



UNISTAR HR EM

Electromechanical Point Machine for Freight, Urban and Mixed Traffic

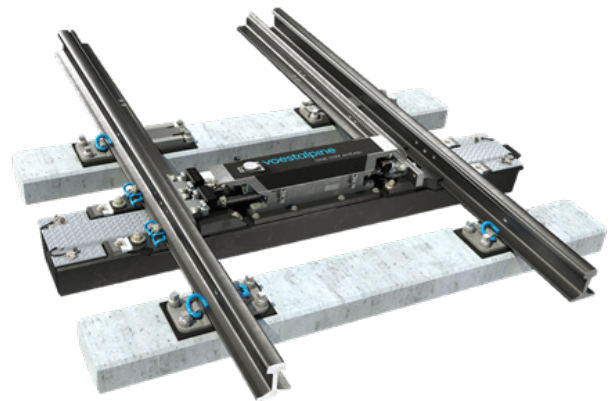
Description

The electromechanical UNISTAR HR EM is used in the field of grooved rail turnouts. Due to its compact design the locking unit can be installed between the gauges for gauges starting with 1435 mm. For smaller gauges, the installation takes place next to the track

The connecting rods compensate for thermal expansion and contraction of the switch points without affecting the end position adjustments. Motor voltage can be adjusted from 110 to 550 V AC or DC.

UNISTAR HR EM is part of the UNISTAR HR series which also includes:

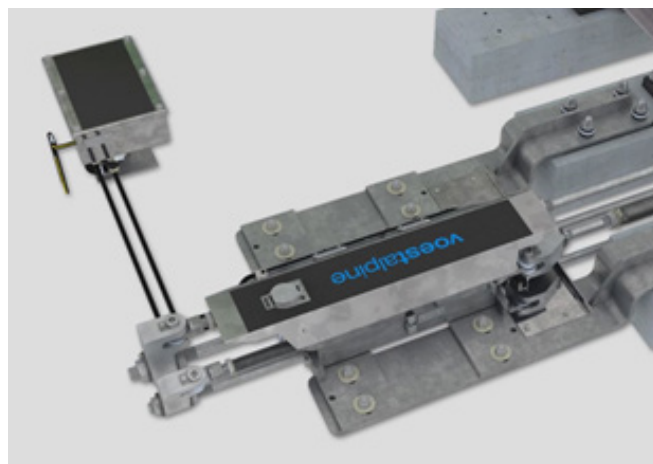
- » UNISTAR HR
- » UNISTAR HR NG
- » UNISTAR HR COMPACT



Worldwide under various environmental and operational conditions, the UNISTAR HR family proves market leading quality and reliability. All family members offer watertight and dust-tight boxes certified according to IP67.

System advantages

- » Durable watertight and dust tight box, according to IP67
- » Extremely low profile – 180 mm constructional height only
- » Safe and reliable
- » Designed according to SIL 4
- » Locking parts visible, made of special steel
- » Easy access to end position contacts
- » Easily installed
- » Low maintenance, low wear and tear, low noise emission
- » Compensation of thermal expansion of tongues
- » Electronic detection, therefore no coupling necessary



FEATURES UNISTAR HR EM:

Technical Data

Item	Value
Installation	center-gauge installation (gauge > 1435 mm) or installation beside the track
Turnout type	T-rail turnout
Track gauge	starting with 900 mm
Throw	60 – 160 mm
Setting time	2 – 5 seconds
Setting force	adjustable up to 6 kN
Motor voltage	110 – 460 V AC and 110 - 550 DC
Dimensions	280 x 650 x 180 mm
Weight	approx. 80 kg
Locking system	internal interlocking prism lock
MTBF	> 500 000 h
MTRR	< 20 min
Environmental conditions Standard configuration	temperature -40 to +80°C, Solar Radiation tested with 1120 W/m ² , humidity up to 95 %
Protection class	IP67