

# TIGHT RADIUS SYSTEM TR31





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## Work securely and safely

The TR31 Tight Radius rail and trolley system is designed to work as a movable anchorage point for fall restraint applications. Straight rails can be bent to accommodate directional changes up to a 350 mm (13.8") radius. Machined corners up to 200 mm (7.9") radius bends are available for both horizontal and vertical transitions.



### Trolley design

Trolleys are strong, tested to 1200 kg (2645 lb) and comply with 2 x MCA requirements. They are compact for minimal intrusion on narrow deck and restricted work areas. Trolleys are multidirectional load capable. Anodized for maximum corrosion resistance. Delrin® low-friction rollers require no lubrication. Rollers are fully supported on both ends for smooth movement.



### Rail design

Rails are made of high-strength, marine grade 6061-T6 aluminum and are anodized for maximum protection. Designed for countersunk M10 fasteners for flush mounting. The rails can be used for vertical and horizontal operating planes with unsupported spans as long as 1.3 m (4.3').



### Brake trolley design

Screwpin on trolley keeps it in position when not in use. Delrin® low-friction rollers require no lubrication. Rollers are fully supported on both ends for smooth movement.

### How does it work?

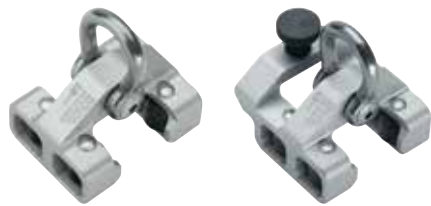
The TR31 continuous rail and trolley system allows a fully-harnessed crew member, safely tethered to the trolley, to move freely along the rail during inspection and maintenance, or when assisting in pilot transfer. Rails can be either surface or stanchion mounted and are designed so the user never has to unhook and rehook the tether as he moves around the deck.

### Installation and maintenance

The system can be installed either at initial build or as a retrofit. Flush clean with fresh water and mild detergent. It is important to clean the trolley. Excessive build-up of grease, dirt, and salt will affect trolley movement.

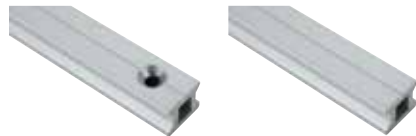
#### Corners - Horizontal bend

#### Corners - Vertical bend



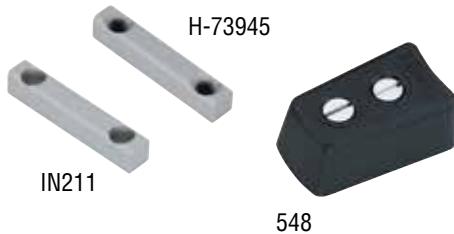
IN210.CLEAR

IN212.CLEAR



IN209.3M.CLEAR

IN213.3M.CLEAR



H-73945

IN211

548

90°



IN201.CLEAR



IN202.CLEAR

60°



IN204.CLEAR



IN207.CLEAR

45°



IN205.CLEAR



IN208.CLEAR

30°



IN203.CLEAR



IN206.CLEAR

### TR31 Trolleys

Part No.	Description	Length		Width		Weight	
		in	mm	in	mm	lb	g
IN210.CLEAR*	Trolley	2.63	66.8	2.06	52.32	0.56	254
IN212.CLEAR*	Brake trolley	2.73	69.2	2.6	66.04	0.60	270

\*To order black hardcoat-anodized, remove .CLEAR from end of part number.

### TR31 Rail & Accessories

Part No.	Description	Bend information	Bend radius mm	Arc length**		Weight		Fasteners mm
				ft/in	m	lb	g	
IN209.3M.CLEAR*	Straight rail section	Straight	200	9' 10 1/16"	3	8.47	3840	M10
IN213.3M.CLEAR*	Straight rail section without holes	Straight	200	9' 10 1/16"	3	8.49	3850	
IN203.CLEAR*	Corner rail	Horizontal 30°	200	6 11/16"	0.17	0.57	260	M10
IN205.CLEAR*	Corner rail	Horizontal 45°	200	8 11/16"	0.22	0.77	350	M10
IN204.CLEAR*	Corner rail	Horizontal 60°	200	10 5/8"	0.27	0.98	440	M10
IN201.CLEAR*	Corner rail	Horizontal 90°	200	14 3/16"	0.36	1.39	630	M10
IN206.CLEAR*	Corner rail	Vertical 30°	200	7 1/16"	0.18	0.60	270	M10
IN208.CLEAR*	Corner rail	Vertical 45°	200	9 1/16"	0.23	0.81	370	M10
IN207.CLEAR*	Corner rail	Vertical 60°	200	11"	0.28	1.03	470	M10
IN202.CLEAR*	Corner rail	Vertical 90°	200	15 5/16"	0.39	1.46	660	M10
548	Endstop set (2.83"/71.8 mm)					0.13	60	
IN211	Splice link with 10 mm holes					0.051	23	
H-73945	Splice link with 10 mm threaded holes					0.053	24	

\*To order black hardcoat-anodized, remove .CLEAR from end of part number. \*\* Arc length is to the inside of the radius.

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