

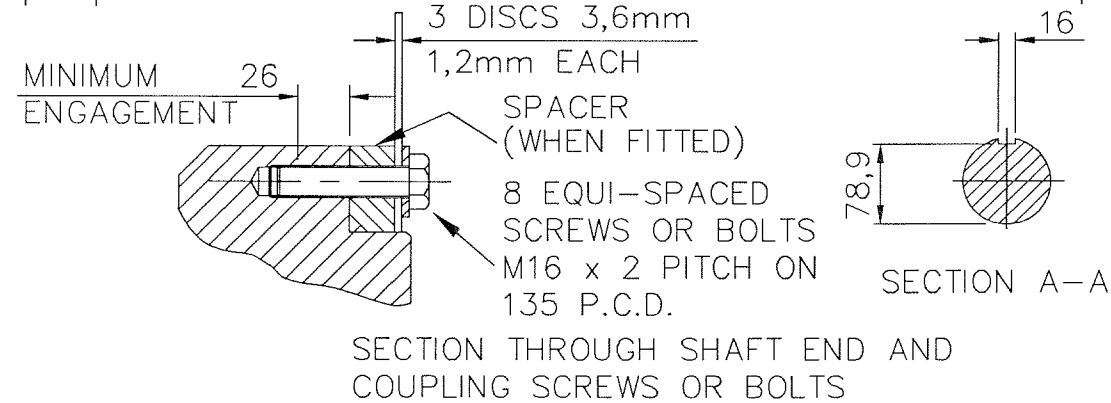
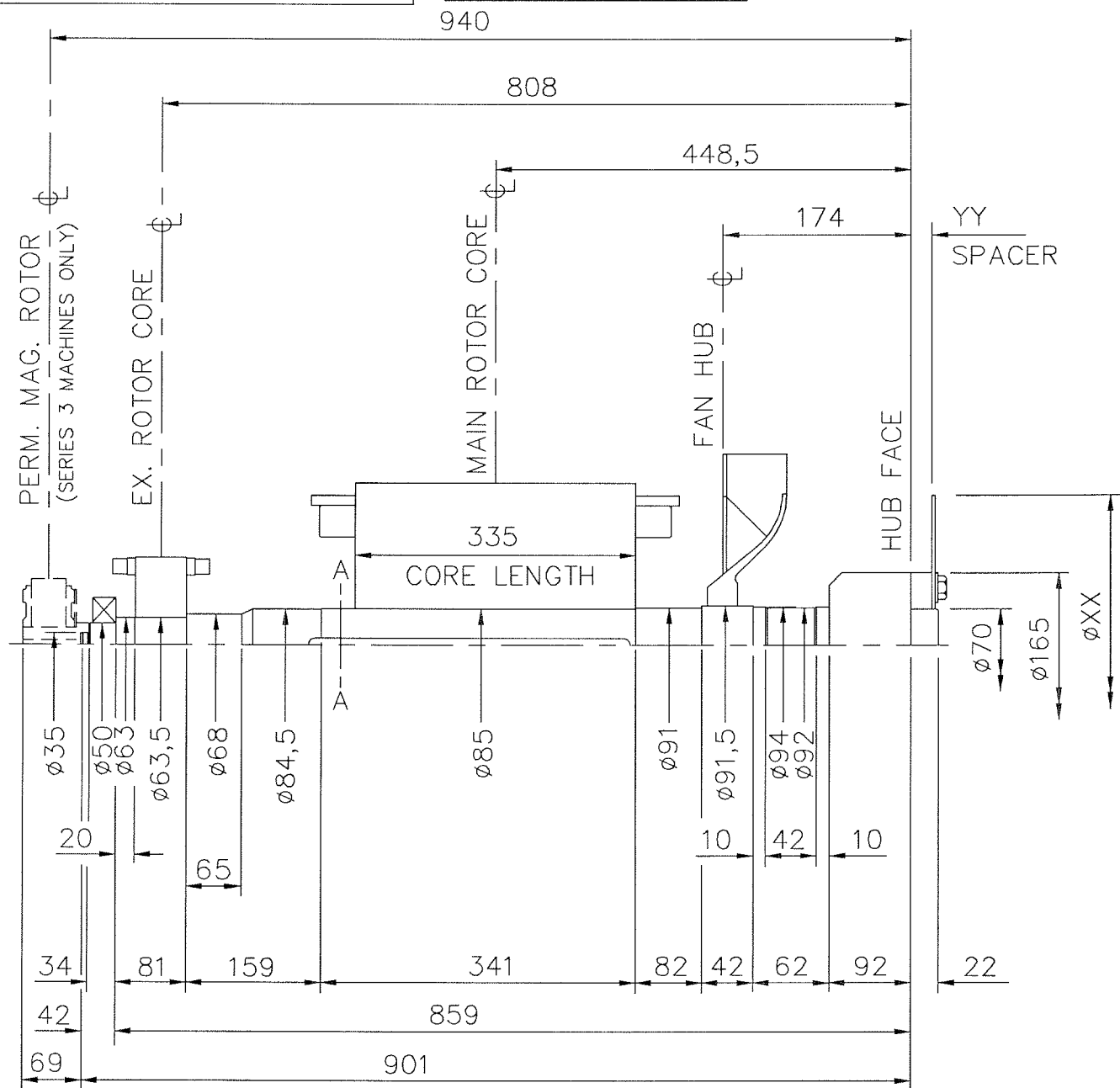
DL15-12648

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  $\phi$  AND THE COUPLING HUB FACE IS  $13,18 \times 10^6 \text{ kgcm/radian}$   
(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  $34,47 \times 10^6 \text{ N/m}^2$  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 & B.S.6861 PART 1 GRADE 2,5.  
FOR UNBALANCED MAGNETIC PULL (U.M.P.) FORCES REFER TO GENERATOR MANUAL.

COMPONENT	Wt kg	WR <sup>2</sup> kgm <sup>2</sup>
EX. ROTOR	12,280	0,0726
MAIN ROTOR	140,400	1,5263
FAN	3,389	0,0709
SHAFT	37,954	0,0335
HUB	10,878	0,0491
TOTAL	204,901	1,7524
PERM. MAG.	5,450	0,0150
TOTAL	210,351	1,7674

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

NOTES

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

CONVERSION FACTORS		
TO CONVERT	TO	DIVIDE BY
kg	lb	0,453592
kg m <sup>2</sup>	lb ft <sup>2</sup>	0,04214
kgcm/rad	lbin/rad	1,1521246
N/m <sup>2</sup>	lbf/in <sup>2</sup>	6894,76

CERTIFIED PRINT (ONLY IF SIGNED) BY DATE	UC274G-SINGLE BEARING MOMENTS OF INERTIA AND SHAFT DETAILS	SCALE	FIRST W.O.
		NTS	UNIT OF MEASUREMENT MILLIMETRES (mm)
DRAWN S.M.C. 15.11.00 CH'D SUC 20.11.00 APP'D [Signature] 21/11/00	NEWAGE INTERNATIONAL LTD STAMFORD ENGLAND	DL15-12648	ISSUE A

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