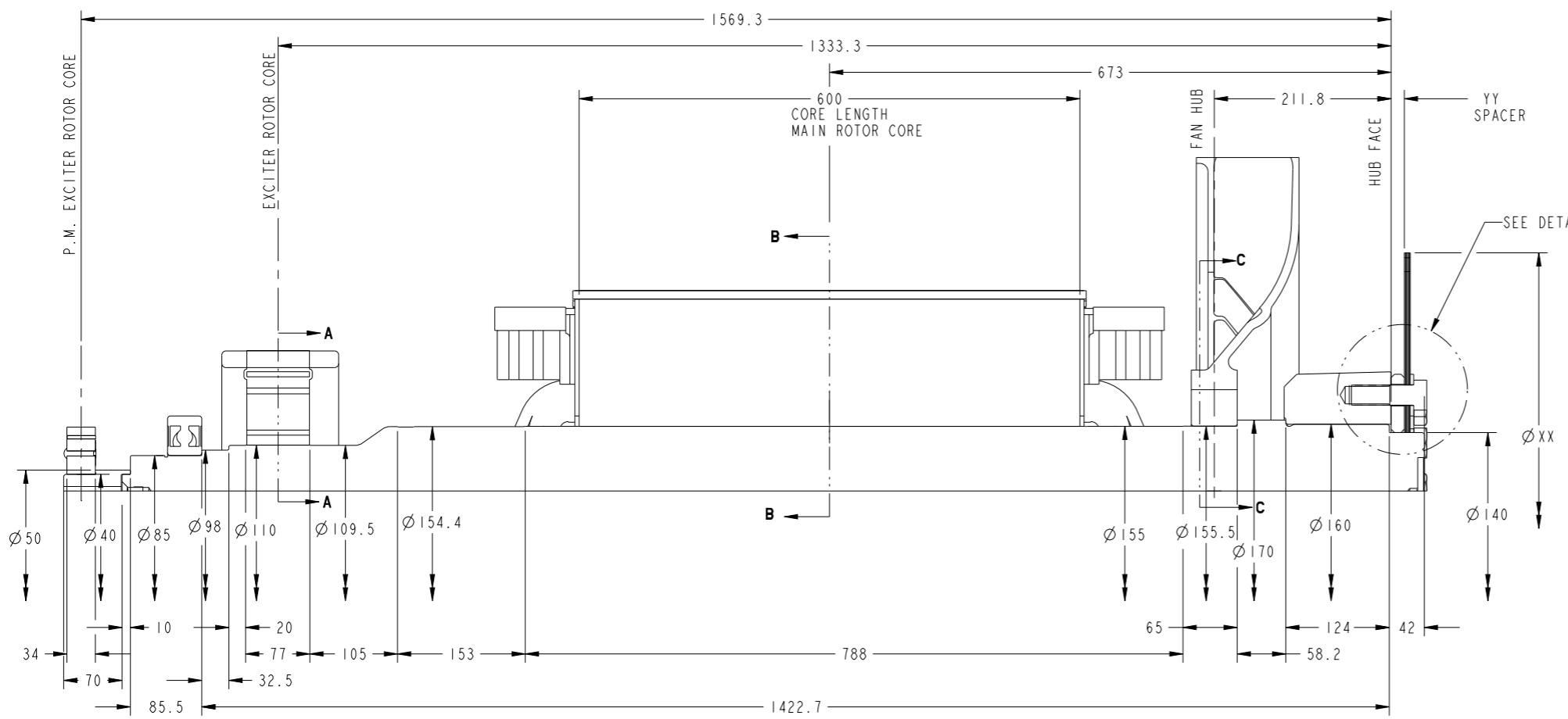
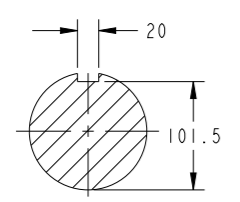


REL NO	REV	NO	REVISION	DWN	CKD	APVD	DATE
ECO-170162	B	1	ZONE D2, DIM 211.8 WAS 207 & DIM 673 WAS 693	KP	SK	I.SAUNDATTI	12 JUN 17
		2	ZONE C2 & C3, DIM 58.2 WAS 53.2, DIM 788 WAS 793	KP	SK	I.SAUNDATTI	12 JUN 17
		3	ZONE D3, DIM 600 WAS 640	KP	SK	I.SAUNDATTI	12 JUN 17
		4	ZONE B2, SHAFT WEIGHT 205 WAS 204.22	KP	SK	I.SAUNDATTI	12 JUN 17
		5	SEE ECO FOR CHANGES	KP	SK	I.SAUNDATTI	12 JUN 17

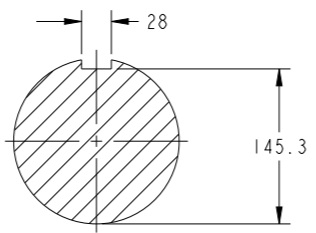


NOTES:

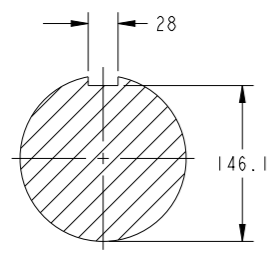
- SHAFT STIFFNESS:-  
THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE C AND THE COUPLING HUB FACE IS  $1.366 \times 10^8$  kgcm/radian (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)
- SHAFT MATERIAL:-  
STEEL - C40E TO BSEN 10083-2 2006 (APPROVED BY MARINE AUTHORITIES WHEN 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



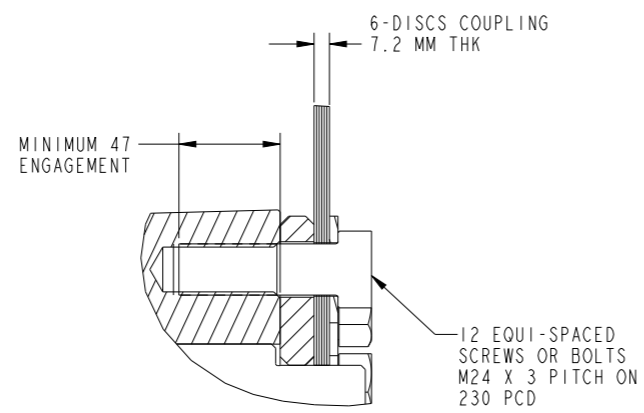
SECTION A-A



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	723	22.566
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	1049.16	26.645

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		SIM TO	DWN R_HANABAR		CUMMINS GENERATOR TECHNOLOGIES	
DO NOT SCALE PRINT		CKD S_KARMARKAR	APVD I_SAUNDATTI		DRAWING, TORSIONAL	
DIM	X ± 0.25	0.00-4.99 +0.15/-0.08	DATE 27FEB17	SITE CODE	S6L1D-G, 1 BRG	CAD SHEET 1 of 1
	.X ±	5.00-9.99 +0.20/-0.10				
	.XX ±	10.00-17.99 +0.25/-0.13				
		17.50-24.99 +0.30/-0.13				
ANG	± 1.0°		SCALE 0.350	STA	A057G567	
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