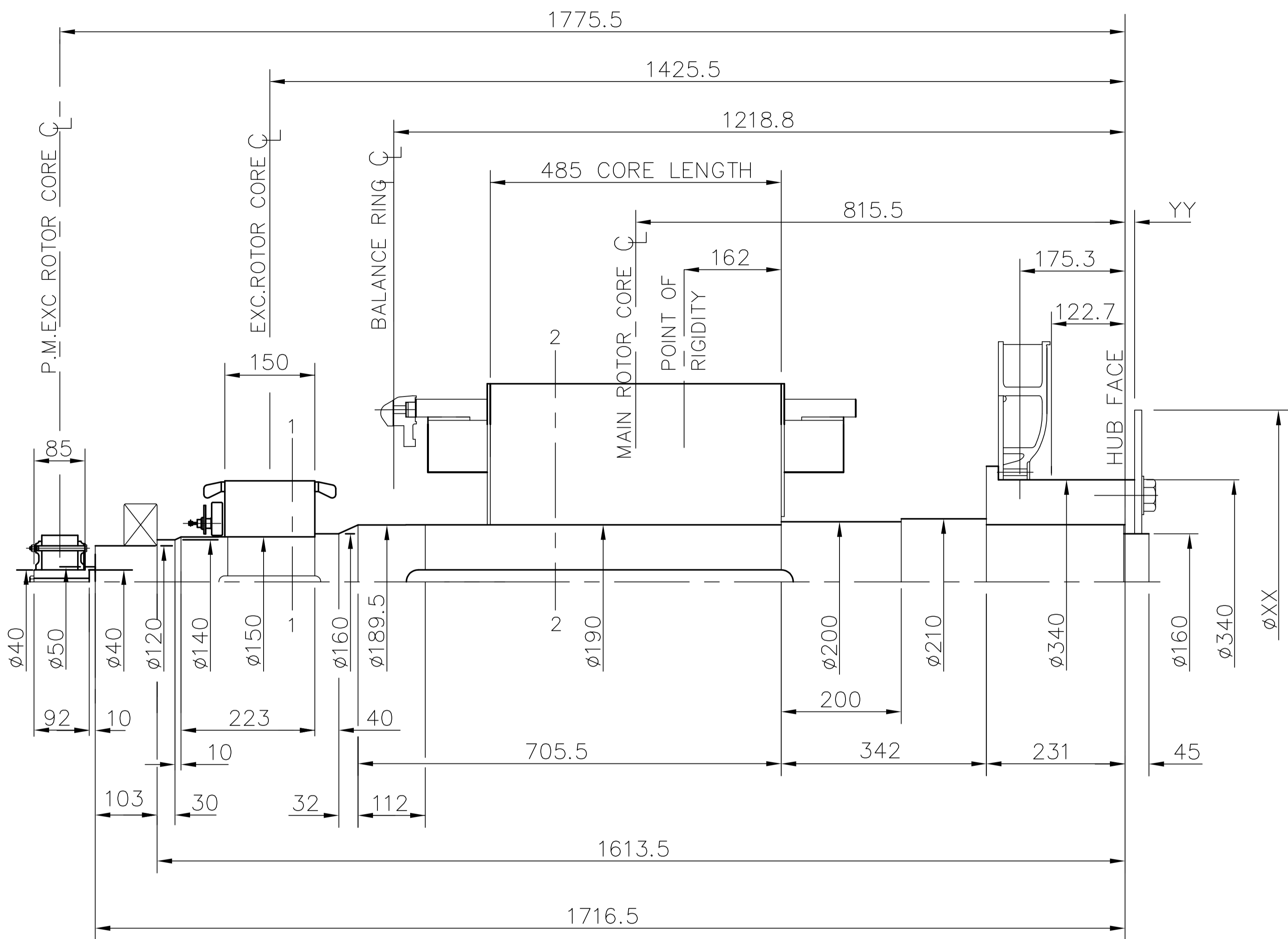


REL NO	REV	NO	REVISION	DWN	CKD	APVD	DATE
ECO-164711	E	1	DRAWING BORDER UPDATED	AS	AS	D.LEE	12SEP16



NOTES !

SHAFT STIFFNESS :-
 THE STIFFNESS OF THE SHAFT BETWEEN THE POINT OF RIGIDITY AND THE HUB FACE IS 23.50×10^6 Nm/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 34.47×10^6 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.
 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

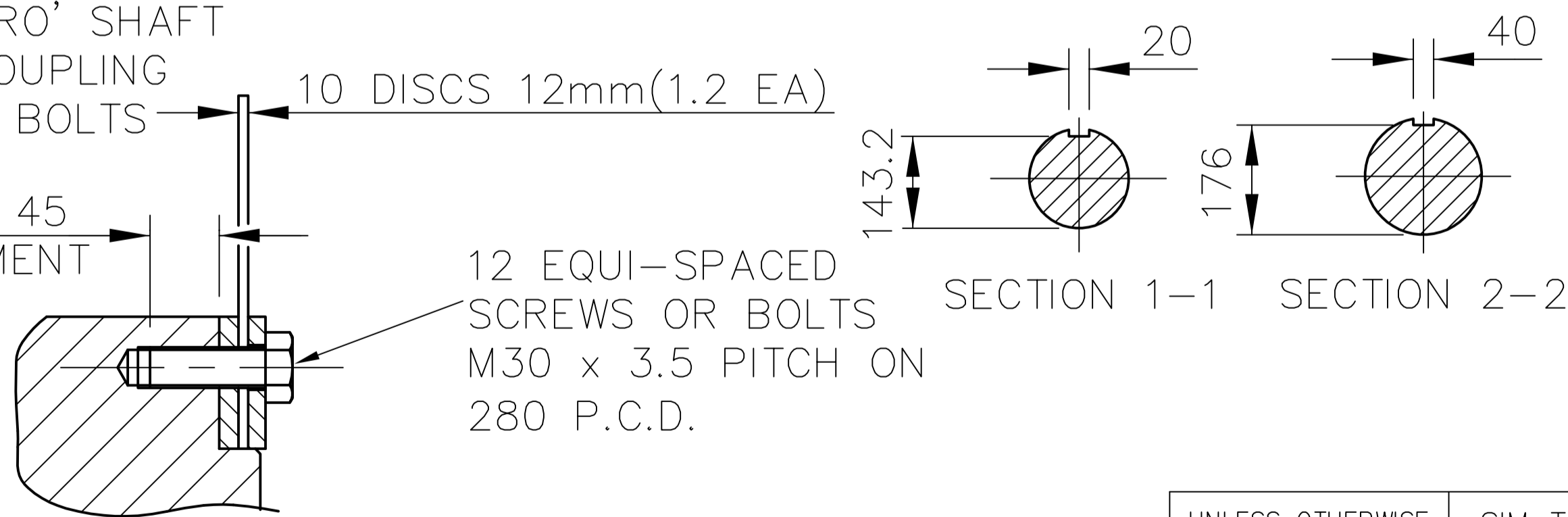
FOR UNBALANCED MAGNETIC PULL (U.M.P.) REFER TO THE FACTORY.

COMPONENT	Mass Kg	mk ² kgm ²
SHAFT	359.27	1.5803
HUB	111.30	2.1472
FAN	23.17	2.1497
BALANCE RING DE		
MAIN ROTOR	1141.47	67.1355
BALANCE RING NDE	24.45	1.8722
EX. ROTOR	85.55	1.391
P.M. ROTOR	6.97	0.019
P.M.STUB SHAFT	0.93	0.0003
TOTAL	1753.11	76.2952

CPLNG SAE No	COUPLING DIMEN's		CPLNG ASSY MASS kg	COUPLING STIFFNESS 10-PLATES Nm/rad	CPLNG DISC mk ² kg m ²
	XX	YY			
18	572	16	29.2	316.8×10^6	0.980
21	673	00	31.6	287.3×10^6	1.891
24	733	00	37.9	278.1×10^6	2.668
24 SPL	733	28,5	50.2	278.1×10^6	2.688

SECTION THRO' SHAFT END AND COUPLING SCREWS OR BOLTS

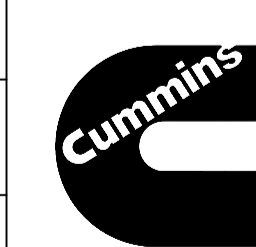
MINIMUM 45 ENGAGEMENT



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.SAVILL
	DO NOT SCALE PRINT	CHECKED A.SAVILL
SCALE NTS		APPROVED D.CANN
		DATE 07JUL04
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FIRST USED ON	STA
N/A	



CUMMINS GENERATOR TECHNOLOGIES

DRAWING, ENGINEERING

MOMENTS OF INERTIA P80 1R

DWG SIZE	L18-10556	CAD SHEET
A3		1 of 1