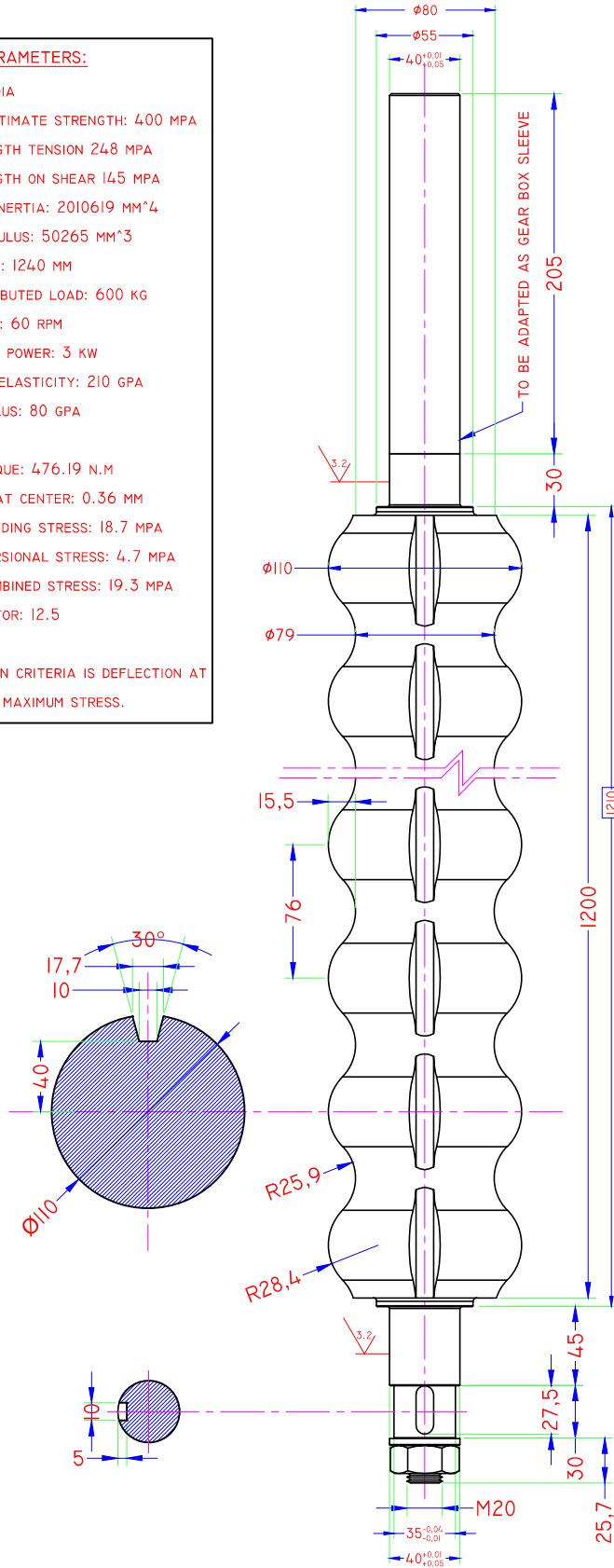



DESIGN PARAMETERS:

AXE 80 MM DIA
 MATERIAL ULTIMATE STRENGTH: 400 MPA
 YIELD STRENGTH TENSION 248 MPA
 YIELD STRENGTH ON SHEAR 145 MPA
 MOMENT OF INERTIA: 2010619 MM⁴
 SECTION MODULUS: 50265 MM³
 SPAN LENGTH: 1240 MM
 TOTAL DISTRIBUTED LOAD: 600 KG
 SHAFT SPEED: 60 RPM
 TRANSMITTED POWER: 3 KW
 MODULUS OF ELASTICITY: 210 GPa
 SHEAR MODULUS: 80 GPa

APPLIED TORQUE: 476.19 N.M
 DEFLECTION AT CENTER: 0.36 MM
 MAXIMUM BENDING STRESS: 18.7 MPA
 MAXIMUM TORSIONAL STRESS: 4.7 MPA
 MAXIMUM COMBINED STRESS: 19.3 MPA
 SAFETY FACTOR: 12.5

NOTE: DESIGN CRITERIA IS DEFLECTION AT CENTER, NOT MAXIMUM STRESS.



SUM	0600201	DRIVEN AXE	80 X 1340 X 79	1	ROD 80 MM	48.154	KG STEEL
ITEM	PART NO.	TECHNICAL DESCRIPTION	QUANTITY	MATERIAL	UNIT WEIGHT		
		DRAWING TITLE: DRIVEN AXE	CLIENT NAME:	DESIGNED BY:	CHECKED BY:	APPROVED BY:	
WEB SITE : WWW.CADSOUL.COM E-MAIL: CADSOUL@CADSOUL.COM		DRAWING NO.:	0600301	FINISH MATERIAL	SHEET 7:27	SCALE DIMS IN MM	DATE 15/06/2014