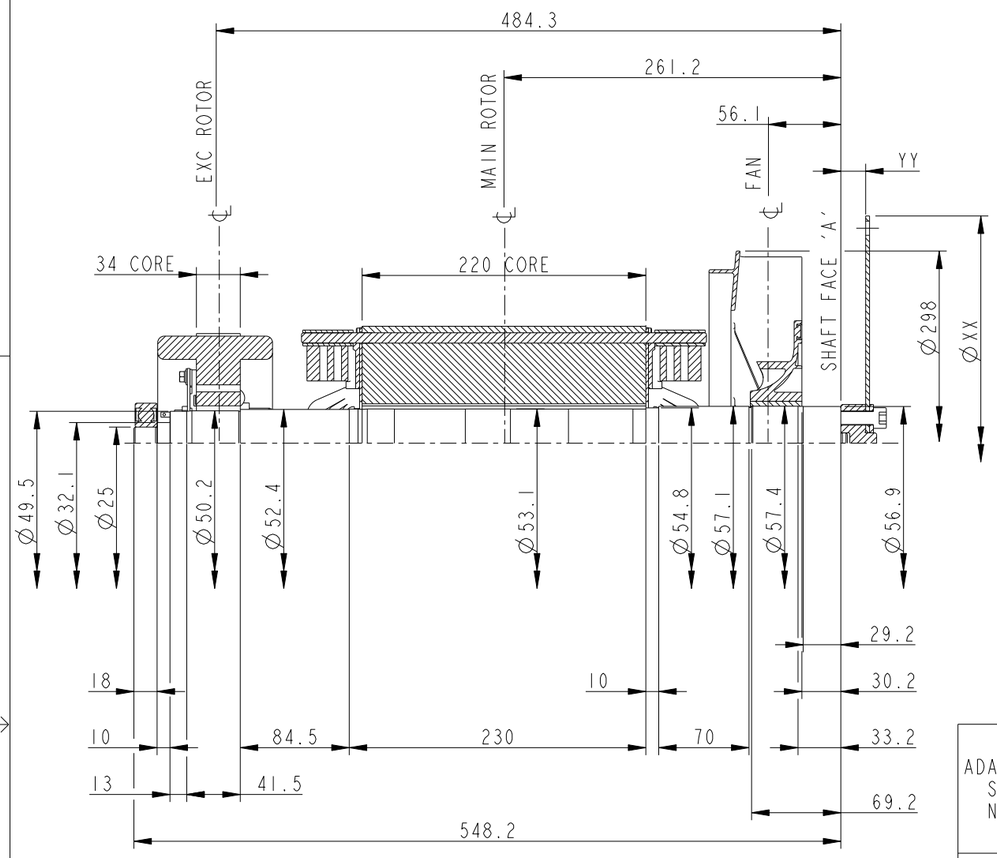
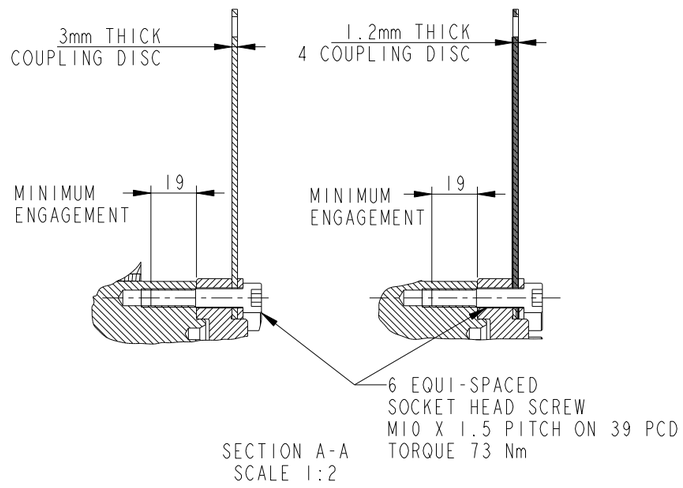
CREO PARAMETRIC

REL NO	REV	DETAIL	DWN	CKD	APVD	DATE
ECO-160793	C	PRODUCTION RELEASE	PS	UKD	S.JOSHI	21JUL16
		SEE ECO				





SECTION A-A
SCALE 1:2

NOTES:

1. SHAFT STIFFNESS:
   THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ℄ AND THE SHAFT FACE 'A' IS 2.8251 X 10^6 kgcm/radian (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)

2. SHAFT MATERIAL:
   STEEL - C40E TO BSEN 10083-2 2006
   MAXIMUM RECOMMENDED VIBRATORY STRESS LEVEL IN THE SHAFT IS 34.47 X 10^6 N/m^2 FOR SPEED RANGE OF 0.95 TO 1.1 X NOMINAL SPEED AND 68.94 X 10^6 N/m^2 FOR RUN THROUGH CONDITIONS, FOR INDUSTRIAL MACHINES.

3. CUMMINS GENERATOR TECHNOLOGIES LTD SHOULD BE NOTIFIED OF ANY ROTORS NOT COMPLYING WITH THESE RULES.

4. CUMMINS GENERATOR TECHNOLOGIES LTD BALANCE ROTORS TO COMPLY WITH INTERNATIONAL STD BS ISO 1940 PARTS 1 AND 2. BALANCE GRADE 2.5

5. FOR UNBALANCED MAGNETIC PULL (U.M.P.) REFER BACK TO THE FACTORY

ADAPTOR SAE No.	COUPLING SAE No.	COUPLING DIMENSIONS ØXX mm	COUPLING DIMENSIONS YY mm	MASS OF DISCS (kg) (1 X 3mm THICK)	MASS OF DISCS (kg) (4 X 1.2mm THICK)	MASS OF SHAFT SPACER (kg)	MASS OF PRESSURE PLATE (kg)	TOTAL MASS OF COUPLING ASSEMBLY (kg)	COUPLING STIFFNESS (kgcm/rad)	COUPLING DISC WR^2 (kgm^2)
4/5	6 1/2	215.8	9.8	0.835	-	0.175	0.048	1.058	12.00 X 10^6	0.0049
4/5	7 1/2	241.2	9.8	1.047	-	0.175	0.048	1.270	11.90 X 10^6	0.0077
3/4	10	314.2	33.4	1.790	-	0.592	0.048	2.431	11.71 X 10^6	0.0221
3	11 1/2	352.3	19.2	2.260	-	0.341	0.048	2.650	11.66 X 10^6	0.0351
3	11 1/2	352.3	17.6	-	3.616	0.309	0.048	3.973	18.70 X 10^6	0.0562

CONVERSION FACTORS		
TO CONVERT	TO	DIVIDE BY
kg	lb	0.453592
kg m^2	lb ft^2	0.04214
kgcm/rad	lbin/rad	1.1521246
N/m^2	lbf/in^2	6894.76

COMPONENT	Wt Kg	WR^2 Kgm^2
FAN	0.797	0.0069
SHAFT	9.294	0.0033
MAIN ROTOR	35.678	0.1480
EXCITER ROTOR	5.85	0.0270
TOTAL	51.619	0.1852

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS

DIM: X ± 1; X.X ± 0.1; X.XX± 0.01

HOLE: 0.00- 4.99 +0.15/-0.08; 5.00- 9.99 +0.20/-0.10; 10.00-17.49 +0.25/-0.13; 17.50-24.99 +0.30/-0.13

ANG TOL: ± 0.5° SCALE: 1:4

SIM TO -

DO NOT SCALE PRINT

- CONFIDENTIAL -
PROPERTY OF CUMMINS GENERATOR TECHNOLOGIES

DWN S.PRABHA
CKD U.DAGWALE
APVD S.JOSHI
DATE 22JUL15

FOR INTERPRETATION OF DIMENSIONING AND TOLERANCING, SEE ASME Y14.5M-1994

FIRST USED ON FORTUNA

SITE CODE PUN

CUMMINS GENERATOR TECHNOLOGIES

DRAWING, TORSIONAL
SOL2-U1 4P

DWG SIZE A2 A053H183 SHEET 1 REV C