

## NOTES!

SHAFT STIFFNESS: -

THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE & AND THE SHAFT EXTENSION & IS 7,89 x 10 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	140,400	1,5263
FAN	3,389	0,0709
SHAFT	37,870	0,0321
TOTAL	193,939	1,7019
PERM. MAG.	5,450	0,0150
TOTAL	199,389	1,7169

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			

CERTIF	IED F	PRINT	UC274G - TWO BEARING S	SCALE	FIRST W.O.	
(ONLY BY DATE		GNED)	MOMENTS OF INERTIA P	NTS	UNIT OF MEASUREN MILLIMETRES (mr	m)
DRAWN CH'D	S.MC.	16.11.00	NEWAGE INTERNATIONAL LTD STAMFORD ENGLAND	) 15	_12661	ISSUE
APP'D		19/6/01	STAMFORD ENGLAND L		-12001	В