

L1918.18T-C

Material

Carbon steel. Raceways induction hardened and ground.

Electrolytic zinc-plated (excluding raceways).

Technical Notes

The T rail is a master rail and is usually

used with a U slave rail (allows for system misalignment).

Light Duty T Rail counterbored holes

This is the counterbored rail type (most popular), which is usually used with a corresponding U-C rail. Special low profile Torx head screws provided free of charge.

Weight: 0,55 Kg/m.

Standard carriages are the L1918.CL series.

1918.18T-0160-C	Order No.	d ₁	d ₂ for screws	h,	h ₂	l ₁	12	l ₃	r ₁	W ₁	W_2	W ₃
L1918.18T-0240-C 9.5 M4 18 9 240 80 40 1.5 8.25 2.8 2		-	2	-	_	-	_			*	_	
L1918.18T-0320-C 9.5												
L1918.18T-0400-C 9.5 M4 18 9 400 80 40 1.5 8.25 2.8 2			****	-	-							
L1918.18T-0480-C 9.5 M4 18 9 480 80 40 1.5 8.25 2.8 2												
L1918.18T-0560-C 9.5 M4 18 9 560 80 40 1.5 8.25 2.8 2					-							
L1918.18T-0640-C			*** *									
L1918.18T-0720-C 9.5 M4 18 9 720 80 40 1.5 8.25 2.8 2			****		-							
L1918.18T-0800-C												
L1918.18T-0960-C 9.5 M4 18 9 960 80 40 1.5 8.25 2.8 2 L1918.18T-1040-C 9.5 M4 18 9 1040 80 40 1.5 8.25 2.8 2 L1918.18T-1120-C 9.5 M4 18 9 1120 80 40 1.5 8.25 2.8 2 L1918.18T-1200-C 9.5 M4 18 9 1200 80 40 1.5 8.25 2.8 2 L1918.18T-1280-C 9.5 M4 18 9 1200 80 40 1.5 8.25 2.8 2 L1918.18T-1260-C 9.5 M4 18 9 1200 80 40 1.5 8.25 2.8 2 L1918.18T-1360-C 9.5 M4 18 9 1360 80 40 1.5 8.25 2.8 2 L1918.18T-1440-C 9.5 M4 18 9 1360 80 40 1.5 8.25 2.8 2 L1918.18T-1460-C 9.5 M4 18 9 1440 80 40 1.5 8.25 2.8 2 L1918.18T-1660-C 9.5 M4 18 9 1500 80 40 1.5 8.25 2.8 2 L1918.18T-1660-C 9.5 M4 18 9 1600 80 40 1.5 8.25 2.8 2 L1918.18T-1660-C 9.5 M4 18 9 1600 80 40 1.5 8.25 2.8 2 L1918.18T-1660-C 9.5 M4 18 9 1600 80 40 1.5 8.25 2.8 2 L1918.18T-1680-C 9.5 M4 18 9 1600 80 40 1.5 8.25 2.8 2 L1918.18T-1960-C 9.5 M4 18 9 1600 80 40 1.5 8.25 2.8 2 L1918.18T-1960-C 9.5 M4 18 9 1600 80 40 1.5 8.25 2.8 2 L1918.18T-1960-C 9.5 M4 18 9 1600 80 40 1.5 8.25 2.8 2 L1918.18T-1960-C 9.5 M4 18 9 1600 80 40 1.5 8.25 2.8 2 L1918.18T-1200-C 9.5 M4 18 9 1600 80 40 1.5 8.25 2.8 2 L1918.18T-1200-C 9.5 M4 18 9 1760 80 40 1.5 8.25 2.8 2 L1918.18T-1200-C 9.5 M4 18 9 1840 80 40 1.5 8.25 2.8 2 L1918.18T-2000-C 9.5 M4 18 9 1920 80 40 1.5 8.25 2.8 2 L1918.18T-2000-C 9.5 M4 18 9 2000 80 40 1.5 8.25 2.8 2 L1918.18T-2000-C 9.5 M4 18 9 2000 80 40 1.5 8.25 2.8 2 L1918.18T-2000-C 9.5 M4 18 9 2000 80 40 1.5 8.25 2.8 2 L1918.18T-2000-C 9.5 M4 18 9 2000 80 40 1.5 8.25 2.8 2 L1918.18T-2000-C 9.5 M4 18 9 2000 80 40 1.5 8.25 2.8 2 L1918.18T-2000-C 9.5 M4 18 9 2000 80 40 1.5 8.25 2.8 2 L1918.18T-2000-C 9.5 M4 18 9 2000 80 40 1.5 8.25 2.8 2 L1918.18T-2000-C 9.5 M4 18 9 2000 80 40 1.5 8.25 2.8 2 L1918.18T-2000-C 9.5 M4 18 9 2000 80 40 1.5 8.25 2.8 2 L1918.18T-2000-C 9.5 M4 18 9 2000 80 40 1.5 8.25 2.8 2 L1918.18T-2000-C 9.5 M4 18 9 2400 80 40 1.5 8.25 2.8 2 L1918.18T-2000-C 9.5 M4 18 9 2400 80 40 1.5 8.25 2.8 2 L1918.18T-2000-C 9.5 M4 18 9 2400 80 40 1.5 8.25 2.8 2					-							
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L1918.18T-1760-C 9.5 M4 18 9 1760 80 40 1.5 8.25 2.8 2 L1918.18T-1840-C 9.5 M4 18 9 1840 80 40 1.5 8.25 2.8 2 L1918.18T-1920-C 9.5 M4 18 9 1920 80 40 1.5 8.25 2.8 2 L1918.18T-2000-C 9.5 M4 18 9 2000 80 40 1.5 8.25 2.8 2 L1918.18T-2080-C 9.5 M4 18 9 2080 80 40 1.5 8.25 2.8 2 L1918.18T-2160-C 9.5 M4 18 9 2160 80 40 1.5 8.25 2.8 2 L1918.18T-2240-C 9.5 M4 18 9 2240 80 40 1.5 8.25 2.8 2 L1918.18T-2400-C 9.5 M4 18 9 2320 80 40 1.5 8.25 2.8 2	L1918.18T-1600-C	9.5	M4	18	9	1600	80	40	1.5	8.25	2.8	
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L1918.18T-2400-C 9.5 M4 18 9 2400 80 40 1.5 8.25 2.8 2 L1918.18T-2480-C 9.5 M4 18 9 2480 80 40 1.5 8.25 2.8 2	L1918.18T-2240-C	9.5	M4	18	9	2240	80	40	1.5	8.25	2.8	2
L1918.18T-2400-C 9.5 M4 18 9 2400 80 40 1.5 8.25 2.8 2 L1918.18T-2480-C 9.5 M4 18 9 2480 80 40 1.5 8.25 2.8 2	L1918.18T-2320-C	9.5	M4	18	9	2320	80	40	1.5	8.25	2.8	2
L1918.18T-2480-C 9.5 M4 18 9 2480 80 40 1.5 8.25 2.8 2	L1918.18T-2400-C	9.5	M4	18	9	2400	80	40	1.5	8.25	2.8	
	L1918.18T-2480-C		M4	18	9	2480	80	40	1.5		2.8	2
			M4	-	9			40	1.5	8.25		





Light Duty T Rail counterbored holes



Order No.	d_1	d ₂ for screws	h_1	h_2	I_1	l ₂	l ₃	r_1	w_1	W_2	w ₃
L1918.18T-2640-C	9.5	M4	18	9	2640	80	40	1.5	8.25	2.8	2
L1918.18T-2720-C	9.5	M4	18	9	2720	80	40	1.5	8.25	2.8	2
L1918.18T-2800-C	9.5	M4	18	9	2800	80	40	1.5	8.25	2.8	2
L1918.18T-2880-C	9.5	M4	18	9	2880	80	40	1.5	8.25	2.8	2
L1918.18T-2960-C	9.5	M4	18	9	2960	80	40	1.5	8.25	2.8	2
I 1918 18T-3040-C	95	M4	18	9	3040	80	40	1.5	8 25	28	2





Compact Rails

Introduction

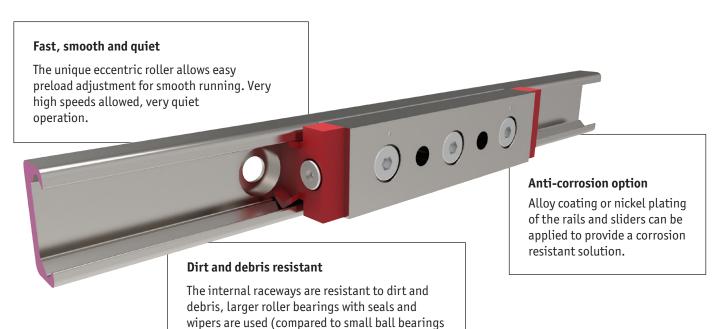
The compact rail systems are unique. They have many major advantages over other rail systems.

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.

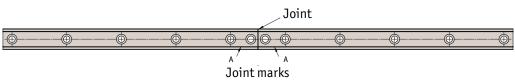




Unlimited rail lengths

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)

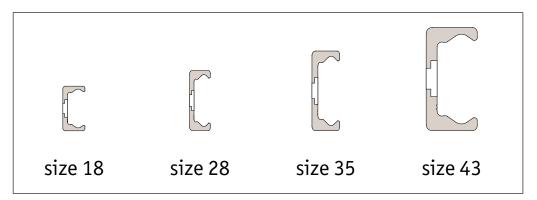
Sliding seats protective hatches stretcher extensions



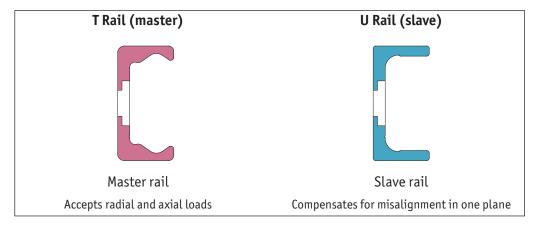
ompact Rail from Automotion Components



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



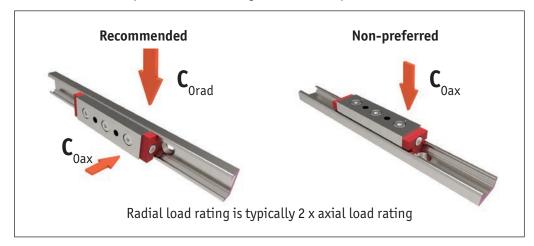
Compact Rail

Set-up



Orientation of rails

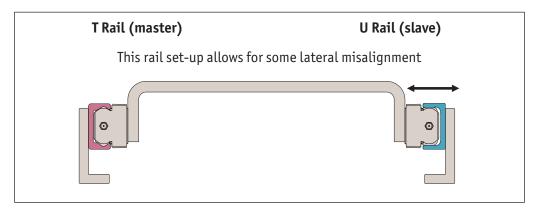
The radial load that the sliders can take is significantly higher than the axial load, so where possible the rails should be set up with the sliders taking the loads in this plane.



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}).

