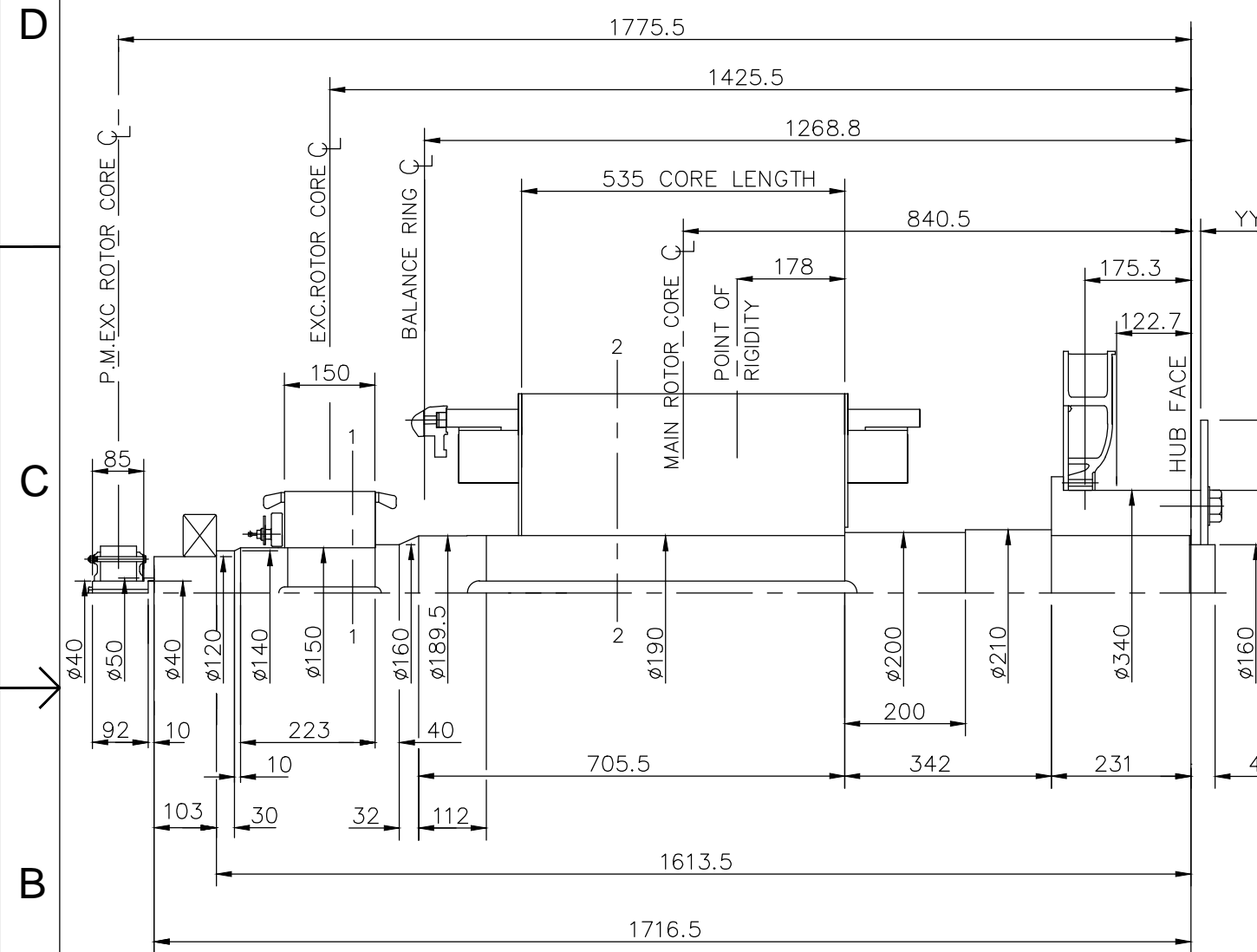


REL NO	REV	NO	REVISION	DWN	CKD	APVD	DATE
ECO-170607	D	1	LINE REMOVED. DRAWING BORDER UPDATED.	AS	AS	D.LEE	20JUN17



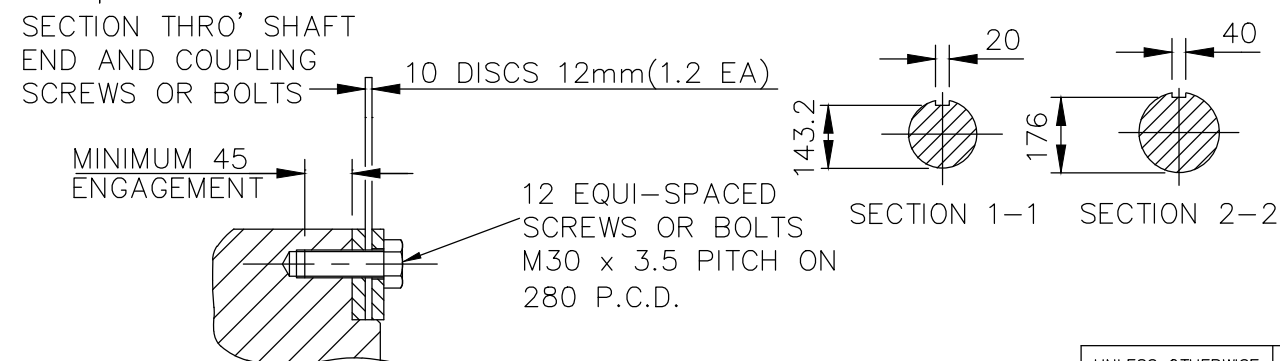
NOTES !

SHAFT STIFFNESS : -
 THE STIFFNESS OF THE SHAFT BETWEEN THE POINT OF RIGIDITY AND THE HUB FACE IS 22.68 MNm/Rad
 SHAFT MATERIAL: -
 STEEL - C40E+N TO BSEN 10083-2 2006 (APPROVED BY MARINE AUTHORITIES WHEN APPROPRIATE)
 MAXIMUM RECOMMENDED VIBRATORY STRESS LEVEL IN THE SHAFT IS $34.47 \times 10^6 \text{ N/m}^2$ FOR SPEED RANGE OF 0.95 TO 1.1 X NOMINAL SPEED AND $68.94 \times 10^6 \text{ N/m}^2$ 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.

COMPONENT	Mass Kg	mk ² kgm ²	CPLNG SAE No	COUPLING DIMEN's XX YY	CPLNG ASSY MASS kg	COUPLING STIFFNESS 10-PLATES Nm/rad	CPLNG DISC mk ² kg m ²
SHAFT	359.27	1.5803					
HUB	111.30	2.1472					
FAN	23.17	2.1497					
BALANCE RING DE			18	572 16	29.2	316.8×10^6	0.980
MAIN ROTOR	1244.34	73.1099	21	673 00	31.6	287.3×10^6	1.891
BALANCE RING NDE	24.45	1.8722	24	733 00	37.9	278.1×10^6	2.668
EX. ROTOR	85.55	1.391	24 SPL	733 28,5	50.2	278.1×10^6	2.688
P.M. ROTOR	6.97	0.019					
P.M.STUB SHAFT	0.93	0.0003					
TOTAL	1855.98	82.2696					



CONVERSION FACTORS		
TO CONVERT	TO	DIVIDE BY
kg	lb	0.453592
kg m ²	lb ft ²	0.04214
Nm/rad	lbf in/rad	0.1130
N/m ²	lbf/in ²	6894.76

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS	SIM TO N/A	DRAWN A.SHAWYER		CUMMINS GENERATOR TECHNOLOGIES		
	DO NOT SCALE PRINT	CHECKED A.SAVILL		DRAWING,ENGINEERING		
SCALE N/A		APPROVED M.HYATT	SITE CODE	MOMENTS OF INERTIA P80 1S		
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.	FOR INTERPRETATION OF DIMENSIONING AND TOLERANCING, SEE ASME Y14.5-2009	DATE 18SEP14		STA	DWG SIZE A3	L18-10557