Medium Duty Sliders, size 35 no side seal, front fixing, with wiper



L1935.CS

Material

Zinc plated steel body. Steel rollers (100Cr6) with metal (2Z) or rubber (2RS) seals.

Technical Notes

To be used with compact rail size 35.

Select the relevant carriage for the rail and the required number of carriages to carry the load (taking into account any moment loads).

Tips

The U rail sliders cannot accept axial loads. The 3 and 5 bearing sliders can be used

either way up in the rail dependent on where the loads will be applied. Easy to install (one or more rollers are eccentric allowing for adjustable preload). Coefficient of friction (without seals)

Quiet and fast (up to 5 m/s).

Order No.	For rail type	No. of rollers	Seal type	d_1	h ₁ +0.35 - 0.10	h ₂ +0.05 - 0.15	h ₃ +0.10 - 0.30	l ₁	l ₂	l ₃	I ₄	M _x Nm	M _y Nm	Weig ht kg
L1935.35CS-100-2RST	Т	3	Rubbe r	M6	35	19.9	27.85	100	120	45	27.5	12.9	33.7	0.27
L1935.35CS-100-2RSU	U	3	Rubbe r	M6	35	19.9	27.85	100	120	45	27.5	0	0	0.27
L1935.35CS-120-2RSTA	Т	4	Rubbe r	M6	35	19.9	27.85	120	140	60	30.0	23.9	43.3	0.33
L1935.35CS-120-2RSUA	U	4	Rubbe r	M6	35	19.9	27.85	120	140	60	30.0	0	0	0.33
L1935.35CS-120-2RSTB	Т	4	Rubbe r	M6	35	19.9	27.85	120	140	60	30.0	23.9	43.3	0.33
L1935.35CS-120-2RSUB	U	4	Rubbe r	M6	35	19.9	27.85	120	140	60	30.0	0	0	0.33
L1935.35CS-150-2RST	Т	5	Rubbe r	M6	35	19.9	27.85	150	170	30	30.0	23.9	57.7	0.41
L1935.35CS-150-2RSU	U	5	Rubbe r	M6	35	19.9	27.85	150	170	30	30.0	0	0	0.41
L1935.35CS-180-2RSTA	Т	6	Rubbe r	M6	35	19.9	27.85	180	200	60	30.0	28.5	72.2	0.49
L1935.35CS-180-2RSUA	U	6	Rubbe r	M6	35	19.9	27.85	180	200	60	30.0	0	0	0.49
L1935.35CS-180-2RST	Т	6	Rubbe r	M6	35	19.9	27.85	180	200	60	30.0	28.5	72.2	0.49
L1935.35CS-180-2RSUB	U	6	Rubbe r	M6	35	19.9	27.85	180	200	60	30.0	0	0	0.49





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Order No.	M _{zr} Nm	M _{zl} Nm	+0.1 -0.3	w ₂	Dyn. load C N max.	Static load C _{0 ax.} N max.	Static load C _{0 rad.} N max.
L1935.35CS-100- 2RST	61.5	61.5	30.2	11.9	8040	1060	3510
L1935.35CS-100- 2RSU	61.5	61.5	30.2	11.9	8040	0	3510
L1935.35CS-120- 2RSTA	52.7	158.1	30.2	11.9	8040	1220	3510
L1935.35CS-120- 2RSUA	52.7	158.1	30.2	11.9	8040	0	3510
L1935.35CS-120- 2RSTB	158.1	52.7	30.2	11.9	8040	1220	3510
L1935.35CS-120- 2RSUB	158.1	52.7	30.2	11.9	8040	0	3510
L1935.35CS-150- 2RST	158.1	158.1	30.2	11.9	9565	1460	4180
L1935.35CS-150- 2RSU	158.1	158.1	30.2	11.9	9565	0	4180
L1935.35CS-180- 2RSTA	158.1	263.4	30.2	11.9	9565	1780	4180
L1935.35CS-180- 2RSUA	158.1	263.4	30.2	11.9	9565	0	4180
L1935.35CS-180- 2RST	263.4	158.1	30.2	11.9	9565	1780	4180
L1935.35CS-180- 2RSUB	263.4	158.1	30.2	11.9	9565	0	4180



Compact Rails

Introduction

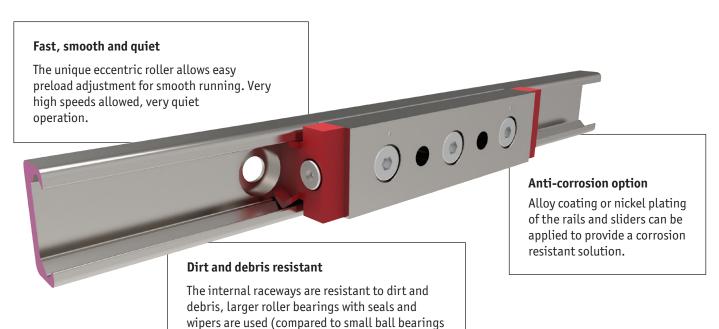
The compact rail systems are unique. They have many major advantages over other rail systems.

Easy and cost-effective to set up

The rails are easy to set up and can adjust for some misalignment of the structure on which it is being used. The compact rail system achieves this by using a master (T type) rail, and a slave (U type) rail. This allows the sliders in the T rail to remain fixed in place but allows lateral movement of the sliders in the U rail to adapt to any misalignment and avoid any issues of stiction.

Slave (U) rails have flat, parallel raceways that allow free lateral movement of the sliders. This flexibility can mean a large saving in the machining of the structure surface making it a very cost-effective solution.

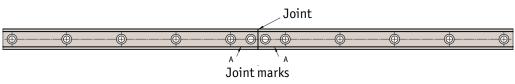




Unlimited rail lengths

Rails can be easily joined together for unlimited rail lengths, and extra hole needs to be machined at the joint area. The rails need to be selected so they are "matched" and a joining tool needs to be used to align the rails.

on other systems).





Compact Rails

Specifications and applications



Specifications

- Maximum speed 9 m/s.
- Maximum acceleration 20 m/s².
- Maximum unjoined rail length 3600 mm.
- 4 rail sizes 18, 28, 35 and 43.
- Three rail types T rail, U rail and K rail.
- Rail lengths from 160mm upwards.
- Rail raceways hardened and ground.
- Accuracy 0,15mm over 3,5 metres.
- Maximum radial load per slider is 15,000 N.

- Temperature range -30°C to +120°C.
- Roller bearings seals either 2Z (dust proof) or 2RS (splash proof), lubricated for life.
- Roller bearings from 100Cr6.
- Easy adjustment of preload.
- Three slider body types.
- Rails can be joined together, please contact our Technical Department for details.
- Special anti-corrosion coatings and finishes on

Applications



npact

Special purpose & packaging machines

Precision positioning systems handling units robotic systems • cutting machines



Seating

Sliding seats disability ramps seat extensions



Safety guarding

Extending protective systems sliding gates automatic pick & place



Sliding doors & windows

Internal sliding doors gates • roof lights display cases



Photography & lighting

Sliding tracks positioning of lights shielding systems



Medical technology

X-ray equipment dental chairs bed extensions



Food, drink & pharmaceuticals

Food handling conveyors pharmaceutical factories stainless display equipment



Transport (naval)

Sliding hatches pull-out storage



Transport (rail)

Seat adjustment sliding doors battery removal units



Transport (automotive)

Ambulance sliding systems fire fighting vehicles sliding panels



Transport (military)

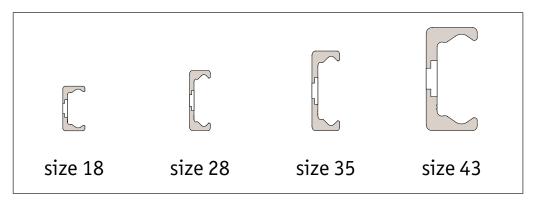
Sliding seats protective hatches stretcher extensions



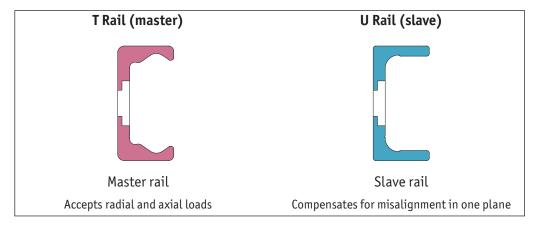
ompact Rail from Automotion Components



Rail sizes



Rail types



Sliders

Solid body, front mount - Type CL

Solid steel, zinc plated body with removable end wipers side seals, fixing in top face

Solid body, front mount - Type CS

Narrow body, solid steel zinc plated with removable end wipers no side seals, fixing on top face

Solid body, side mount - Type CR

Solid steel, zinc plated body with removable end wipers side seals, fixing in side of body





ompact Rail from Automotion Components



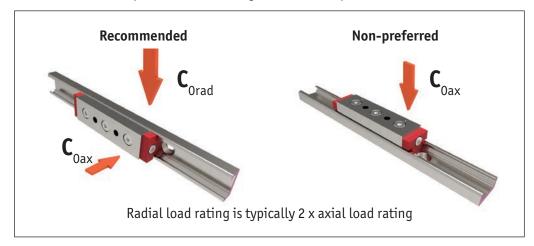
Compact Rail

Set-up



Orientation of rails

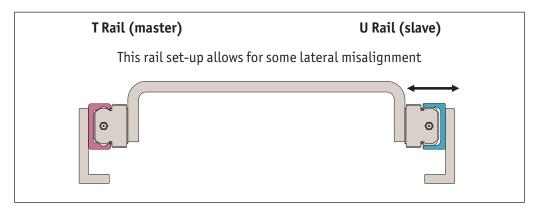
The radial load that the sliders can take is significantly higher than the axial load, so where possible the rails should be set up with the sliders taking the loads in this plane.



One of the key benefits of the compact rail system is that it compensates for misalignment in the structure. This often results in a major cost saving when compared to the use of other guideways which have to be very accurately installed.

The compact rail system achieves this by using a master (T type) rail, and a slave (U type) rail. This allows the slides in the Trail to remain fixed in place but allows lateral movement of the sliders in the U rail to adapt to any misalignment and avoid any issues of stiction.

U rails have flat, parallel raceways that allow free lateral movement of the sliders. The maximum lateral movement for each size is shown in later tables.



Using flat rails

It is acceptable (but not the preferred method), to use rails as below but the alignment accuracy needed is slightly greater and in this set-up only T type rails can be used.

In this case the axial load figure C_{Oax} should be used in any calculations (which is considerably less than the radial load figure C_{Orad}).

