

NOTES!

SHAFT STIFFNESS: -

THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE \updownarrow AND THE SHAFT EXTENSION \updownarrow IS 7,60 x 10 6 kgcm/radian (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE).

SHAFT MATERIAL: -

STEEL - 080M40 TO B.S.970 PART 1 (APPROVED BY MARINE AUTHORITIES WHEN APPROPRIATE).

MAXIMUM RECOMMENDED VIBRATORY STRESS LEVEL IN THE SHAFT IS $34,47 \times 10^6 \, \text{N/m}^2 \, \text{FOR}$ A SPEED RANGE OF 0,95 TO 1,1 × NOMINAL SPEED, AND $68.94 \times 10^6 \, \text{N/m}^2 \, \text{FOR}$ 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 & B.S.6861 PART 1 GRADE 2,5.

FOR UNBALANCED MAGNETIC PULL (U.M.P.) FORCES REFER TO GENERATOR MANUAL.

COMPONENT	Wt kg	WR²kgm²
EX. ROTOR	12,280	0,0726
MAIN ROTOR	155,800	1,6921
FAN	3,389	0,0709
SHAFT	39,651	0,0337
TOTAL	211,120	1,8693
PERM. MAG.	5,450	0,0150
TOTAL	216,570	1,8843

CONVERSION FACTORS				
TO CONVERT	ТО	DIVIDE BY		
kg	lb	0,453592		
kg m ²	lb ft ²	0,04214		
kgcm/rad	lbin/rad	1,1521246		
N/m^2	lbf/in ²	6894,76		

CERTIFIED PRINT	UC274H - TWO BEARING	SCALE	FIRST W.O.
(ONLY IF SIGNED) BY DATE	MOMENTS OF INERTIA AND SHAFT DETAILS	NTS	UNIT OF MEASUREMENT MILLIMETRES (mm)
DRAWN S.MC. 16.11.00 CH'D 544 20 11.00 APP'D 200 21/11/63	NEWAGE INTERNATIONAL LTD STAMFORD ENGLAND	DL15	-12662 A