



DPLX HELICAL SPIRAL BEVEL DIMENSIONS NO. M SC0007

VERSION: T2000-18.02

DATE 1/29/2009 TIME 15:13

VENTURI

PINION

GEAR

	PINION	GEAR		PINION	GEAR
OUTSIDE DIAMETER				102.87	376.38
PITCH APEX TO CROWN				184.93	35.85
MEAN CIRCULAR THICKNESS				16.31	6.78
OUTER NORMAL TOPLAND				1.89	3.61
MEAN NORMAL TOPLAND		8.720		2.47	3.67
INNER NORMAL TOPLAND		55.00		3.32	3.69
PITCH ANGLE	22D 30M	55.00		11D 49M	78D 11M
FACE ANGLE OF BLANK	90D 0M			16D 9M	79D 38M
ROOT ANGLE		1.120		10D 22M	73D 51M
DEDENDUM ANGLE		1.291		1D 28M	4D 20M
OUTER SPIRAL ANGLE		1.709			35D 7M
MEAN SPIRAL ANGLE		191.54			28D 26M
INNER SPIRAL ANGLE		164.04			21D 56M
HAND OF SPIRAL				RH	LH
DRIVING MEMBER				PIN	
DIRECTION OF ROTATION-DRIVER				REV	
OUTER NORMAL BACKLASH		17.89	17.89	0.25 MIN	0.33 MAX
DEPTHWISE TOOTH TAPER		1.97	1.97	DPLX	
GEAR TYPE		12.46	3.46		NON-GENERATED
FACE WIDTH IN PCT CONE DIST.		5.43	14.43		28.714
DEPTH FACTOR - K					2.000
ADDENDUM FACTOR - C1					0.210
GEOMETRY FACTOR-STRENGTH-J				0.2663	0.2422
STRENGTH FACTOR - Q				2.50250	0.57599
EDGE RADIUS USED IN STRENGTH				0.060"	0.130"
CUTTER RADIUS FACTOR - KX				1.014	
FACTOR				1.1705	
STRENGTH BALANCE DESIRED				GIVN	
STRENGTH BALANCE OBTAINED					0.061
GEOMETRY FACTOR-DURABILITY-I				0.1280	
DURABILITY FACTOR - Z				2458.67	1124.83
GEOMETRY FACTOR-SCORING -G				0.015161	
SCORING FACTOR - X				0.5762	
ROOT LINE FACE WIDTH				55.00	55.00
PROFILE SLIDING FACTOR				0.00615	0.01077
RATIO OF INVOLUTE/OUTER CONE					1.162
RATIO OF INVOLUTE/MEAN CONE					1.357
AXIAL FACTOR - DRIVER CW	STD	DEPTH	STD	DEPTH	IN 0.328 OUT 0.090
AXIAL FACTOR - DRIVER CCW					OUT 0.473 OUT 0.055
SEPARATING FACTOR-DRIVER CW					SEP 0.432 ATT 0.069
SEPARATING FACTOR-DRIVER CCW					SEP 0.265 SEP 0.099
PATTERN LENGTH FACTOR				0.000	
PROFILE MISMATCH FACTOR-KP				0.000	
ROUGHING RADIAL				6.388"	
INPUT DATA				T2DS	

ALL DIMENSIONS ARE METRIC UNLESS OTHERWISE SPECIFIED