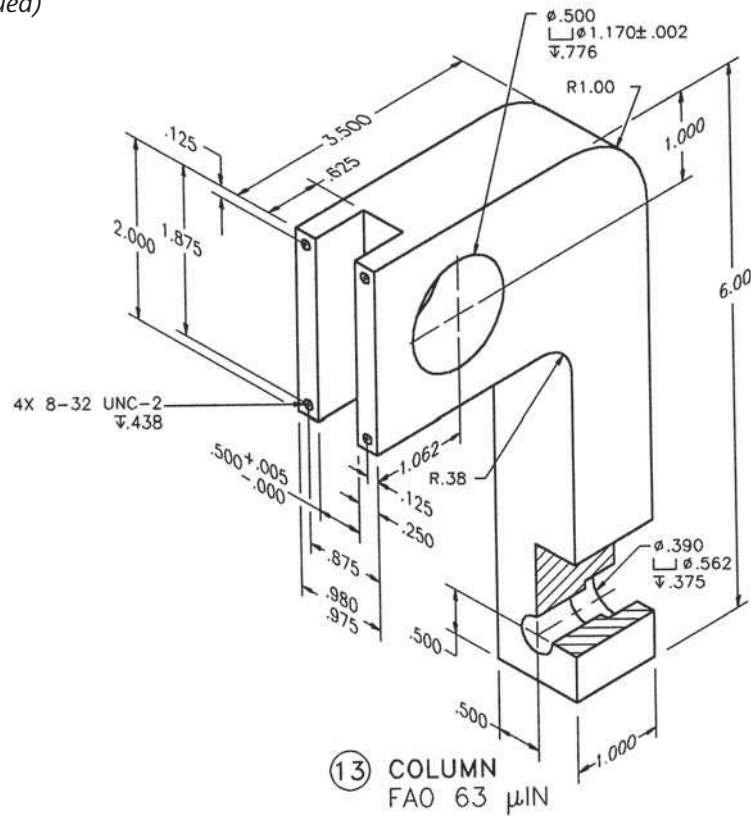
ITEM	QTY	NAME	DESCRIPTION	MATERIAL
9	1	COVER PLATE		SAE 1020
10	4	CAP SCREWS	8-32UNC-2 × .50 HEX SOC	STL
11	1	RACK		SAE 4320
12	1	SCREW		SAE 1040
13	1	COLUMN		SAE 1020
14	1	CAP SCREW	3/8-16UNC-2 × 1.00 HEX SOCKET HEAD	STL



PROBLEM 15.15 (Continued)



PROBLEM 15.15 (Continued)



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PROBLEM 15.16 Working drawing (in.)

Assembly Name: Pen Light

SPECIFIC INSTRUCTIONS: Prepare a complete set of working drawings with one detail drawing per sheet and the assembly and parts list on another sheet. When preparing

the assembly drawing, use separate balloons for each part in each view or use only one balloon in the view that most clearly identifies the part. This is an engineering prototype project. Errors are likely. Verify dimensions during assembly. Establish tolerances between mating parts.

PARTS LIST				
KEY	QTY	NAME	DESCRIPTION	PART NO.
1	1	MAGNET	MAGNET	5DT1001
2	1	BODY	POLYCARBONATE	1DT1002
3	1	PARKER O-RING	PARKER #2-014	5DT1003
4	1	PRONG	PHOSPHOR BRONZE	1DT1004
5	1	SPRING	PHOSPHOR BRONZE	1DT1005
6	1	WASHER	PHOSPHOR BRONZE	1DT1006
7	1	PLUG	PHOSPHOR BRONZE	1DT1007
8	1	CATALYST	DE OXO TYPE D	5DT1008
9	1	BULB CASING	POLYCARBONATE	1DT1009
10	1	LAMP MODULE	VACUUM METALLIZED	1DT1010
11	1	LAMP	HIGH INTENSITY XENON	5DT1011
12	1	LAMP LENS	POLYCARBONATE	1DT1012
13	1	FIBER OPTIC HOLDER	(PVF) POLYVINYLIDENE FLOURIDE	1DT1013
14	1	FIBER OPTIC	FIBER-OPTIC 3-1/2" × .12"	5DT1014