

NOTES!

SHAFT STIFFNESS: -

THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ϕ AND THE COUPLING HUB FACE IS $115,05 \times 10^6 \text{ kgcm/radian}$ (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 $34,47 \times 10^6 \text{ N/m}^2$ FOR A SPEED RANGE OF 0,95 TO 1,1 x NOMINAL SPEED, AND $68,94 \times 10^6 \text{ N/m}^2$ FOR RUN THROUGH CONDITIONS, FOR INDUSTRIAL MACHINES. FOR MARINE AUTHORITIES, THEIR APPROPRIATE RULES WILL APPLY.

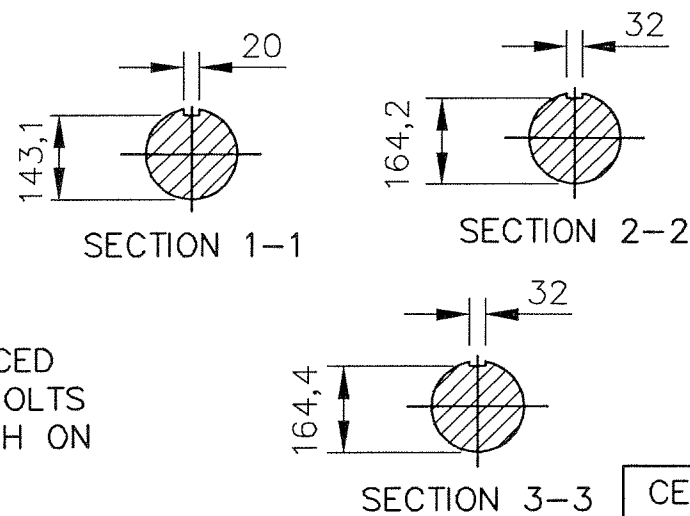
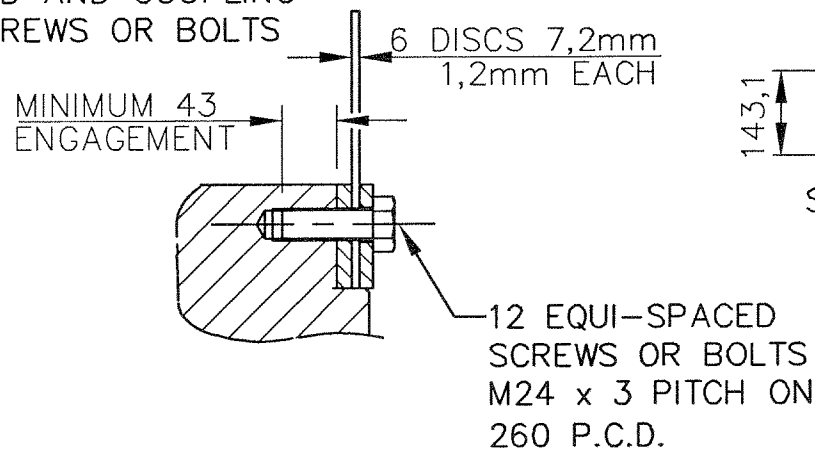
NEWAGE INTERNATIONAL LTD. SHOULD BE NOTIFIED OF ANY ROTORS NOT COMPLYING WITH THESE RULES.

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	WR ² kgm ²	COUPLING SAE No	COUPLING DIMEN's		COUPLING ASSEMBLY WEIGHT kg	COUPLING STIFFNESS 6-PLATES kgcm/rad	COUPLING DISC WR ² kg m ²
				XX	YY			
EX. ROTOR	62,258	0,9988						
MAIN ROTOR	1342,140	59,7950						
FAN	28,800	1,6520						
SHAFT	318,125	1,1979	18	572	16	24,5	1592×10^6	0,590
HUB	53,533	0,8846	21	673	00	23,1	1468×10^6	1,135
P.MAG. ROTOR	6,970	0,0190	24	733	00	26,84	1428×10^6	1,598
STUB SHAFT	0,929	0,0003						
-	-	-						
TOTAL	1812,755	64,5476						

SECTION THRO' SHAFT END AND COUPLING SCREWS OR BOLTS



CONVERSION FACTORS

TO CONVERT	TO	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

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MOD'N	ISSUE	DRAWN	DATE	ALTERATION

CERTIFIED PRINT (ONLY IF SIGNED)	
BY	
DATE	
DRAWN	AV 22:04:04
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APPR'D	29/4/9

P7F 6-POLE 1 BEARING MOMENTS OF INERTIA AND SHAFT DETAILS
NEWAGE INTERNATIONAL Ltd.
STAMFORD, ENGLAND.

SCALE	FIRST W.O.
NTS	
(SHEET 1:10)	UNIT OF MEASUREMENT MILLIMETRES (mm)
DL15-12972	ISSUE A