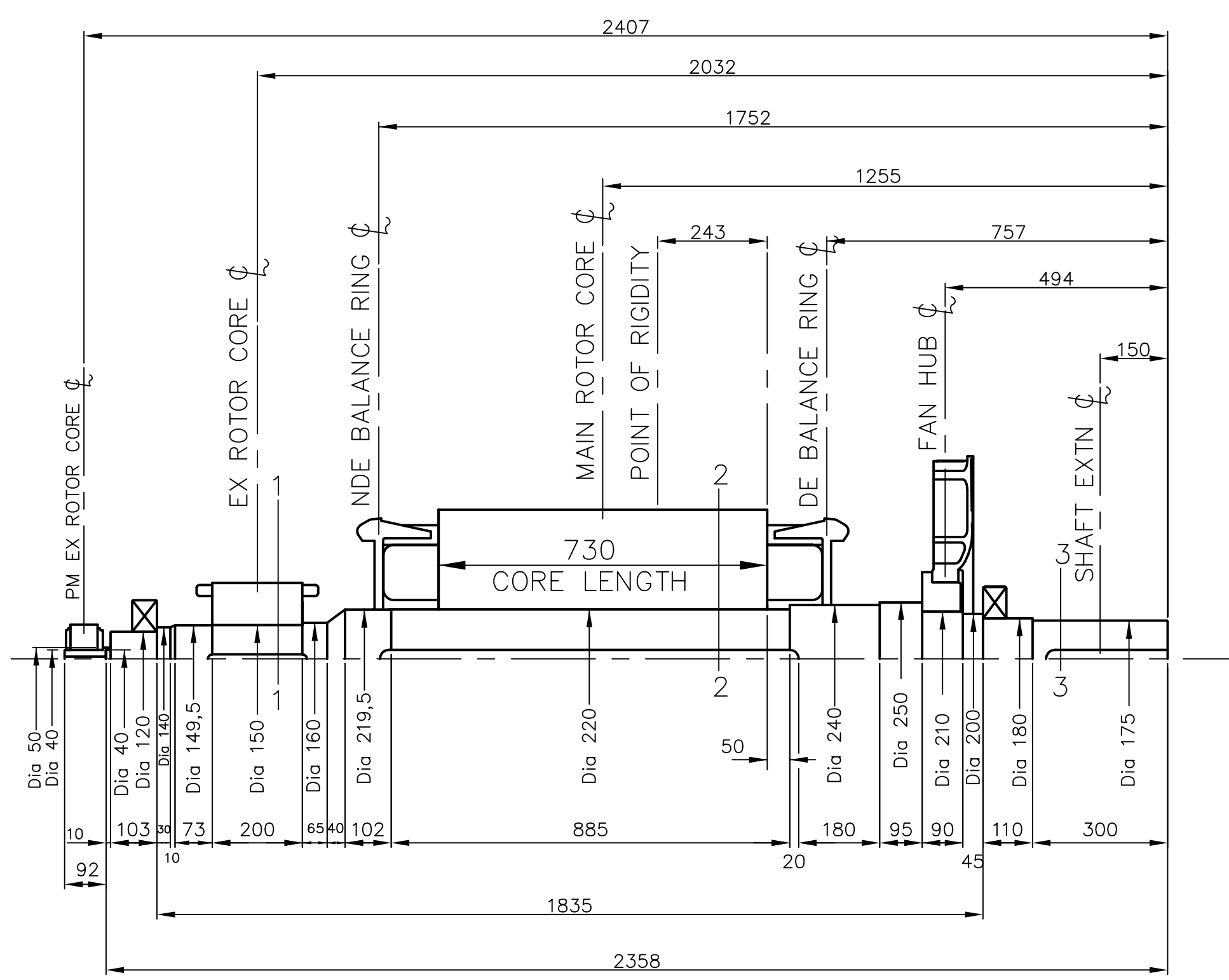


REL NO	REV	NO	REVISION	DWN	CKD	APVD	DATE
ECO-164866	D	1	DRAWING BORDER UPDATED	AS	AS	D.LEE	19SEP16



NOTES !

SHAFT STIFFNESS :-
 THE STIFFNESS OF THE SHAFT BETWEEN THE POINT OF RIGIDITY AND THE SHAFT EXTENSION ϕ IS 14.55×10^6 Nm/rad

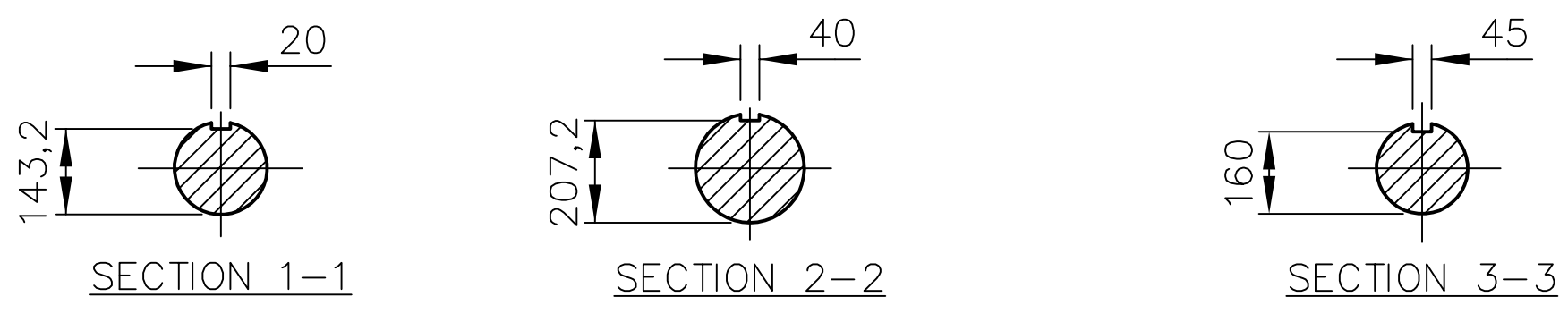
SHAFT MATERIAL:-
 STEEL - C40E TO BSEN 10083-2 2006 (APPROVED BY MARINE AUTHORITIES WHEN APPROPRIATE)
 MAXIMUM RECOMMENDED VIBRATORY STRESS LEVEL IN THE SHAFT IS 34.47×10^6 N/m² FOR SPEED RANGE OF 0.95 TO 1.1 X NOMINAL SPEED AND 68.94×10^6 N/m² FOR RUN THROUGH CONDITIONS, FOR INDUSTRIAL MACHINES.
 FOR 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. ISO 1940 GRADE 2.5 AND BS 6861 PART 1 GRADE 2.5.

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

COMPONENT	Mass(kg)	Mk ² (kgm ²)
SHAFT	582,8	3,272
FAN	31,33	3,0981
FAN HUB	41,64	0,886
DE BALANCE RING	31,28	2,43
MAIN ROTOR	1669,17	97,827
NDE BALANCE RING	31,28	2,43
EXC ROTOR ASSY	124,67	2,235
PMG ROTOR	6,97	0,019
PMG STUB SHAFT	0,93	0,0003
TOTAL	2520,07	112,1974

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 R.TYE	
	DO NOT SCALE PRINT	CHECKED C.MILLS	
SCALE NTS		APPROVED A.SAVILL	
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	FOR INTERPRETATION OF DIMENSIONING AND TOLERANCING, SEE ASME Y14.5-2009	FIRST USED ON N/A	STA

CUMMINS GENERATOR TECHNOLOGIES		
DRAWING, ENGINEERING		
MOMENTS OF INERTIA P80 2W		
DWG SIZE A3	L18-10577	CAD SHEET 1 of 1