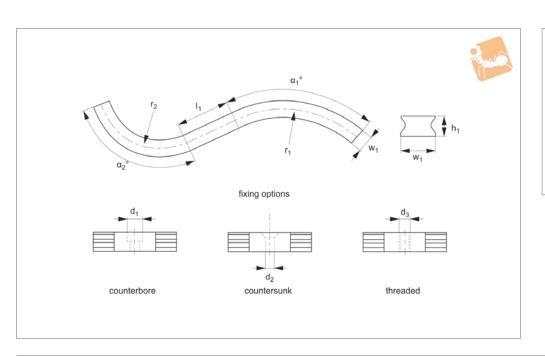
# **Variable Radius Rails**

L1978.VRX2



#### Material

Steel rail (C43), electrolytic zinc plated. All stainless steel on request.

#### **Technical Notes**

Advise angles required and fixing option

Temperature range -30°C to +80°C.

Rail weight 2,2 Kg/m.

#### **Tips**

Combine with curviline carriages L1978. CX23-100.

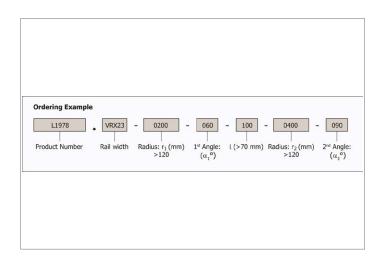
Recommended hole pitch on rail is 80mm. Rail tolerance ± 0,5mm, angle tolerance ±

Recommended rail hole is counterbored (easy to install).

#### **Important Notes**

Not to be used in high-cycle applications.

Order No.	$\mathbf{w}_1$	$h_1$	r <sub>1</sub> & r <sub>2</sub>	$\alpha_1 \overset{\&}{\circ} \alpha_2$	$d_1$ for	d <sub>2</sub> for	d <sub>3</sub> for	$I_1$
L1978.VRX23-xxx-xx	23	13.5	tba	tba	M6	M6	M8	tba





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# **Curviline Rail**

### Introduction



The Curviline rail system offers a cost-effective solution to curvi-linear applications.

#### Flexibility when you need it

Constant radius, variable radius are available in standard radii, non-standard radii to your drawings are also possible. Straight and curved sections in a single length can be supplied.

# Any radius

- From 120mm radius upwards.
- Standard and special radii.
- Angles up to 360°.

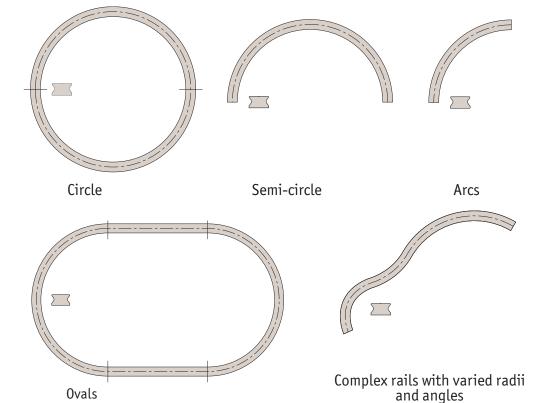
#### **Anti-corrosion**

Alloy coating or nickel plating of the rails and sliders can be applied to provide a corrosion resistant solution.

#### Two profiles

- Small and medium rail profiles.
- · Add carriages to suit load.

#### **Examples**





## **Curviline Rail**

### Specifications and applications



Rail from Automotion Component

#### **Specifications**

- Maximum speed 1,5 m/s.
- Maximum acceleration 2 m/s².
- Maximum rail length 3600 mm.
- Two rail sizes 16,5 and 23,5 mm width.
- Minimum radius 120 mm.
- Recommended hole pitch 80 mm.
- Radius tolerance ± 0,5 mm (± 1°).
- Maximum radial load per slider 1615N.
- Temperature range -30°C to +80°C.

- Roller bearing seals 2Z (dust proof), lubricated for life.
- Rollers from 100Cr6, (stainless versions with rubber seals 2RS available on request).
- Sliders are preload adjustable.
- Not suitable for moment loads.
- Special coatings and finishes available on request.

#### **Applications**



#### Sliding doors & windows

Internal sliding doors gates • roof lights display cases



# Special purpose & packaging machines

Precision positioning systems handling units • robotic systems cutting machines



#### Safety guarding

Extending protective systems sliding gates automatic pick & place



#### Transport (naval)

Sliding hatches pull-out storage



#### Transport (automotive)

Ambulance sliding systems fire fighting vehicles sliding panels



#### Transport (rail)

Seat adjustment sliding doors battery removal units



#### Transport (military)

Sliding seats protective hatches stretcher extensions



**Irviline Rail from Automotion Components** 

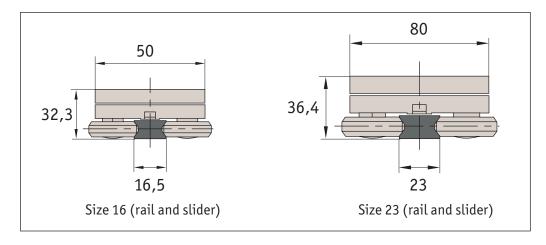


# **Technical Information**

Rail sizes and types

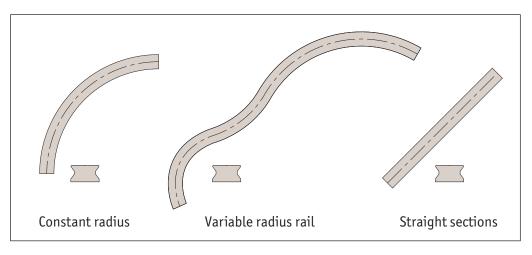


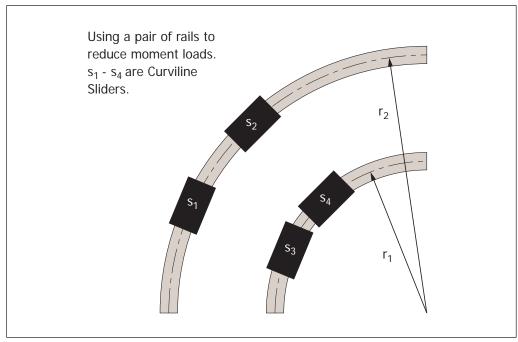
#### Rail sizes



The sliders have eccentric rollers that are adjustable with the thin spanner that is supplied with them. This allows the preload of the system to be set as required – tight or free running.

#### Rail types







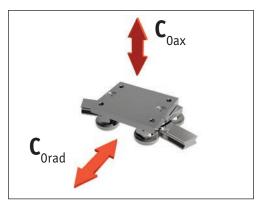
How to order

**Irviline Rail from Automotion Components** 



#### **Load capacities**

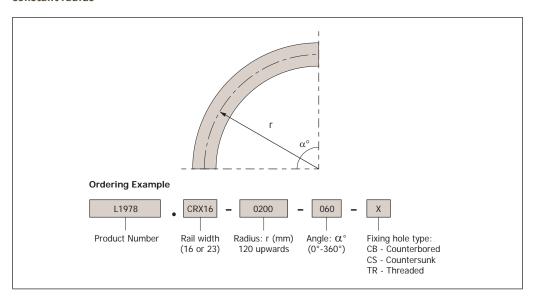




Slider type	C <sub>Oax</sub> N	C <sub>Orad</sub> N
L1978.CX16-070	390	560
L1978.CX23-100	1110	1600

Note: Reduce any moment loads by utilising two or more sliders and/or rails.

#### **Constant radius**



#### Variable radius

