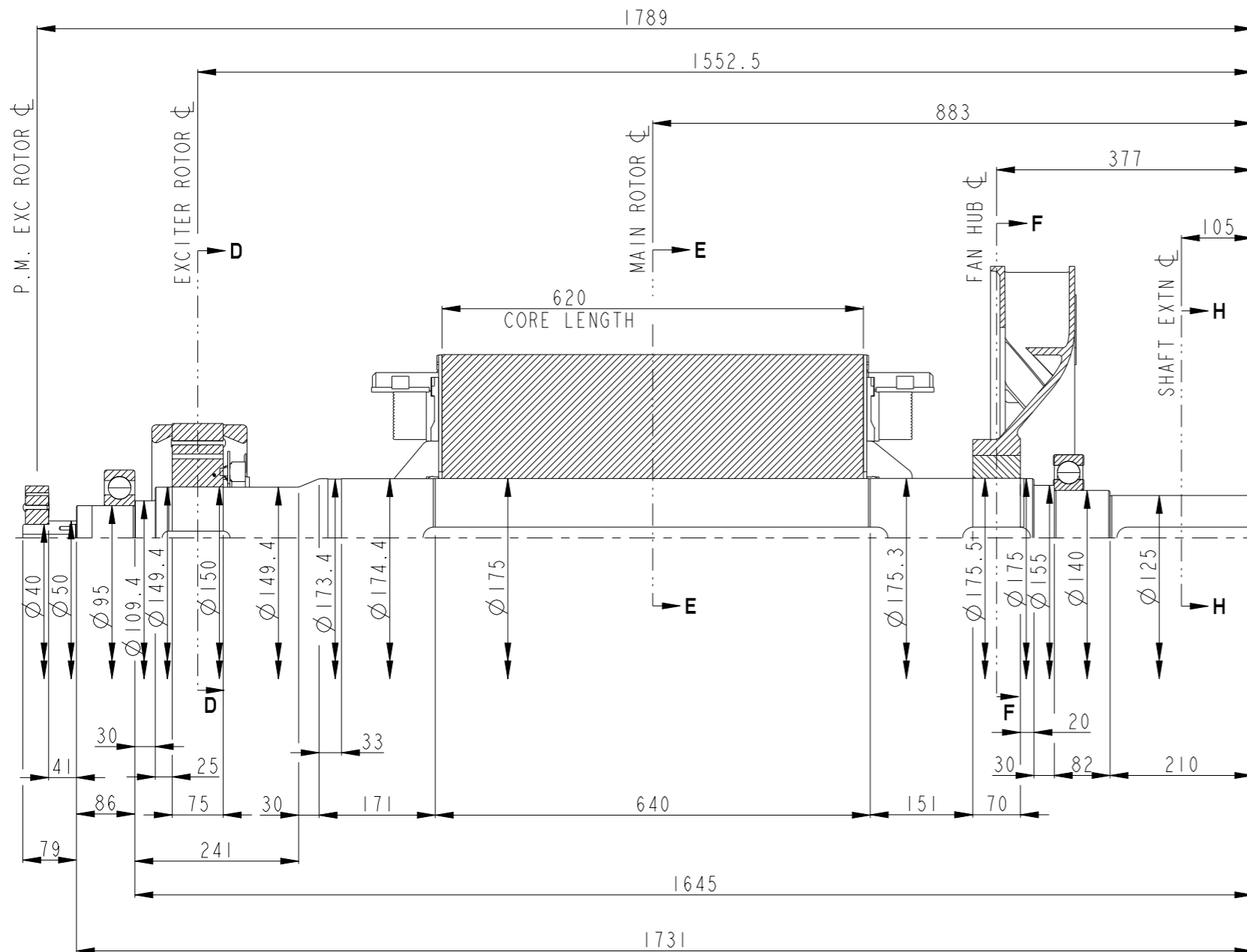
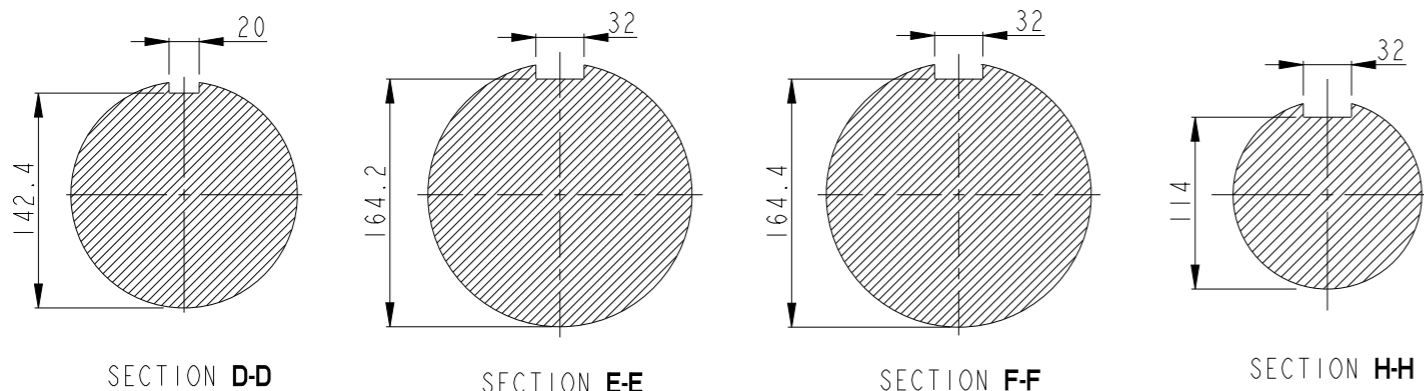


REL NO	REV	NO	REVISION	DWN	CKD	APVD	DATE
ECO-180756	A	1	PRODUCTION RELEASE	KDP	NPDI	I.SAUNDATTI	08OCT18



NOTES:

- SHAFT STIFFNESS:  
THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE AND THE COUPLING HUB IS  $60.97 \times 10^6$  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  $34.47 \times 10^6$  N/M<sup>2</sup> FOR SPEED RANGE OF 0.95 TO 1.1 X NOMINAL SPEED AND  $68.94 \times 10^6$  N/M<sup>2</sup> 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



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

COMPONENT	Wt Kg	WR <sup>2</sup> Kg m <sup>2</sup>
FAN	28.800	1.6520
SHAFT	271.47	0.8757
MAIN ROTOR	945.359	36.7607
EXCITER ROTOR	46.791	0.7758
P. MAG ROTOR	6.970	0.0190
STUB SHAFT	0.929	0.0003
TOTAL	1300.319	40.0835

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS	SIM TO -	DWN K.PAWAR		CUMMINS GENERATOR TECHNOLOGIES	
	DO NOT SCALE PRINT	CKD N.DAHIWELKAR		DRAWING, TORSIONAL	
SCALE 1:1		APVD I.SAUNDATTI	SITE CODE	S7F, 4POLE 2B	
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		FOR INTERPRETATION OF DIMENSIONING AND TOLERANCING, SEE ASME Y14.5-2009	FIRST USED ON S7		CAD SHEET 1 of 1