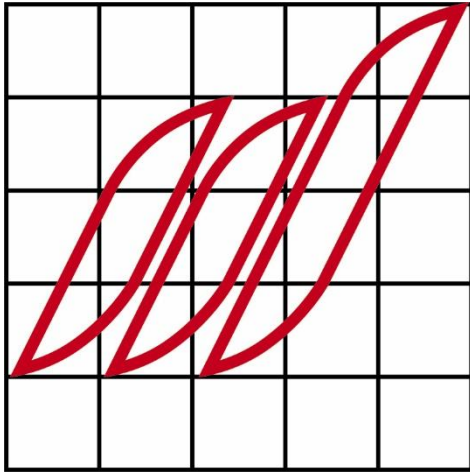




Streicher
G E W I N D E T E C H N I K

Streicher
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Agenda

Top Cut

Machine Exterior View

Electric equipment

Pneumatic equipment

Protective cover

Machine Info

Feed

Workspace

Cam Drive

Linear Drive

Flange Nut Carriage

Round Nut Carriage

Taps

Top Cut

Machine Exterior View



- Machine Front view
- Compact Assembly
- Touchscreen Operation.
- Protective Cover for Safe Workspace and Nut Feed .

Top Cut

Machine Exterior View



- Machine View with Chip Outlet

Top Cut

Machine Exterior View



- Machine Rear View
- Touchscreen Operation also at this side.
- Electric equipment mounted behind the doors inside the machine base.

Top Cut

Machine Exterior View



- Headstock side
- After the opening of both headstock doors the taps can be changed.
- Both nut eject tubes are shown in the picture.

Top Cut Electric Equipment



- The electrical room for power supply is mounted behind the left doors at the rear side of the machine.
- No safety fuses are present.
- All short circuits or overcurrents are monitored by the protective motor circuit breaker.

Top Cut Electric Equipment



- The electric room for the 24 V control current with Siemens SPS is mounted behind the right doors at the rear side of the machine.
- No protective fuses are present either.

Top Cut Electric Equipment



- With too high temperatures the control cabinet fans are switched on for the ventilation of both electric rooms.
- Filters with exchangeable polypropylene filter mats prevent the suctioning of dust particles.

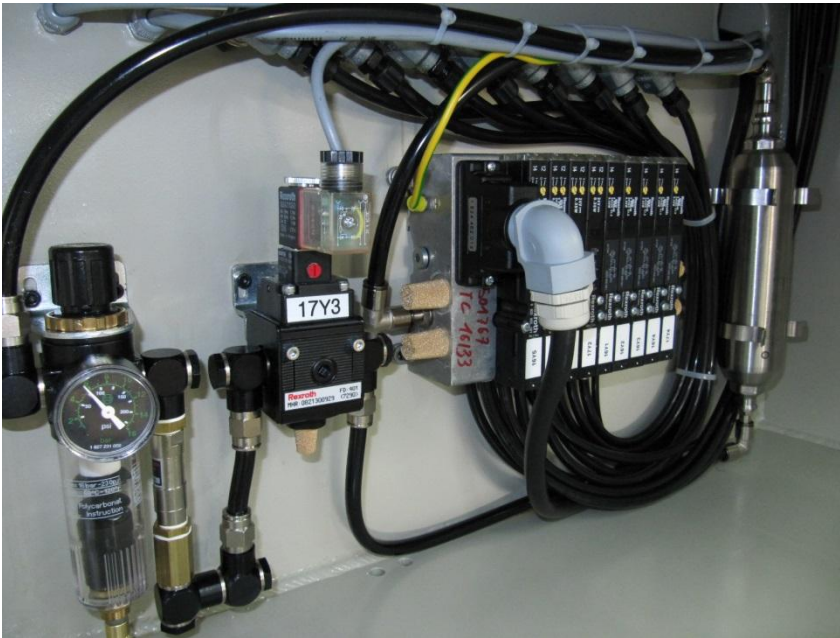
Top Cut Electric Equipment



- The hot air is driven out of the electric room via the ventilation grid.

Top Cut

Pneumatic Equipment



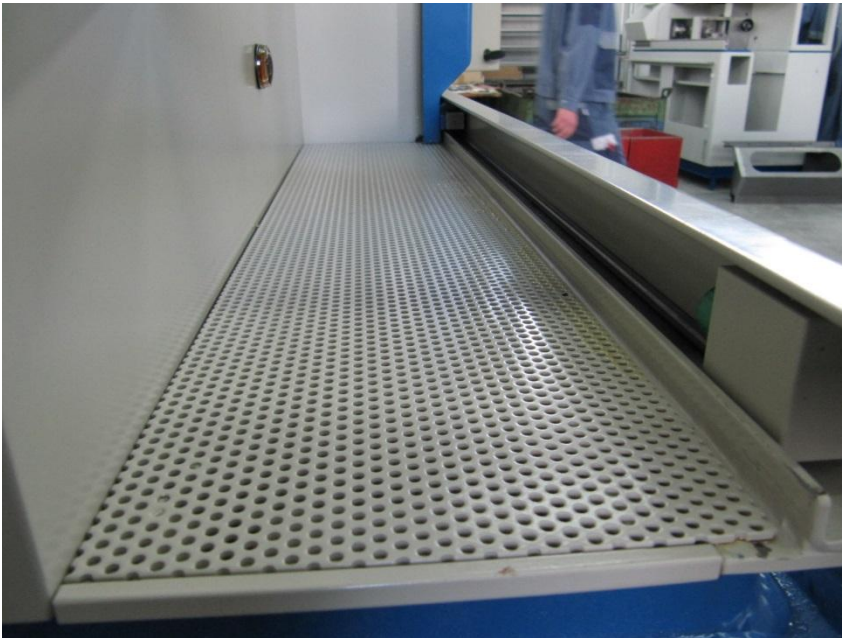
- Pneumatic Valve Arrangement.

Top Cut Protective Cover



- The open protective cover remains on the machine basis preventing the oil from falling on the floor.

Top Cut Protective Cover



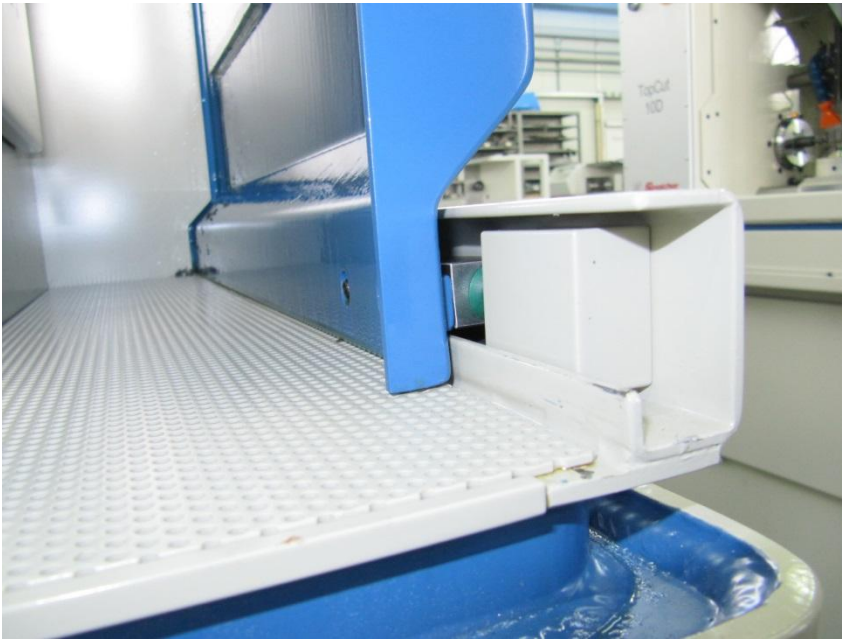
- Oil flows away from the machine deck via perforated sheets.
- The protective cover conduct is shown at the right on the picture.

Top Cut Protective Cover



- Protective cover conduct system

Top Cut Protective Cover



- When the protective cover is opened, there is no risk of injury.
- The drive rolls run inside and no crushing gap is present.

Top Cut Protective Cover



- The protective cover in automatic mode is locked via the yellow safety switch on top of the machine.

Top Cut

Machine Info



- View of the nut eject tube, the oil dosing tap and the coolant pump behind it.

Top Cut

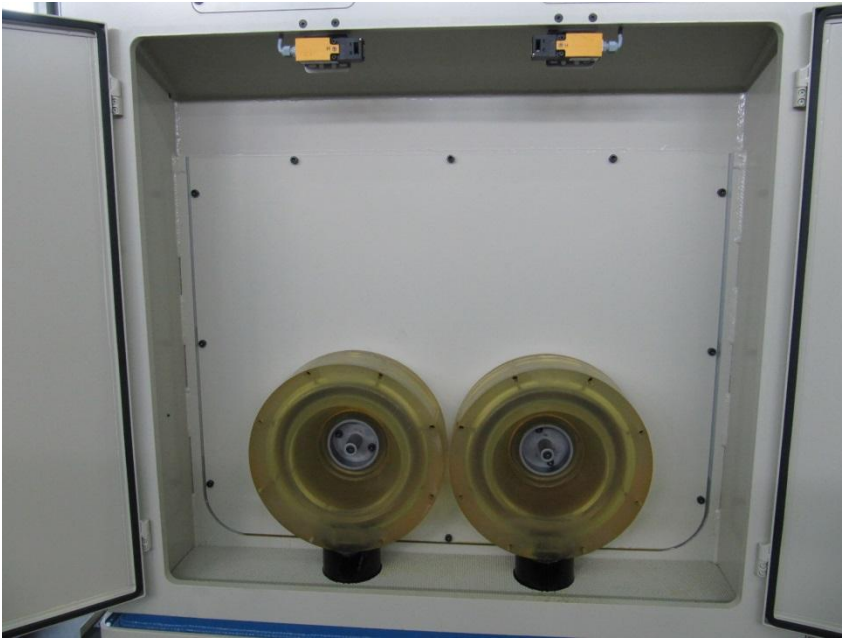
Machine Info



- Magnetic cylinder for the chips outlet
- The magnetic cylinder separates the chips from the oil and drives them slowly out of the machine.
- The oblique baseplate of the chip trough enables the remaining oil to drip off the chips and flow back into the oil tank.

Top Cut

Machine Info



- With open headstock doors, the nut eject heads and the nut trap bowls are shown.
- The change of the taps is easily performed at this side.
- The nut trap bowls are of great dimensions, in order to avoid damage to the separated chips.

Top Cut

Machine Info



- View of the nut supply
- The baseplate angle and the lateral guide bevels ensure that the feed device is completely emptied.

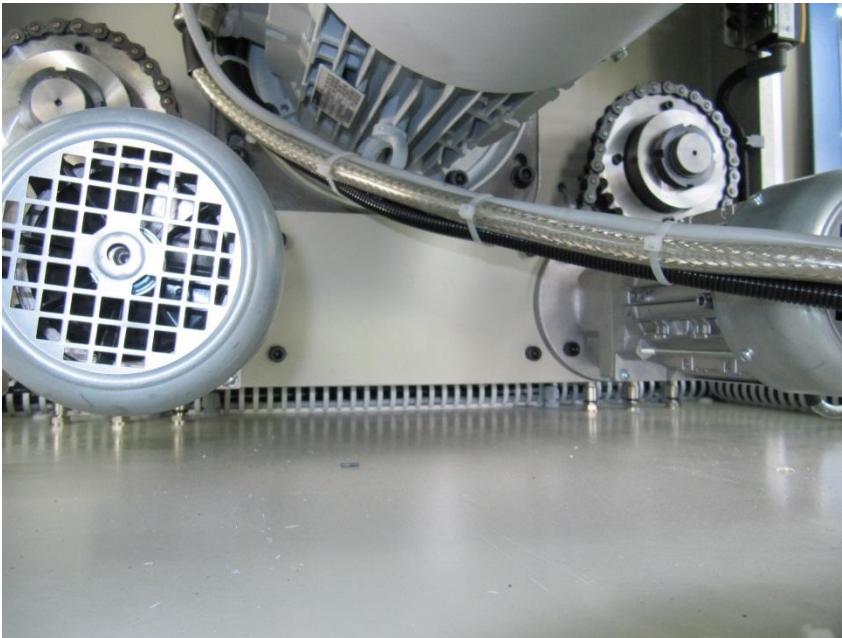
Top Cut

Machine Info



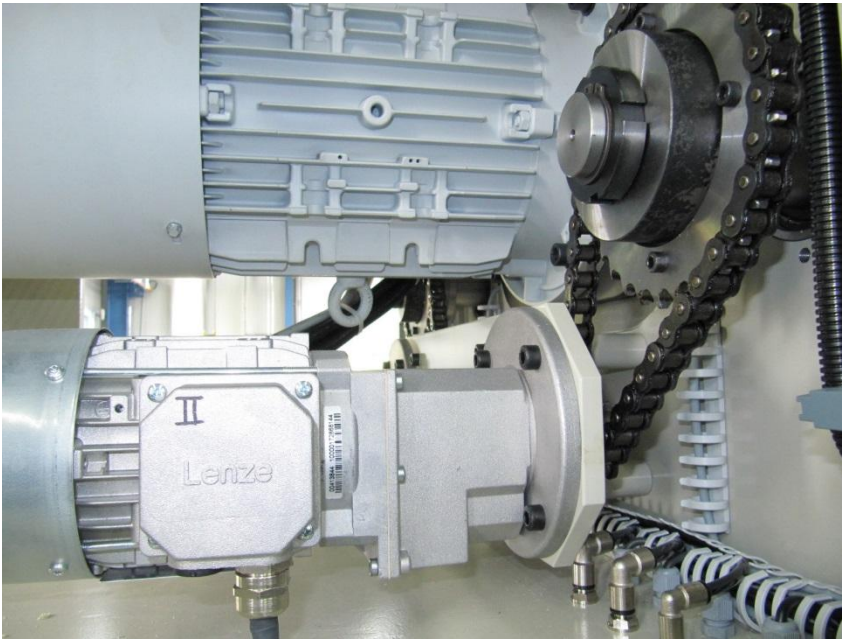
- Cover plate for sand filling.
 - Below the baseplate of the nut feed another baseplate is welded at a certain distance.
 - The intermediate space is filled with quartz sand.
- Advantage: important noise reduction when filling the feed device.

Top Cut Feed



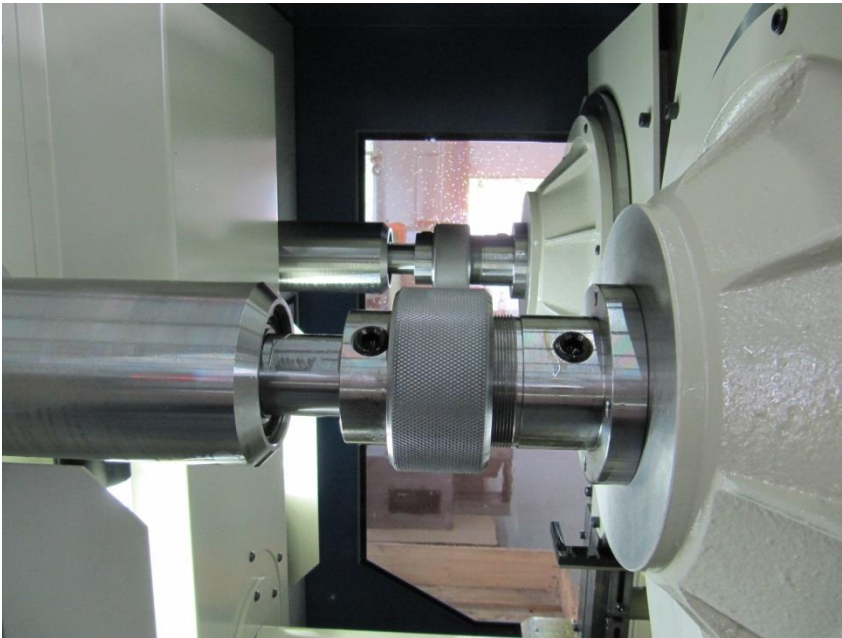
- Both feed drums are driven separately by resp. one drive motor each.
- Optimal filling of the feed channels
- The use of only one drive motor could obstruct the spindle side which feeds best.

Top Cut Feed



- The release moment for the ball coupling can be adjusted via the threaded ring.

Top Cut Feed



- Fixation of the screen drum
- When a tool is changed the adjustment of the screen drum is required and the correct distance to the feed device is ensured. It is roughly fixed with the left screw.
- It acquires the precise distance via the threaded ring.
- Finally it is fastened with the right screw.

Top Cut Feed



- The screen devices are compatible with those of the T-STAR machines.

Top Cut Workspace



- In the easily accessible workspace LED lights have been installed.

Top Cut Workspace



- Easy-operated workspace.

Top Cut Workspace



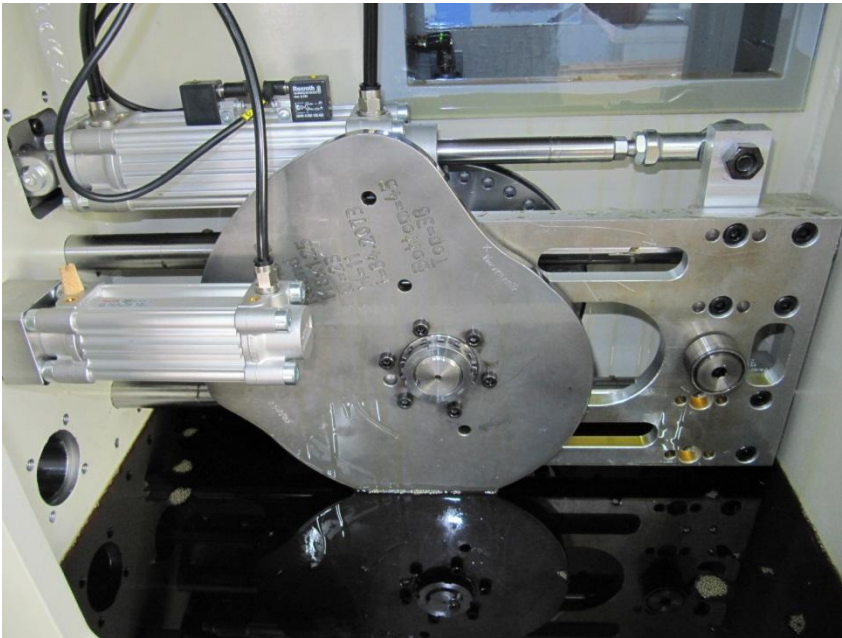
- All horizontal walls have an oblique finish, and no oil can drip on the operator's clothes or hands.
- The protective cover is also declined at the back, to prevent the dripping of the oil.

Top Cut Workspace



- The front angles of the feed device have also an oblique finish, to avoid head injuries.
- Also here the workspace is easily accessible.

Top Cut Cam Drive



- Each spindle side has a feed cam.
- Via a pneumatic cylinder the cam roll is pulled against the feed cam.

Top Cut Cam Drive



- The machine transmission is adjusted by change gears.

Top Cut Cam Drive



- The camshaft is driven via a worm drive.
- The camshaft is secured via a slip clutch to avoid damages in a crash.
- If one of the carriages runs against an obstacle, the coupling slips through and the machine is disconnected.

Top Cut Cam Drive



- View of feed cam. All important data are marked on the cam.

Top Cut Linear Drive



- The machine with built-in linear drive.
- The change-over time between the carriages is 30 minutes.

Top Cut Linear Drive



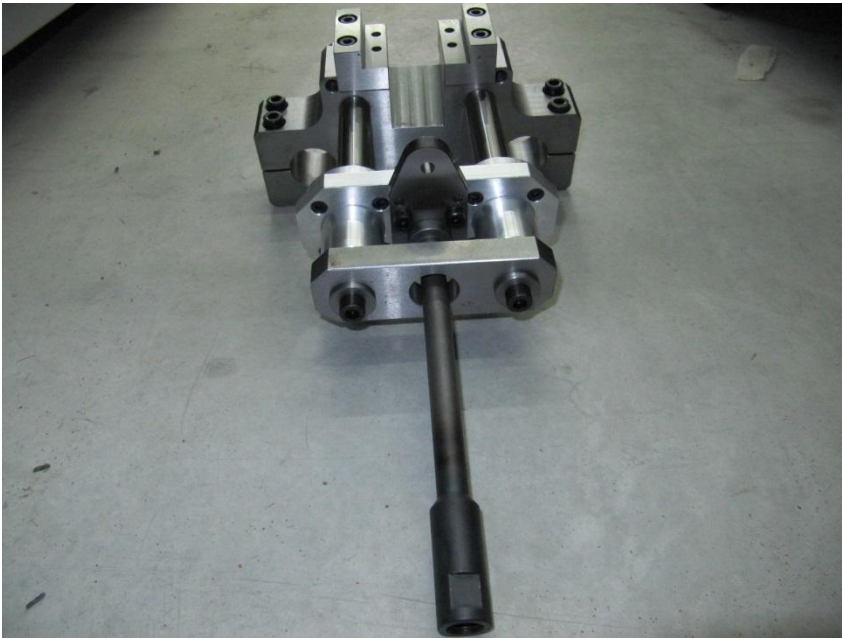
- Top view of the built-in linear drive.
- The small carriage with the pusher slides the nuts into the prism.

Top Cut Linear Drive



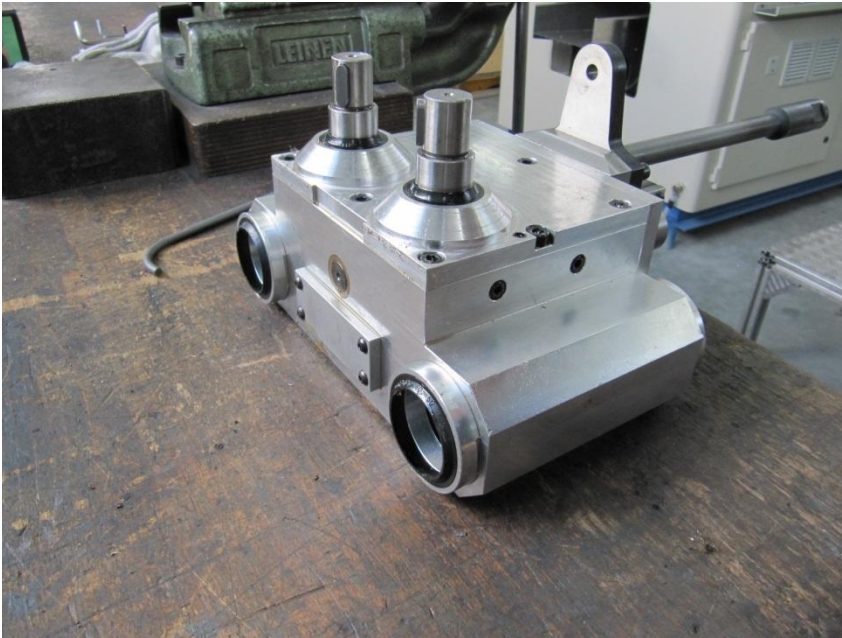
- Side view of the built-in linear drive.
- The small carriage with the pusher and prism.

Top Cut Linear Drive



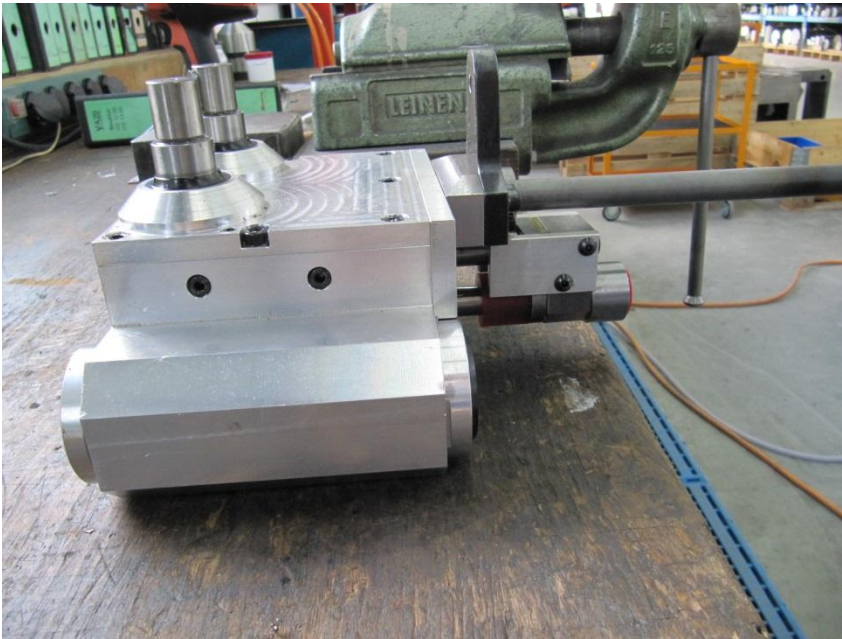
- View of the dismounted linear drive.

Top Cut Flange Nut Carriage



- The flange nut carriage has a pure mechanic function.
- The clamping jaws are positioned on both rotatable axle stubs.
- The pusher is screwed onto the lug behind the carriage. A tension release pen is present above the rectangular plate at the front side of the carriage. If the tension is closed, it protrudes approx. 14 mm from the front wall. When the carriage runs forward, it encounters an adjustable counterpen. The release pen is pushed inside and the tension is released.

Top Cut Flange Nut Carriage



- When the flange nut carriage runs backwards, it also encounters an adjustable counterpen. It rotates the axle stubs and tensions the nut through the clamping jaws.

Top Cut Round Nut Carriage



- The round nut carriages tensions the nut radially and axially.
- Instead of the striker plates as with the T-STAR machines, the pneumatic cylinders pre-lock the clamping jaws when the carriage runs backwards.

Top Cut

Round Nut Carriage



- The axial tension can function forwards and backwards as with the T-STAR machines.
- In the T-STAR machines the axial tension only functions by oscillation. With Top Cut machines it functions by oscillation or in parallel.

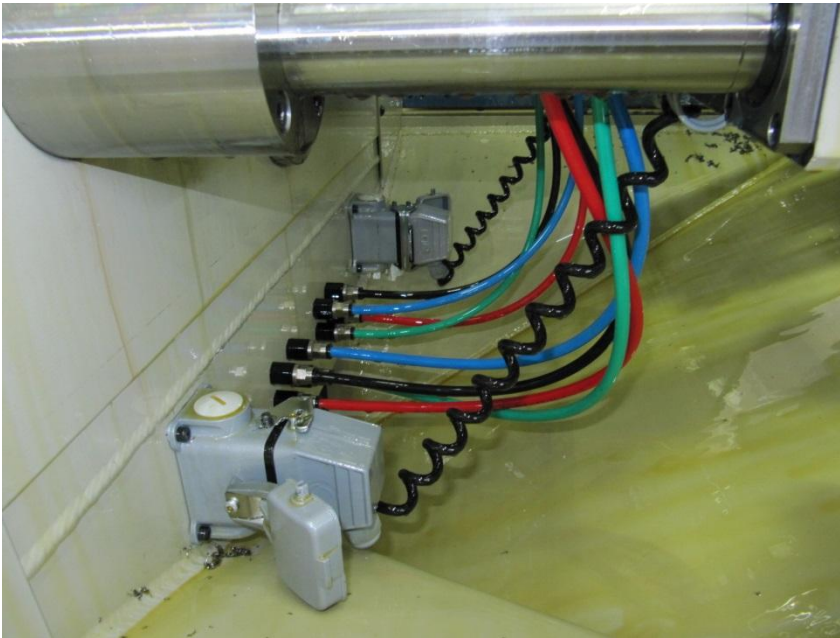
Top Cut Round Nut Carriage



- The high radial clamping force is reached by three sequentially functioning pneumatic cylinders.

Top Cut

Round Nut Carriage



- The pressurized air is transmitted to the carriage via quick couplers..
- The limit switch signals are transmitted via the connectors.
- When the round nut carriages are changed, the connectors are simply pulled out for the dismounting of the carriage.

Top Cut

Round Nut Carriage



- Piston rods of the pre-lock cylinder
- They perform the pre-locking of the clamping jaws when the carriage runs backwards.

Top Cut Taps



- Top Cut 10 D and Top Cut 16 D make use of the same taps as T-STAR 10 (233 of length) and Nutap MAS 14 F (255 of length).
- Top Cut 33 D has the same tap as T-STAR 30.