

NOTES!

SHAFT STIFFNESS : -

THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ¢ AND THE SHAFT EXTENSION ¢ IS 4,84 x 106 kgcm/radian (STIFFENING EFFECT OFMAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE).

SHAFT MATERIAL: -

APP'D EN 29/11/00

STEEL - 080M40 TO BS970 PART 1 (APPROVED BY MARINE AUTHORITIES WHEN APPROPRIATE).

MAXIMUM RECOMMENDED VIBRATORY STRESS LEVEL IN THE SHAFT IS $34,47 \times 10^6 \, \text{N/m}^2$ for a speed range of 0,95 to 1,1 x nominal speed, and 68,94 x 106 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	WR²kgm²	
EX. ROTOR	6,570	0,0394	
MAIN ROTOR	37,450	0,2740	
FAN	1,940	0,0271	
SHAFT	19,166	0,0114	
TOTAL	65,126	0,3519	
PERM. MAG.	5,450	0,0150	
TOTAL	70,576	0,3667	

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

CERTIFIED PRINT	UC224C - 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. 07.11.00 CH'D 5 20/11/00	NEWAGE INTERNATIONAL LTD STAMFORD ENGLAND	DL15	-12622 A