

Hydro-pneumatic punching machine for chain sections with self inclination of the window hardware during punching

patented



Our punching machine has the following advantages:

Quick and easy processing of all window hardware, since the insertion of the window hardware into the tool is carried out without manual spread and subsequent punching of the fitting is spread only minimally.

This is particularly advantageous:

- For difficult punching in the areas of bearings in which the spreading and the subsequent punching can bend the fitting.
- For punching fittings with add-on parts, where the spreading and the subsequent punching can result in the attachments coming off or being damaged.

Other advantages are:

- The hydro-pneumatic operation achieves high-cutting forces during impact-free punching.
- The self-contained oil system with an external reserve tank and visible oil level indicator guarantees a long maintenance-free operation in any mounting position.

Design:

The punching machine is mostly made of anodized aluminium and corrosion-free/corrosion-resistant material. For operating, clean and dry air is required. To ensure trouble-free operation, the **tool should be lubricated on a daily basis!**

Equipment:

The punching machine is connected and ready for operation, however, a 5/2 way valve and a filter regulator with a maximum preset operating pressure of 6 bar is required.

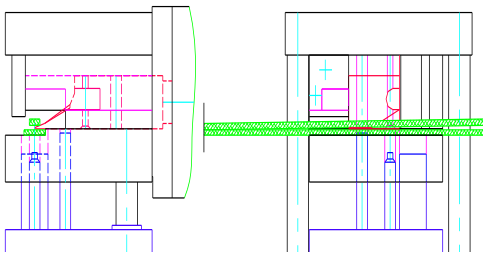
Special equipment:

- The delivered state of the punch is without accessories. For an additional charge, a connection kit consisting of a fixed filter regulator, set and secured at 5 - 6 bar and a 5/2 way foot valve with pluggable NW 6 mm hose connections with 6m hose is available.
- A linear stop is also available at an additional cost.

Operation of the punch

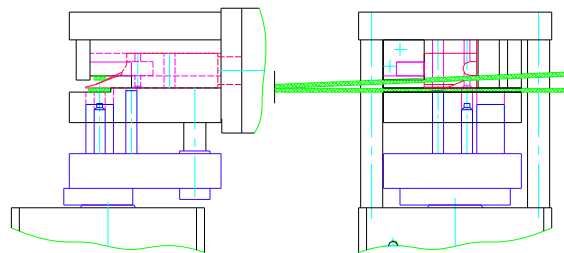
1. Work step:

Initial position; for applying the fitting.



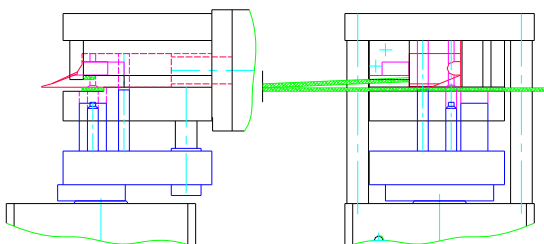
2. Work step:

Start of the first cutting process with the spreading of the fitting and the stamping of the drive.

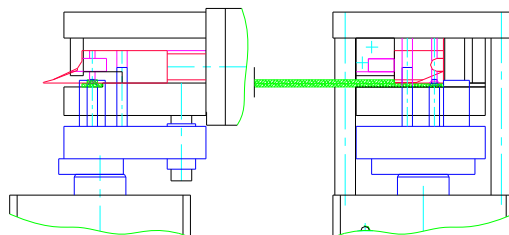


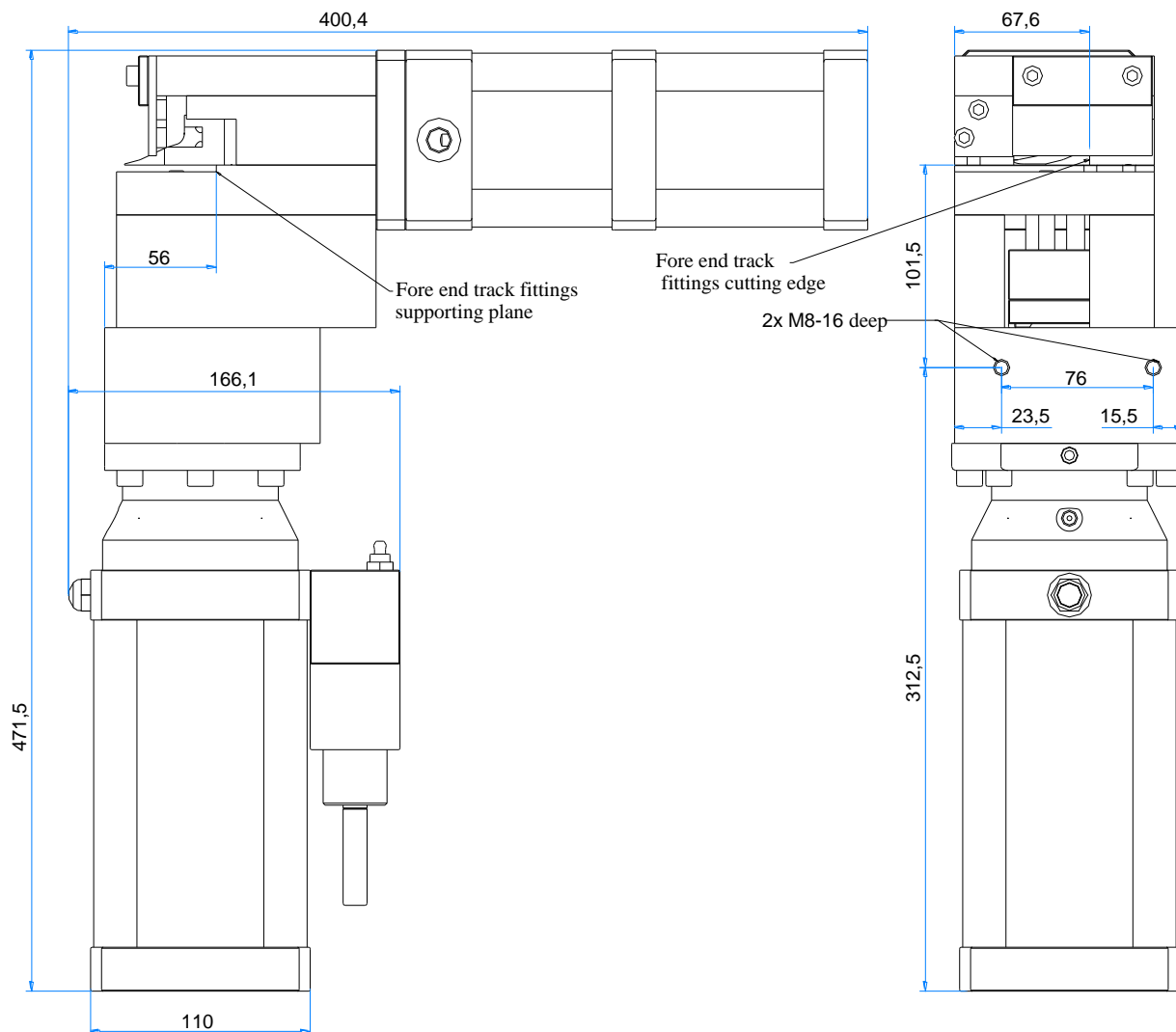
3. Work step:

End of the first cutting process and onset of the second cutting process with the cutting and punching of the lock plate.



End of the cutting process; the punch can be placed in the starting position.





Technical data:

- Operating pressure:** 5 - 8 bar, recommended for low tool wear max. 6 bar
- Cutting load stroke force:** 45 KN at 6 bar
- Transmission ratio:** 1:39
- Air consumption:** At 6 bar 7.5 NL/ stroke
- Nominal width for air connection:** 7mm 1/4"
- Oil used - Type:** Esso–Univis N46
- Weight:** 21.5 kg
- Mounting thread:** 2 x M8