

## **FAQ FOR MACHINE INSPECTION:**

### **Workmanship:**

- ✍ Colour
- ✍ Grinding – Bed and Spindle
- ✍ Smoothness of Wheels, Levers etc...
- ✍ Backlash of Wheels
- ✍ Cutting Finish and Smoothness
- ✍ Heavy / Rough Cutting
- ✍ Oil Level
- ✍ Heating of Main Spindle Bearing while High Speed Running
- ✍ Hardness of Bed, Spindle, Gear, Spline etc...
- ✍ Accuracy :
  - ✍ Parallelism of Tailstock.
  - ✍ Straightness of Bed
  - ✍ Flatness while face cutting
  - ✍ Run out while rotation
  - ✍ Run out on Job

### **Material use:**

- ✍ Bearing
- ✍ Color
- ✍ Cast Iron
- ✍ Turcite-B

### **Rules & Standard**

At the time formation of machine, we keep focus to follow below said IS standards:

- ✍ Test Chart for General Purpose Parallel Lathes
- ✍ IS 10988: 1984 for Noise Level
- ✍ IS 4218 (Part 3) : 1999 & IS 4218 (Part 4): 2001 for Threads
- ✍ IS 9474-1980 for Mechanical Guarding
- ✍ IS 2218 for Speed
- ✍ IS 2219 for Feeds
- ✍ IS 1715 for Tang Shank Taper
- ✍ IS 325 – Electric Motor
- ✍ IS 2876 : 1999 for Self Centering Chuck
- ✍ IS 10612 : 1983 for Independent Chuck

## **Instrumentation**

List of Testing Equipments:

- ✍ Straight Edge Meter
- ✍ Spirit Level – Precision
- ✍ Hardness Tester – BHN Scalrow
- ✍ Techo Meter – RPM – MPM
- ✍ Thermo Meter – Temperature
- ✍ Sound Level – Decibel DB
- ✍ Screw Thread – Special Tester
- ✍ Test Mandrel – Long Bar – MT
- ✍ Dial Indicator – Micrometers
- ✍ Bevel Protector – Vernier Caliper
- ✍ Thread, Slip, Plug, Ring, Gauge
- ✍ Surface Plate, Height Gauge, V Block
- ✍ Lead & Profile Test - Stillnberg

## **System of Making:**

- ✍ Assemble assembly and sub assembly at our floor only.
- ✍ All parts purchase from market as per our design, pattern and drawing.
- ✍ Well experienced and skilled team for machine and assembly inspection.
- ✍ Machine and assembly inspection reports are precisely followed.
- ✍ We strictly inspect all parts with its material tolerance and reference.
- ✍ For Case Hardening Process in Pit type Gas Carburizing Furnace with PID Controller, Oxy-Probe and Recorder for their parts like Gears, Lock Nut, Spindle. The material used generally – 20MnCr5 or SAE 8620.
- ✍ For Head Stock Boring – WMW Boring Machine
- ✍ For Flame Hardening of Lathe Machine Bed.
- ✍ WMW Planning Machine for Rough and Finishing for the Lathe Machine Bed.
- ✍ METISAN – USA make Surface Grinding Machine for Grinding of Lathe Bed.
- ✍ HMT Type Harden Plan for Hardening Process.