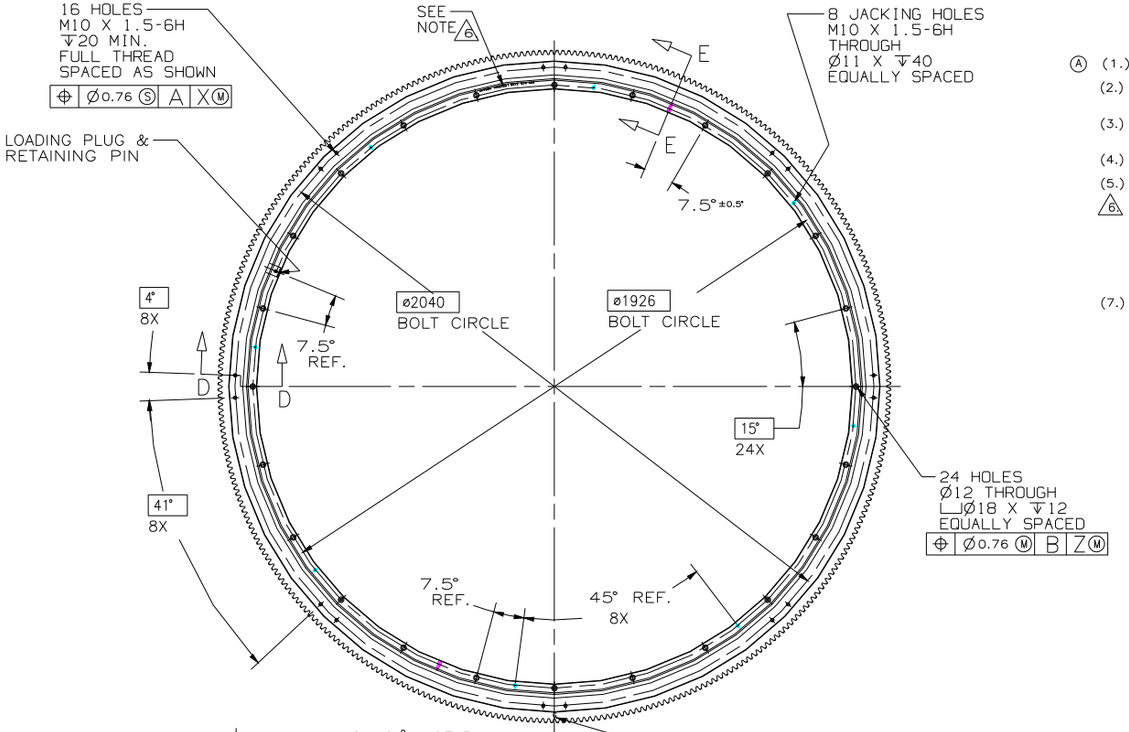
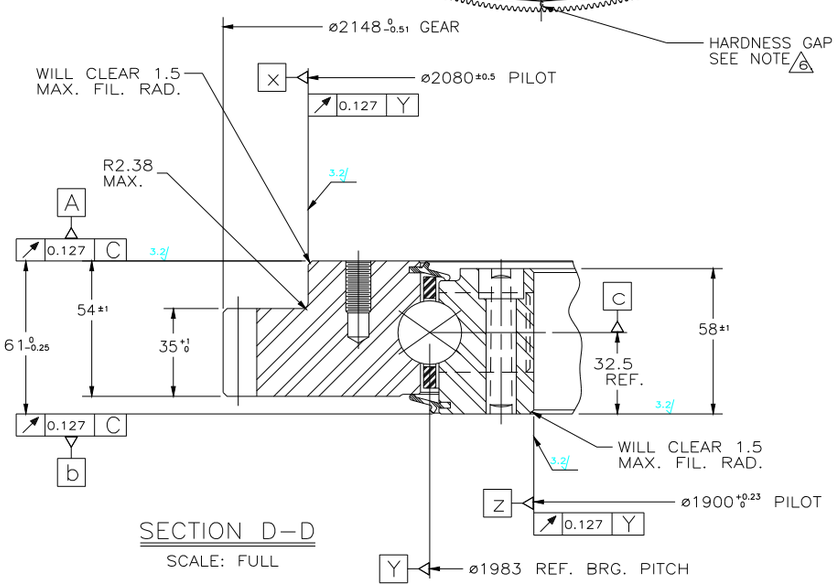
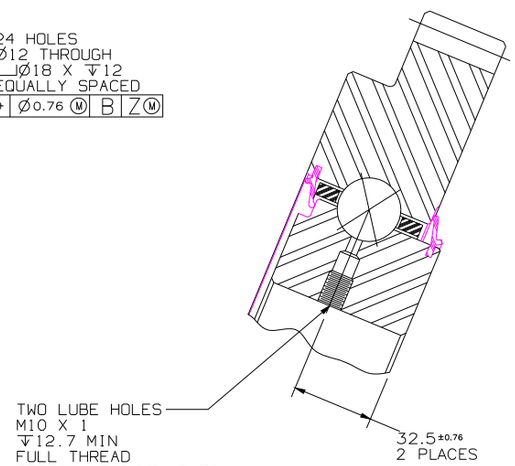




SECTION D–D

SCALE: FULL



SECTION E–E

SCALE: FULL

Ⓐ (1.)

(2.) SEALS ARE DESIGNED FOR LIGHT TO ZERO CONTACT AND ARE HELD IN PLACE BY MECHANICAL RETENTION ONLY (NO GLUE PERMITTED).

(3.) SEE KAYDON CATALOG FOR APPLICATION INFORMATION, METHOD OF LOAD ANALYSIS, INSTALLATION PROCEDURE, AND MAINTENANCE.

(4.) APPROXIMATE BEARING WEIGHT – 267 kg.

(5.) BEARING IS FILLED FULL WITH MOBILITH SHC 220 GREASE.

△6 MARKING –
ON TOP FACE OF INNER RACE –
"KAYDON 14684001", SERIAL NO., & DATE
ON BOTTOM FACE OF OUTER RACE –
"G" AT HARDNESS GAP
POINT OF MINIMUM GEAR BACKLASH WILL BE MARKED WITH YELLOW PAINT IN TOOTH SPACE

(7.) MATERIAL –
RACES--------AISI 4150H STEEL, CORE 248-302 BHN EXCEPT PATHS HRc 58 MIN. SURFACE
BALLS---------52100 STEEL
SEALS--------BUNA-N RUBBER
SEPARATORS---ACETAL STRIPS WITH CIRCULAR POCKETS

REVISIONS			
REV.	DESCRIPTION	DATE	BY/CHK
A	NOTE 1 WAS STARTING TORQUE REQUIREMENT	09-14-99	CHZ LML SDH

ALL DIMENSIONS ARE MILLIMETERS.

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SPECIFICATION DRAWING

KAYDON CUSTOM BEARINGS MUSKEGON, MICHIGAN USA

TITLE
4 POINT CONTACT
BALL RADIAL BEARING

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES AND APPLY AFTER SURFACE TREATMENT AND AT 68°F
INTERPRET DIM. AND TOL. PER ASME Y14.5M – 1994 EXCEPT RINGS SHOWN ARE CONSIDERED "NON-RIGID" PARTS. SIZES SPECIFIED ARE "AVERAGE DIAMETERS" UNLESS NOTED OTHERWISE
DO NOT SCALE DRAWING

TOLERANCES ARE AS FOLLOWS:
XX ± ---
XXX ± ---
ANGLES ± ---

THIRD ANGLE PROJECTION

DRAWN	CHZ	06-16-99
CHECK	LML	07-01-99
APPD.	SDH	07-01-99

SIZE D | DWG. NO. 14684001 | SCALE: 1/8 | CAD NO. 1468401S | SHEET 1 OF 1

SPUR GEAR DATA	
TOOTH FORM	MODULE INVOLUTE
PRESSURE ANGLE	20°
MODULE	6
PITCH DIAMETER	2136 REF.
NO. OF TEETH	356
ADDENDUM	6 REF.
WHOLE DEPTH	13.5 REF.
CIRC. TOOTH THICKNESS ON PITCH LINE	9.399/9.325
ALLOWANCE FOR BACKLASH	0.025/0.100
HARDNESS	248-302 BHN
AGMA QUALITY NO.	8 REF.

MATES WITH __ TOOTH PINION OF THE FOLLOWING DIM'S.
O.D. – WHOLE DEPTH –
CIRC. TOOTH THICKNESS ON PITCH LINE –
CENTER DISTANCE – ADJUSTABLE / FIXED
TRUE INVOLUTE FORM DIAMETER –

EUROPEAN INDUSTRIAL ENGINEERING S.r.l. | ADS S.R.L. International

DESIGN BY: Kaydon	DATE: 06-16-99	LARGE BINOCULAR TELESCOPE
DRAWN BY: Kaydon	DATE: 06-16-99	LBT Project Office/USA Steward Observatory, University of Arizona Tucson, AZ 85721 USA Ph. 1 520 621-1539 Fax. 1 520 621-9843
LST REV BY: Kaydon	DATE: 07-01-99	LBT Project Office/Italy Osservatorio Astrofisico di Arcetri Largo Enrico Fermi, 5, 50125 Firenze, ITALY Ph. 39 55 2752291 Fax. 39 55 2752292
CHECK BY: Kaydon	DATE: 07-01-99	Telescope Auxiliaries
ACCEPT BY:	DATE:	Instrument Rotator
RELEASE BY:	DATE:	Nasmith Rotator
		Nasmith Rotator Bearing – cable wrap
		4 Point contact ball radial bearing

SCALE:	LOCAL DWG. FILE:	CAN NO: 671x001	REV B
UNITS mm	FORM (D/A1) SCALED BY: 1:1	PREFER PLOT SIZE: D/A1 PEN OR A/A4 LASER	

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