

2027.6

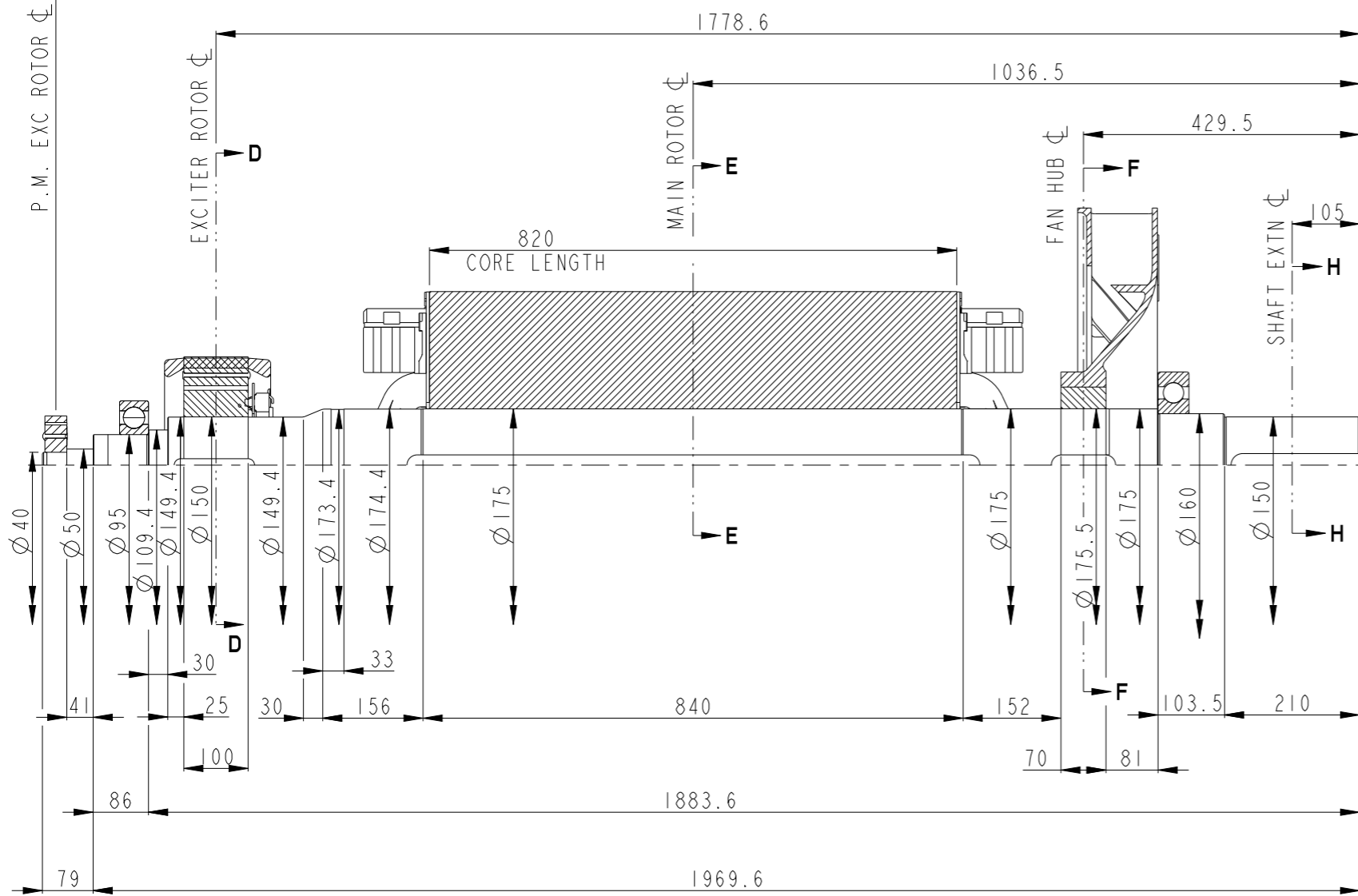
1778.6

1036.5

429.5

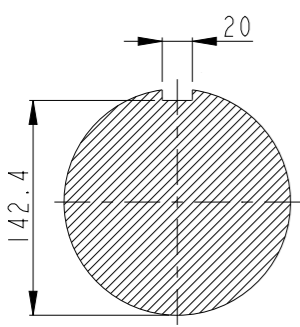
820
CORE LENGTH

SHAFT EXTN
105

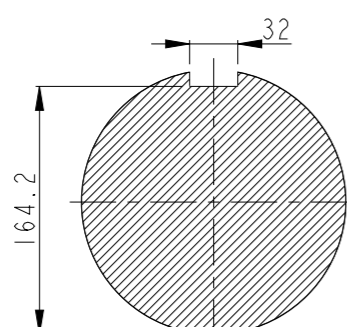


REL NO	REV	NO	REVISION	DWN	CKD	APVD	DATE
ECO-182287	B	1	ZONE A1, TITLE BLOCK 2B WAS 1B	KDP	NPDI	I.SAUNDATTI	11DEC18

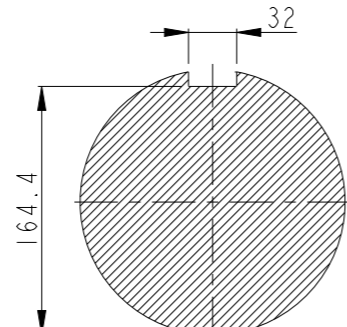
- NOTES:
- SHAFT STIFFNESS:
THE STIFFNESS OF THE SHAFT BETWEEN THE MAIN ROTOR CORE ϕ AND THE COUPLING HUB IS 69.37×10^6 kgcm/radian (STIFFENING EFFECT OF MAIN ROTOR CORE IS NOT INCLUDED IN THIS FIGURE)
 - SHAFT PROPERTIES:
MINIMUM YIELD : 260MPa
MINIMUM ULTIMATE TENSILE STRENGTH : 530MPa
SHAFT MATERIAL 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



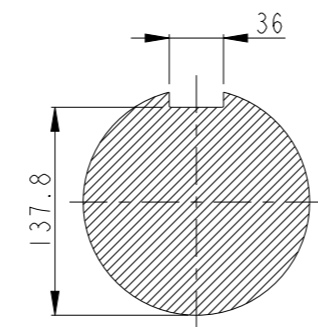
SECTION D-D



SECTION E-E



SECTION F-F



SECTION H-H

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

COMPONENT	Wt Kg	WR ² Kg m ²
FAN	28.800	1.6520
SHAFT	328.81	1.1532
MAIN ROTOR	1222.99	47.4835
EXCITER ROTOR	62.258	0.9988
P.MAG ROTOR	6.970	0.0190
STUB SHAFT	0.929	0.0003
TOTAL	1650.757	51.1796

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS

SCALE 1:1

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SIM TO -

DO NOT SCALE PRINT

DWN K.PAWAR

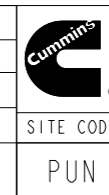
CKD N.DAHIWELKAR

APVD I.SAUNDATTI

DATE 08OCT18

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

FIRST USED ON S7



CUMMINS GENERATOR TECHNOLOGIES

DRAWING, TORSIONAL

S7H, 4POLE 2B

SITE CODE

PUN

DWG SIZE A2

A061N533

CAD SHEET 1 of 1