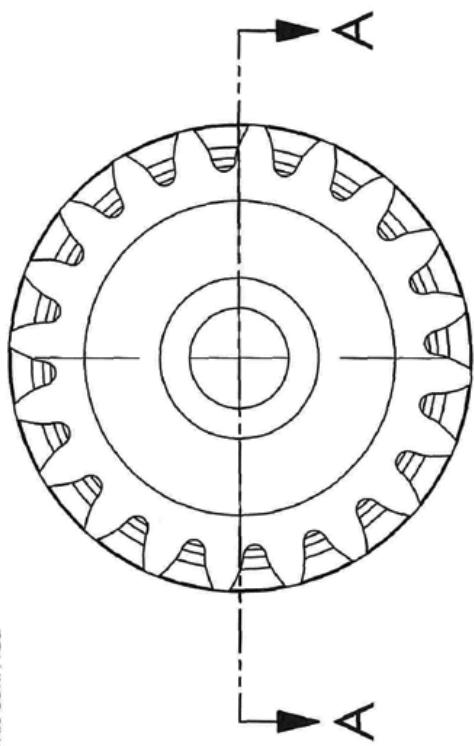
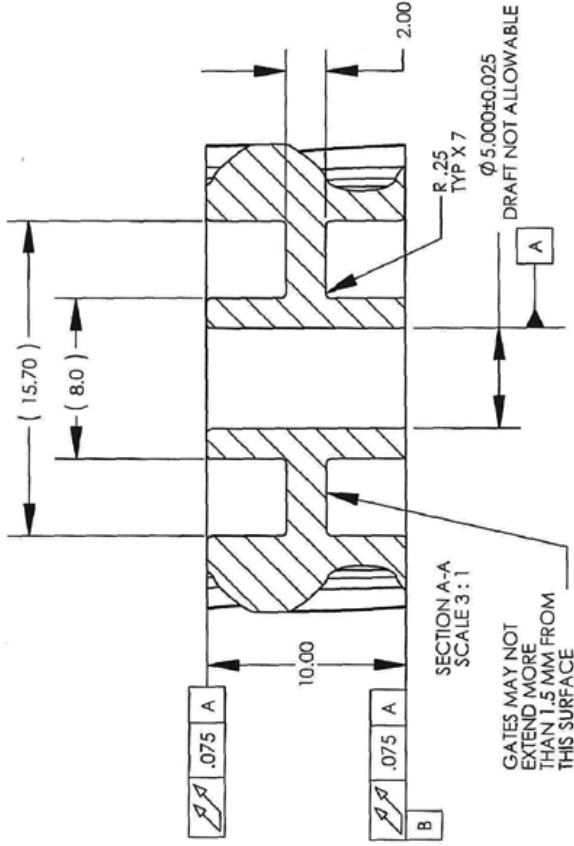
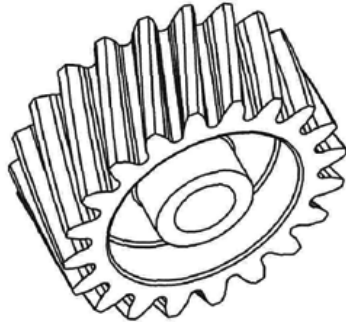




BASIC GEAR DATA

TYPE OF GEAR	HELICAL
MATING GEAR PART #	6543 2187
NUMBER OF TEETH	20
NORMAL MODULE	(1.00)
NORMAL PRESSURE ANGLE	(20.0°)
HELIX ANGLE	(20.0°)
HELIX HAND	RIGHT
STANDARD PITCH DIAMETER	21.284 BASIC
BASE CIRCLE DIAMETER	19.847 BASIC
NORMAL BASE PITCH	2.952 BASIC
LEAD	183.708 BASIC

TOOTH PROPORTIONS DATA

NORMAL CIRC. TOOTH THK'SS	1.572 ±.025
OUTSIDE DIAMETER	23.255 ±.100
ROOT DIAMETER	18.570 ±.125
FORM DIAMETER	19.956 MAX
NORMAL TIP RADIUS	.125 ±.025
EFFECTIVE OUTSIDE DIAMETER	23.128 ±.127
NORMAL FILLET RADIUS	.482 MIN
PIN DIAMETER	1.800 BASIC
NUMBER OF PINS TO USE	2
MEASUREMENT OVER PINS	23.932 ±.056
NUMBER OF TEETH SPANNED	3
SPAN MEASUREMENT	7.716 ±.023

BASIC RACK DATA

PROFILE ANGLE	20.0°
MODULE	1.00
DEDENDUM FROM REFERENCE LINE	1.358
TOOTH THK'SS AT REFERENCE LINE	1.5708
FILLET RADIUS	.41555

COMPOSITE INSPECTION DATA

QUALITY LEVEL	Q7
TOTAL COMPOSITE TOLERANCE	.084
TOOTH TO TOOTH TOLERANCE	.043
TEST RADIUS	10.643 ±.076
TEST LOAD	2.2 N BASIC

MASTER GEAR DATA

MASTER GEAR ID	12345678
CLASS	C1A
NUMBER OF TEETH	47
NORMAL CIRCULAR TOOTH THK'SS	1.5708 BASIC
HELIX ANGLE	20.0° BASIC
HAND OF HELIX	LEFT
OUTSIDE DIAMETER	52.150 BASIC
MAXIMUM ROOT DIAMETER	47.100 BASIC
TEST RADIUS	25.008 BASIC

NOTES:

- 1 DRAFT 1.5° ALLOWABLE ACCEPT FOR GEAR TOOTH SURFACES AND UNLESS OTHERWISE NOTED
- 2 PARTS MUST BE FREE OF FLASH THAT AFFECTS THE EVALUATION OF TEST RADIUS
- 3 PARTS MUST BE FREE OF ALL HANDLING DAMAGE INCLUDING GOUGES OR NICKS.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM TOLERANCES ARE:		CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE	
1 DEC. ±.25 MM	APPROVALS	DATE	
2 DEC. ±.13 MM		DRAWN	
3 DEC. ±.08 MM		CHECKED	
ANGLES ±0° 30'	MATERIAL UNFILLED ACTUAL SIZE MAX RECORD	RESP ENG	
WEIGHT 3.1 grams		MFG ENG	
DO NOT SCALE DRAWING		QUAL ENG	
CHANGE LEVEL	DATE	DESCRIPTION	

20 TOOTH HELICAL GEAR

SHEET	DWG. NO.	REV.
A	8765 4321	A
SCALE	CAD FILE	SHEET OF