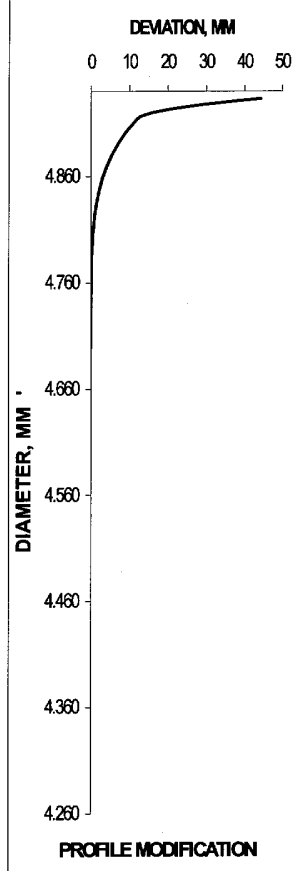


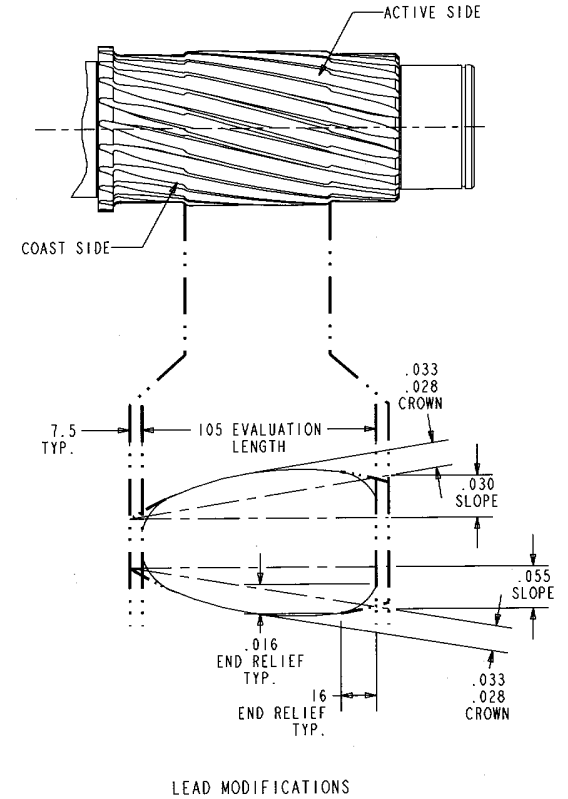
HELICAL GEAR DATA

NUMBER OF TEETH	22
NORMAL MODULE	5.0000
NORMAL PRESSURE ANGLE	20.0000°
WHOLE DEPTH CONSTANT	2.400
OPERATING PITCH DIA.	114.0000
GENERATING PITCH DIA.	113.3675
PROFILE SHIFT COEFFICIENT X1	.120
BASE DIAMETER	106.1454
MAJOR DIAMETER MAX. (REF.)	125.300
FORM DIAMETER	108.357
ROOT DIAMETER (REF)	100.60
TOOL TIP RAD. MIN.	1.95
HELIX ANGLE, GENERATED	14.0000
HELIX HAND	RIGHT
LEAD	1428.4577
NUMBER OF TEETH IN MATE	88
OPERATING CENTER DISTANCE	285.000
BACKLASH W/ MATE (MIN/MAX)	.20 / .30
QUALITY PER AGMA 2015-1, DATUM SURFACE	A-B
ACTIVE FLANK GRADE	5
IN-ACTIVE FLANK GRADE (COAST)	6
TRAN. CIR. TT. Ø GEN DIAMETER (MIN)	8.792
TRAN. CIR. TT. Ø GEN DIAMETER (MAX)	8.839
SIZE OVER 10.2 BALLS (MAX/MIN)	131.361 / 131.268
SPAN OVER 4 TEETH (MAX/MIN)	39.260 / 39.216



START OF INVOLUTE (ROOT)	4.2739 in.
END OF INVOLUTE (TIP)	4.9331 in.

Diameter mm	Diameter in.	Relief, 1/10,000 inches	Relief, microns
108.557	4.2739	0.0	0.00
119.357	4.6991	0.0	0.00
119.612	4.7091	0.0	0.00
119.869	4.7192	0.0	0.00
120.126	4.7294	0.0	0.00
120.388	4.7397	0.0	0.01
120.651	4.7501	0.0	0.03
120.916	4.7605	0.0	0.07
121.183	4.7710	0.1	0.16
121.452	4.7816	0.1	0.31
121.722	4.7922	0.2	0.56
121.995	4.8030	0.4	0.95
122.270	4.8138	0.6	1.53
122.546	4.8246	0.9	2.37
122.824	4.8356	1.4	3.54
123.104	4.8466	2.0	5.12
123.386	4.8577	2.8	7.23
123.670	4.8689	3.9	9.99
123.956	4.8802	5.3	13.52
124.244	4.8915	7.1	17.99
124.533	4.9029	9.3	23.58
124.824	4.9143	12.0	30.47
124.871	4.9162	12.8	32.39
124.919	4.9181	14.0	35.65
124.966	4.9199	15.9	40.29
125.014	4.9218	18.2	46.30
125.061	4.9237	21.1	53.71
125.109	4.9256	24.6	62.54
125.157	4.9274	28.7	72.81
125.204	4.9293	33.3	84.56
125.252	4.9312	38.5	97.80
125.300	4.9331	44.3	112.60



REPORT ERRORS & CHANGES REMOVE ALL SHARP EDGES DIMENSIONS ARE IN MM. UNSPECIFIED TOLERANCES: DECIMALS: FINISH: ANGLES:		Powertrain Engineers Inc W293 N3819 Round Hill Circle Pewaukee WI, 53072	
X, ±1.0 Re 3.2 µm < ±0.5 X, ±0.5 XX, ±0.25		TITLE PINION, HIGH SPEED	
COPYRIGHT © NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR MACHINERY.		SIZE B	FIRST USED ON NO. 251244
DRAWN PE1	DATE 8/30/07	SCALE: 0.250	WEIGHT: 54.3 kgs
CHECKED			SHEET 2 OF 2