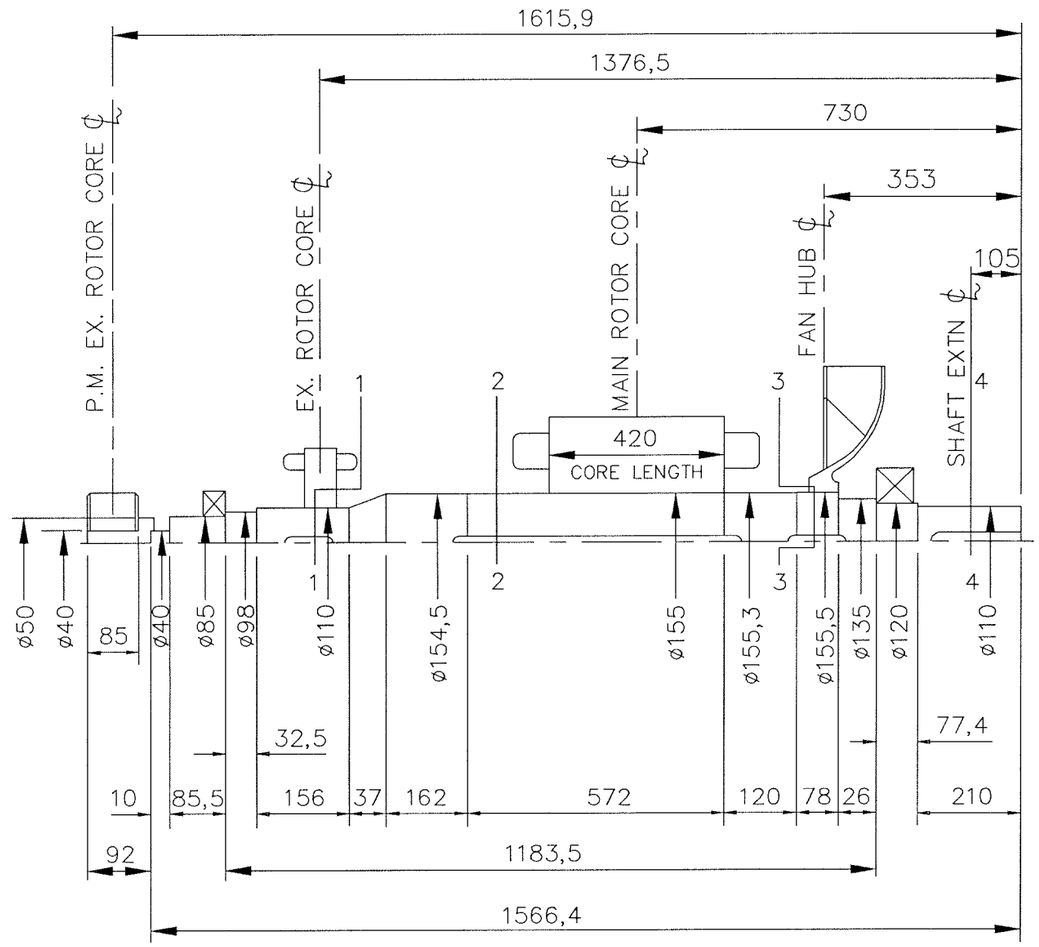
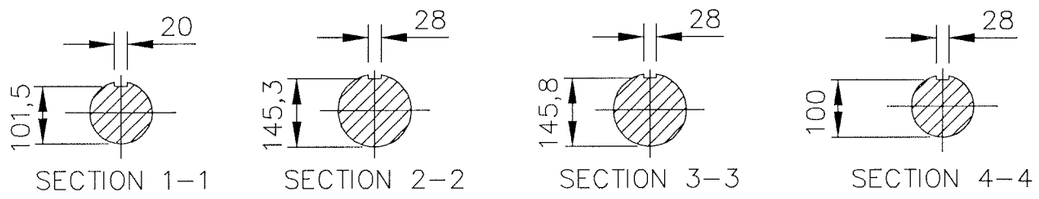
DL15-12576	ISSUE A
FIRST W.O.	

IF IN DOUBT-ASK
DO NOT SCALE





NOTES!

SHAFT STIFFNESS: -
THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ℄ AND THE SHAFT EXTENSION ℄ IS 41,76 x 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 x $10^6 N/m^2$ FOR A SPEED RANGE OF 0,95 TO 1,1 x NOMINAL SPEED, AND 68,94 x $10^6 N/m^2$ 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	WR² kgm²
EX. ROTOR	51,600	0,8590
MAIN ROTOR	580,000	20,285
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	840,724	22,3297

CONVERSION FACTORS		
TO CONVERT	TO	DIVIDE BY
kg	lb	0,453592
kg m²	lb ft²	0,04214
kgcm/rad	lbin/rad	1,1521246
N/m ²	lbf/in²	6894,76

CERTIFIED PRINT (ONLY IF SIGNED)		
BY		
DATE		
DRAWN	S.MC.	13.07.00
CH'D	SMC	17.7.00
APP'D		17/7/00

HC636 2J
MOMENTS OF INERTIA AND SHAFT DETAILS

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

NEWAGE INTERNATIONAL LTD
STAMFORD ENGLAND

DL15-12576 ISSUE A

MOD'N	ISSUE	DRAWN	DATE	ALTERATION
4/3000/2	A	S.MC.	13.07.00	ORIGINAL ISSUE