



D-U-N-S No. 65-038-3222  
ISO 9001 : 2008 Certified Company

# THE **DEE INDIA** OVERSEAS





We manufacture a valve for almost any application. If it's a four stroke engine no matter what type, car, 4x4, SUV, quad, bike, tractor, vintage even a truck, we can supply valves. We have a wide range of blank forms, all made with different materials and in different sizes.

In our Custom Range we also modify standard and or replacement valves. The valve can be lightened, undercut and or swirl polished for Street Performance use. We are able to lengthen the valves as much as 0.5 mm and harden the tip. Our Street Performance valves are very popular and are used in all our flowed and or big valve head conversions.

A Standard Replacement Valve that has been swirl polished and aerodynamically flowed will result in good performance gains even if used in a standard cylinder head.

We have a wide range of blank forms, all made with different materials and in different sizes. [Click here](#) to printout a blank drawing template that you can use to give us all the dimensions and we can quote accordingly.

All our Custom Range Street Performance valves feature:

- ◆ Undercut stem up to .5mm reduction until polished area.
- ◆ Swirl polished head / neck area.
- ◆ Aerodynamic valve head shape.
- ◆ Refaced Valve tip-end.
- ◆ Reduced weight.
- ◆ Special multiple seat angles and sizes.
- ◆ De burred, radiuses and removed sharp edges.
- ◆ Unmatched quality control.

Optional special finish:

- ◆ Polished valve face.
- ◆ 0.5 mm stem reduction on bi-metal valves with a extra 5 mm of stem undercut
- ◆ 0.7 mm stem reduction on one piece valves with a extra 7 mm of stem undercut
- ◆ Further reduced weight "maximum" dished face area.
- ◆ Polished stem.

Our current range of engine valve for Car, Truck, Motorcycle, Three wheeler, Diesel Engine. Apart from our range we are comfortable to develop any prototype engine valve as per requirement.

- FORGING UPSET AND PRESS SET
- CNC TURNING MACHINES
- CENTRE LESS GRINDING MACHINES
- INDUCTION HARDING MACHINE
- S.P.M. FOR ENGINE VALVE
- SEAT GRINDING MACHINES
- LETHE MACHINES

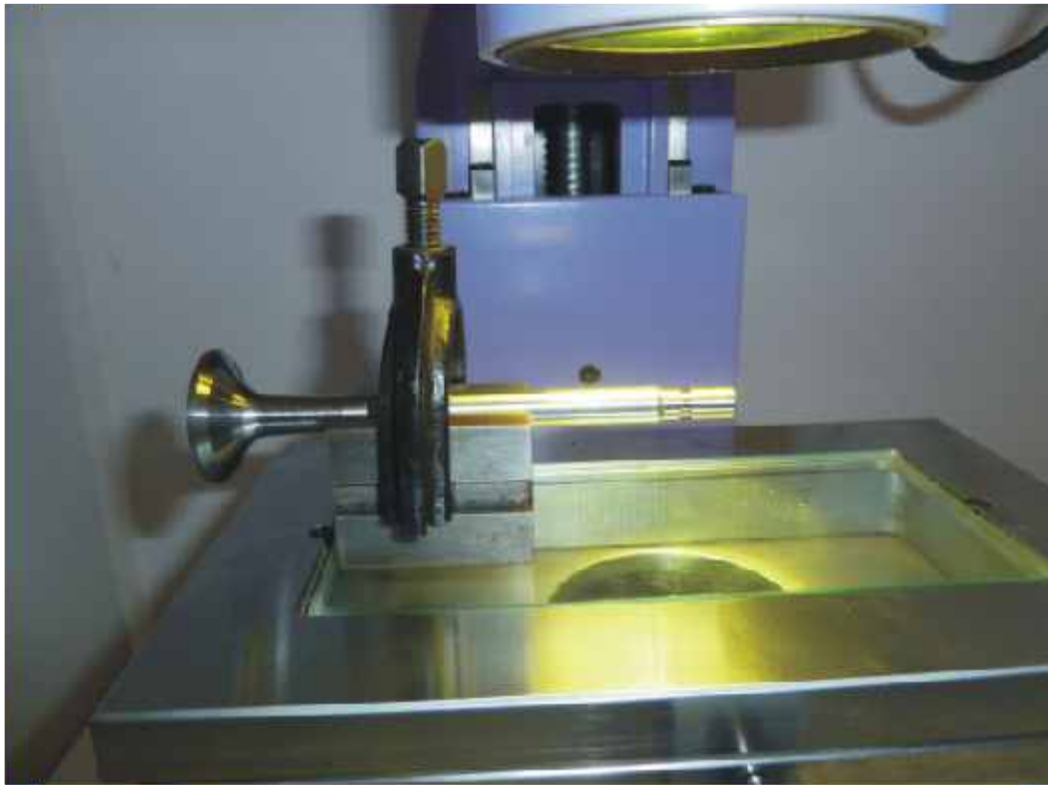
# PRODUCTION FACILITIES



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## QUALITY CONTROL FACILITIES

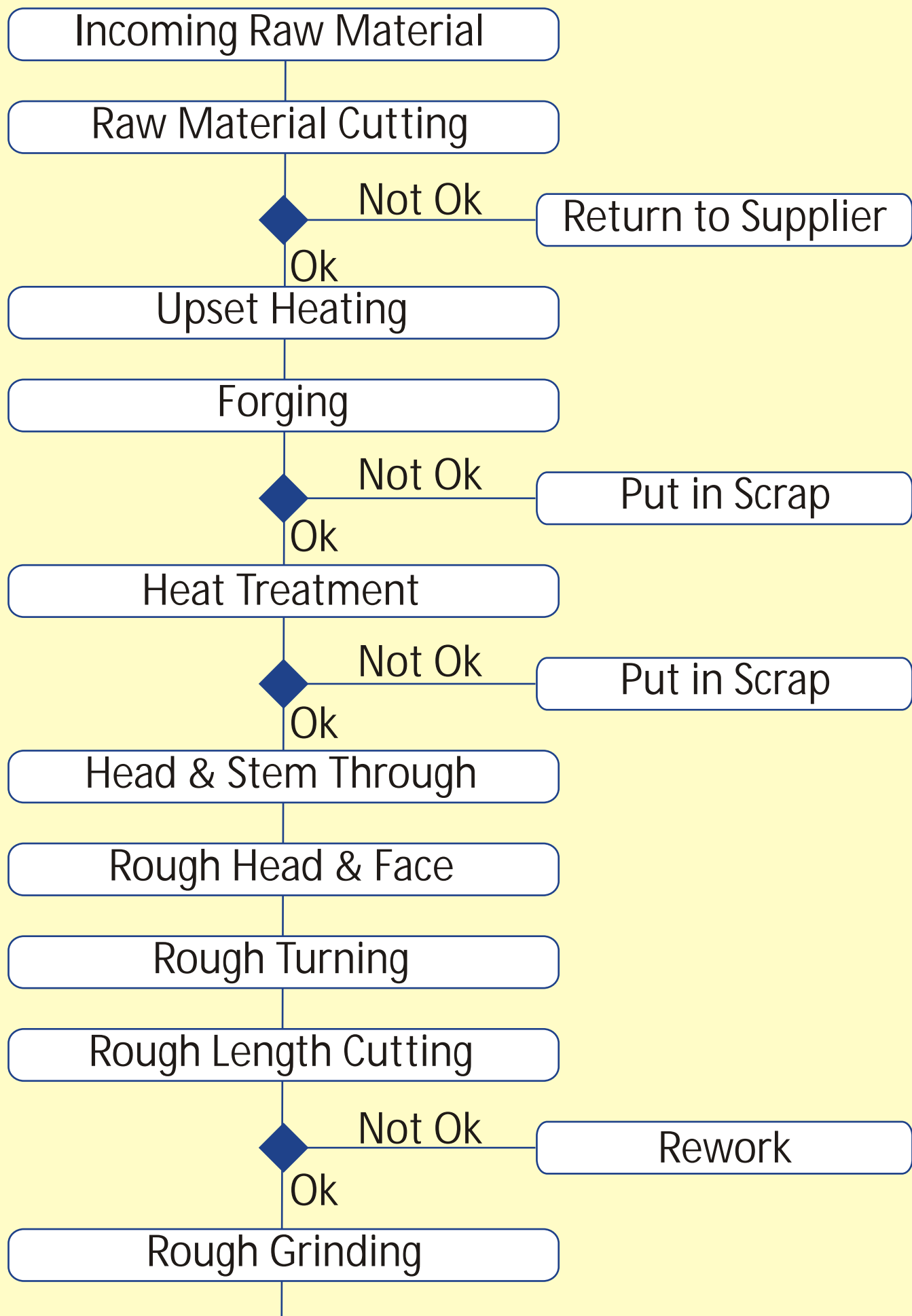
For quality control Unicorn Valves has all the required measuring instruments like:

- Special Purpose Gauges for Length, Diameter, Groove distance, Runout etc.
- Hardness Tester
- Roughness Tester
- Profile Projector





# Proces Flow Chart For valve





Final Head

Final Face

Final Radius

Final Length

Rough Stem Grinding

Groove

Tip Indication Hardening

Chamfer

Tip Face Lapping

Rough Stem Grinding

Final Seat Grinding

Final Stem Grinding

Burnishing

Final Inspection



Not Ok

Rework

Ok

Packing

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