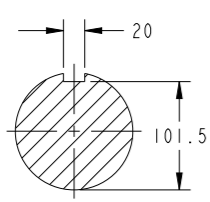
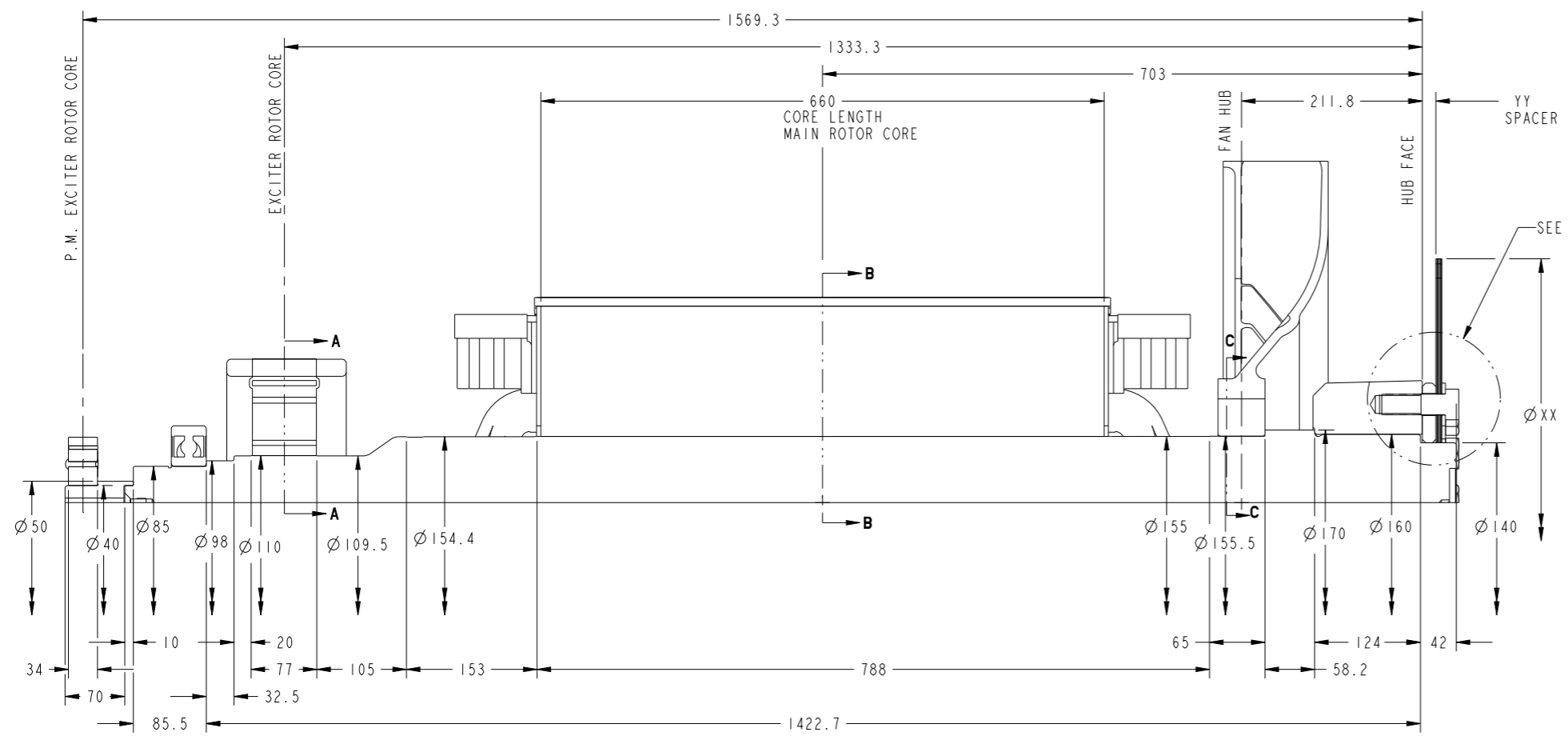


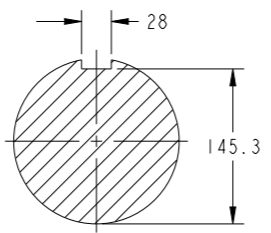
REL NO	REV	NO	REVISION	DWN	CKD	APVD	DATE
ECO-170162	B	1	ZONE D2, DIM 211.8 WAS 207 & DIM 703 WAS 723	KP	SK	I.SAUNDATTI	12JUN17
		2	ZONE C2, DIM 58.2 WAS 53.2	KP	SK	I.SAUNDATTI	12JUN17
		3	ZONE D3, DIM 660 WAS 700	KP	SK	I.SAUNDATTI	12JUN17
		4	ZONE C3, DIM 788 WAS 793	KP	SK	I.SAUNDATTI	12JUN17
		5	SEE ECO FOR CHANGES	KP	SK	I.SAUNDATTI	12JUN17

NOTES:

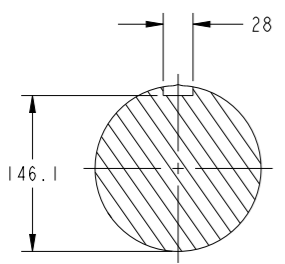
- SHAFT STIFFNESS:-  
THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE C AND THE COUPLING HUB FACE IS  $1.366 \times 10^8$  kgcm/radian (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)
- SHAFT MATERIAL:-  
STEEL - C40E TO BSEN 10083-2 2006 (APPROVED BY MARINE AUTHORITIES WHEN APPROPRIATE) MAXIMUM RECOMMENDED VIBRATORY STRESS LEVEL IN THE SHAFT IS  $34.47 \times 10^6$  N/m<sup>2</sup> FOR SPEED RANGE OF 0.95 TO 1.1 X NOMINAL SPEED AND  $68.94 \times 10^6$  N/m<sup>2</sup> FOR RUN THROUGH CONDITIONS, FOR INDUSTRIAL MACHINES FOR MARINE AUTHORITIES, THEIR APPROPRIATE RULES WILL APPLY
- 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 TO THE FACTORY



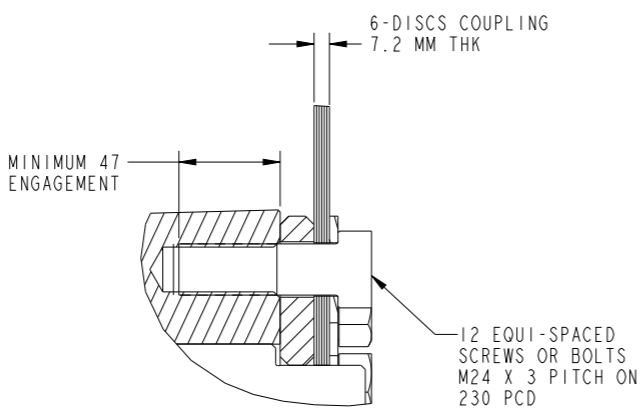
SECTION A-A



SECTION B-B



SECTION C-C



DETAIL A  
SCALE 0.600

SECTION THRU' SHAFT  
END AND COUPLING  
SCREWS OR BOLTS

COMPONENT	Wt Kg	WR <sup>2</sup> (KGM <sup>2</sup> )
EX. ROTOR	44.02	0.6644
MAIN ROTOR	790	24.458
FAN	35.98	2.340
SHAFT	205	0.5877
HUB	36.3	0.4756
P.M. EXCITER ROTOR	4	0.011
P.M. STUB SHAFT	0.859	0.0003
TOTAL	1116.16	28.237

COUPLING SAE NO	COUPLING DIMENSIONS		COUPLING DISC WEIGHT KG	COUPLING SPACER WEIGHT KG	COUPLING ASSEMBLY WEIGHT KG	COUPLING STIFFNESS 6-PLATES kgcm/rad	COUPLING DISC WR <sup>2</sup> kg m <sup>2</sup>
	XX	YY					
18	571.412	15.88	2.20	4.78	23.38	$12.113 \times 10^8$	0.535
21	673	00	3.125	-	23.23	$11.407 \times 10^8$	1.053

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

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS		SHEET NO.		DWN R_HANABAR			CUMMINS GENERATOR TECHNOLOGIES	
DO NOT SCALE PRINT		SHEET NO.		CKD S_KARMARKAR			DRAWING, TORSIONAL	
DIM	X ± 0.25	0.00-4.99 +0.15/-0.08		APVD I_SAUNDATTI		SITE CODE S6L1D-H, 1 BRG		
	.X ±	5.00-9.99 +0.20/-0.10		DATE 27FEB17		DWG SIZE A1		
	.XX ±	10.00-17.99 +0.25/-0.13		SCALE 0.350		STA A057G660		
		17.50-24.99 +0.30/-0.13	THIS DOCUMENT (AND THE INFORMATION SHOWN THEREON) IS CONFIDENTIAL AND PROPRIETARY AND SHALL NOT BE DISCLOSED TO OTHERS IN HARD COPY OR ELECTRONIC FORM. REPRODUCED BY ANY MEANS, OR USED FOR ANY PURPOSE WITHOUT WRITTEN CONSENT OF CUMMINS INC.		FIRST USED ON S6		CAD SHEET 1 of 1	