

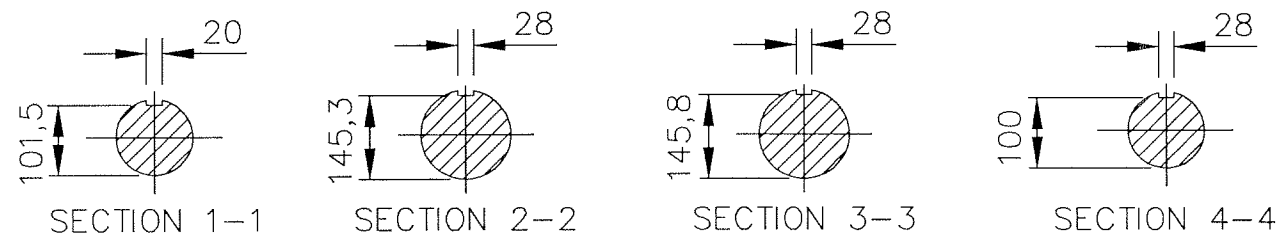
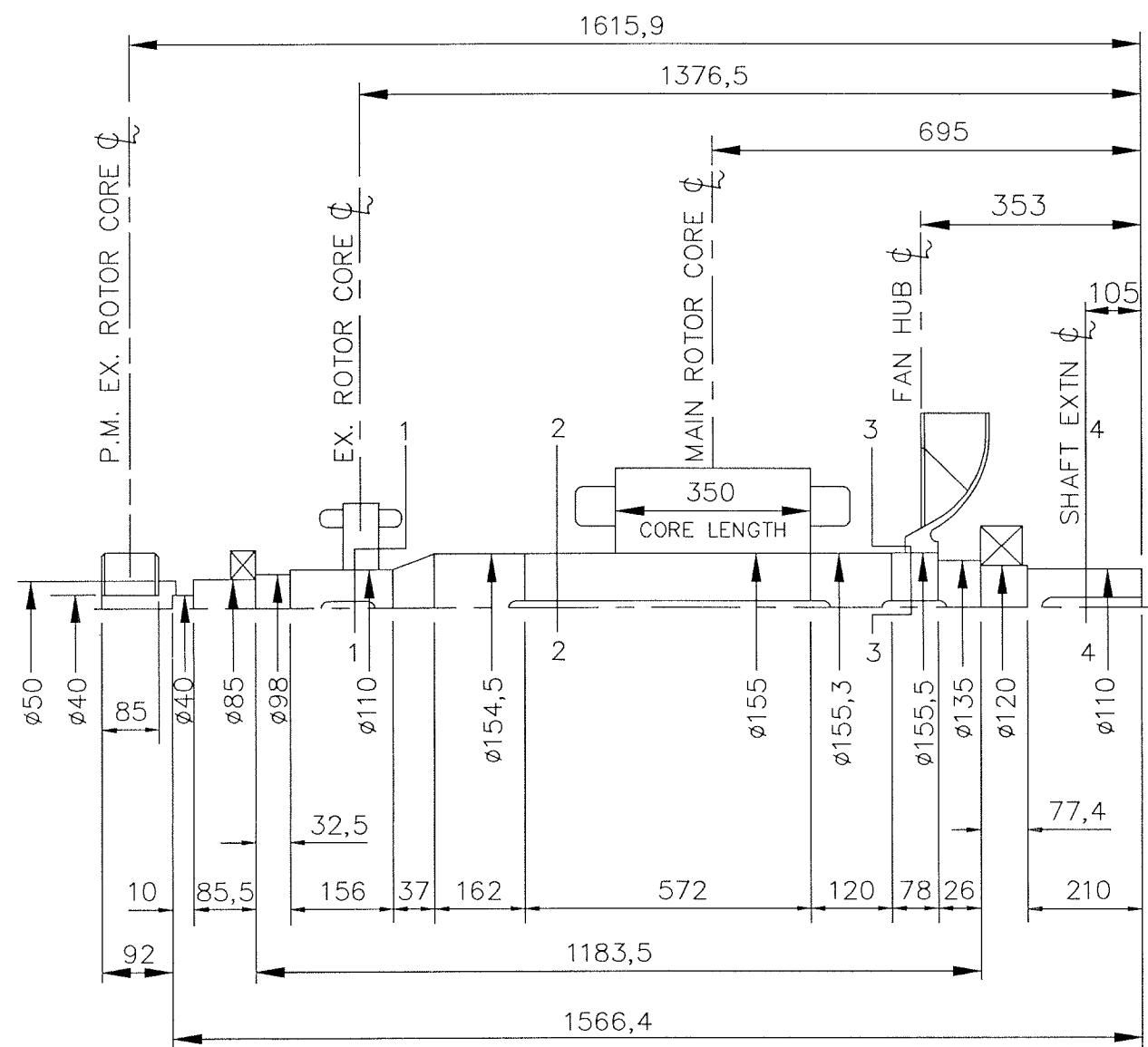
DL15-12575

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 $43,15 \times 10^6$ 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	481,500	16,8411
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	742,224	18,8858

4/3000/2					A			S.M.C.			13.07.00			ORIGINAL ISSUE			CERTIFIED PRINT			HC636 2H MOMENTS OF INERTIA AND SHAFT DETAILS			SCALE		FIRST W.O.	
MOD'N					ISSUE			DRAWN			DATE			ALTERATION			(ONLY IF SIGNED)						NTS			
																	CONVERSION FACTORS			DATE			SHEET 1:10		UNIT OF MEASUREMENT	
																	TO CONVERT			BY			NEWAGE INTERNATIONAL LTD		DL15-12575	
																	TO			DATE			STAMFORD ENGLAND		ISSUE	
																	DIVIDE BY			DRAWN					A	
																	kg			S.M.C.						
																	lb			13.07.00						
																	0,453592			CH'D			17.7.00			
																	0,04214			APP'D			17/7/00			
																	kgm ²									
																	lb ft ²									
																	1,1521246									
																	kgcm/rad									
																	lb in/rad									
																	6894,76									
																	N/m ²									
																	lb f/in ²									