

## VSD – THRUSTING ROLLER CHAIR

- Simple securing of squeezing the closed point blade to the stock rail
- Simple installation
- Minimum maintenance requirements
- High resistance against railway environmental impacts



### General Description

The thrusting roller chair VSD is designed for points requiring squeezing of the closed point blades to the stock rail with clearance not exceeding 5 mm at speeds of up to 90 km/h and 2-3 mm at higher speeds.

In the mentioned area the throw-over movement is influenced by the passive friction force exerted on slide rollers. During the movement of the blade to the closed position this friction force can be compensated by an auxiliary throw-over element.

For this purpose the thrusting roller chairs are used. Their basic function is to thrust the closed point blade towards the stock rail and to keep it in this end position.

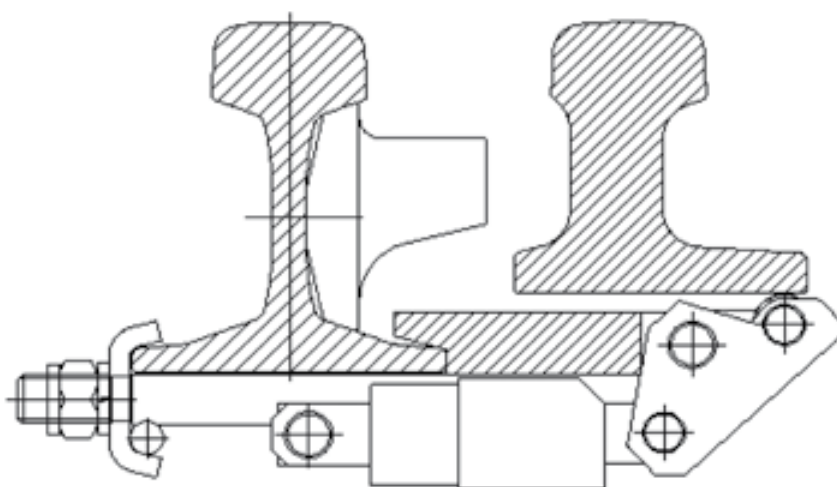
### Basic Technical Description

The thrusting roller chair includes the retaining jaw, the disc spring set and the double arm lever fitted by the rotating guide roller. The spring pressure is applied through the lever and the roller and it thrusts the point blade into the stock rail.

The applied force of the thrusting roller chair is approx. 1,8 kN.

In an opened point blade position the guide roller is pushed under the blade base. The complete thrusting roller chair is mounted to the stock rail by the retaining jaw, two bolts, stirrups and secured by safety nuts and spring washers.

The thrusting roller chairs are adjusted to any types of superstructure. The rotating parts are equipped by self lubricating bearings and are placed on pegs from corrosion proof steel.



Thrusting roller chair scheme



### Basic Technical Parameters

Weight	approx. 13 kg
Working temperature range	-40 to +70 °C



*Thrusting roller chair in opened point blade position*



*Thrusting roller chair fixation*