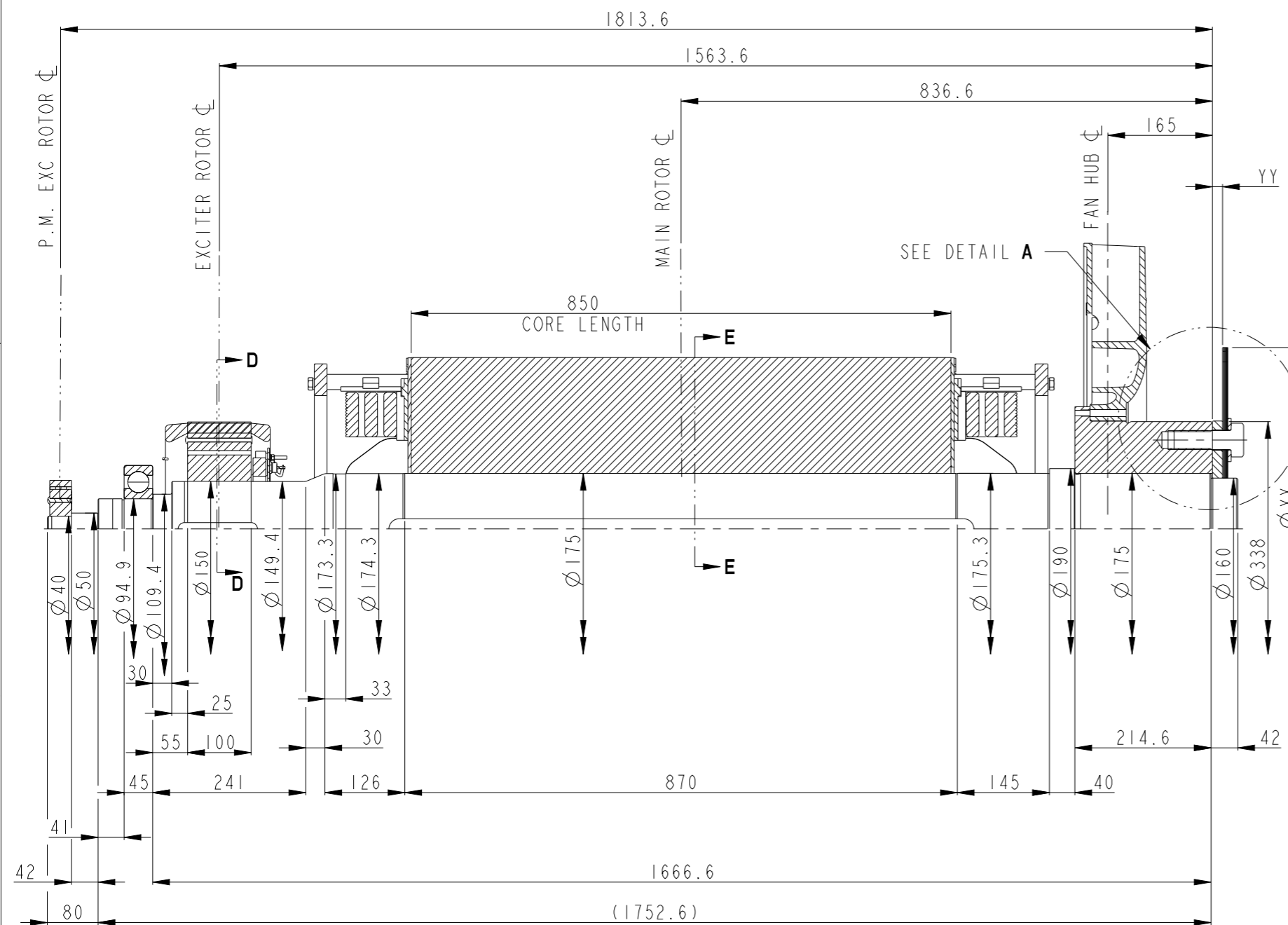


REL NO	REV	NO	REVISION	DWN	CKD	APVD	DATE
ECO-178097	A	1	PRODUCTION RELEASE	KSK	NPD	I.SAUNDATTI	01NOV18

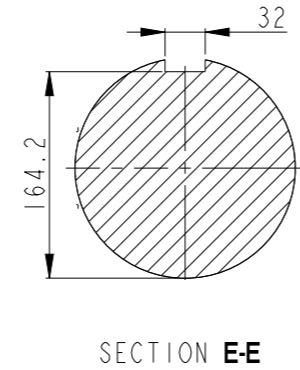
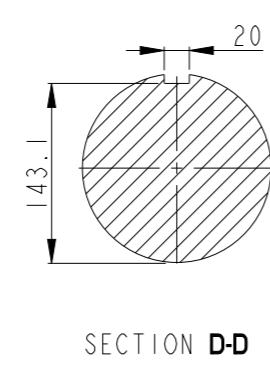
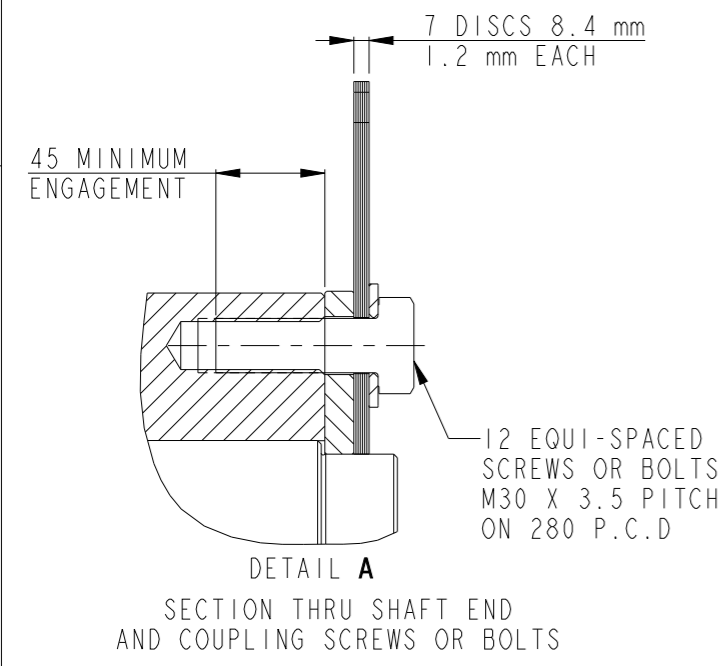
- NOTES:
- SHAFT STIFFNESS:
THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ϕ AND THE COUPLING HUB IS 120.56×10^6 kgcm/radian (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)
 - SHAFT PROPERTIES:
MINIMUM YIELD : 260MPa
MINIMUM ULTIMATE TENSILE STRENGTH : 530MPa
SHAFT MATERIAL IS APPROVED BY MARINE AUTHORITIES WHEN APPROPRIATE
 - MAXIMUM RECOMMENDED VIBRATORY STRESS LEVEL IN THE SHAFT IS 34.47×10^6 N/M² FOR SPEED RANGE OF 0.95 TO 1.1 X NOMINAL SPEED AND 68.94×10^6 N/M² FOR RUN THROUGH CONDITIONS, FOR INDUSTRIAL MACHINES
 - FOR MARINE AUTHORITIES, THEIR APPROPRIATE RULES WILL APPLY
 - CUMMINS GENERATOR TECHNOLOGIES LTD SHOULD BE NOTIFIED OF ANY ROTORS NOT COMPLYING WITH THESE RULES
 - CUMMINS GENERATOR TECHNOLOGIES LTD BALANCE ROTORS TO COMPLY WITH INTERNATIONAL STD ISO 1940 GRADE 2.5 AND BS 6861 PART 1 GRADE 2.5
 - FOR UNBALANCED MAGNETIC PULL (U.M.P.) FORCES PLEASE CONTACT CUMMINS GENERATOR TECHNOLOGIES LTD



COMPONENT	Wt Kg	WR ² Kgm ²
FAN	37.27	4.049
HUB	117.123	2.1994
SHAFT	309.74	1.1307
MAIN ROTOR	1291.94	49.7541
EXCITER ROTOR	62.258	0.9988
P.MAG ROTOR	6.970	0.0190
STUB SHAFT	0.929	0.0003
TOTAL	1826.23	58.1513

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

COUPLING SAE No.	COUPLING DIMENSIONS		TOTAL MASS OF COUPLING ASSEMBLY (kg)	COUPLING STIFFNESS (kgcm/rad)	COUPLING DISC WR ² (kgm ²)
	Ø XX mm	YY mm			
18	572	16	27.85	1857 X 10 ⁶	0.590
21	673	00	25.92	1713 X 10 ⁶	1.135
24	733	00	30.08	1666 X 10 ⁶	1.598



UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS

SCALE 1:1

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SIM TO - DO NOT SCALE PRINT

DWN K. KAWADE
CKD N. DAHIWELKAR
APVD I. SAUNDATTI
DATE 01NOV18

FOR INTERPRETATION OF DIMENSIONING AND TOLERANCING, SEE ASME Y14.5-2009

FIRST USED ON S7

CUMMINS GENERATOR TECHNOLOGIES
DRAWING, TORSIONAL
S7J, 4POLE, 1-BRG

SITE CODE PUN
DWG SIZE A2
A060T449

CAD SHEET 1 of 1