

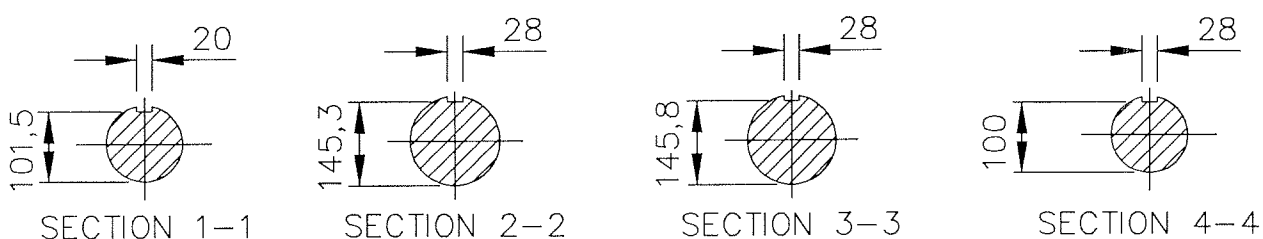
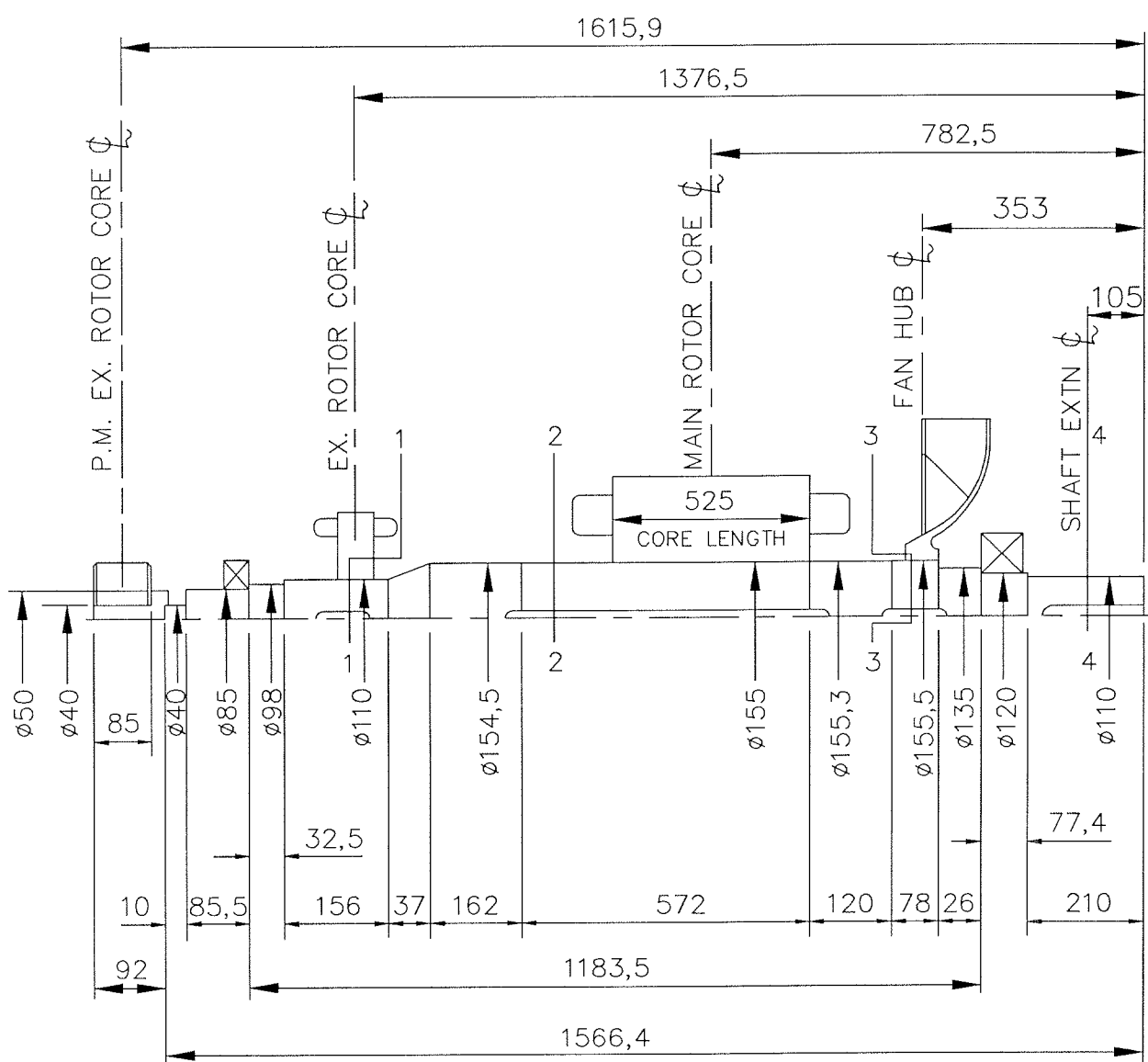
DL15-12577

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  $39,84 \times 10^6$  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	720,300	25,1932
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	981,024	27,2379

4/3000/2					A			S.M.C.			13.07.00			ORIGINAL ISSUE			CERTIFIED PRINT			HC636 2K MOMENTS OF INERTIA AND SHAFT DETAILS			SCALE		FIRST W.O.		DL15-12577 A							
MOD'N					ISSUE			DRAWN			DATE			ALTERATION			(ONLY IF SIGNED)						NTS		UNIT OF MEASUREMENT									
																	CONVERSION FACTORS			DATE			SHEET 1:10		MILLIMETRES (mm)									
																	TO CONVERT			BY			DRAWN		S.M.C.		13.07.00		NEWAGE INTERNATIONAL LTD			ISSUE		
																	TO			DATE			CH'D		SM		17.7.00		STAMFORD ENGLAND					
																	DIVIDE BY			APP'D			17/7/00											
																	kg																	
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