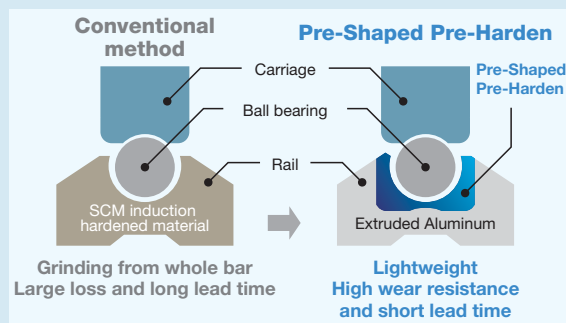


Pre-Shaped Pre-Harden

Reduce costs

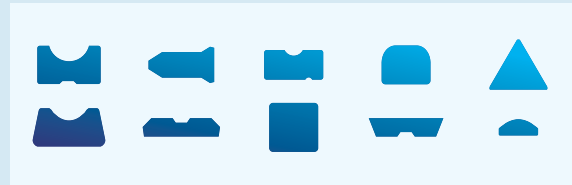
To produce railing parts for machine drives requires a lot of production time from shaping to grinding. "Pre-shape Pre-Harden" is precisely shaped heat treated material that is near the finished shape and size. This can sharply reduce production time and cut costs. Plus life expectancy can be greatly increased by using high-speed steel for parts exposed to wear. Size and weight can be reduced by combination that with extruded aluminum.



Wide variety of shapes

Pre-Shaped Pre-Harden is available in a wide variety of shapes.

Typical Pre-Shaped Pre-Harden material shapes



Pre-Shaped Pre-Harden production range



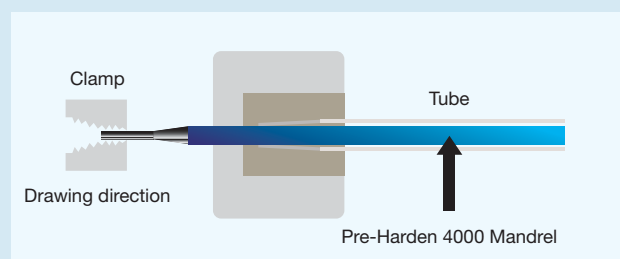
* Other shapes are available upon request.

Pre-Harden 4000

Wide selection of lengths

"Pre-Harden 4000", 4000mm length "Pre-Harden" which is made by precise heat treatment, can be used as a mandrel drawing tube to make a tube. Mandrel of "Pre-Harden 4000" has tighter tolerance and achieves longer life than oil tempered steel wire.

- Oil tempered wire → Poor wear resistance and toughness → Short tool life
- Pre-Harden 4000 → High wear resistance and high toughness → Longer tool life

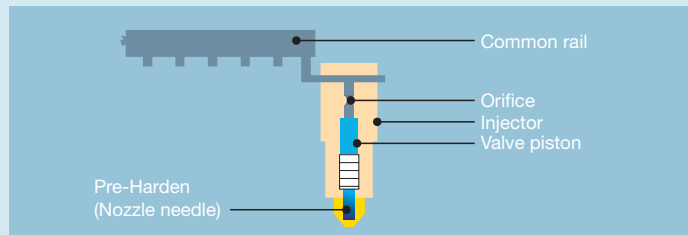


Applications

Automotive Parts

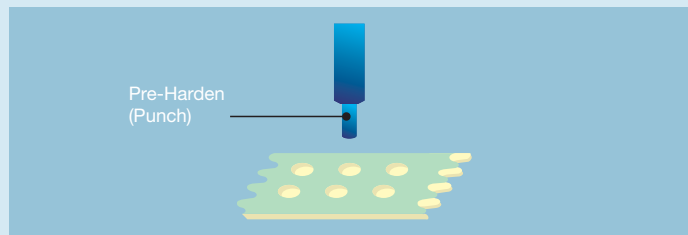
Engine components that require straightness and consistent strength.

With "Pre-Harden" only a little work is needed to complete the product.



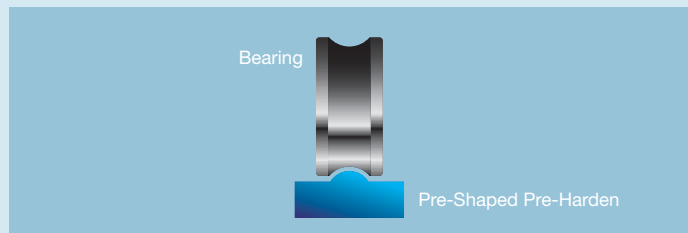
Electronic components

Tools for punching holes in IC boards requires high accuracy and longevity, with "Pre-Harden" only the tip needs to be machined for a highly durable pin



Machinery parts

"Pre-Harden" has been heat treated so it just needs to be installed for extremely straight conveyor rails for bearings.



Medical drills

It is possible to get the best conditions for maximum anti-corrosive properties by using, for example, Pre-Harden martensitic stainless steel 420J2.



Immersion test in 5% saline solution for 24 hours



Cutting Blades

"Pre-Shaped Pre-Harden" can provide near finished shapes even for complicated blade forms. Heat treatment is already finished so the blade only needs to be sharpened.

