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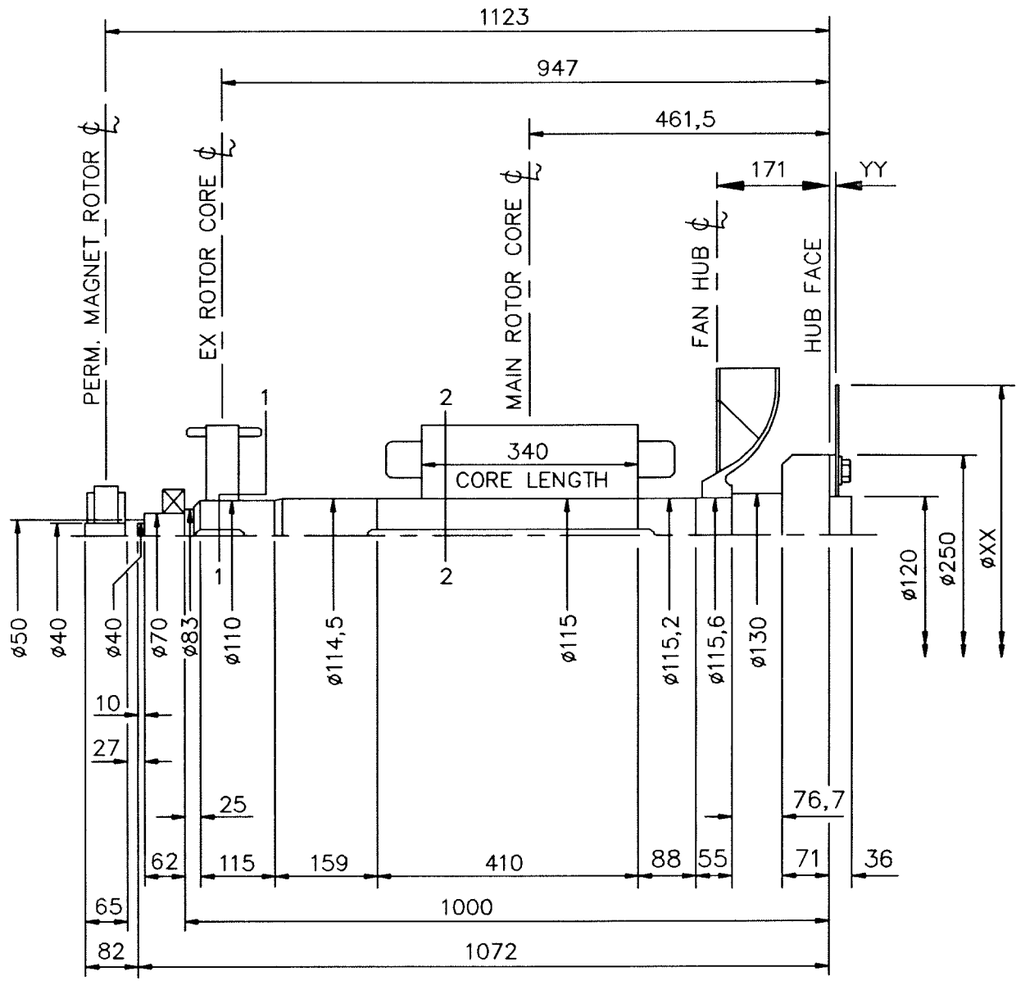
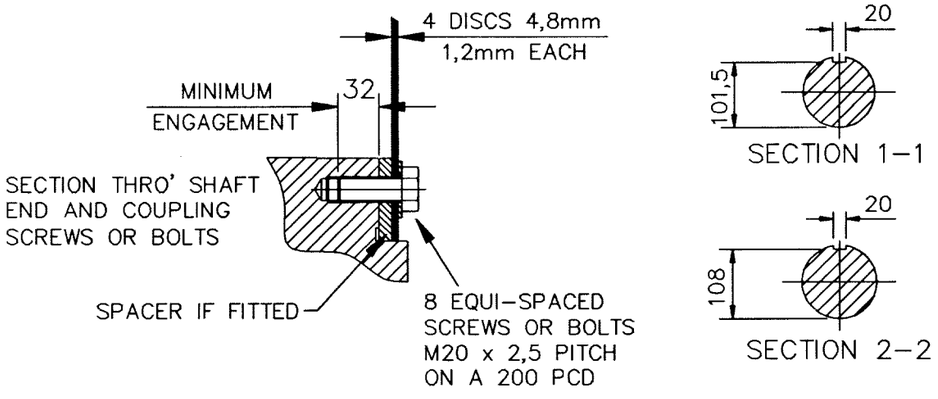
IF IN DOUBT–ASK
DO NOT SCALE





NOTES!
SHAFT STIFFNESS: –
THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ℄
AND THE COUPLING HUB FACE IS 38,20 x 10^6kgcm/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 x 10^6N/m^2 FOR A SPEED RANGE OF 0,95 TO 1,1 x NOMINAL SPEED, AND
68,94 x 10^6N/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	WR² kgm²	COUPLING SAE No	COUPLING DIMEN's XX	COUPLING DIMEN's YY	COUPLING ASSEMBLY WEIGHT kg	COUPLING STIFFNESS 4–PLATES kgcm/rad	COUPLING DISC WR² kg m²
EX.ROTOR	31,290	0,5100						
MAIN ROTOR	208,880	2,969						
FAN	9,910	0,2630						
SHAFT	87,191	0,1450	11,5	352	23,8	12,08	755,8x10⁶	0,055
HUB	18,507	0,1779	ø17,75"	450,9	2,5	9,11	662,4x10⁶	0,150
P.M. STUB SHAFT	0,955	0,0002	14	467	9,5	11,66	622,8x10⁶	0,172
P.M. EX. ROTOR	4,260	0,0120	18	572	0,0	12,07	570,0x10⁶	0,386
–	–	–	–	–	–	–	–	–
TOTAL	360,993	4,0771	–	–	–	–	–	–

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

MOD'N	ISSUE	DRAWN	DATE	ALTERATION
4/3242/4	C	SMC	13.02.02	COUPLING DETAIL MODIFIED
4/3000/2	B	SMC	30.06.00	MAIN ROTOR & TOTAL WEIGHT MODIFIED
4/3000/1	A	SMC	26.06.00	ORIGINAL ISSUE

CERTIFIED PRINT (ONLY IF SIGNED)		
BY		
DATE		
DRAWN	SMC	26.06.00
CHECKED	SMC	13.2.02
APPROVED	RSH	6/2/02

HC434 1D – SINGLE BEARING
MOMENTS OF INERTIA AND SHAFT DETAILS

NEWAGE INTERNATIONAL Ltd
STAMFORD ENGLAND

SCALE NTS

FIRST W.O.

UNIT OF MEASUREMENT MILLIMETRES (mm)

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