

NASA METAL TREAT



Future is along the ride

NASA METAL TREAT GAS NITRIDING – The efficient and environment friendly surface treatments for the automotive industry, Machine parts, Tools & dies,
And other innumerable engineering goods...



NASA METALTREAT NITRIDING FOR AUTOMOTIVE COMPONENTS



Connecting rods/Piston rings/ Piston Pin/ Crankshaft .

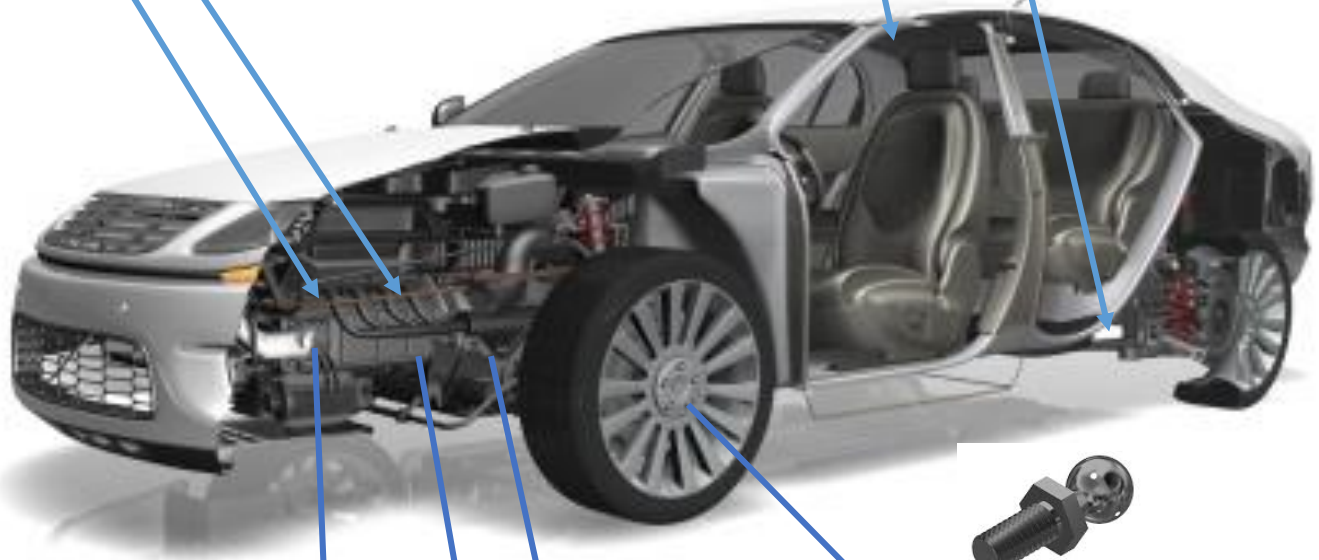


Valve Spring.

Mould structure elements.



Bevel Gear.



Ball Stud.

Injector Needles/ Valve Pistons/ Injector Nozzle.



Synchronizer ring.

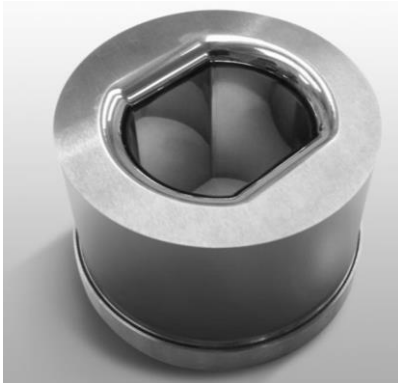


Tappets/ Valve/ Rocker arm.



NASA METALTREAT NITRIDING FOR DIES AND MOULD

SHEET METAL FORMING/HOT FORMING DIES & PUNCHES.



HIGH PRESSURE DIE CASTING & ALUMINIUM EXTRUSION.



PLASTIC MOULDING.

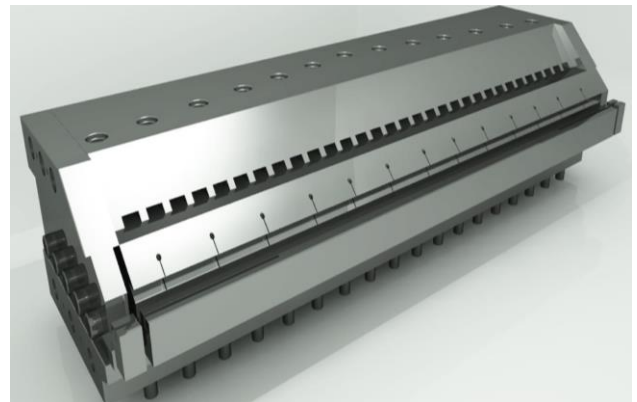
SHOT SLEEVE.



MACHINE PARTS



EXTRUSION DIES



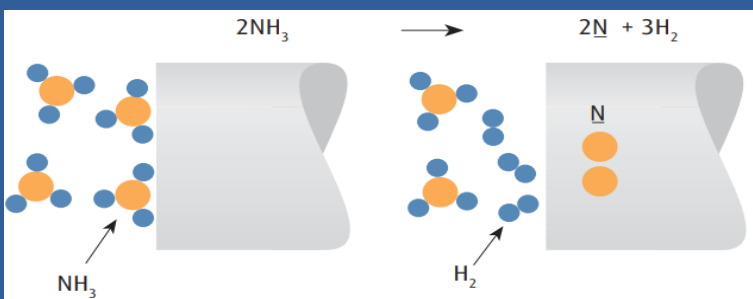
Benefits of NASA METAL TREAT GAS NITRIDING

- 1.Improved wear resistance: Gas nitriding creates a thin layer of nitrides on the surface of the metal part, which enhances its hardness and wear resistance. This makes the part more resistant to abrasion, friction, and other forms of wear.
- 2.Increased fatigue strength: The nitrided layer produced by gas nitriding also improves the fatigue strength of the metal part. This means that the part can withstand repeated cycles of stress without cracking or breaking.
- 3.Enhanced corrosion resistance: The nitrided layer also improves the corrosion resistance of the metal part, making it more resistant to rust, oxidation, and other forms of corrosion.
- 4.Low distortion: Gas nitriding produces very little distortion in the metal part, which means that the part's dimensions and shape remain largely unchanged. This is particularly important for parts with complex geometries or tight tolerances.
- 5.High efficiency: Gas nitriding is a relatively fast and efficient process, which means that it can be performed quickly and at a lower cost compared to other surface treatment methods.
- 6.Environmental friendliness: Gas nitriding does not use any hazardous chemicals or produce any toxic waste, making it an environmentally friendly process.
- 7.Post Oxidation: Post oxidation provides additional corrosion resistance and can improve wear properties by reducing the coefficient of friction.

Furnace Specifications: Fully Auto Pit Type Gas Nitriding Furnace

Working Dimensions – $\phi 700\text{mm}$ x Height 1000mm

Max. Charge Weight – upto 500 kg.



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S.B. Enterprises Premises, Plot No. 23E, Sarve No. 82/1, Behind NMC School, Beside Patil Transport, New Ambad MIDC, Ambad Village. Nashik-422011

Phone:-9890522709

Mail:-nasametaltrat@gmail.com

www.nasametaltrat.com