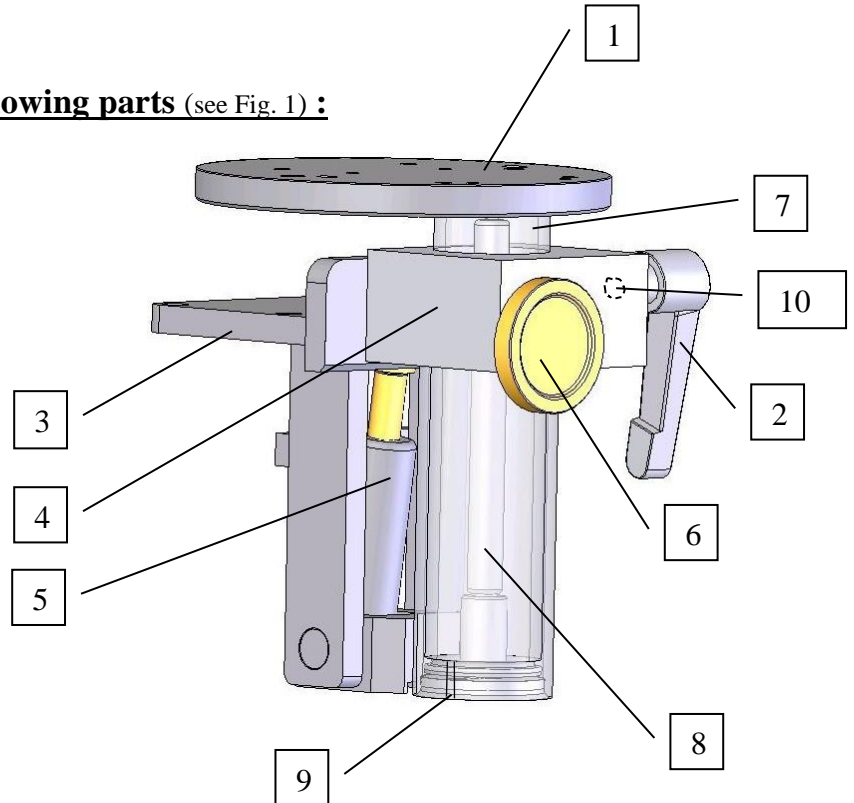


Manufacturer: York spol. s r.o., Pražská 650, Dobříš 263 01, Czech Republic, Tel.: +420318521896, Fax.: +420318521850

The PTT tipper comprises of the following parts (see Fig. 1) :

1. Fixing plate
2. Positioning crank
3. Base
4. Clamp
5. Gas tilting spring 2600N
6. Securing thumbwheel
7. Extender cylinder
8. Vertical adjustment screw
9. Ventilation hole
10. Lubrication hole



Obr. 1

1. Preamble:



Read all instructions in this User's Guide carefully, especially the chapters concerning work safety. These chapters are identified by a warning triangle.

2. Packaging:

The vice tipper is supplied in a paper box with one unit per box, assembled, with the telescopic extender slightly opened and secured in the position with the positioning crank (2) – see Fig. 1.

3. Classification according to the Standard Product Cataloguing:

Other hand tools: 28.62.30.

4. Description:

A simple device which makes setting the vice into the position which is best suited for the operator's physiological and ergonomic requirements easy and quick. Tipping the vice under the workbench top frees the entire workbench top surface, which can then be used for other purposes. The tipper is designed as a balanced device which counterbalances the vice's inherent weight **by being prestressed with a gas spring.**

5. Safety warning:

!!!!!! Using the tipper without a vice attached to it is PROHIBITED!!!!!!



If the prestressing of the gas springs is not counterbalanced by the weight of the vice, manipulation may result in a spontaneous catapulting of the tipper into the upright top end position with a **considerable speed and force** !!!!!

Never try to dismantle and repair the tipper yourself! When necessary, have the device repaired by the manufacturer. **Removing the gas spring from the tipper requires a special tool.**



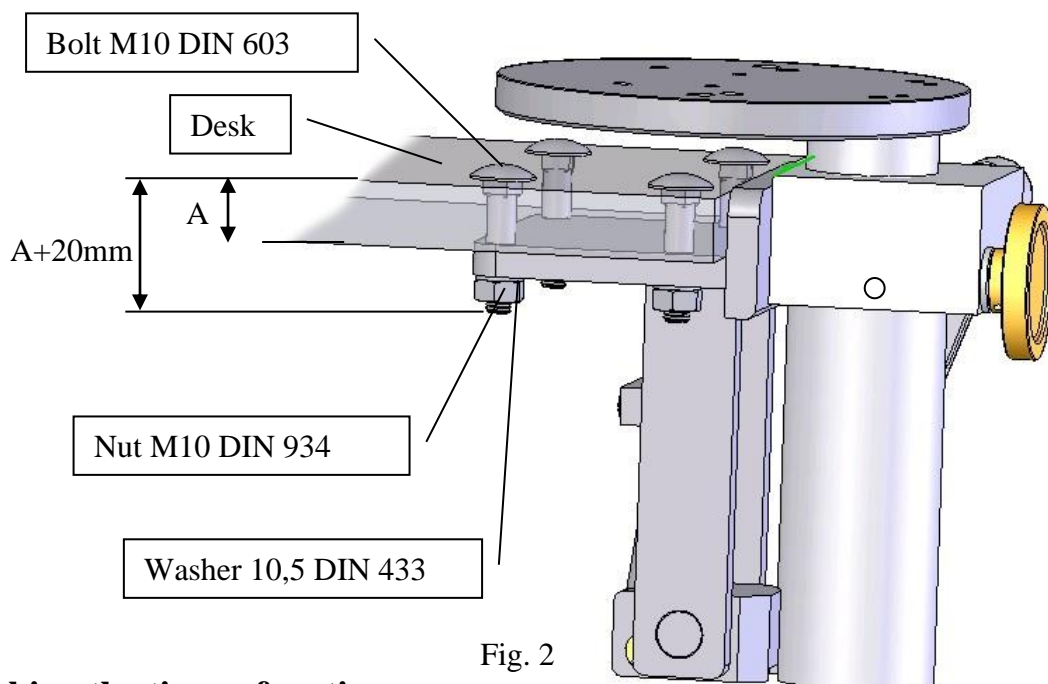
6. Working with the device:



Although the tipper design prevents the extender cylinder from being fully extended, extra care must be taken when manipulating the device to either of the end positions. When tipping the vice, always leave adequate space to avoid a potential injury by the moving vice. A certain force must be applied or resisted when moving the vice from the top or from the bottom end position, respectively. When making any changes in the position, always hold the vice firmly with your hand to avoid its uncontrolled movement by forces of inertia of the gas springs.

7. Installing the device:

Attach the assembled vice tipper to the workbench top underside. The workbench top must be at least 24 mm thick. The tipper is fastened with DIN 603 M10 flat-round bolts of length $L = \text{workbench top thickness (A)} + 20 \text{ mm}$, DIN 433 10.5 mm washers and DIN 934 M10 nuts. To set out the positions for drilling holes, hold the tipper in the required position on the workbench top and trace the holes in the base (3) onto the workbench top. Drill the holes in the workbench top with a $\varnothing 11 \text{ mm}$ diameter drill bit.



8. Checking the tipper function:



Before using the tipper for the first time that day, before starting to work with the vice, tighten the positioning crank (2) and the securing thumbwheel (6).

9. Tilting the tipper to the end position underneath the workbench top:

Before you can use the tipper, fasten the vice to the circular base of the tipper with appropriate bolts and check whether the tipper is properly fastened to the workbench top. Before tipping the vice, loosen the positioning crank (2), push in the telescopic extender and secure it in the position by turning the positioning crank (2) in the opposite direction. After loosening the securing thumbwheel (6) on the clamp (4), you can, by applying a force in the indicated direction (see Fig. 3) tilt the vice to underneath the workbench top.

The weight of the vice is counterbalanced by the tipper's gas spring. Move the vice with your hand in a continuous movement all the way down to the end position underneath the workbench top. To move the vice back to the upright position on the workbench top, reverse the procedure.

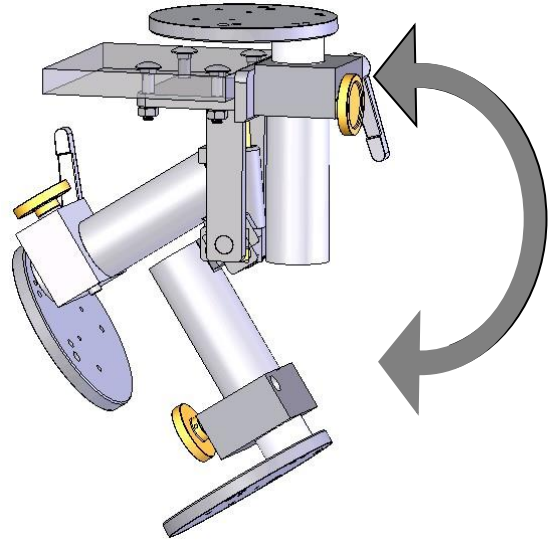


Fig. 3

10. Adjusting the fixing base height and horizontal position:

Loosen the positioning crank (2) and either lower the base by turning it clockwise or raise it by turning it anticlockwise. The height adjustment range is 0–125 mm. It also enables the position of the vice to be adjusted in the horizontal plane within a full 360° range. Secure the vice in the required position by tightening the positioning crank (2).

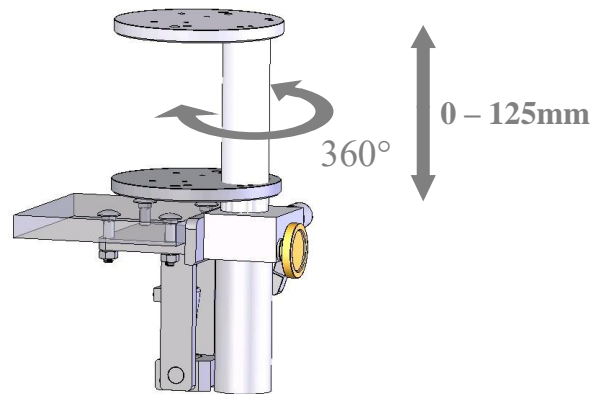


Fig. 4

11. Maintenance:

To ensure a reliable functioning of the tipper, the extender cylinder surfaces must be adequately lubricated. Lubrication is done through for this purpose provided lubrication hole (10). To ensure that the extender springs function correctly, the cylinder has a ventilation hole (9) which should be checked regularly for potential blockage and, if necessary, unblocked.

12. Application:

The PTT tipper is designed as a universal device for:

YORK 100	weight	12 kg
YORK 125	weight	20 kg

However, it can be also used for vices of other manufacturers weighing from 12 to 20 kg.