

DL15-12574

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  $\phi$  AND THE SHAFT EXTENSION  $\phi$  IS  $45,08 \times 10^6$  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/m<sup>2</sup> FOR A SPEED RANGE OF 0,95 TO 1,1 x NOMINAL SPEED, AND  $68,94 \times 10^6$  N/m<sup>2</sup> FOR RUN THROUGH CONDITIONS, FOR INDUSTRIAL MACHINES.

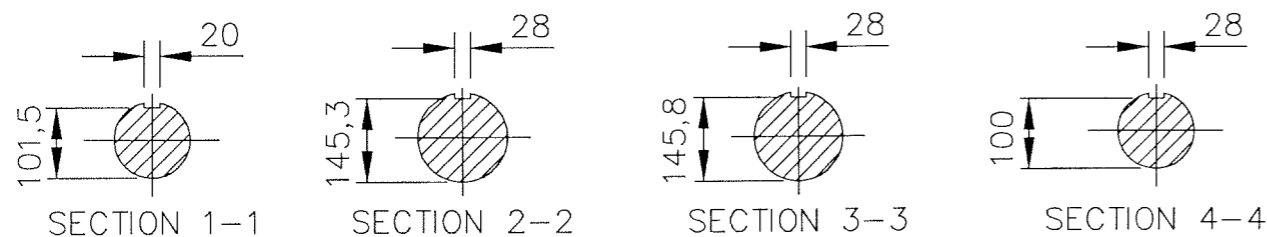
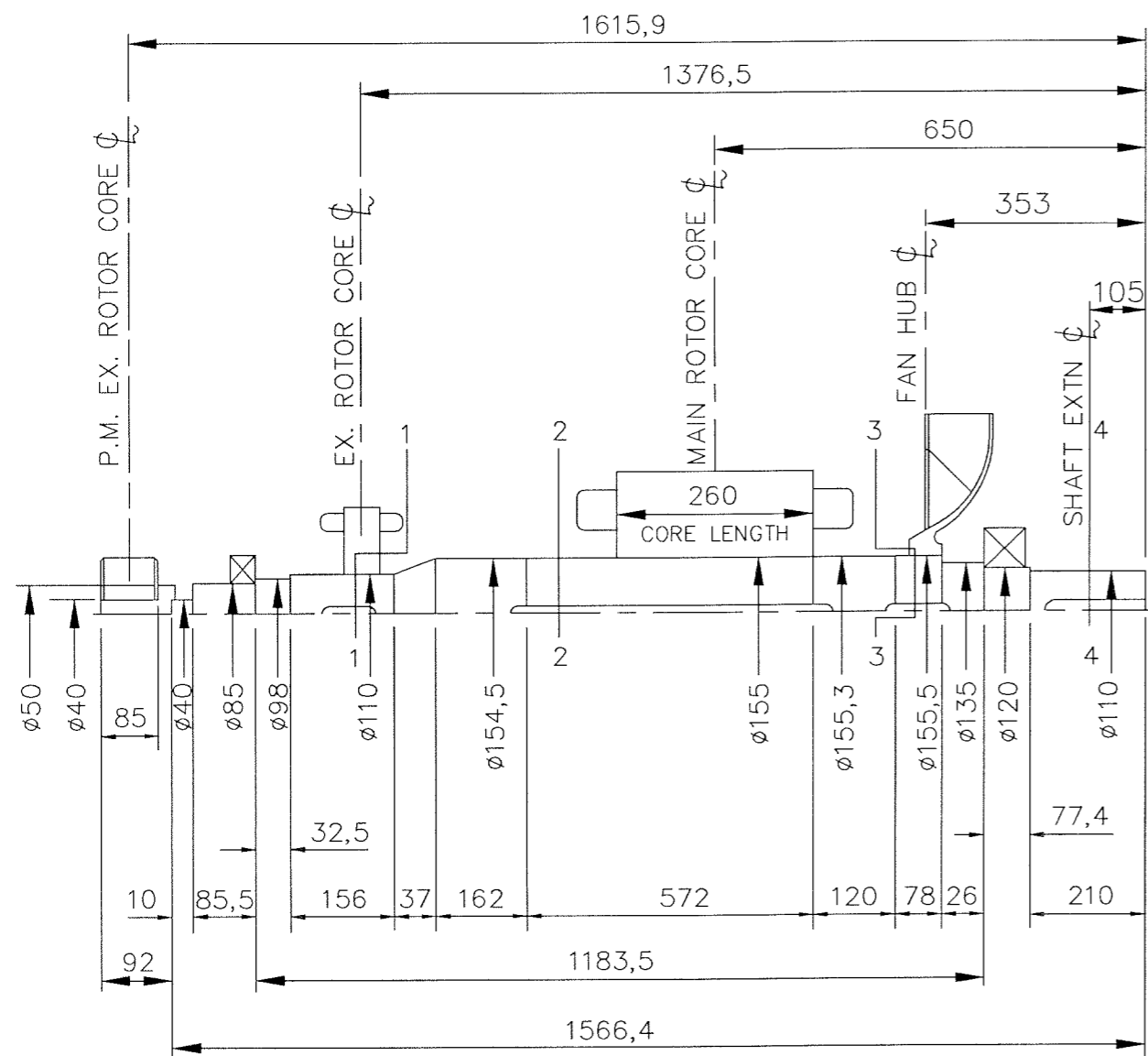
FOR MARINE AUTHORITIES, THEIR APPROPRIATE RULES WILL APPLY.

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	51,600	0,8590
MAIN ROTOR	369,000	12,8881
FAN	16,100	0,6762
SHAFT	185,125	0,4902
P.M. EX. ROTOR	6,970	0,0190
P.M. STUB SHAFT	0,929	0,0003
-	-	-
-	-	-
TOTAL	629,724	14,9328

4/3000/2					A			S.M.C.			13.07.00			ORIGINAL ISSUE			CERTIFIED PRINT			HC636 2G MOMENTS OF INERTIA AND SHAFT DETAILS			SCALE		FIRST W.O.	
MOD'N					ISSUE			DRAWN			DATE			ALTERATION			(ONLY IF SIGNED)						NTS			
																	CONVERSION FACTORS			BY			SHEET 1:10		UNIT OF MEASUREMENT	
																	TO CONVERT			DATE			NEWAGE INTERNATIONAL LTD		DL15-12574	
																	kg			13.07.00			STAMFORD ENGLAND		ISSUE	
																	kg m <sup>2</sup>			S.M.C.			DL15-12574		A	
																	kgcm/rad			CH'D			DL15-12574		A	
																	N/m <sup>2</sup>			APP'D			DL15-12574		A	