



# Vossloh Flexidrive-4M

All-new 4-bar point machine for railway and metro applications

# Flexidrive-4M

## Versatile 4-bar point machine



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The all-new 4-bar point machine provides actuation, locking and detection of vignole switches in a compact design and without any external lock required.



### Safe

The Flexidrive-4M offers a very reliable locking system : both actuation bars are secured by a thick steel-made lock when reaching end position, while both detection bars are secured by a double-pin lock matching the highest safety standards. And in the unlikely event of a trouble, the problem is issue detected by the quadruple electrical switches.

### Reliable

The Flexidrive-4M uses Vossloh's long experience in multi-bars point machine design; its rack-and-pinion movement has been tested for decades and is now modernized for optimal and longer use on track. The new IP67 waterproof sealing preserves internal parts from the harshest climate conditions : neither dust, nor humidity, nor water flooding can disturb the reliability or lifetime of the Flexidrive-4M.

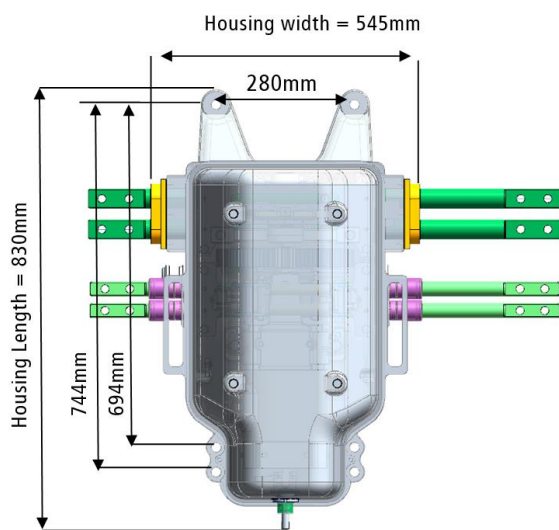
### Efficient

Using low-friction materials, tailored electric drive, and robust components, the Flexidrive-4M is a high-performance mechanism requiring low power consumption.

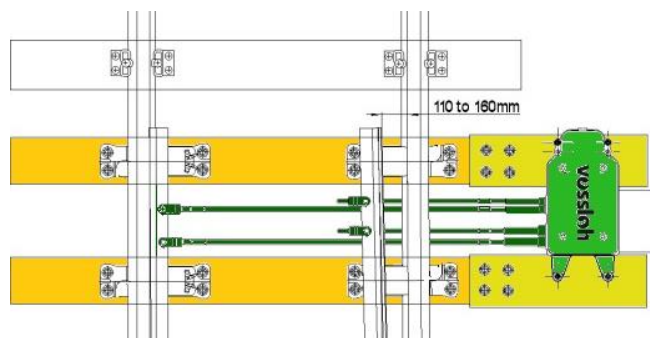
## Versatile

Part of the Flexidrive range of point machines, the Flexidrive-4M is available in a large variety of configurations :

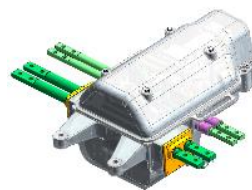
- Trailable or non-trailable
- Different AC/DC voltages and electrical interfaces/principles
- Different strokes and throw forces
- Different types of rods and fixation brackets to fit whatever new or existing turnout without any modification
- Symmetrical installation on right/left hand, without any adaptation or re-setting of the bars inside the point machine



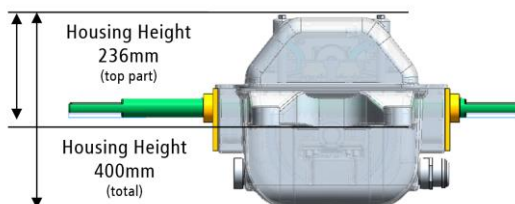
## Implementation on the track: between bearers or inside a hollow bearer



100% electromechanical  
(no hydraulics)  
2 actuation + locking bars  
2 detection + locking bars  
100% internal locking  
(no external lock required)



Small  
footprint



## Technical Specifications

Throw force	6kN
Locking force	90kN
Stroke (Switch opening)	Up to 160mm (others on demand)
Operating time	<5s
Manual mode	yes (crank handle) Built-in lock for manual mode access
Trailable / Non-trailable	Both models available
Voltage	110VDC / 220-380VAC (others on demand)
Interlocking compatibility	4/5/7/9/11-wires (others on demand)
Lifetime	1.000.000 reversals
Safety Certification	SIL4
Waterproof Sealing	IP67
Weight	approx. 180kg

## Eco-integrated

Offering IP67 waterproof sealing ensures a reliable and available point machine, even in the most straining areas, in the climate conditions of all continents, and even in particular environments with dust & tiny particles such as desert areas, mining lines, etc.





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