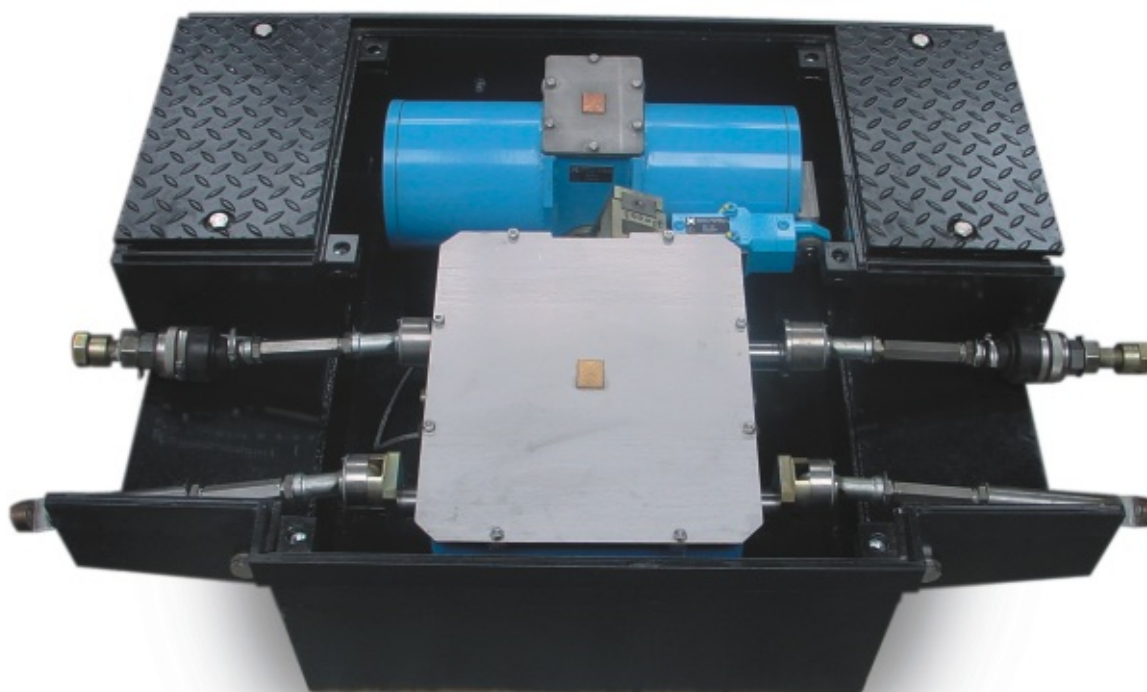


Facing direction setting device VSP-1-K

The VSP-1-K setting device is intended for mechanized resetting into the required direction of turnouts with flexible blades. It meets the level SIL 3 requirements for safety integrity according to EN 61508, guarantees noiseless operation, is ecologically safe and has a long service life with minimum maintenance demands.

The VSP-1-K setting device is adapted to the needs and requirements of individual customers.

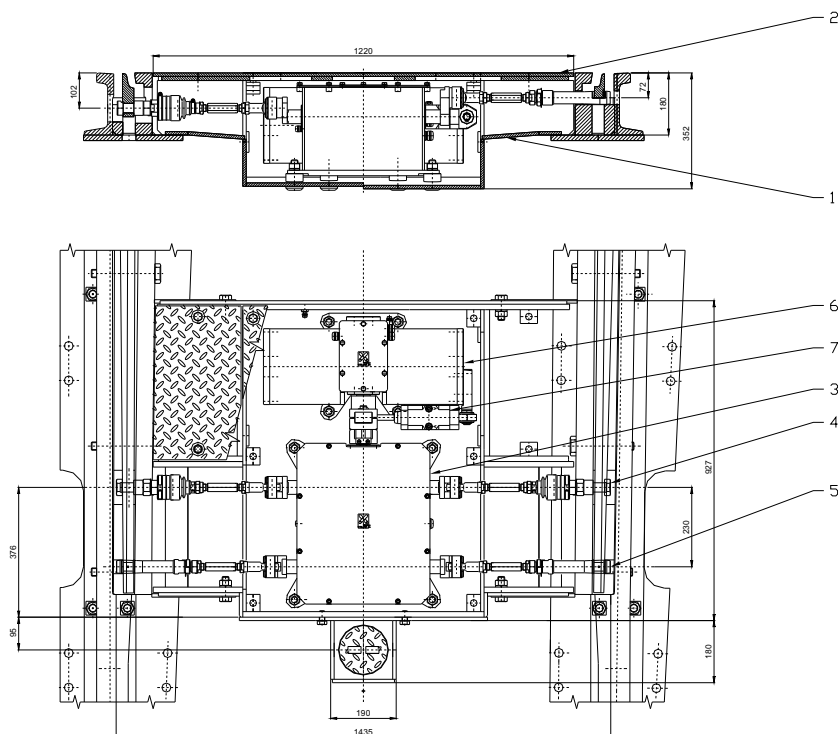


Securing:

- down-pressure of the setting rod in both extreme positions
- locking the setting rod in both extreme positions
- signalling of locking the setting rod
- locking both checking rods in extreme positions
- signalling both extreme positions of both checking rods
- signalling of blocking the command for resetting when inserting the key into the setting pocket
- deformation-free forced resetting ("force open")
- optionally, the turnout system includes diagnostic elements (oil pressure and oil level measurement in the tank in case of the electro-hydraulic system, temperature measurement, turnout system flooding sensor and other options as ordered by the user).

Facing direction setting device VSP-1-K

The VSP-1-K setting device alternately may be powered by electromagnetic drive for 600V DC or electrohydraulic drive for 600V DC, 400V AC, 230V AC, 110V AC 60Hz or 24V DC.



Electrohydraulic drive



Electromagnetic drive

Description:

Setting device VSP-1 consists of the ground box (1) with covers (2) in which point box ZZK-75 (3) is fastened with rod sets - setting rods (4) and checking rods (5) and optionally either electromagnetic point machine EMP-44 (6) with damper DD-100 (7) or electro-hydraulic point machine EHP-40. All the units are waterproof, the materials and components used during their production guarantee the high reliability of the equipment.

As requested by the user, Pražská strojírna a.s. supplies the turnout system including diagnostic elements, which means that, depending on the drive type (electrohydraulic or electromagnetic), it is possible to measure current oil pressure; record its maximum in collaboration with the control system; measure the throwing-over time in collaboration with the control system; monitor the oil level; count the throwing-over events in collaboration with the control system; measure temperature in the turnout system; install a turnout system flooding sensor and other diagnostics options as ordered by the user.

Technical parameters:

minimum track gauge	from 1,000 mm
lift of the changeable blades	36 to 75 mm
connection of the setting rod to the blades	bolt M27 or according to turnout type
connection of the checking rods to the blades	control suspension
setting force on the rod	approximately 5 kN
minimum open force	10 kN + 30 %
press-down force of the spring mechanism	1.3 to 2.2 kN
moment for manual resetting	150 to 250 Nm
time of the mechanized resetting (adjustable)	0.6 to 1.5 s
operational voltage of electromagnetic point machine EMP-44	400 to 850 V DC
operational voltage of electro-hydraulic point machine EHP-40	230 / 400 V AC
normal current at the voltage of 600 V DC	max. 10.5 A
control voltage (contact-free position sensors)	24 V DC
permitted load of the axle on the cover of the ground box	12,000 kg
maximum mass of the ground box cover	70 kg
overall mass	approximately 630 kg