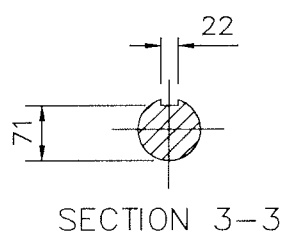
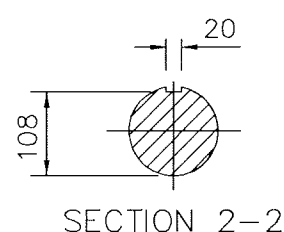
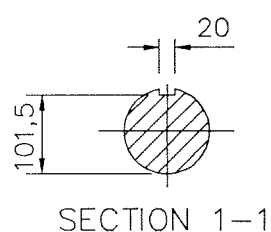
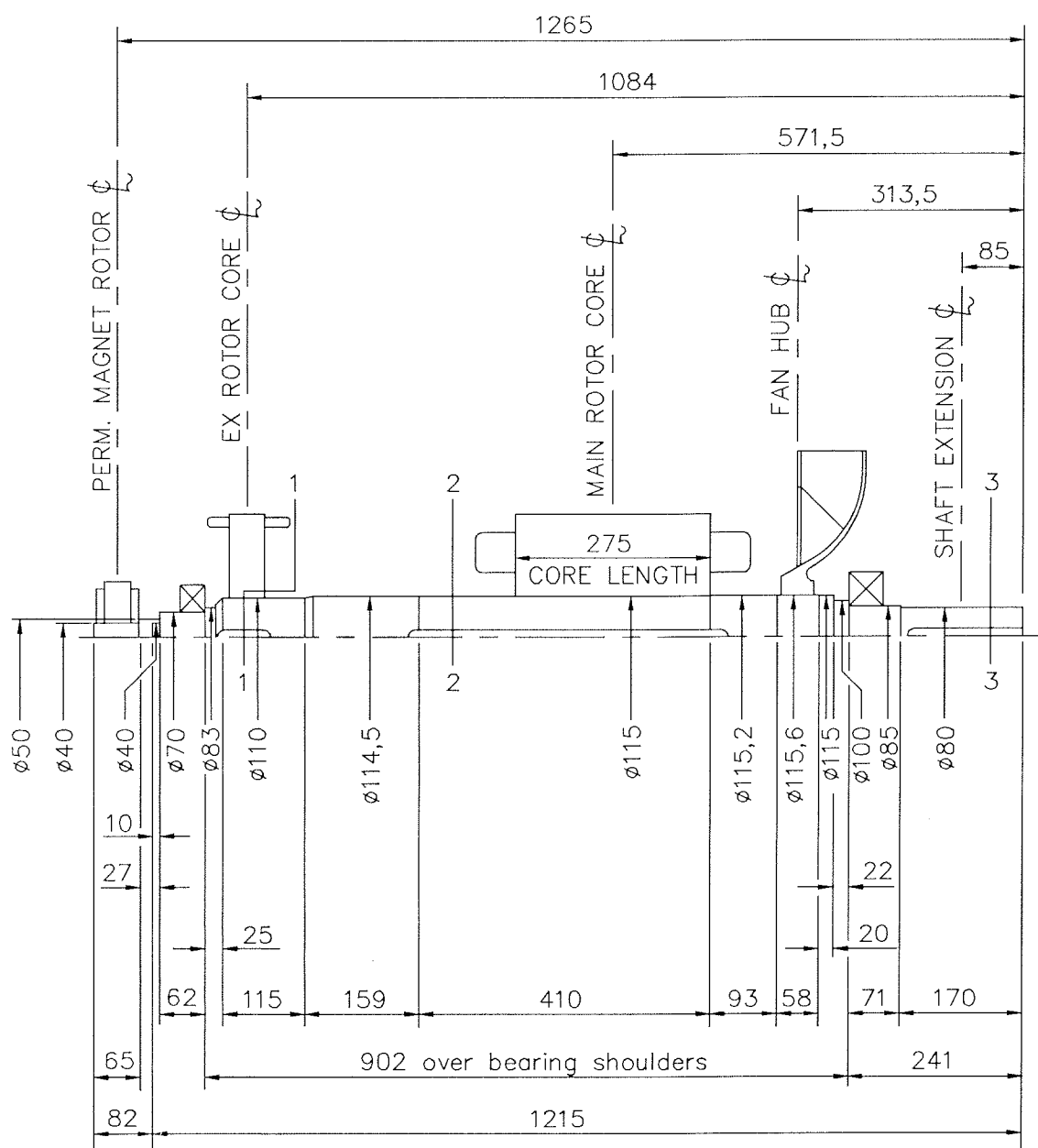


DL15-12481

ISSUE
A

IF IN DOUBT-ASK
DO NOT SCALE

FIRST W.O.



NOTES!

SHAFT STIFFNESS: -

THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ϕ AND THE SHAFT EXTENSION ϕ IS $14,57 \times 10^6 \text{ kgcm/radian}$ (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
EX. ROTOR	31,290	0,5100
MAIN ROTOR	172,090	2,4450
FAN	9,910	0,2630
SHAFT	82,668	0,1241
P.M. STUB SHAFT	0,955	0,0002
P.M. EX. ROTOR	4,260	0,0120
-	-	-
-	-	-
TOTAL	301,173	3,3543

CERTIFIED PRINT
(ONLY IF SIGNED)

HC434 2C - TWO BEARING
MOMENTS OF INERTIA
AND SHAFT DETAILS

SCALE FIRST W.O.

NTS

UNIT OF MEASUREMENT
MILLIMETRES (mm)

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

BY
DATE

DRAWN S.M.C. 22.06.00
CHECKED SFA 26/6/00
APPROVED SFA 26/6/00

NEWAGE INTERNATIONAL Ltd
STAMFORD ENGLAND

DL15-12481

ISSUE

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MOD'N	ISSUE	DRAWN	DATE	ALTERATION
4/3000/1	A	S.M.C.	22.06.00	ORIGINAL ISSUE