

## NOTES!

WWW WWW

APP'D

SHAFT STIFFNESS: -THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE \$\partilde{C}\$ AND THE SHAFT EXTENSION ¢ IS 8,29 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  $34,47 \times 10^6 \,\mathrm{N/m^2}$  FOR A SPEED RANGE OF 0,95 TO 1,1 x NOMINAL SPEED, AND  $68.94 \times 10^6 \,\mathrm{N/m^2}$  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 & 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	12,280	0,0726
MAIN ROTOR	120,950	1,3159
FAN	3,389	0,0709
SHAFT	35,642	0,0300
TOTAL	172,261	1,4894
PERM. MAG.	5,450	0,0150
TOTAL	177,711	1,5044

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

CERTIFIED PRINT	UC274F — 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 SAS 2011.00	NEWAGE INTERNATIONAL LTD	DI 15	-12660 ISSUE
APP'D PM 2/11/60	STAMFORD ENGLAND		. — 3 0 0 A