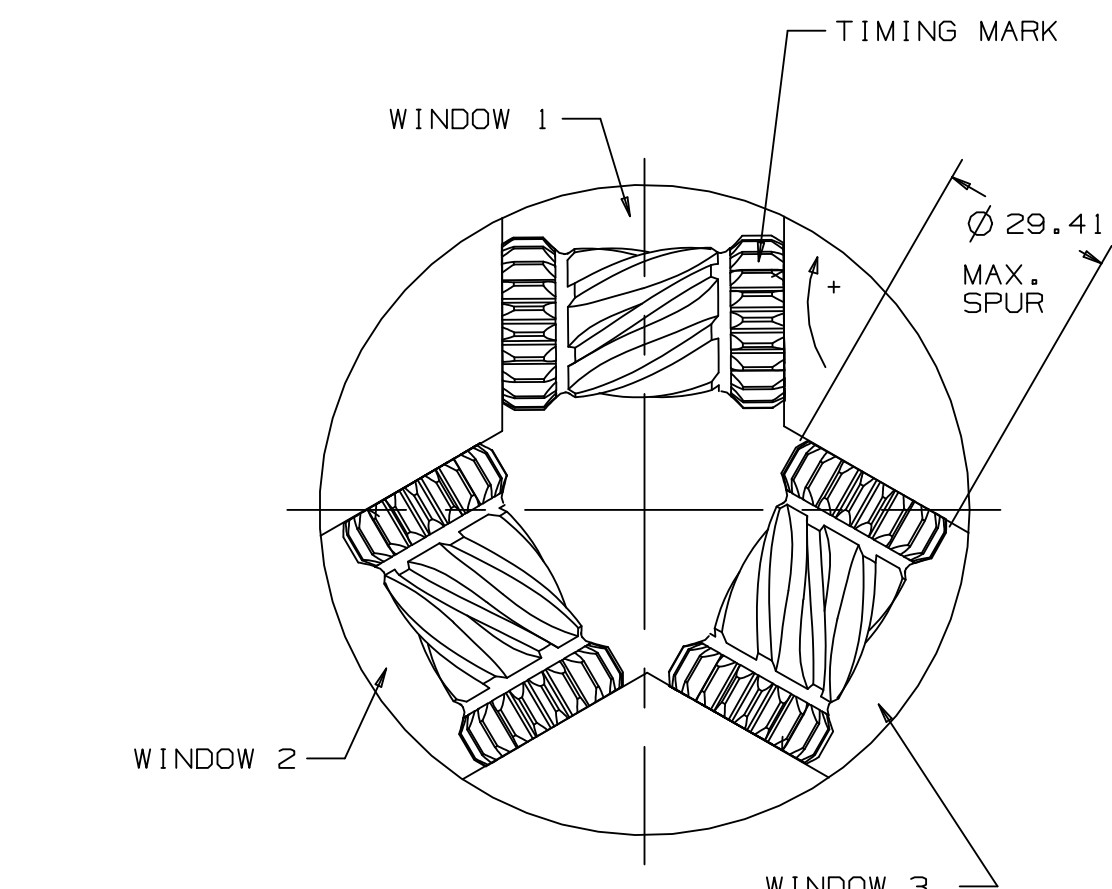
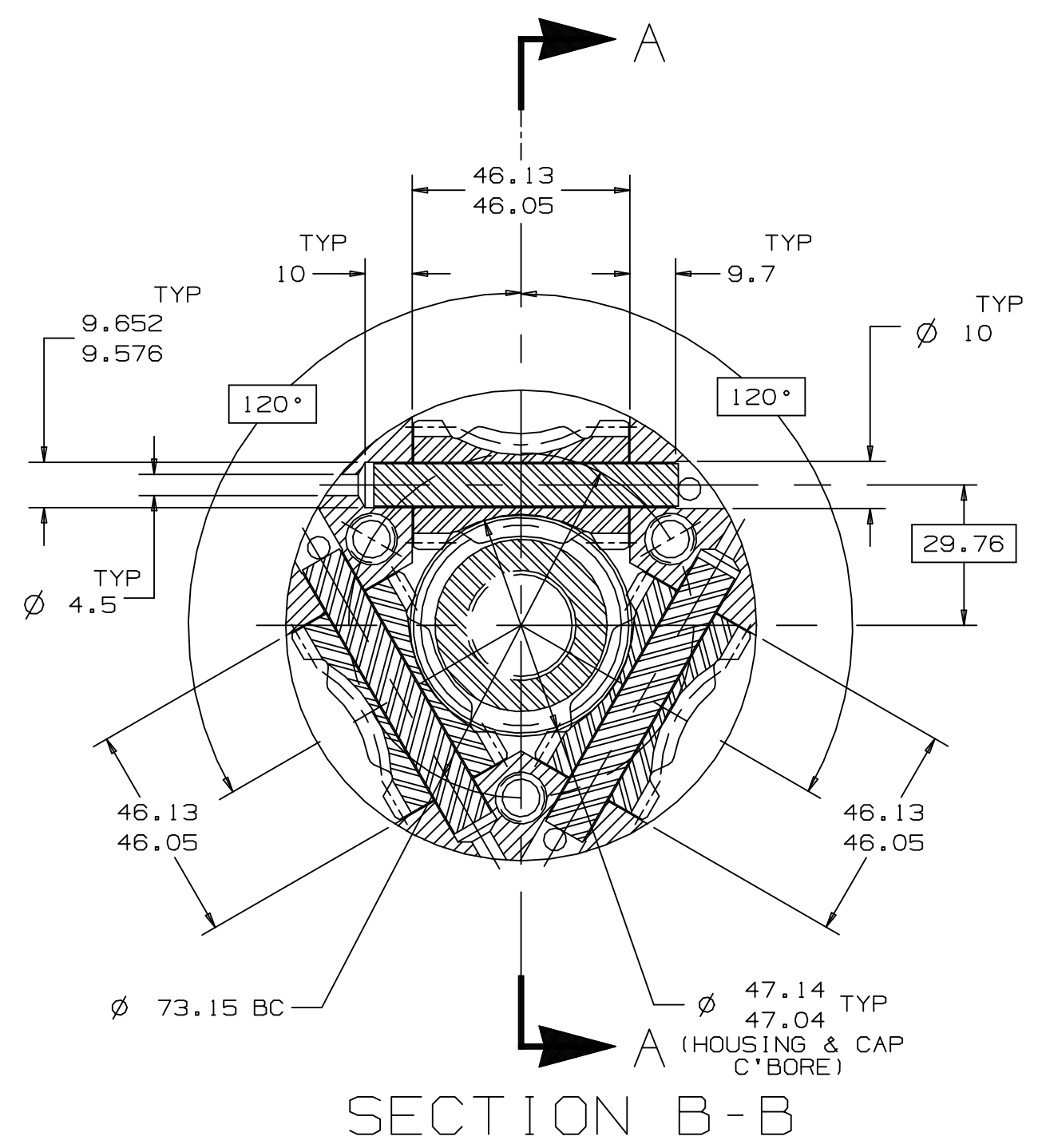
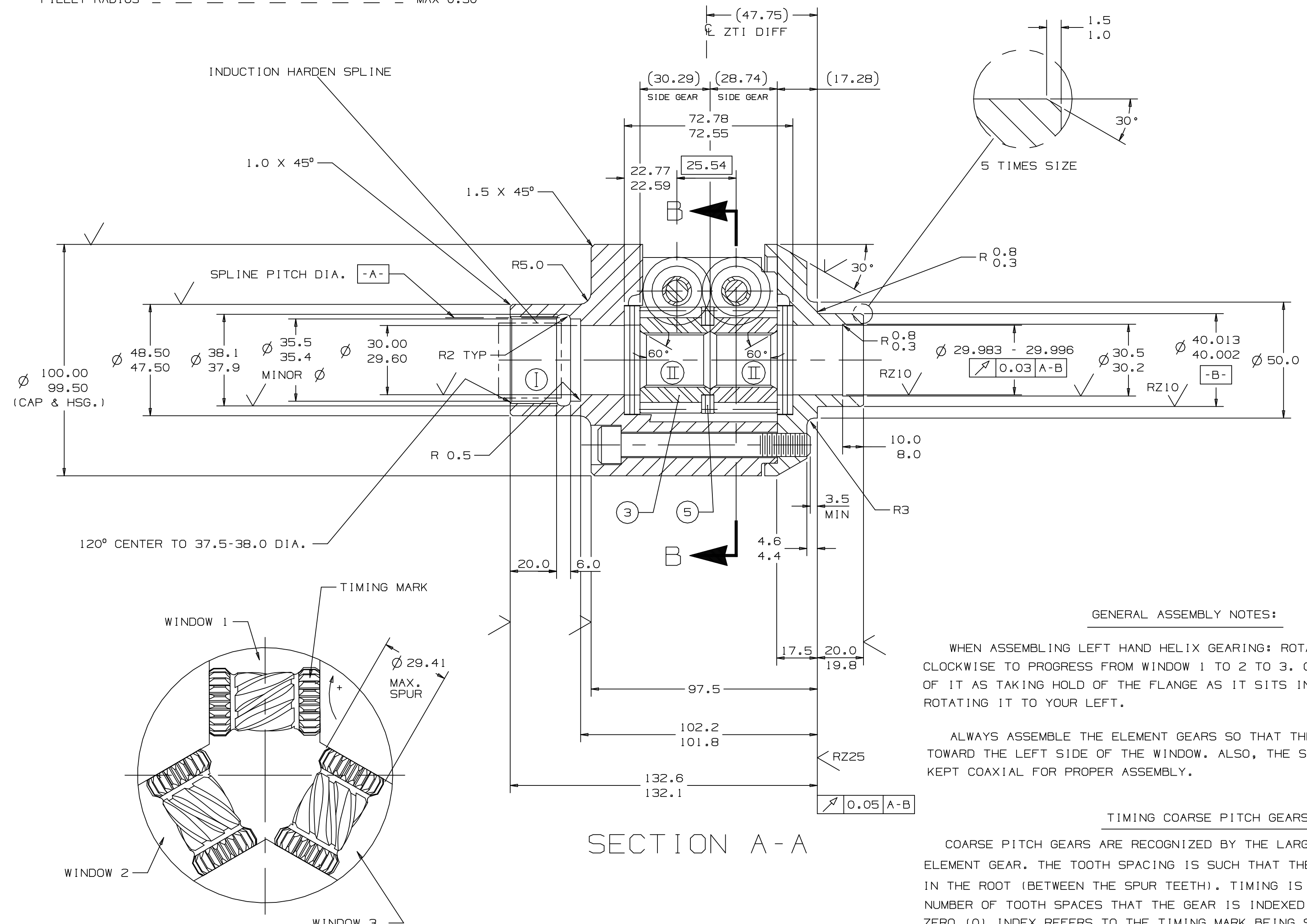


① INTERNAL INVOLUTE SPLINE DATA  
(ZTI SPLINE SPEC #SS146-0793-1)

NUMBER OF TEETH	46
MODULE	0.79375
PRESSURE ANGLE	30°
PITCH DIAMETER	(36.5125)
BASE DIAMETER	(31.6208)
ADDENDUM MODIFICATION COEFFICIENT XM	-0.1549
PROFILE TEST RANGE	7.96-9.51
FLANK FORM ERROR (INVOLUTE)	0.020
FLANK ROUGHNESS R <sub>T</sub>	0.015
LEAD ERROR	0.060/100
WAVINESS IN DIRECTION OF FLANKS	0.025
DIFF. BETWEEN ADJACENT PITCHES	0.014
CUMULATIVE PITCH ERROR	0.037
CIRCULAR SPACE WIDTH ACTUAL	1.105-1.143
OVALNESS	0.040
DIAMETER BETWEEN 2 PINS	34.189-34.259
PIN DIAMETER	1.40
CIRCULAR BACKLASH IN RELATION TO THE REFERENCE CIRCLE	0.0-0.010
MAJOR DIAMETER	37.31-37.55
FILLET RADIUS	MAX 0.50

② INTERNAL STRAIGHT SIDED SPLINE DATA  
(ZTI SPLINE SPEC #SS528-0793-1)

NUMBER OF TEETH	28
MODULE	0.79375
SPACE WIDTH ANGLE	68°
PITCH DIAMETER	(22.2250)
SPACE WIDTH EFFECTIVE MIN.	1.294
SPACE WIDTH ACTUAL	1.331-1.370
DIMENSION OVER 2 MEASURING PINS	19.896-19.753
PIN/BALL DIAMETER	1.60
MAJOR DIAMETER	23.300-23.400
FILLET RADIUS	MAX. 0.30
MINOR DIAMETER	21.600-21.700



SIZE 10 GEARING

1) PERFORMANCE RATING	278 FT. LBS.
2) SHORT DURATION	1078 FT. LBS.
3) ULTIMATE STRENGTH	2700 FT. LBS.

TIMING SIZE 10 GEARING

WINDOW	1	2	3
TOP	0	3	2.5
BOTTOM	0	3	.5

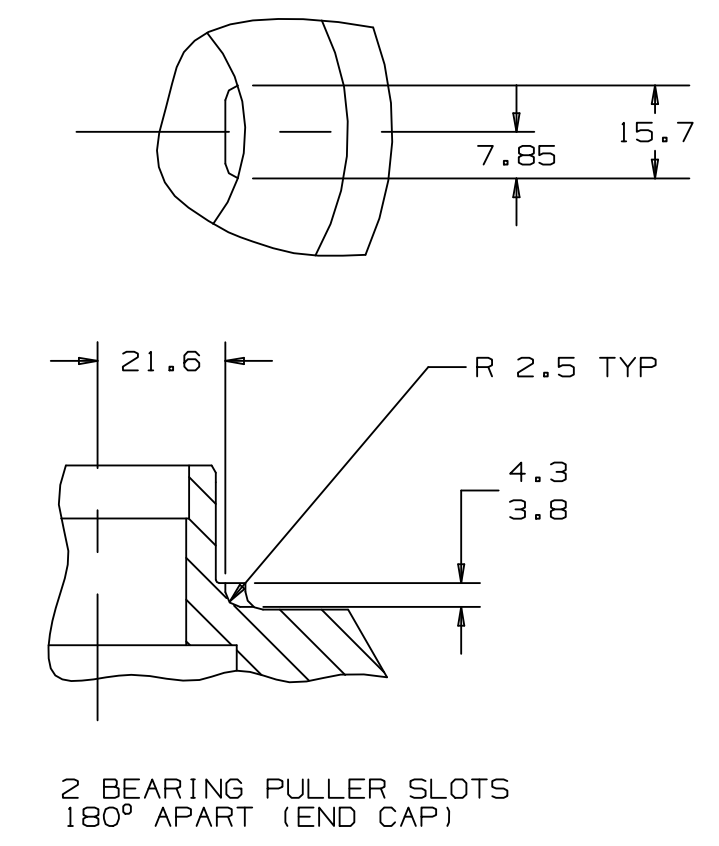
GENERAL ASSEMBLY NOTES:

WHEN ASSEMBLING LEFT HAND HELIX GEARING: ROTATE THE HOUSING CLOCKWISE TO PROGRESS FROM WINDOW 1 TO 2 TO 3. OR ONE CAN THINK OF IT AS TAKING HOLD OF THE FLANGE AS IT SITS IN FRONT OF YOU AND ROTATING IT TO YOUR LEFT.

ALWAYS ASSEMBLE THE ELEMENT GEARS SO THAT THE TIMING MARK IS TOWARD THE LEFT SIDE OF THE WINDOW. ALSO, THE SIDE GEARS MUST BE KEPT COAXIAL FOR PROPER ASSEMBLY.

TIMING COARSE PITCH GEARS:

COARSE PITCH GEARS ARE RECOGNIZED BY THE LARGE SPUR TEETH ON THE ELEMENT GEAR. THE TOOTH SPACING IS SUCH THAT THE TIMING MARK IS LOCATED IN THE ROOT (BETWEEN THE SPUR TEETH). TIMING IS GIVEN IN TERMS OF THE NUMBER OF TOOTH SPACES THAT THE GEAR IS INDEXED OUTWARD TOWARDS YOU. ZERO (0) INDEX REFERS TO THE TIMING MARK BEING STRAIGHT UP. UNLESS OTHERWISE STATED, THE SPUR GEAR HAVING THE TIMING MARK GOES AGAINST THE LEFT SIDE OF THE WINDOW.



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ECL	REVISION	DR	DATE
1	RELEASE	TM	31JAN90
2	ADDED DIMENSIONS TO CROSS SECTION	MD	19OCT95
	VIEW B-B		
	ADDED GENERAL ASSEMBLY NOTES		
	ADDED GEAR TIMING		
	MOVED DRAWING TO D FORMAT		

<http://www.torsen.com/>

ZEXEL TORSEN INC.  
ROCHESTER, N.Y.

FAX (585) 328-5477 TEL (585) 464-5000

MACHINED TOLERANCES UNLESS OTHERWISE SPECIFIED	THIRD ANGLE PROJECTION	SCALE
DIM. ARE IN MILLIMETERS		
UNTOL. DIMENSION ±5	APPROVAL	DATE
UNTOL. Δ DIM: 30 MINUTES	DR. BY T. MARTORANA	8 JAN90
FILLET AND RADIUS 1.5	DES.	
SURFACE ROUGHNESS 3.2	ENG. LSC	9 JAN90
BREAK SHARP EDGES	CHK. J. CILANO	9 JAN90
ANSI Y14.5M-1982		

MATERIAL SPEC: \_\_\_\_\_ GEAR SUMMARY SPEC: \_\_\_\_\_

ALTERNATE: \_\_\_\_\_ PROCESS SPEC: \_\_\_\_\_

HEAT TREAT SPEC: \_\_\_\_\_ CAST./BLANK NO.: \_\_\_\_\_

PART NAME: UNIVERSITY SPECIAL

PART NUMBER: MO21-DHU

DWG SIZE: D