

UNI GROUP TOOLS & SERVICES

Hard Chroming for Box Sector & Rack / Pinion Shafts

Hard Chroming is essential for reconditioning a steering unit, the shaft is a critical wear component that operates under constant load and seal contact. Over time, shafts may develop corrosion, pitting, or surface wear, which can lead to fluid leakage, premature seal failure, and compromised steering performance.

Hard chroming the shaft restores the correct surface finish and dimensional tolerance required for proper seal operation. This process improves corrosion resistance, reduces friction, and extends the service life of both the shaft and internal sealing components.

Uni Group (Pty) Ltd offers this service through reputable and trusted engineering company based in the Western Cape.

This process takes on average 2-5 days depending on the state of the shaft and additional tank time, grinding or engineering work required.



Universal Rack End Tool - Part Number: 211992

Tools are available on request. Manufacturing lead times are subject to raw materials and production line availability.



The universal rack end tool is designed to remove and replace rack ends.

The unique mechanism adapts automatically to every shape and diameter of a rack end and functions on most vehicles.

How to use: Before removing the tie rod end and lock nut, mark the position of the tie rod on the rack end threads. Loosen the locknut on the tie rod and remove the tie rod end. Slide the tool over the rack end and turn by hand till the roller engages and grips the ball joint housing. Use the socket or wrench on the outer end to loosen or tighten.

Seal Puller & Attachments - Part Number: DJE-01

DJE-01A	DJE-01B	DJE-01C
Seal ID: 22 - 28mm	Seal ID: 29 - 34mm	Seal ID: 35 - 40mm



The seal puller is designed for quick and easy extraction of seals from the rack shaft housing without damaging the unit. The three head attachments allow removal of seals with an internal diameter of 22 - 40mm. Head attachments sold separately.

Set of Installation Tools - Part Number: HEE-03



Pinion Bulk Head & Adjuster Socket
Part Number: HEE-01 & HEE-02



Lock Nut Wrench - 1 3/4"

