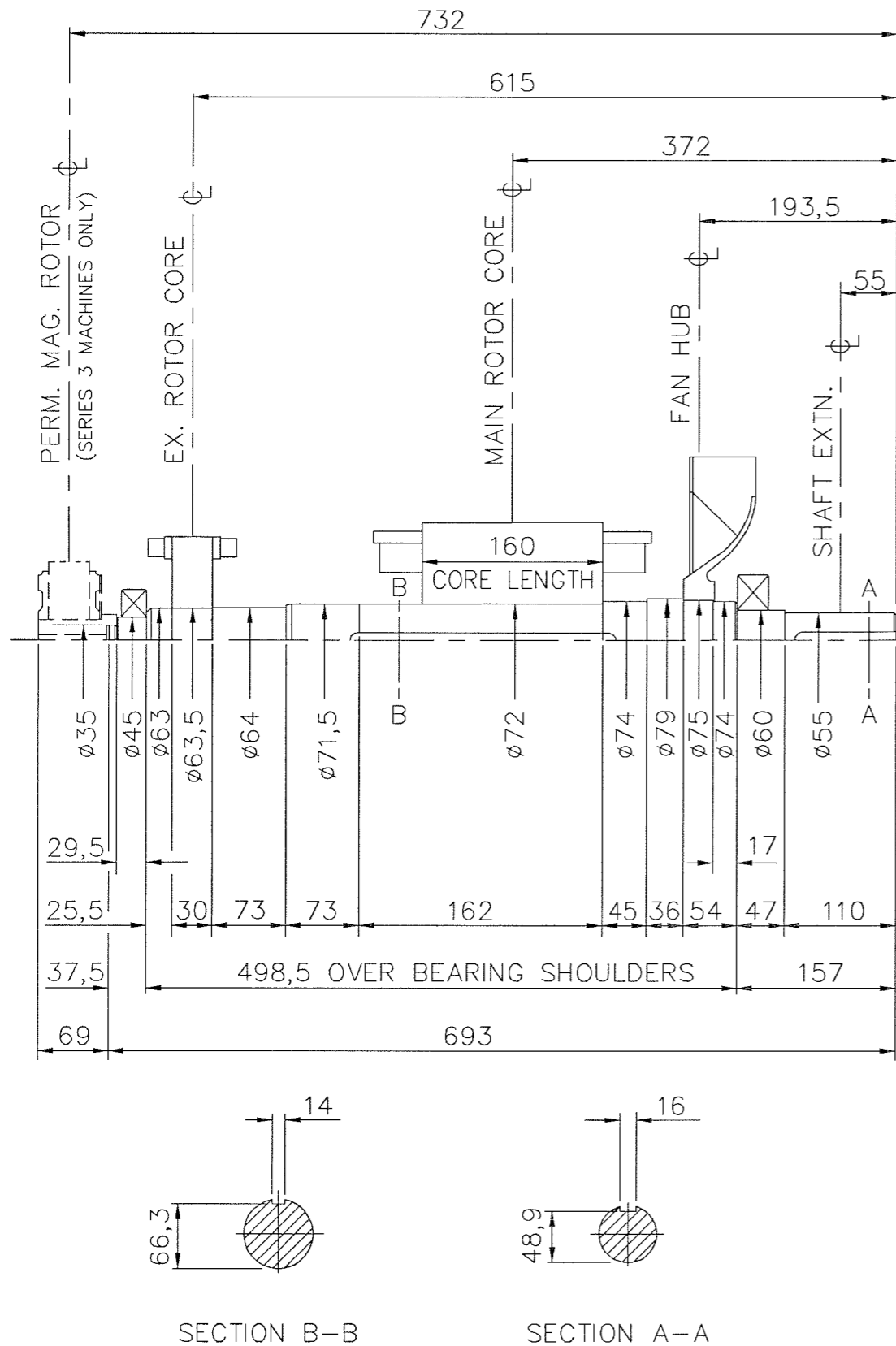


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FIRST W.O.

IF IN DOUBT-ASK
DO NOT SCALE



NOTES !

SHAFT STIFFNESS :-
THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ϕ AND THE SHAFT EXTENSION ϕ IS $4,68 \times 10^6$ 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 $34,47 \times 10^6$ N/m² FOR A SPEED RANGE OF 0,95 TO 1,1 x NOMINAL SPEED, AND $68,94 \times 10^6$ 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	WR ² kgm ²
EX. ROTOR	6,570	0,0394
MAIN ROTOR	44,780	0,3269
FAN	1,940	0,0271
SHAFT	19,166	0,0114
TOTAL	72,456	0,4048
PERM. MAG.	5,450	0,0150
TOTAL	77,906	0,4198

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

CERTIFIED PRINT (ONLY IF SIGNED) BY DATE	UC224D - TWO BEARING MOMENTS OF INERTIA AND SHAFT DETAILS	SCALE	FIRST W.O.
		NTS	UNIT OF MEASUREMENT MILLIMETRES (mm)
DRAWN S.M.C. 08.11.00	NEWAGE INTERNATIONAL LTD STAMFORD ENGLAND	DL15-12623	ISSUE
CH'D S.M.C. 20.11.00			A
APP'D S.M.C. 20/11/00			

4/2892/5	A	S.M.C.	08.11.00	ORIGINAL ISSUE
MOD'N	ISSUE	DRAWN	DATE	ALTERATION