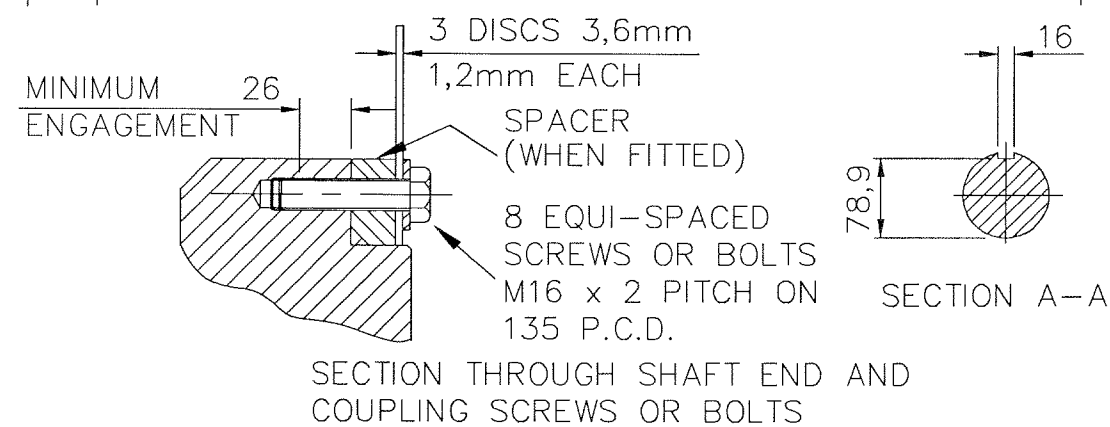
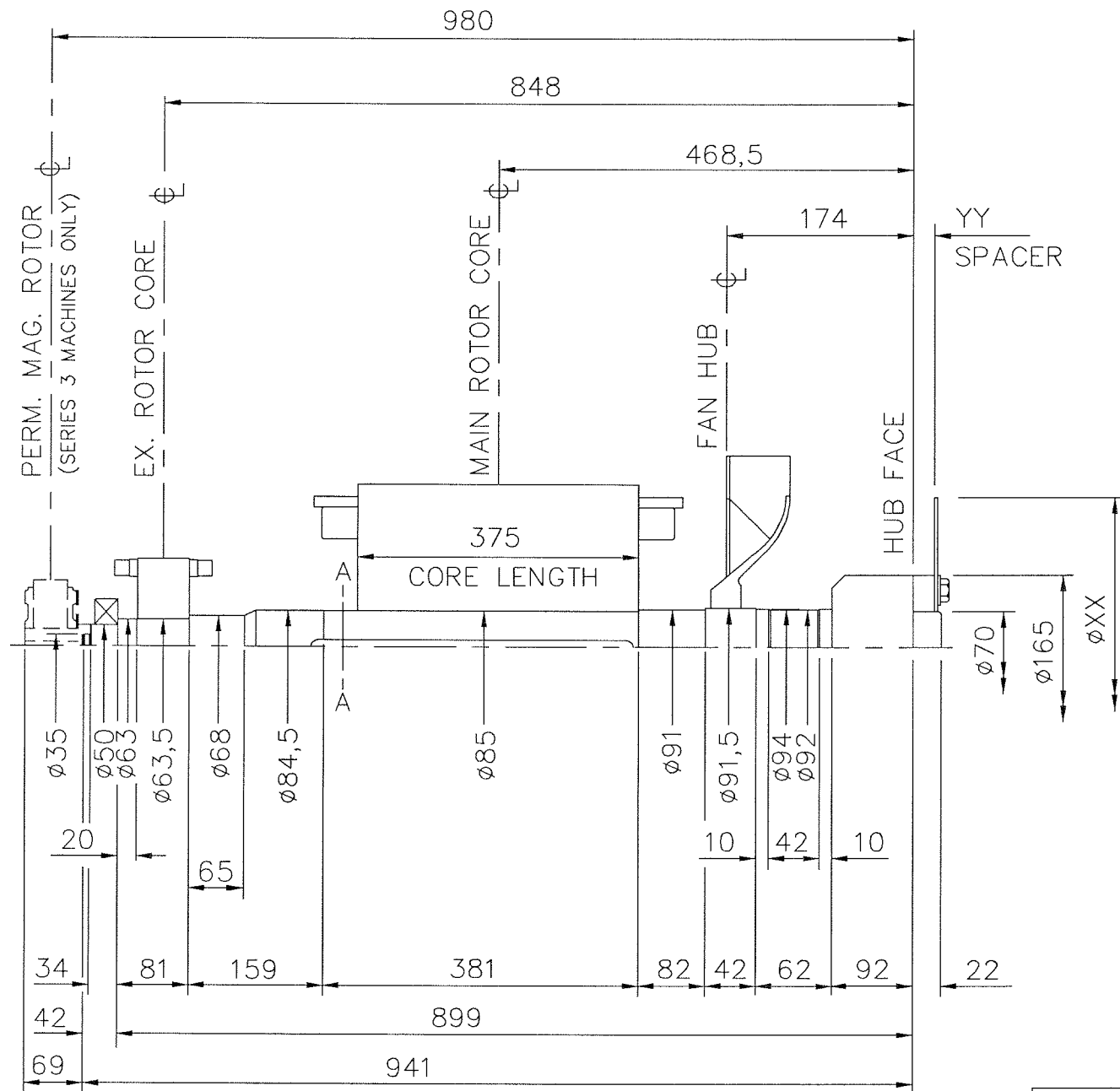


DL15-12649

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 COUPLING HUB FACE IS $12,39 \times 10^6$ 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 $34,47 \times 10^6$ 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 & 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	12,280	0,0726
MAIN ROTOR	155,800	1,6921
FAN	3,389	0,0709
SHAFT	39,736	0,0352
HUB	10,878	0,0491
TOTAL	222,083	1,9199
PERM. MAG.	5,450	0,0150
TOTAL	227,533	1,9349

COUPLING SAE No	COUPLING DIMEN's		COUPLING ASSEMBLY WEIGHT kg	COUPLING STIFFNESS 3-PLATES kgcm/rad	COUPLING DISC WR ² kgm ²
	XX	YY			
* 10	314	14,3	5,55	216,3x10 ⁶	0,0266
* 11½	352	-	2,64	204,7x10 ⁶	0,0423
! 11½	352	14,3	4,95	204,7x10 ⁶	0,0423
! 14	467	-	4,74	189,1x10 ⁶	0,1317

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

NOTES

- 1.*COUPLING DETAILS NOT APPLICABLE WHEN USED WITH SAE No 1 FLYWHEEL HOUSING
- 2.!COUPLING DETAILS APPLICABLE TO SAE No 1 HOUSING ONLY

CERTIFIED PRINT (ONLY IF SIGNED)	UC274H-SINGLE BEARING		SCALE	FIRST W.O.
	MOMENTS OF INERTIA AND SHAFT DETAILS		NTS	UNIT OF MEASUREMENT MILLIMETRES (mm)
BY	NEWAGE INTERNATIONAL LTD		DL15-12649	ISSUE A
DATE	STAMFORD ENGLAND			
DRAWN S.M.C. 15.11.00				
CH'D SUC 20/11/00				
APP'D [Signature] 21/11/00				

4/2892/5	A	S.M.C.	15.11.00	ORIGINAL ISSUE
MOD'N	ISSUE	DRAWN	DATE	ALTERATION