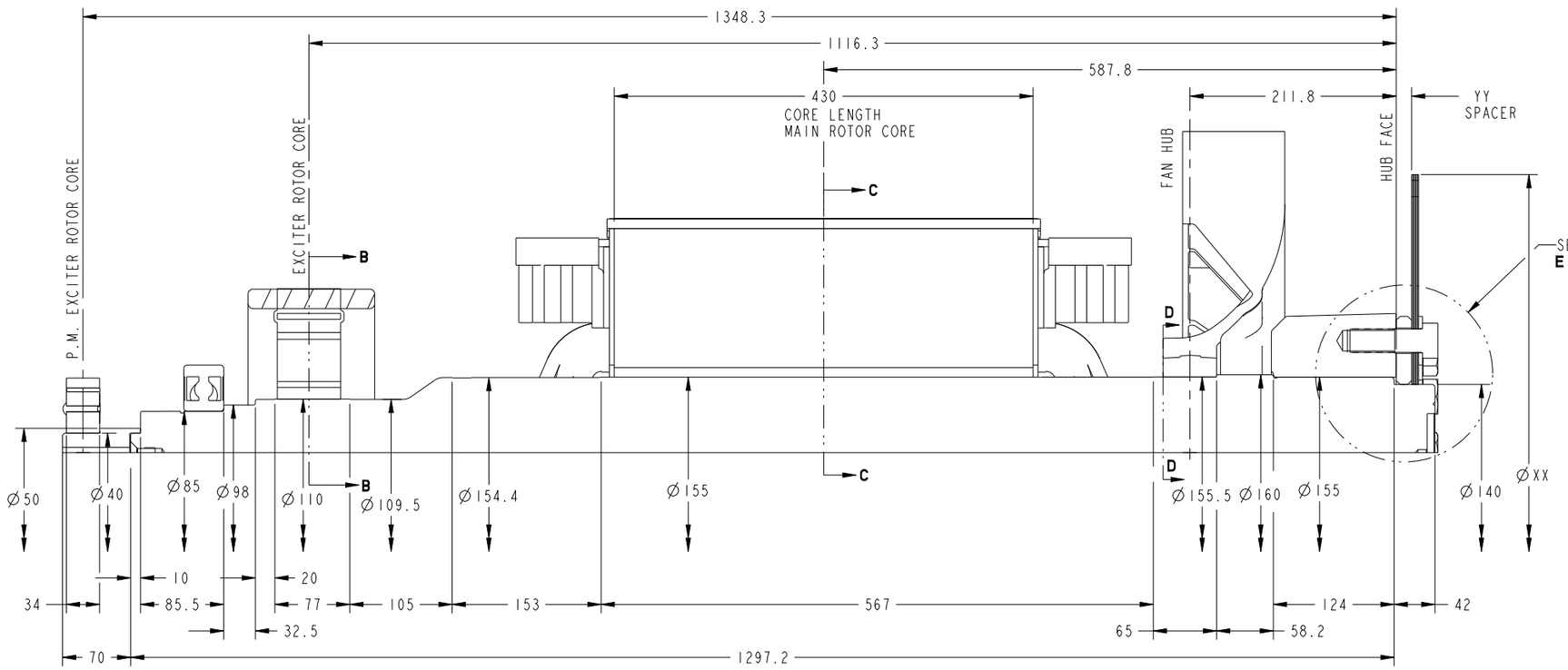
PTC® Creo® Parametric

REL NO	REV	NO	REVISION	DWN	CKD	APVD	DATE
ECO-170162	B	1	ZONE D2, DIM 211.8 WAS 207	KP	SK	I_SAUNDATTI	12JUN17
		2	ZONE B2 & B3, SHAFT WEIGHT 170.3 WAS 169.7, WR^2 0.4769 WAS 0.4761	KP	SK	I_SAUNDATTI	12JUN17
		3	ZONE C2, DIM 58.2 WAS 53.2	KP	SK	I_SAUNDATTI	12JUN17
		4	ZONE C3, DIM 567 WAS 572	KP	SK	I_SAUNDATTI	12JUN17
		5	SEE ECO FOR CHANGES	KP	SK	I_SAUNDATTI	12JUN17



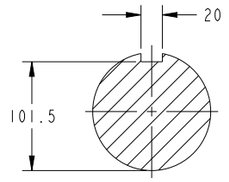
NOTES:

1. SHAFT STIFFNESS:-
   THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE C AND THE COUPLING HUB FACE IS 1.366×10^8 kgcm/radian (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)

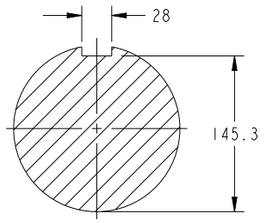
2. SHAFT MATERIAL:-
   STEEL - C40E TO BSEN 10083-2 2006 (APPROVED BY MARINE AUTHORITIES WHEN APPROPRIATE) MAXIMUM RECOMMENDED VIBRATORY STRESS LEVEL IN THE SHAFT IS 34.47 X 10 N/m^2 FOR SPEED RANGE OF 0.95 TO 1.1 X NOMINAL SPEED AND 68.94 X 10 N/m^2 FOR RUN THROUGH CONDITIONS, FOR INDUSTRIAL MACHINES.FOR MARINE AUTHORITIES, THEIR APPROPRIATE RULES WILL APPLY

3. 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

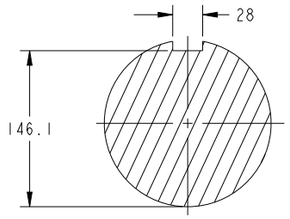
4. FOR UNBALANCED MAGNETIC PULL (U.M.P.) REFER TO THE FACTORY



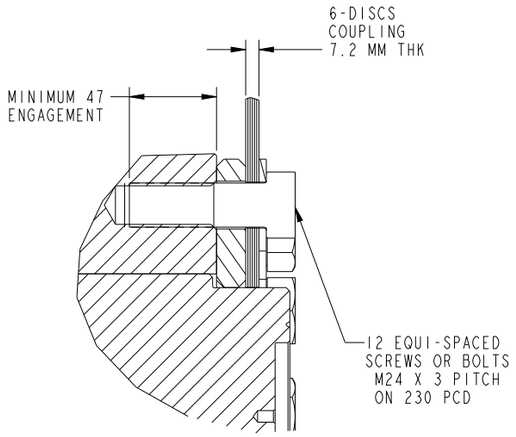
SECTION **B-B**



SECTION **C-C**



SECTION **D-D**



DETAIL **E**
SCALE 0.600

SECTION THRU' SHAFT END AND COUPLING SCREWS OR BOLTS

COMPONENT	Wt Kg	WR^2 (KGM^2)
EX. ROTOR	38.66	0.5785
MAIN ROTOR	529.92	16.59
FAN	19.03	0.8523
SHAFT	170.3	0.4769
HUB	37.45	0.4827
P.M. EXCITER ROTOR	4	0.011
P.M. STUB SHAFT	0.859	0.0003
TOTAL	800.22	18.99

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^2 $kg\ m^2$
	XX	YY					
14	467	25	1.39	7.76	21.75	13.956×10^8	0.265
18	571.412	15.88	2.20	4.78	23.38	12.113×10^8	0.535

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

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS
DIM: X ±0.25, .X ±-, .XX±-
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 ±1.0°
SCALE 0.350
SIM TO .
DO NOT SCALE PRINT

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FOR INTERPRETATION OF DIMENSIONING AND TOLERANCING, SEE ASME Y14.5-2009 — FIRST USED ON S6

DWN R_HANABAR
CKD S_KARMARKAR
APVD I_SAUNDATTI
DATE 24FEB17

CUMMINS GENERATOR TECHNOLOGIES
DRAWING, TORSIONAL
S6LID-D, 1 BRG
SITE CODE STA
DWG SIZE A1
A057G549
CAD SHEET 1 OF 1