

Our precision machined components <u>are incorporated into a wide range of finished</u> <u>assemblies</u> produced by industry leaders around the world





Gear Pump



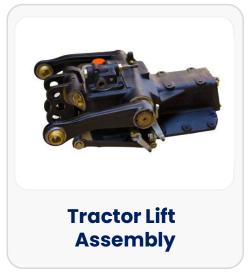














Control System Components

















Hydraulic System Components























Piston Pump Components



Barrel Assembly



















Turned Components





Shafts











Aerospace













Gear Pump





Spools – Technical Data









12L14/1215, EN1A, 1144, 16MNCR5, 8620, 4140, SCM 415/420 Material

Upto 300 mm

Length

0.001 mm

Roundness

0.001 mm

Straightness

4mm - 30 mm

Diameter

± 0.001 mm (Need to co-relate with the gauge & measuring temperature)

Tolerance

0.002 mm

Cylindricity

(less than 0.4 Ra) Heat Treated, Hard Chrome Plated

Finishing

Sleeves | Cartridges | Cages – Technical Data



12L14/1215, EN1A, 1144, 16MNCR5, 8620, 4140, SCM 415/420, Cast Iron

Material



Length



Match assembly

0.001 mmStraightness

4mm - 25 mm (Honing/Hard turning)

Bore Diameter

± 0.0015 mm (Need to co-relate with the gauge & measuring temperature)

Tolerance

0.002 mm

Cylindricity

(less than 0.4 Ra) Heat Treated, Casting

Finishing



Plungers | Poppets | Splungers - Technical Data



12L14/1215, EN1A, 1144, 16MNCR5, 8620, 4140, SCM 415/420

Material

Upto 100 mm

Length

0.001 mm

Roundness

0.002 mm

Straightness

4mm - 25 mm

Diameter

± 0.0025 mm (Need to co-relate with the gauge & measuring temperature)

Tolerance

0.002 mm

Cylindricity

(less than 0.4 Ra) Heat Treated

Finishing

Gears | Shafts - Technical Data



16MNCR5, 8620, 4140, SCM 415/420

Material

12mm - 35 mm Diameter

Upto 600 mm

Length

Upto 6 moduleGear Module

DIN 7/8
Class

Hobbing/Rolling
Spline

OD super finishingPolishing

(less than 0.4 Ra) Heat Treated Finishing



Stay Bolts | Tie Rods



Steel with Tensile Strength up to 1200 Mpa

Material

Up to 600 mm

Length

Thread rolling for higher thread strength

Thread

Up to 12 mm

Diameter

Plating with Hydrogen de-embrittlement Plating

Pistons | Shoes





SAE 8620, 16MNCR5, Bronze

Material

8 mm - 28 mm

Length

less than 0.15 Ra

Super Finish

Up to 100 mm

Diameter

less than .07 end play & Up to 6000 N pull test passed

Crimping

Casting Machining





Cast Iron, Continuous Die Cast

Material

100 g - 20 Kg Weight

High Pressure and Ultrasonic Cleaning

Cleaning

Continuous 5
Axis Machining
Capability

Manifolds





Aluminum, Casting, Mild Steel

Material

Up to 200 x 200 mm Size

Special deburring methods including thermal deburring is used for burr free part

Deburring

Up to 20 Kg Weight

High Pressure and Ultrasonic Cleaning Cleaning









