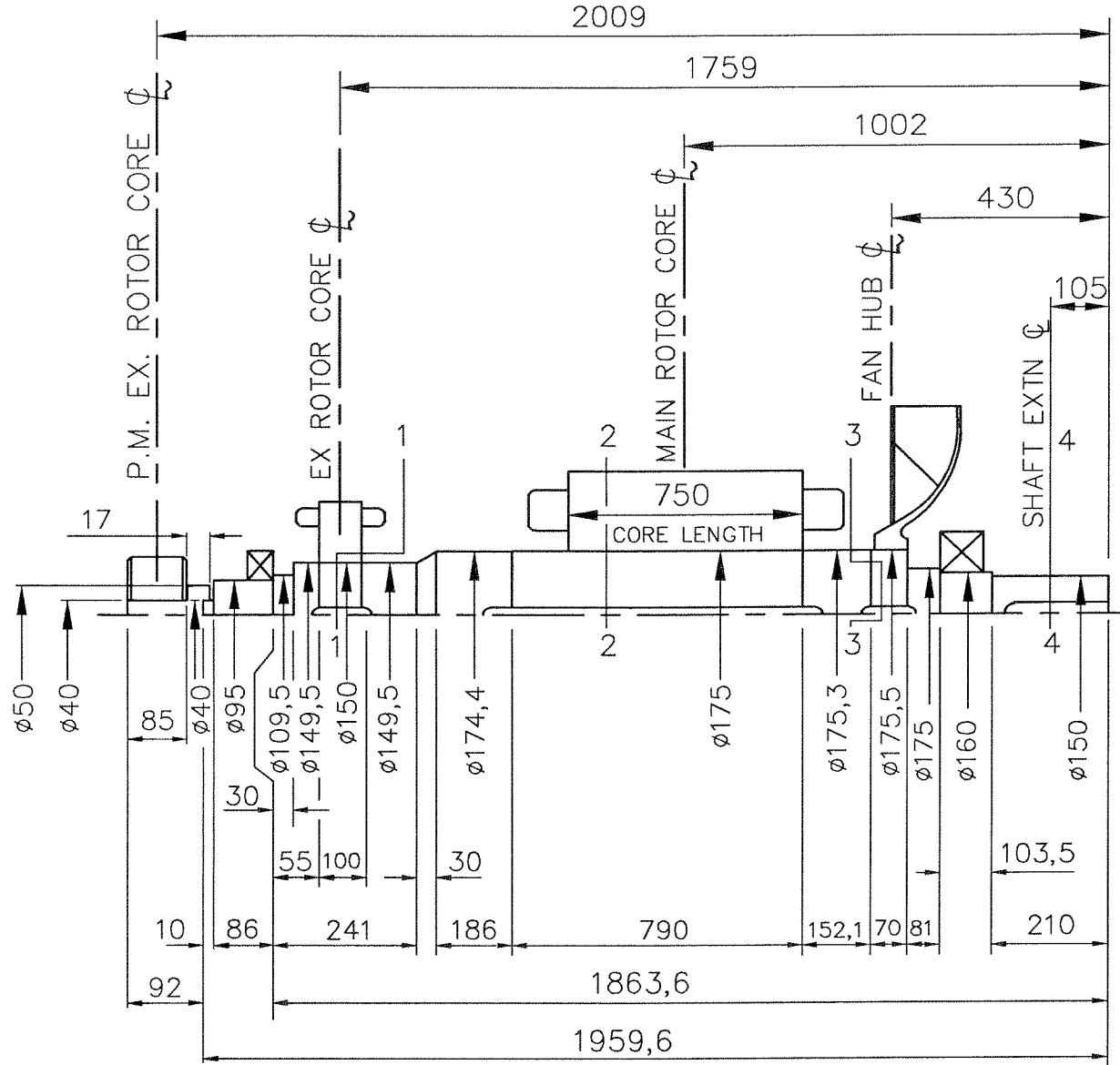


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ISSUE
A

IF IN DOUBT-ASK
DO NOT SCALE

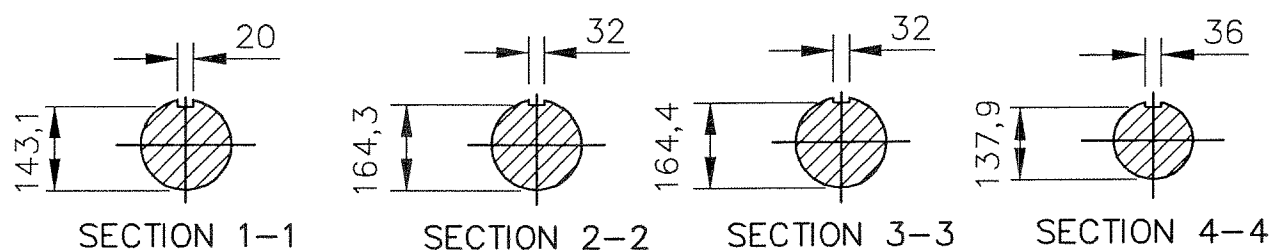
FIRST W.O.



NOTES!
SHAFT STIFFNESS: -
THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ϕ
AND SHAFT EXTENSION ϕ IS $71,698 \times 10^6 \text{ kgcm/radian}$
(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 ² kgm ²
EX.ROTOR	62,258	0,9988
MAIN ROTOR	1342,140	59,7950
FAN	28,800	1,6520
SHAFT	328,146	1,1656
P.MAG.ROTOR	6,970	0,0190
STUB SHAFT	0,929	0,0003
-	-	-
TOTAL	1769,243	63,6307



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

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

CERTIFIED PRINT (ONLY IF SIGNED)		
BY		
DATE		
DRAWN	AV	22:04:04
CHECK		22-04-04
APPR'D		22/4/4

P7F 6-POLE 2 BEARING
MOMENTS OF INERTIA
AND SHAFT DETAILS

NEWAGE INTERNATIONAL Ltd.
STAMFORD, ENGLAND.

SCALE NTS (SHEET 1:10)	FIRST W.O.	UNIT OF MEASUREMENT MILLIMETRES (mm)	ISSUE A
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