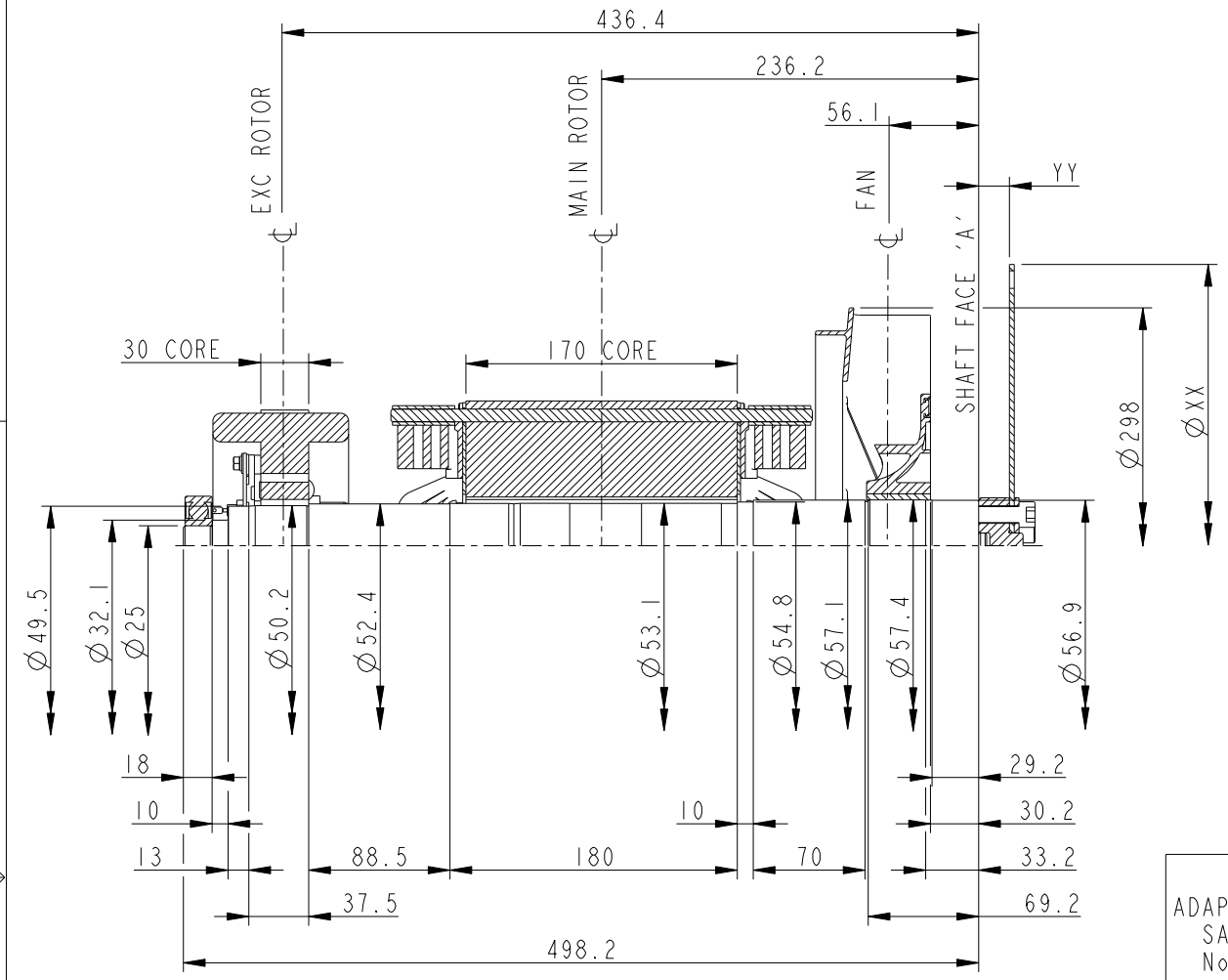


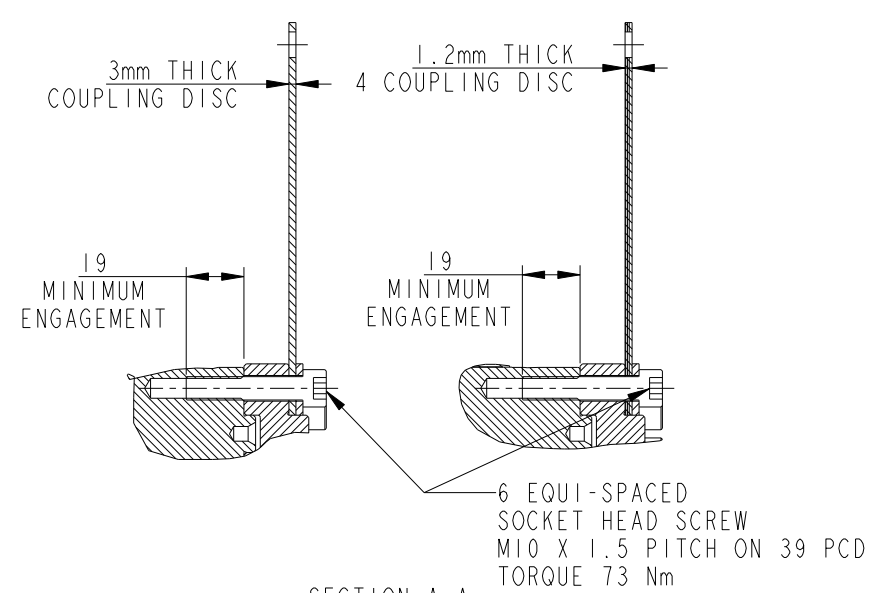
REL NO	REV	DETAIL	DWN	CKD	APVD	DATE
ECO-160793	D	PRODUCTION RELEASE	PS	UKD	S. JOSHI	21 JUL 16
SEE ECO						

NOTES:

- SHAFT STIFFNESS:
THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ϕ AND THE SHAFT FACE 'A' IS 3.1809×10^6 kgcm/radian (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)
- SHAFT MATERIAL:
STEEL - C40E TO BSEN 10083-2 2006
MAXIMUM RECOMMENDED VIBRATORY STRESS LEVEL IN THE SHAFT IS 34.47×10^6 N/m² FOR SPEED RANGE OF 0.95 TO 1.1 X NOMINAL SPEED AND 68.94×10^6 N/m² FOR RUN THROUGH CONDITIONS, FOR INDUSTRIAL MACHINES.
- CUMMINS GENERATOR TECHNOLOGIES LTD SHOULD BE NOTIFIED OF ANY ROTORS NOT COMPLYING WITH THESE RULES.
- CUMMINS GENERATOR TECHNOLOGIES LTD BALANCE ROTORS TO COMPLY WITH INTERNATIONAL STD BS ISO 1940 PARTS 1 AND 2. BALANCE GRADE 2.5
- FOR UNBALANCED MAGNETIC PULL (U.M.P.) REFER BACK TO THE FACTORY



ADAPTOR SAE No.	COUPLING SAE No.	COUPLING DIMENSIONS		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)
		ϕ XX mm	YY mm							
4/5	6 1/2	215.8	9.88	0.835	-	0.175	0.048	1.058	12.00×10^6	0.0049
4/5	7 1/2	241.2	9.88	1.047	-	0.175	0.048	1.270	11.90×10^6	0.0077
3/4	10	314.2	33.47	1.790	-	0.592	0.048	2.431	11.71×10^6	0.0221
3	11 1/2	352.3	19.27	2.260	-	0.341	0.048	2.650	11.66×10^6	0.0351
3	11 1/2	352.3	17.47	-	3.616	0.309	0.048	3.973	18.70×10^6	0.0562



SECTION A-A
SCALE 1:2

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 Kg m ²
FAN	0.797	0.0069
SHAFT	8.436	0.0030
MAIN ROTOR	28.414	0.1258
EXCITER ROTOR	5.3	0.0231
TOTAL	42.947	0.1588

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS		SIM TO -		DWN S. PRABHA		CUMMINS GENERATOR TECHNOLOGIES											
DO NOT SCALE PRINT				CKD U. DAGWALE													
<table border="1"> <tr> <th>DIM</th> <th>HOLE</th> </tr> <tr> <td>X ± 1</td> <td>0.00-4.99 +0.15/-0.08</td> </tr> <tr> <td>X.X ± 0.1</td> <td>5.00-9.99 +0.20/-0.10</td> </tr> <tr> <td>X.XX ± 0.01</td> <td>10.00-17.99 +0.25/-0.13</td> </tr> <tr> <td></td> <td>17.50-24.99 +0.30/-0.13</td> </tr> </table>		DIM	HOLE	X ± 1	0.00-4.99 +0.15/-0.08	X.X ± 0.1	5.00-9.99 +0.20/-0.10	X.XX ± 0.01	10.00-17.99 +0.25/-0.13		17.50-24.99 +0.30/-0.13			APVD S. JOSHI		DRAWING, TORSIONAL	
DIM	HOLE																
X ± 1	0.00-4.99 +0.15/-0.08																
X.X ± 0.1	5.00-9.99 +0.20/-0.10																
X.XX ± 0.01	10.00-17.99 +0.25/-0.13																
	17.50-24.99 +0.30/-0.13																
ANG TOL: ± 0.5°		SCALE: 1:4		DATE 05JUN15		SOL2-M1 4P											
PROPERTY OF CUMMINS GENERATOR TECHNOLOGIES		FIRST USED ON FORTUNA		SITE CODE PUN		SHEET I											
				DWG SIZE A2		REV D											