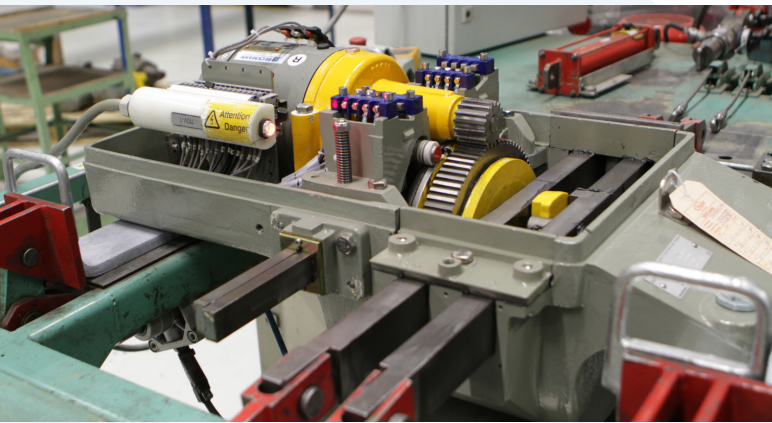




# NSE point machine

The NSE point machine is used to switch points in a controlled manner. It limits the switching force, locks the adjacent blade and controls the position of both blades

 **VRS Railway Industry**



## PRODUCT BENEFITS

- ✓ Service life of 20 years or 1 million strokes in first cycle; *after refurbishment another 8 - 10 years of possible service.*
- ✓ Trailable: if a train runs the points in wrong direction, patented click mechanism prevents damage to the points
- ✓ The integrated design saves you procurement and installation costs
- ✓ Durable and safe design
- ✓ Proven reliability
- ✓ Can be operated manually for service purposes with a switch lever
- ✓ Motor protection against overloading

## SAFE

The NSE point machine gives you a product with decades of proven reliability. The design's triple level safety means the machine has never failed in a hazardous way. Work can also be carried out safely using terminals in accordance with NEN 1010.

## DURABLE

The NSE is designed for the toughest operating conditions imaginable, with a long service life being the starting point. With only durable parts, the point machine gives a very long service life. During this service life, there are only a limited number of components that require preventive replacement. This durability is reflected in the wear-resistant band brake, which limits the maximum switching force and continues to function perfectly even after 1,000,000 strokes.



**VRS can also supply junction boxes and switch rods.**



## NSE, NSE2 and NSE4

In 2002, the NSE was followed by the NSE2, which itself has now been replaced by the NSE4. One feature of the latest model is improved watertightness and electronically regulated motor controls. One of the advantages of this is that power-on peaks are capped to prevent overloading of the control relays. The NSE4 may be used to replace old type NSE and NSE2 point machines and is fully interchangeable. No modifications to the points, controls or cabling are required.

### Technical specifications

<b>Weight</b>	approx. 210 kilo
<b>Stroke</b>	76 mm - 163 mm, available in stroke lengths of 80mm through 171mm
<b>Normal load</b>	3000N - 5000N
<b>Maximum load *</b>	3000N - 8500N limited by friction unit
<b>Point running force (click force) *</b>	4000N - 8000N
<b>Turnaround time normal load</b>	< 3 sec.
<b>Blocking force</b>	>>10.000N
<b>Control by hand with manual lever</b>	yes
<b>Service life</b>	approx. 1.000.000 (single stroke) or 20 years
<b>Openable by running **</b>	yes

\* These values are adjustable to your specification

\*\*The NSE2 is also available in non-openable versions

### Ambient conditions

<b>Temperature when operated (°C)</b>	between -25 en +70
<b>Storage temperature (°C)</b>	between -30 en +85
<b>Relative humidity without condensation (%)</b>	maximum 95

### Electrical specifications

<b>Connection voltage*</b>	90 to 136 VDC / 230 VAC / 400 VAC
<b>Detection circuit (A)</b>	<28 VDC: <2, <250 VAC: <1
<b>Current under maximum load</b>	<7 A
<b>Isolation value (new condition)</b>	50 M Ohm (500 V DC)
<b>EMC resistant</b>	yes
<b>Protection class</b>	IP54
<b>Complies with ProRail SPC's</b>	SPC000307, SPC00326 en SPC00327

\*Can be installed in a 25 kV environment with modification