

DL15-12566

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 THE SHAFT EXTENSION ϕ IS $42,46 \times 10^6$ kgcm/radian (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)

SHAFT MATERIAL: -

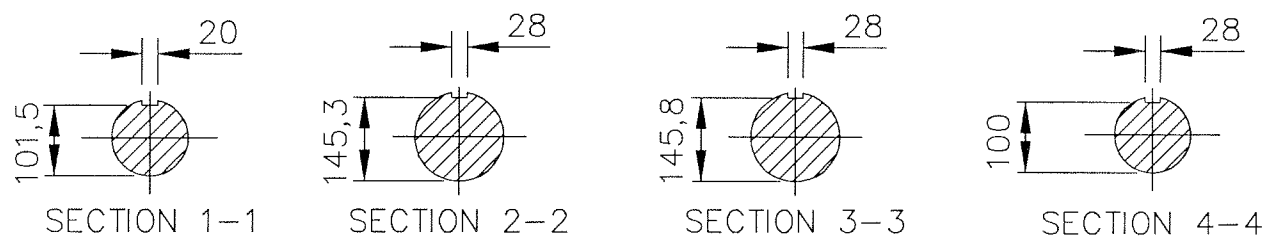
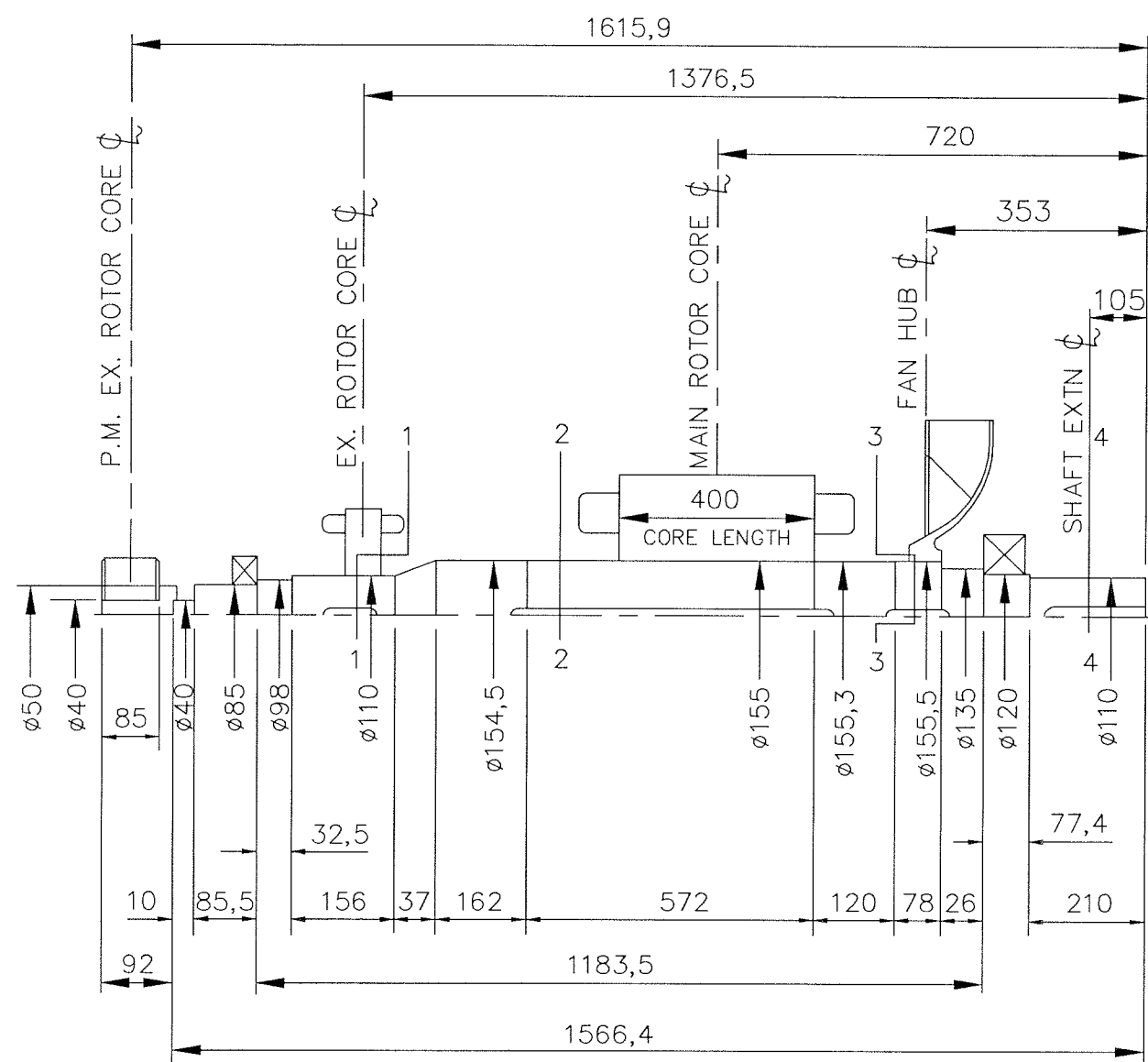
STEEL - 080M40 TO BS970 PART 1 (APPROVED BY MARINE AUTHORITIES WHEN APPROPRIATE).

MAXIMUM RECOMMENDED VIBRATORY STRESS LEVEL IN THE SHAFT IS $34,47 \times 10^6$ N/m² FOR A SPEED RANGE OF 0,95 TO 1,1 x NOMINAL SPEED, AND $68,94 \times 10^6$ N/m² 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	51,600	0,8590
MAIN ROTOR	506,244	15,7600
FAN	16,100	0,6762
SHAFT	183,886	0,4864
P.M. EX. ROTOR	6,970	0,0190
P.M. STUB SHAFT	0,929	0,0003
-	-	-
-	-	-
TOTAL	765,729	17,8009

4/3000/2				A	S.M.C.	30.06.00	ORIGINAL ISSUE	CERTIFIED PRINT (ONLY IF SIGNED) BY DATE DRAWN S.M.C. 29.06.00 CH'D S.M.C. 17/7/00 APP'D S.M.C. 17/7/00			HC634 2G MOMENTS OF INERTIA AND SHAFT DETAILS		SCALE	FIRST W.O.	NTS SHEET 1:10	UNIT OF MEASUREMENT MILLIMETRES (mm)	DL15-12566 A
MOD'N	ISSUE	DRAWN	DATE	ALTERATION	TO CONVERT	TO	DIVIDE BY	NEWAGE INTERNATIONAL LTD STAMFORD ENGLAND		DL15-12566 A							