

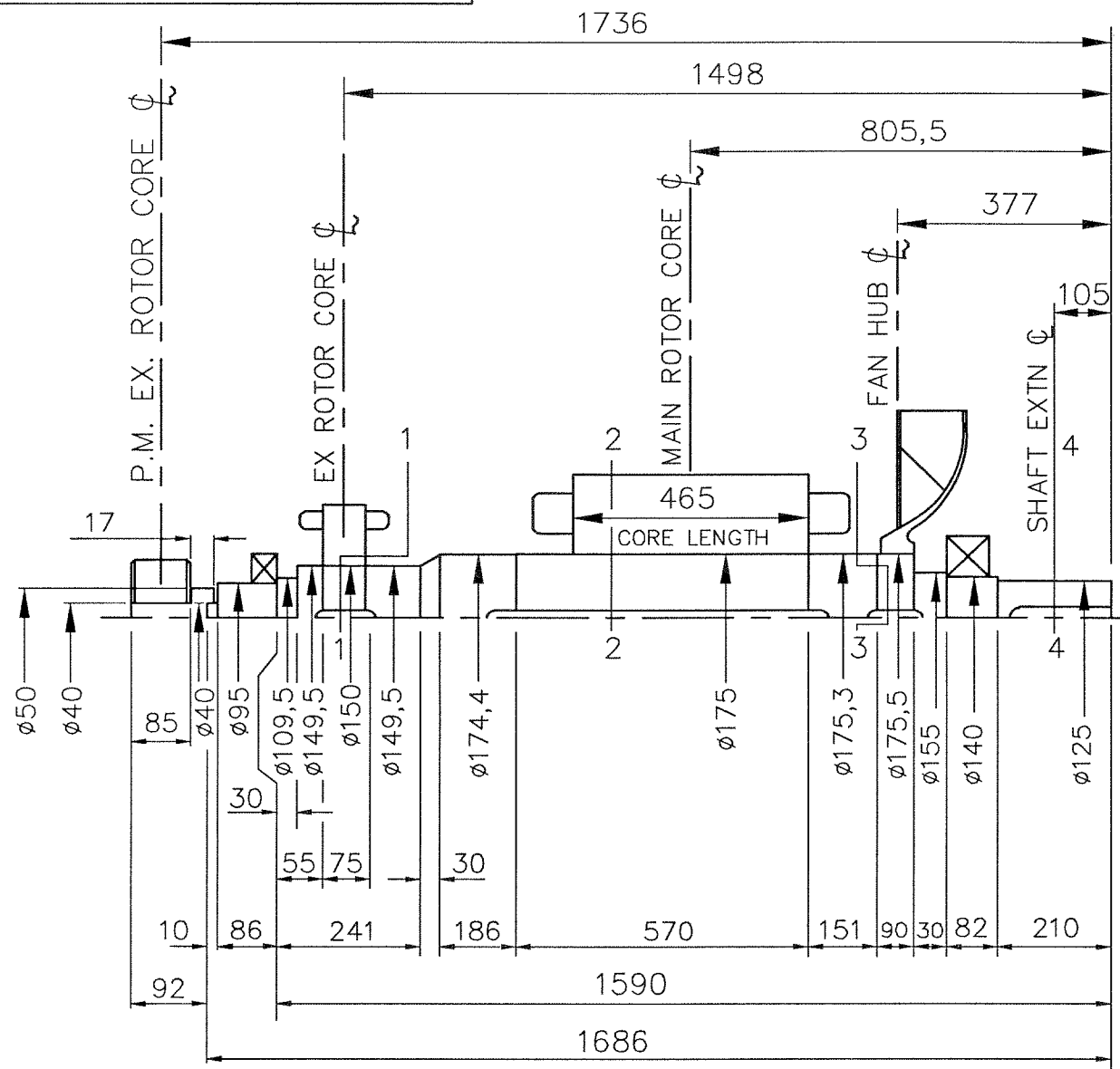
DL15-12967

ISSUE  
A

IF IN DOUBT-ASK

FIRST W.O.

DO NOT SCALE



NOTES!

SHAFT STIFFNESS: -

THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE  $\phi$  AND SHAFT EXTENSION  $\phi$  IS  $65,179 \times 10^6 \text{ kgcm/radian}$  (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)

SHAFT MATERIAL: -

STEEL - 080M40 TO BS970 PART 1 (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 A 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.

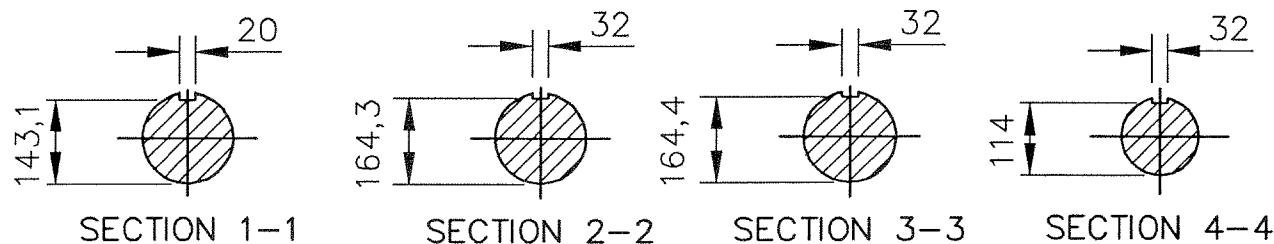
FOR MARINE AUTHORITIES, THEIR APPROPRIATE RULES WILL APPLY. NEWAGE INTERNATIONAL LTD. SHOULD BE NOTIFIED OF ANY ROTORS NOT COMPLYING WITH THESE RULES.

NEWAGE INTERNATIONAL LTD. BALANCE ROTORS TO COMPLY WITH INTERNATIONAL STD. I.S.O. 1940 GRADE 2,5 AND B.S. 6861 PART 1 GRADE 2,5.

FOR UNBALANCED MAGNETIC PULL (U.M.P.) FORCES REFER TO GENERATOR MANUAL.

COMPONENT	Wt kg	WR <sup>2</sup> kgm <sup>2</sup>
EX.ROTOR	46,791	0,7758
MAIN ROTOR	850,140	37,9240
FAN	28,800	1,6520
SHAFT	263,852	0,9035
P.MAG.ROTOR	6,970	0,0190
STUB SHAFT	0,929	0,0003
-	-	-
TOTAL	1197,482	41,2746

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



CERTIFIED PRINT (ONLY IF SIGNED)	P7B 6-POLE 2 BEARING MOMENTS OF INERTIA AND SHAFT DETAILS	SCALE	FIRST W.O.
BY		NTS	
DATE		(SHEET 1:10)	UNIT OF MEASUREMENT MILLIMETRES (mm)
DRAWN AV 22:04:04	NEWAGE INTERNATIONAL Ltd. STAMFORD, ENGLAND.	DL15-12967	
CHECK		ISSUE	
APPR'D 22-04-04		A	

4/7225/03	A	AV	22:04:04	ORIGINAL ISSUE
MOD'N	ISSUE	DRAWN	DATE	ALTERATION