POWER CON-ROD ASSEMBLY

BIG END BUSH
Material: Brass
Weight = 0.72g

SMALL END BUSH
Material: Brass
Weight = 0.54g

Dimensions:
- Diameter 10.015
- Diameter 6.012
- Length 80 ±0.05
- Diameter 8.030
- Diameter 6.008
- Diameter 3.025
- Diameter 3.000

Tolerances:
- XXX (1 P.M.) ±0.5 MM
- XXX (2 P.M.) ±0.1 MM
- XXX (3 P.M.) ±0.03 MM
- XXX (4 P.M.) ±0.007 MM

UNLESS OTHERWISE NOTED

Scale: 1.5:1
Sheet 5 of 18
DIAPLACEMENT PISTON SHAFT - Material: Plain Carbon Steel  
Weight = 18.98 g

DIAPLACEMENT PISTON CAP - Material: Plain Carbon Steel  
Weight = 40.92 g

DIAPLACEMENT PISTON BODY

SECTION AI-AI
SCALE 1:1

DETAL AJ
SCALE 2:1

DIAPLACEMENT PISTON ASSEMBLY
THIS RIGHT SIDE FRAME PART IS EXACTLY THE SAME AS THE LEFT SIDE FRAME EXCEPT THAT IT IS THE OPPOSITE HAND.

In SolidWorks to create a mirrored, derived part you click the appropriate model face or plane about which to mirror the part, and click Insert>Mirror Part. Because the mirrored version is derived from the original version, the two parts always match.
Axis of 60° hole to coincide with internal corner before R1 fillet is added.

Unless otherwise specified dimensions are in millimetres.

Tolerances are:
- XXX [±1.5]: ±0.5 mm
- XXX [±2.5]: ±0.1 mm
- XXX [±3.5]: ±0.03 mm
- XXX [±4.5]: ±0.007 mm

UNLESS OTHERWISE NOTED

ANGLE TOLERANCE: ≤5°

UNLESS NOTED.

Sheet Name: Flywheel
4 x Ø 4.50 THRU ALL

Φ 7

COUNTERBORES SIZED TO SUIT M4 SOCKET HEAD CAP SCREW

SECTION M-M

R2

R5

Unless otherwise specified, dimensions are in millimetres.

Tolerances are:

XXX [1-15] ±0.05 MM

XXX [1-10] ±0.01 MM

XXX [2-15] ±0.03 MM

XXX [3-15] ±0.027 MM

UNLESS OTHERWISE NOTED

ANGLE TOLERANCE ±5°30'

UNLESS NOTED

Sheet Name: Cross Cylinder Support

Material: Brass

Weight: 92.63g

Scale: 1:2:1

Sheet 16 of 18
8 x Ø 4.50 EQUALLY SPACED ON 38 PCD

INSTRUMENT PRECISION BALL BEARING 20619
M4 X SOCKET GRUB SCREW CONE POINT 2 OFF
M3 16 SLOTTED PAN HEAD SCREW
M6 X 16 SLOTTED CHEESE HEAD SCREW 2 OFF
M4 x 20 SOCKET HEAD CAP SCREW 8 OFF
M3 16 SLOTTED PAN HEAD SCREW
M3 HEXAGONAL THIN NUT

M3 X 10 PARALLEL PIN
M4 x 16 SOCKET HEAD CAP SCREW 4 OFF
M6 X 10 SOCKET HEAD CAP SCREW 4 OF

UNIVERSITY OF LIMERICK
GASKET AND TOOLBOX PARTS

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