



Point Machine H715

Setting Technology for Flat-Bottom Points



HANNING & KAHL

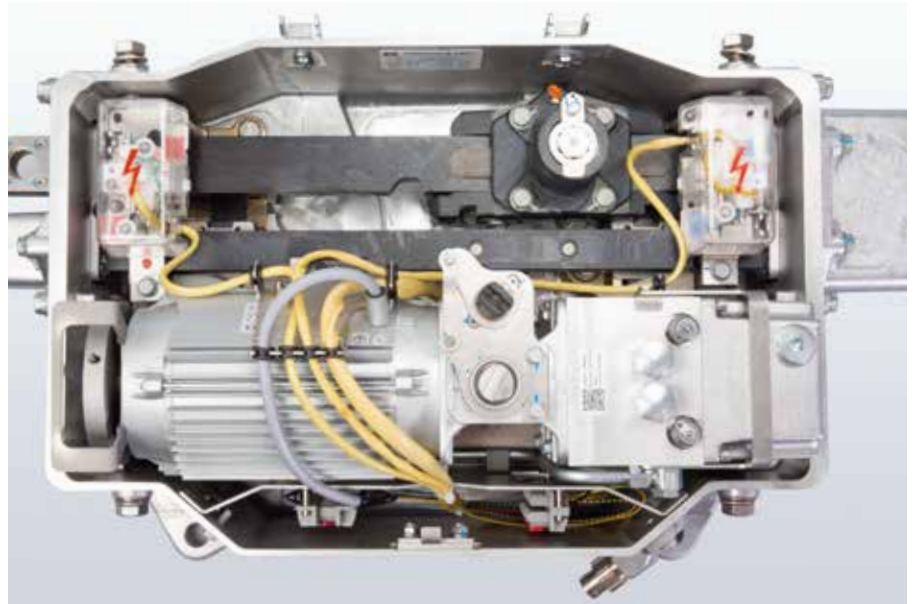
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Equipment with maximum availability, high safety integrity and low maintenance requirement enable tram operators to provide safe and efficient transportation. The requirements jointly defined by Austrian ÖBB, Swiss SBB and German DB played a decisive role when developing the new HANNING & KAHL point machine H715.

The application range of this innovative point machine stretches from line networks for heavy rail, local public transport and freight transportation to industrial and harbour railways. The trend-setting point machine H715 can be integrated into all kinds of flat-bottom points with various gauges.

Together with an external locking system it ensures safe performance with regard to route setting, securing point tongues in end positions and permanent tongue monitoring. Implementation of the required safety functions and the resulting operational safety of point machine H715 fulfil the highest requirements of CENELEC EN 50129 SIL 4. Point machines in existing point systems can easily be replaced by the H715 as both the mechanical and electrical interfaces are compatible.



Clear arrangement and easy access to the components

The most important advantages at a glance:

- **Future-proof**
Operating safety (safety functions) of point machine H715 fulfils CENELEC EN 50129 SIL 4 requirements.
- **For universal use**
Simple replacement of existing point machines using attachment bores already available.
- **Low-maintenance**
User-friendly checking and setting of all function and test mass thanks to modular structure.
- **Economically efficient**
The robust build of H715 ensures high operating safety and long maintenance-free periods. Short maintenance sessions mean low life-cycle costs.
- **Carefully devised**
Self-explanatory, in-depth solutions and the resulting user-friendly handling round off the new point machine H715.



End-position monitoring with clearly visible forced-guided contacts



Optimal visibility of lock function



Top cover opening for manual setting with all common hand cranks

Point Machine H715

Trend-Setting Technology



Housing protection in compliance with IP54

Further features:

- Swift change between left and right installation as only the detector slide has to be turned -> without retrofitting a hydraulic unit.
- Unique visual check of the locking and monitoring elements.
- Open electric interface allows simple adaptation to different controller and interlocking requirements.
- Plug-in assembly enables fast and error-free installation/replacement of the point machine or individual modules.
- Hydraulic drive system offers constant setting force over the entire service life.
- Setting force can be quickly adapted to technical conditions as necessary.
- Low-maintenance thanks to lubricant-free ball and sliding bearings.
- Minimal need for operating materials; hydraulic drive unit operates with less than a litre of hydraulic fluid.
- Issues reliable signals even without hydraulic drive unit.
- Simple replacement of existing point machines by use of some of the existing attachment bores.
- Top cover opening for manual setting with all available cranks.
- Installation on hollow bearer possible with bearing bracket.

Technical Data Point Machine H715

Drive form	electro-hydraulic
Point type	flat-bottom
Setting force	up to 9,000 N
Point opening	up to 240 mm
Operating voltages*	400 V AC
Temperature range	-33 °C ... +70 °C
Protection class	IP54 in compliance with EN 60529
Safety integrity (depending on version)	up to SIL 4 in compliance with EN 50129

*Other operating voltages on request



Point machine H715 installed in a main line



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Hanning & Kahl GmbH & Co. KG
Rudolf-Diesel-Straße 6 | 33813 Oerlinghausen
Phone +49 5202 707-600 | Fax +49 5202 707-629
info@hanning-kahl.com | www.hanning-kahl.com