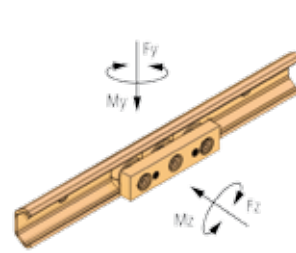


C-Rail

Roller Bearings and Linear Guideways



CARRIAGE	NUMBER OF ROLLERS	Fd	Fy	Fz	
		DYNAMIC CAPACITY	RADIAL	AXIAL	
		N	N	N	
STEEL	CR20	3	280	210	160
	CR30	3	800	610	420
	CR45	3	1740	1330	930
STAINLESS STEEL	CRSS20	3	280	210	160
	CRSS30	3	800	610	420

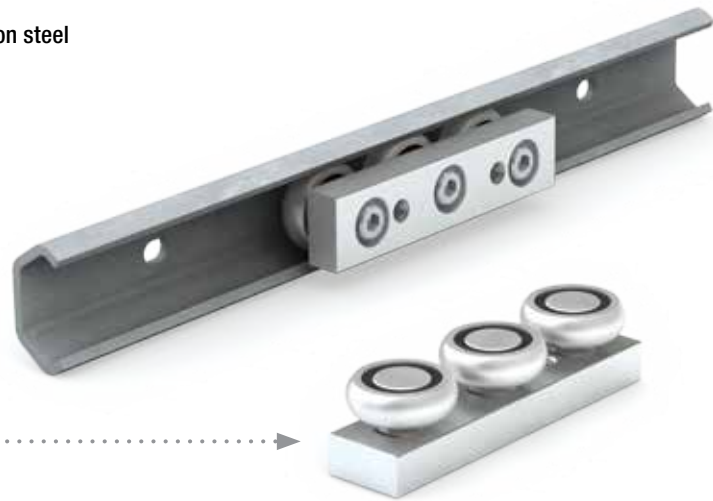


Fd = Dynamic capacity (LC)
 Fz = Axial capacity
 Fy = Radial capacity
 Mx, My, Mz = moment capacities

FEATURES AND BENEFITS

Commercial Rail is a simple and cost-effective linear motion solution with low to moderate load capacity.

- Precision-formed rails available in zinc-plated carbon steel sheet or stainless steel
- Transfer speeds of up to 1.5 m/s
- Withstands temperatures up to 100°C
- Load capability up to 1330N



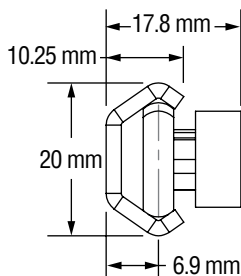
● **ROLL-FORMED RAILS**
 Corrosion-resistant

● **SEALED ROLLERS**
 Ideal around contaminants

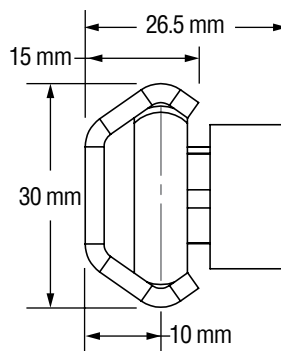
1:1 SCALE

Sizes given in mm

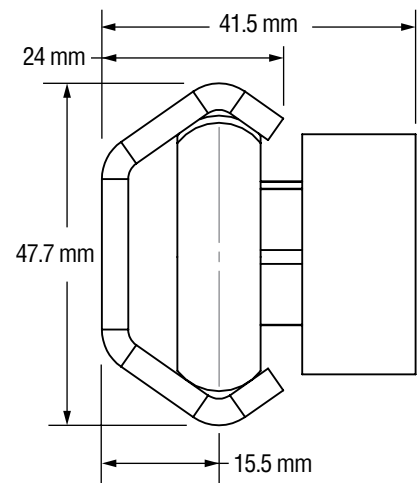
CR20 - RAIL AND SLIDERS



CR30 - RAIL AND SLIDERS



CR45 - RAIL AND SLIDERS



Roller Bearings and Linear Guideways

C-Rail



PRODUCT OVERVIEW

Commercial Rail is a simple and cost-effective linear motion solution with low to moderate load capacity.

- Roll-formed rails made of zinc plated steel or stainless steel provide low-cost corrosion-resistant capability
- Zinc-plated rail length of up to 6000 mm
- Machined slider body of aluminium alloy, anodized for corrosion resistance
- Steel rollers are made of 52100 chrome steel, hardened and ground, lubricated for life and sealed against contamination
- Stainless steel rollers made of 440C stainless steel for improved corrosion resistance, lubricated for life and sealed against contamination
- Rollers made with thread-integrated inner ring for ease of assembly and adjustment of preload
- Maximum operating temperature 100°C
- Transfer speeds of up to 1.5 m/s

MATERIAL AND FINISH SPECIFICATIONS

SLIDE ORIENTATION

The three-roller slide should be installed in the rail so the load is shared on the two outside rollers. The orientation marks indicate how to align the slider with the load direction.

	CR SERIES RAIL	SS SERIES RAIL
Rail	Carbon steel, zinc plated	Stainless steel 304
Slide	Aluminium alloy anodized	Aluminium alloy anodized
Rollers	Chrome steel or polymer	Stainless steel
Hardware	Steel, chrome-plated	Stainless steel 18-8

- Moment loads should be carried by two slides or two parallel rollers

LUBRICATION – RAILS AND BEARINGS

The rollers are internally lubricated for life, but the rails must always have a layer of grease. As a guideline, apply fresh grease every 50,000 cycles.

ADJUSTING PRELOAD

- To loosen the centre roller, use an Allen wrench to loosen the screw while holding the roller still with an open-end wrench.
- Turn the centre roller to a position that achieves the desired preload.
- Move the slide along the length of the rail by hand. Adjust it so that it does not feel loose anywhere.
- Tighten the screw while holding the roller flat with an open-end wrench.

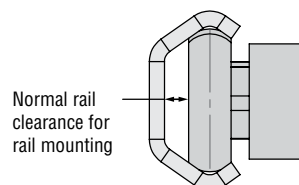
ADJUSTING PRELOAD	CR20/CRSS20	CR30/CRSS30	CR45/CRSS45
Spanner area (mm)	6	10	14

MOUNTING

CARRIAGE	CR20/CRSS20	CR30/CRSS30	CR45/CRSS45
Slide mount screws (socket head cap)	M5	M6	M8
Tightening torque (N-m)	3	5	12

CLEARANCE RAIL BASE/SCREW			
CLEARANCE		RECOMMENDED FASTENER (Button head cap)	HEAD HEIGHT*
SIZE	MM		MM
CR20	2.921	M4	2.2
CR30	4.0132	M5	2.75
CR45	6.5024	M8	11

*Head height dimensions meet ISO 7380

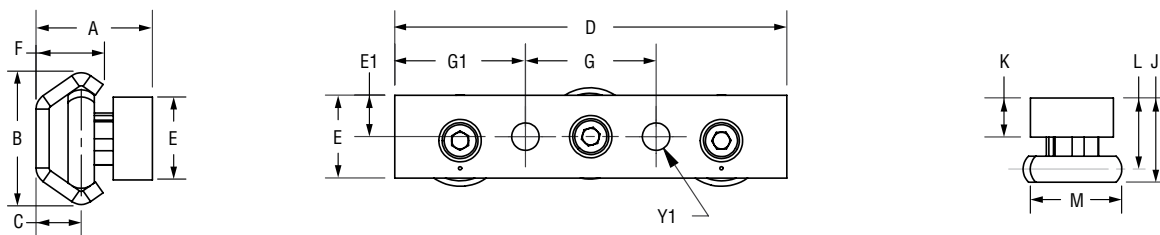


C-Rail

Roller Bearings and Linear Guideways



CARRIAGE



- **SEALED ROLLERS**
Ideal around contaminants
- **MACHINED BODY**
Anodized aluminium alloy

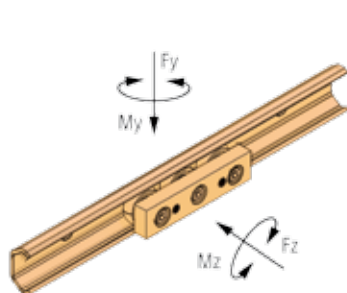


DIMENSIONAL INFORMATION (mm)

PART NO.	A	B	C	D	E	F	G	G1	J	K	L	M	Ø REF	Y1	BOLT	WEIGHT KG
CR20	17.8	20	6.9	60	12.7	10.25	20	20	12.9	6	10.9	14	2x Ø 4.2 through all	M5 x 0.8	0.499	
CR30	26.5	30	10	80	19.1	15	35	22.5	20	10	16.5	22.8	2x Ø 5.0 through all	M6 x 1.0	0.113	
CR45	41.5	45.7	15.5	120	31.8	24	50	35	31.5	15	26	35.5	2x Ø 6.8 through all	M8 x 1.25	1.408	

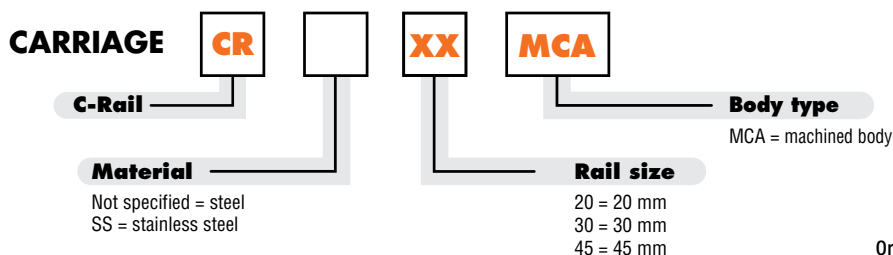
LOAD RATINGS

PART NO.		Fd DYNAMIC CAPACITY	Fy RADIAL	Fz AXIAL
PART NO.		N	N	N
STEEL	CR20	280	210	160
	CR30	800	610	420
	CR45	1740	1330	930
STAINLESS STEEL	CRSS20	280	210	160
	CRSS30	800	610	420



Fd = Dynamic capacity (LC)
 Fz = Axial capacity
 Fy = Radial capacity
 Mx, My, Mz = moment capacities

ORDERING INFORMATION



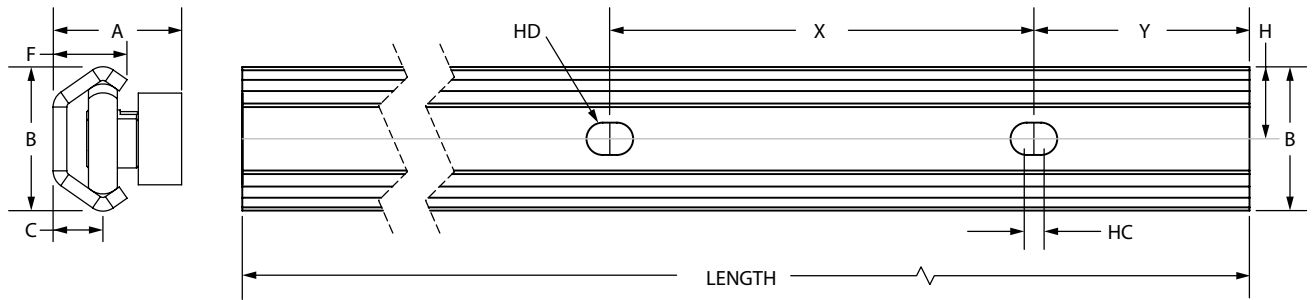
Order example: CR20MCA

Roller Bearings and Linear Guideways

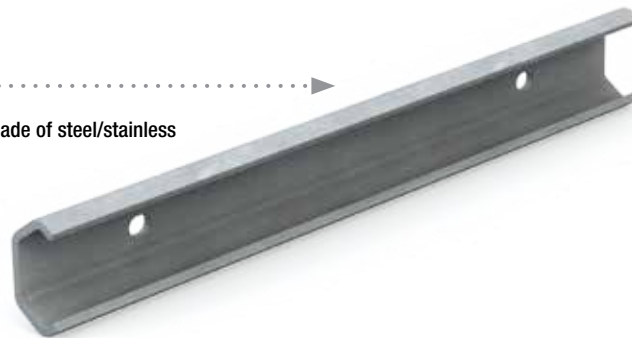
C-Rail



RAILS



● Roll formed rails made of steel/stainless steel sheet



DIMENSIONAL INFORMATION (mm)

PART NO.	A	B	C	F	H	HC	HD	X	Y	WEIGHT
	MM	MM	MM	MM	MM	MM	MM	MM	MM	kg/m
CR20	17.8	20	6.9	10.25	10.0	2	4.5	80	40	0.46
CR30	26.5	30	10	15	15.0	2	5.5	80	40	0.95
CR45	41.5	45.7	15.5	24	22.9	2	9.0	80	40	1.95

ORDERING INFORMATION

