

Workstation Light Crane Systems

Alu-line Product Catalogue





Company Profile

Nova Lifting Co., Ltd was established to provide quality products and excellent services to lifting & hoisting equipment, crane components, lashing equipment, material handling markets. "Top quality, first reputation, reasonable price" is our business purpose.

Our products have been exported to many countries and regions throughout the world in Europe, North America, South America, Australia, Southeast Asia, South Africa, etc. With the experience of being leader provider in this field for more than 10 years, we believe that we have an excellent mix of technical, sales administration and service personnel with a wealth of experience and knowledge and feel we are geared to provide you, the customer, with first class products and service.

We look forward to the opportunity of doing business with you and increasing the value and effectiveness of your business.

Application

NOVA Components



◀ Rail for simultaneously moving tool and material racks at assembly lines

Guide rail for Z lifting units



◀ Monorail with curves



◀ Double rail



Telescopic rail system ▶

Applications of NOVA Components



NOVA
HOIST & CRANE

Rail system for components
handling unit or manipulator



Guide rail installed in the floor or
floor-guided lifting units



Rail system for screw handling systems
with torque



Overhead crane systems X and Y
with lifting unit in Z



Crane systems with multiple runways



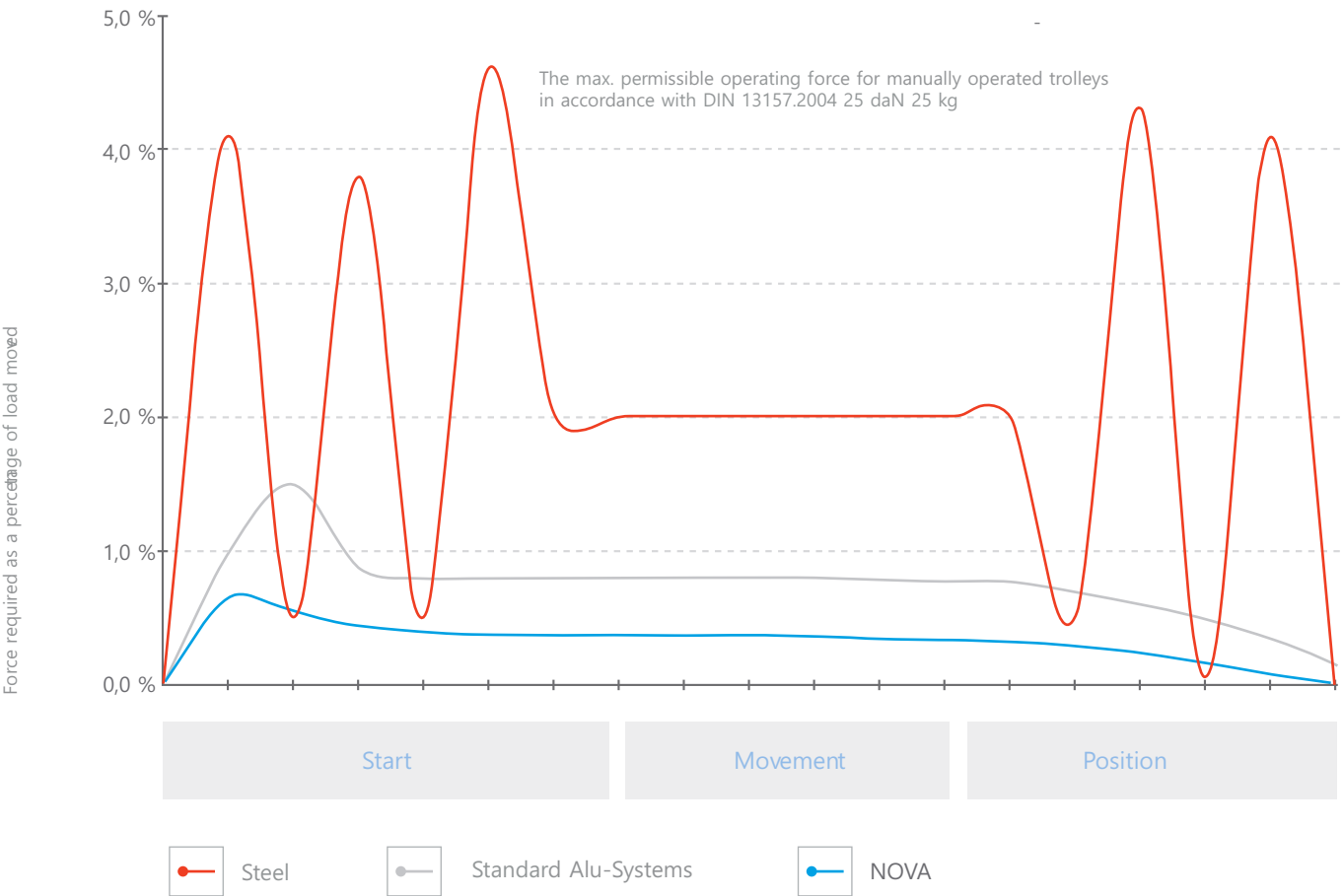
Perfect Smooth-Running

The smoother a crane system runs, the more pleasant and health preserving it is to work with. This is why NOVA places particular value on optimum crane system running behavior when developing any components.

The result: NOVA systems are demonstrably one of the easiest crane systems to move of those that are available on the market at this point in time.

In comparison to customary suspended runway systems, the operator of an NOVA system requires only one third of the tractive power to move a load. Trolleys in the aluminium profiles also run distinctly more quietly. These are measurable and noticeable ergonomics.

Force required when working with crane systems



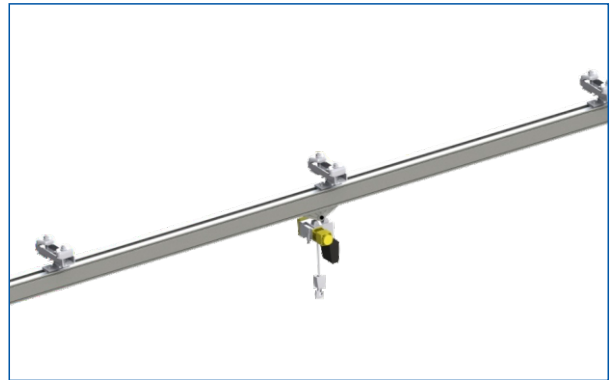
The values for NOVA proiles were determined expeimentally. Other values were taken from diagram publications.

Load	Start	Movement
100 kg	0,5 – 0,8 kg	0,2 – 0,4 kg
250 kg	1,3 – 1,9 kg	0,5 – 0,8 kg
500 kg	2,5 – 3,8 kg	1,0 – 1,9 kg
750 kg	3,8 – 5,6 kg	1,5 – 2,9 kg
1000 kg	5,0 – 7,5 kg	2,0 – 3,8 kg

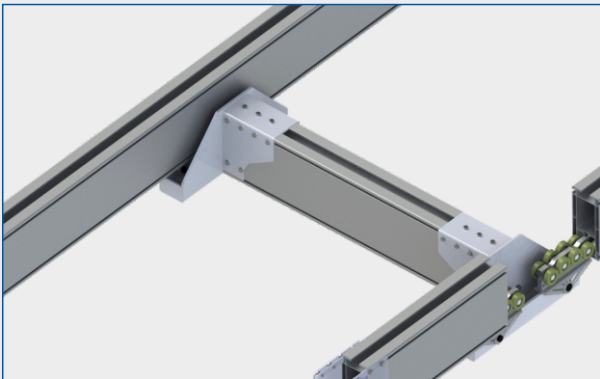
>> Combined Mode of NOVA Alu-Line System



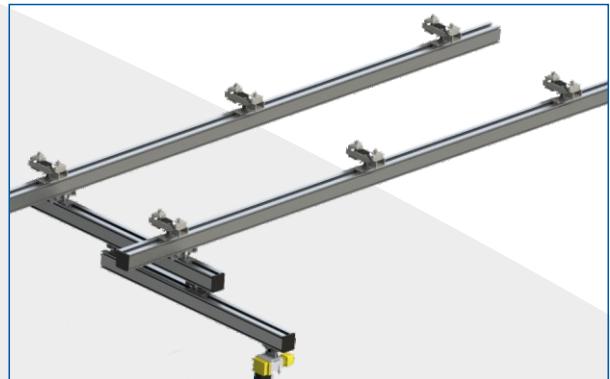
► NOVA Single-girder Overhead Crane



► NOVA Monorail Crane



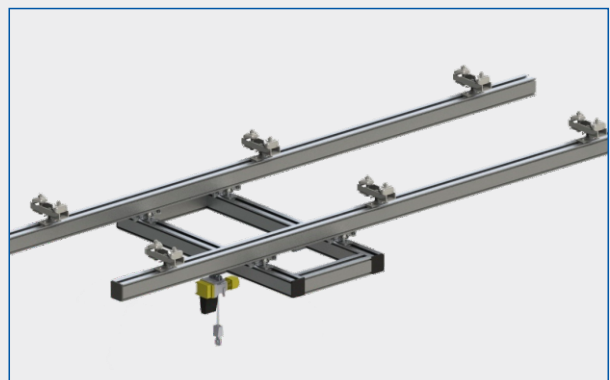
► NOVA Single-girder Elevated Crane



► NOVA Single-girder Elevated Telescope Crane

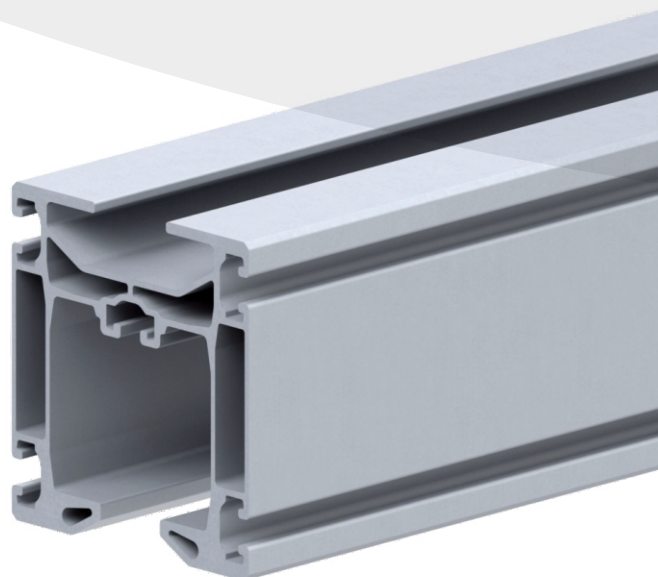
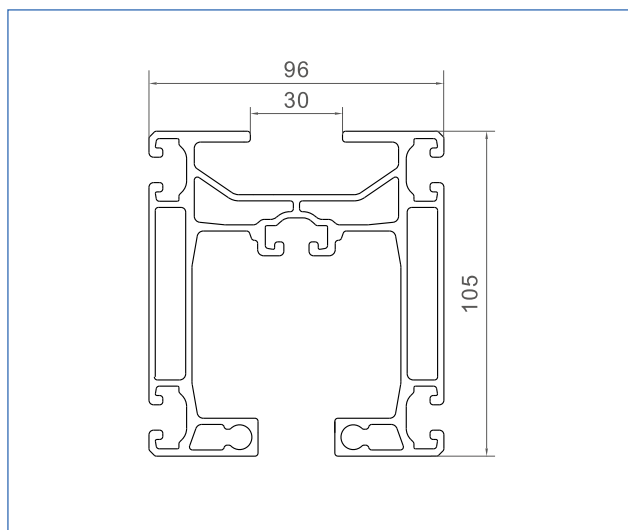


► NOVA Double-girder Elevated Crane



► NOVA Double-girder Overhead Crane

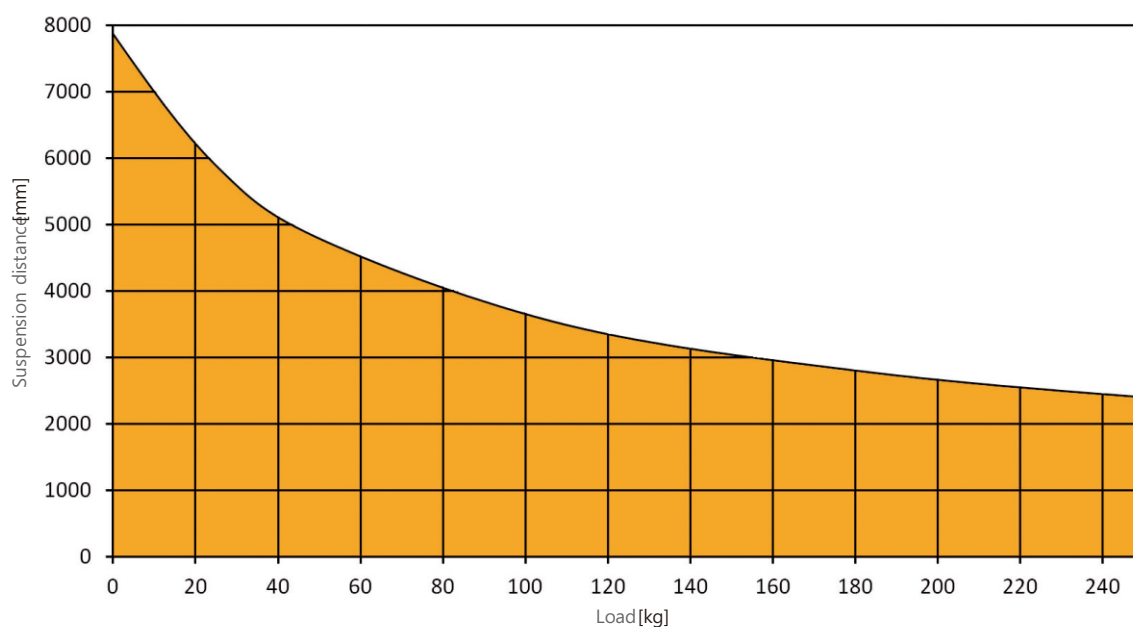
Aluminum Rail Profile S (Max.250kg)



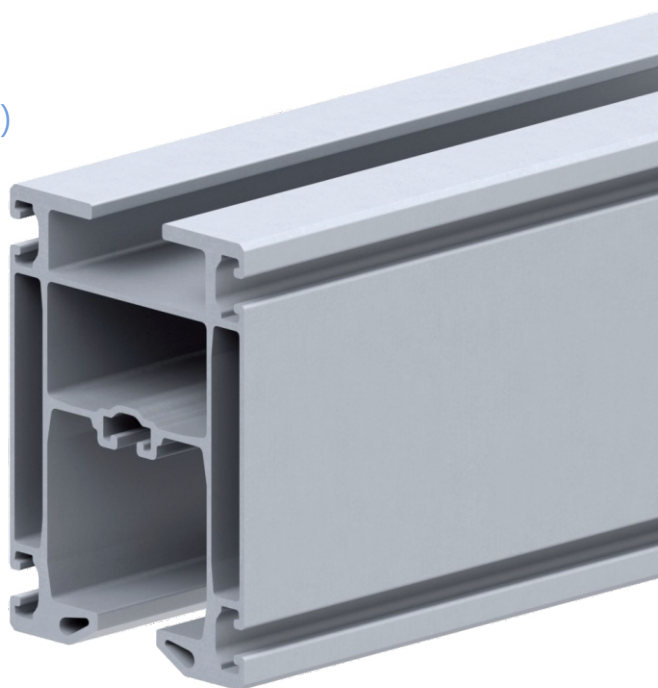
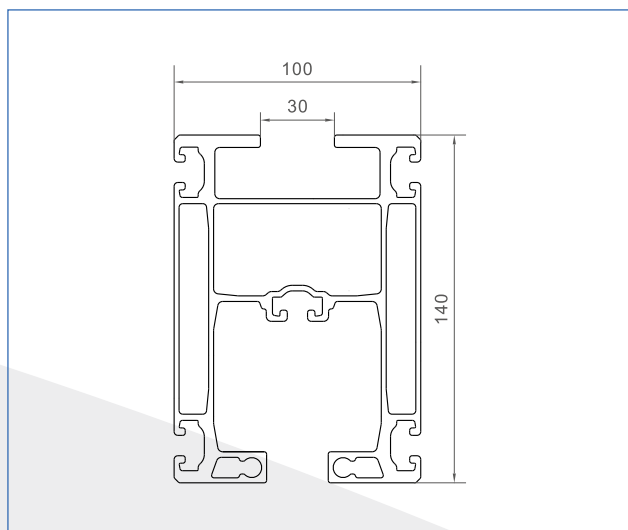
Feature	Description
Material data	Natural aluminium, anodised
Weight	ca. 5,5 kg/m
Moment of plane area [ly/lz]	235 cm ⁴ / 214 cm ⁴
Moment of resistance [Wy/Wz]	42 cm ³ / 44 cm ³

Crane profile S	Item no.	Weight
L = 1000 mm	01401401	5,50 kg
L = 2000 mm	01401402	11,00 kg
L = 3000 mm	01401403	16,50 kg
L = 4000 mm	01401404	22,00 kg
L = 5000 mm	01401405	27,50 kg
L = 6000 mm	01401406	33,00 kg
L = 7000 mm	01401407	38,50 kg
L = 8000 mm	01401408	44,00 kg

Load chart NOVA profile S



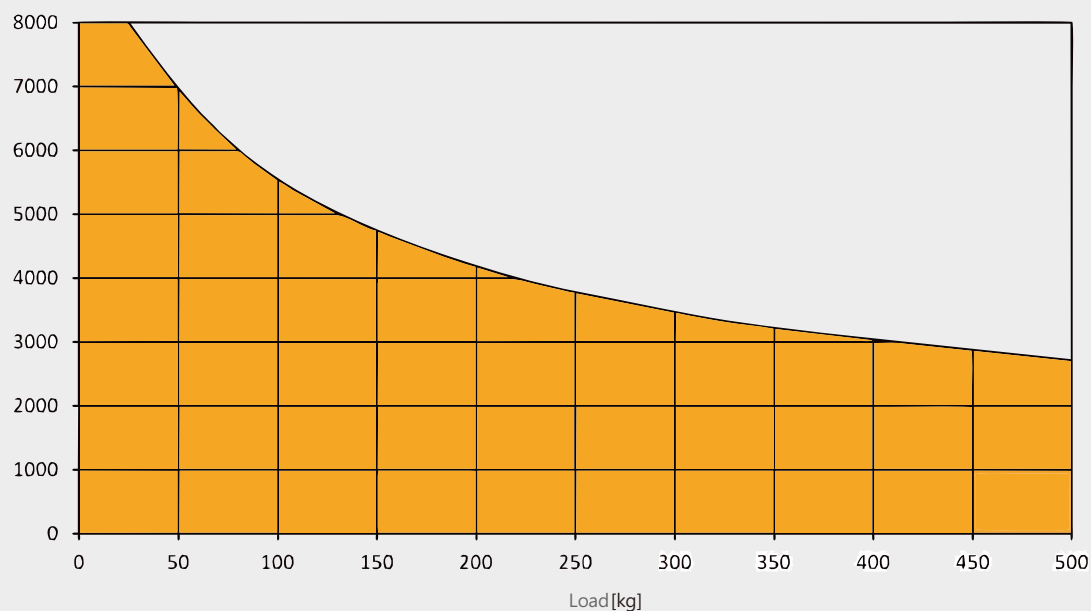
Aluminum Rail Profile M (Max.500kg)



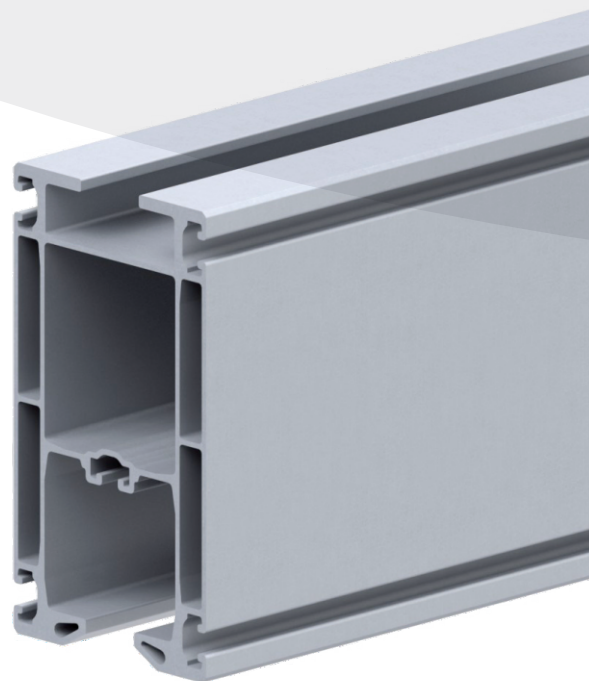
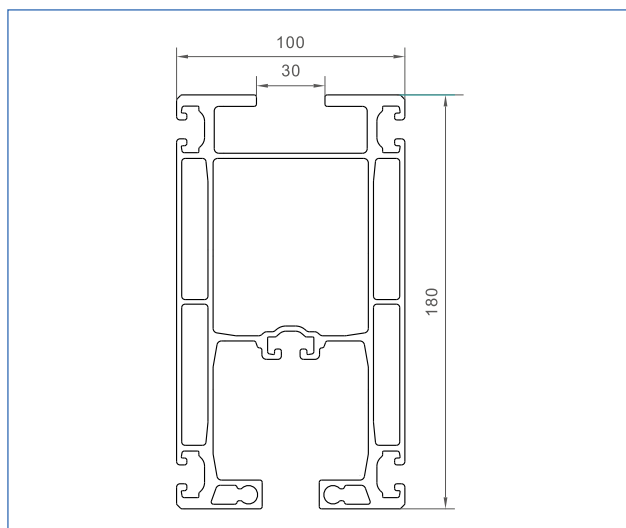
Feature	Description
Material data	Natural aluminium, anodised
Weight	ca. 7,2 kg/m
Moment of plane area [Iy/Iz]	605 cm ⁴ / 335 cm ⁴
Moment of resistance [Wy/Wz]	85 cm ³ / 67 cm ³

Crane profile M	Item no.	Weight
L = 1000 mm	01402201	7,20 kg
L = 2000 mm	01402202	14,40 kg
L = 3000 mm	01402203	21,60 kg
L = 4000 mm	01402204	28,80 kg
L = 5000 mm	01402205	36,00 kg
L = 6000 mm	01402206	43,20 kg
L = 7000 mm	01402207	50,40 kg
L = 8000 mm	01402208	59,60 kg

Load chart NOVA profile M



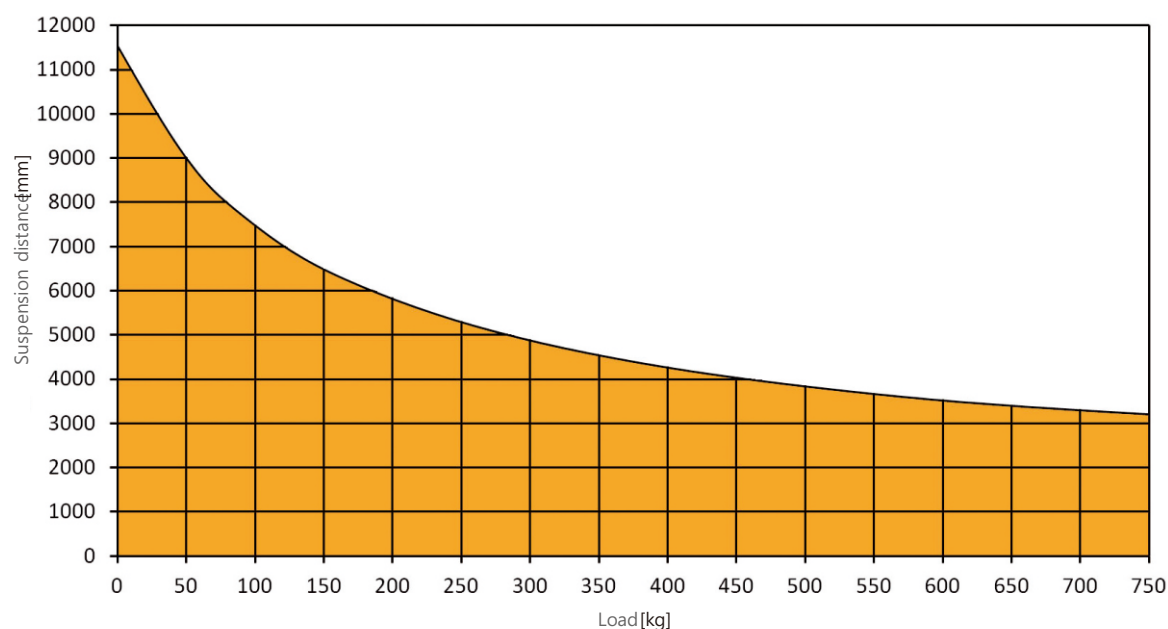
Aluminum Rail Profile L (Max.750kg)



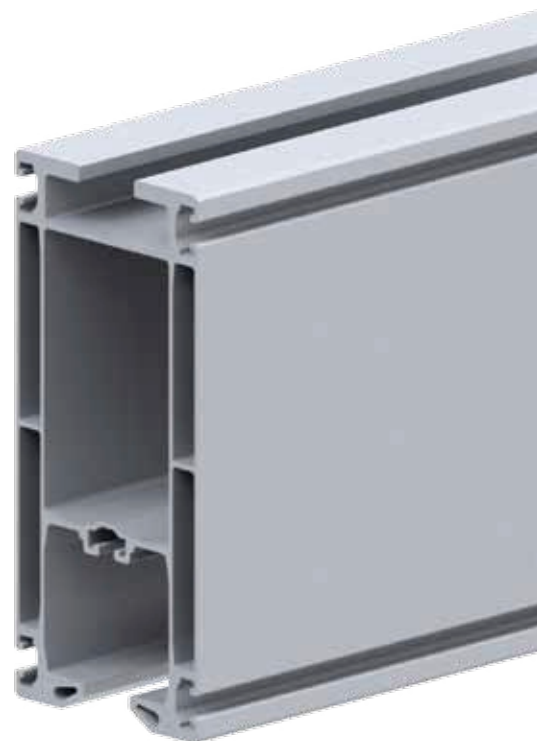
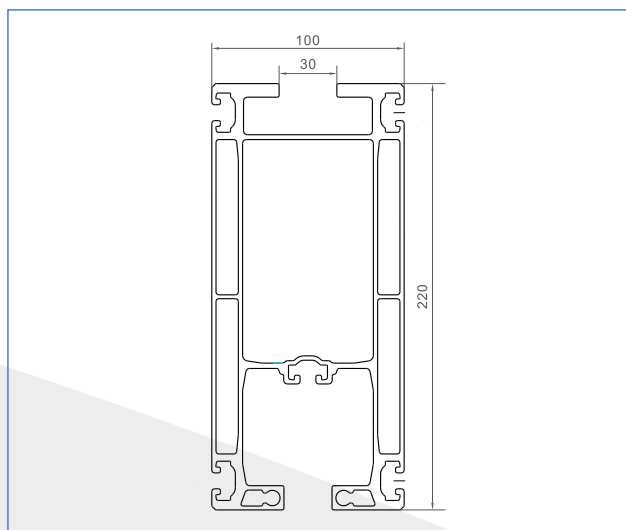
Feature	Description
Material data	Natural aluminium, anodised
Weight	ca. 8,8 kg/m
Moment of plane area [I _y /I _z]	1211 cm ⁴ / 437 cm ⁴
Moment of resistance [W _y /W _z]	133 cm ³ / 86 cm ³

Crane profile L	Item no.	Weight
L = 1000 mm	01403001	8,80 kg
L = 2000 mm	01403002	17,60 kg
L = 3000 mm	01403003	26,40 kg
L = 4000 mm	01403004	35,20 kg
L = 5000 mm	01403005	44,00 kg
L = 6000 mm	01403006	52,80 kg
L = 7000 mm	01403007	61,60 kg
L = 8000 mm	01403008	70,40 kg

Load chart NOVA profile L



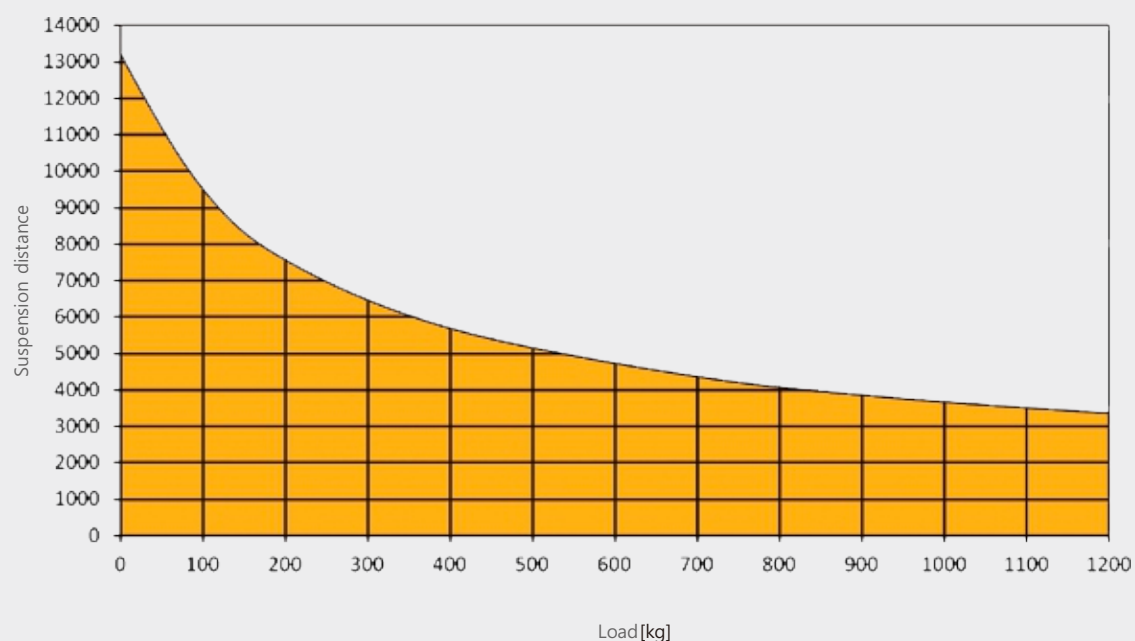
Aluminum Rail Profile XL (Max.1200kg)



Feature	Description
Material data	Natural aluminium, anodised
Weight	ca. 10,2 kg/m
Moment of plane area [I_y/I_z]	2200 cm ⁴ / 523 cm ⁴
Moment of resistance [W_y/W_z]	197 cm ³ / 104cm ³

Crane profile XL	Item no.	Weight
L = 1000 mm	01403701	10,20 kg
L = 2000 mm	01403702	20,40 kg
L = 3000 mm	01403703	30,60 kg
L = 4000 mm	01403704	40,80 kg
L = 5000 mm	01403705	51,00 kg
L = 6000 mm	01403706	61,20 kg
L = 7000 mm	01403707	71,40 kg
L = 8000 mm	01403708	81,60 kg

Load chart NOVA profile XL



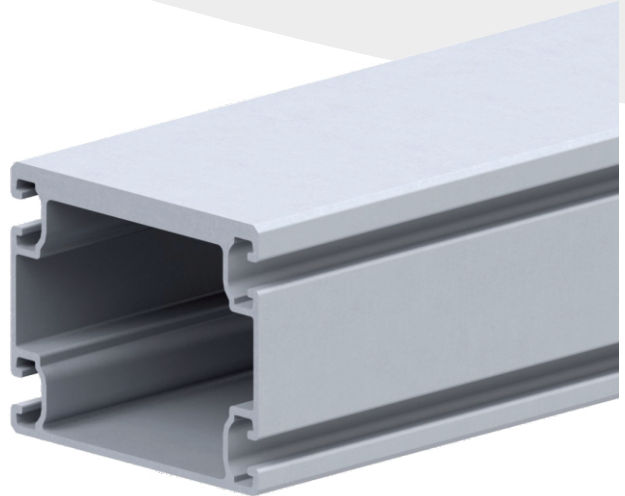
Reinforcement profile

The reinforcement profile is primarily designed ...

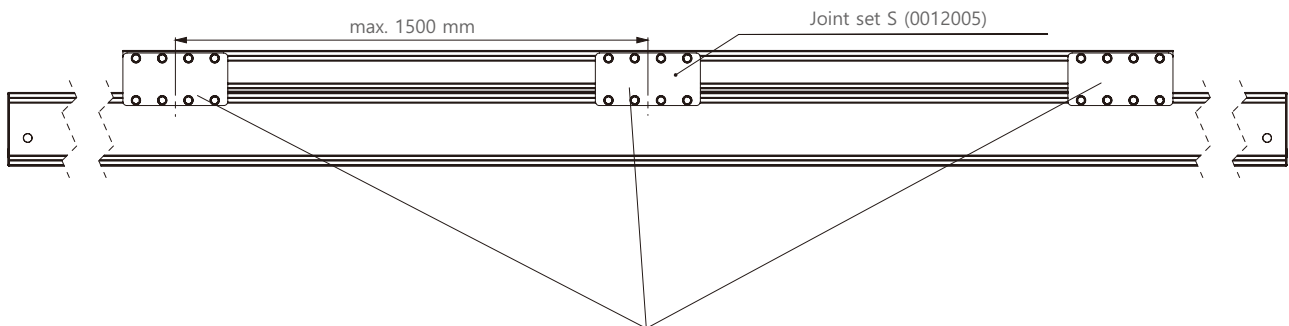
- ... to reduce deflection
- ... to increase span widths and suspension spacing

An increase in load is also possible, it cannot be greater than that of the underlying crane profile. (Load data on next page)

Connection of the reinforcement profile to the profile crane is carried out by means of joint connector plates for profile S (014075).



The reinforcement profile can be used in conjunction with the crane profiles M, L and XL. The profiles S is not compatible for this purpose.



The absolute necessary positions of the joint sets are ...

- ... at the end of the reinforcement profile
- ... in the center of the reinforcement profile

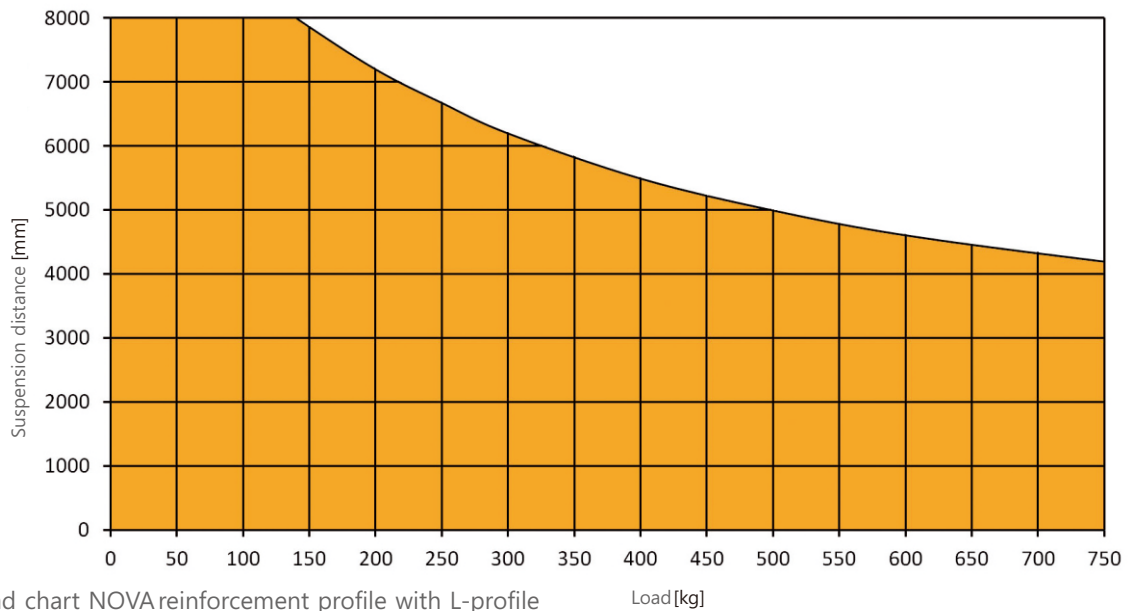
The remaining joints must be divided so that the distance is not greater than 1,500 mm.

Feature	Description
Material data	Natural aluminium, anodised
Weight	ca. 4 kg/m
Moment of plane area with M profile [ly/lz]	2141 cm ⁴ / 511 cm ⁴
Moment of plane area with L profile [ly/lz]	3515 cm ⁴ / 619 cm ⁴
Moment of plane area with XL profile [ly/lz]	5211 cm ⁴ / 695 cm ⁴

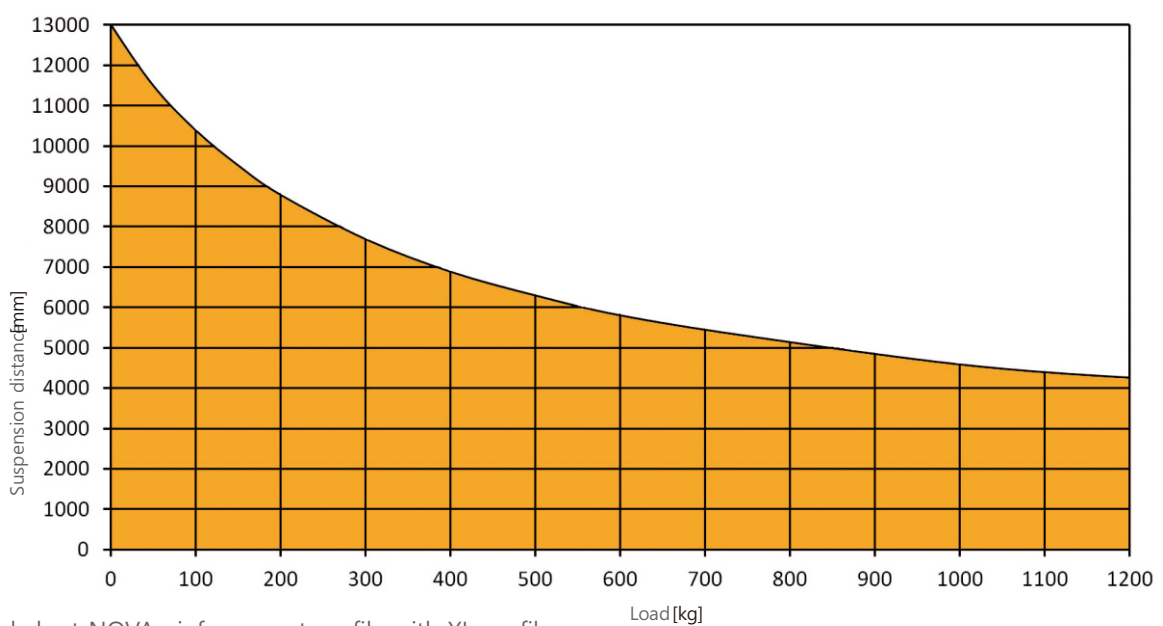
Reinforcement profile	Item no.	Weight
L = 1000 mm	01404501	4,00 kg
L = 2000 mm	01404502	8,00 kg
L = 3000 mm	01404503	12,00 kg
L = 4000 mm	01404504	16,00 kg
L = 5000 mm	01404505	20,00 kg
L = 6000 mm	01404506	24,00 kg
L = 7000 mm	01404507	28,00 kg
L = 8000 mm	01404508	32,00 kg

Reinforcement profile

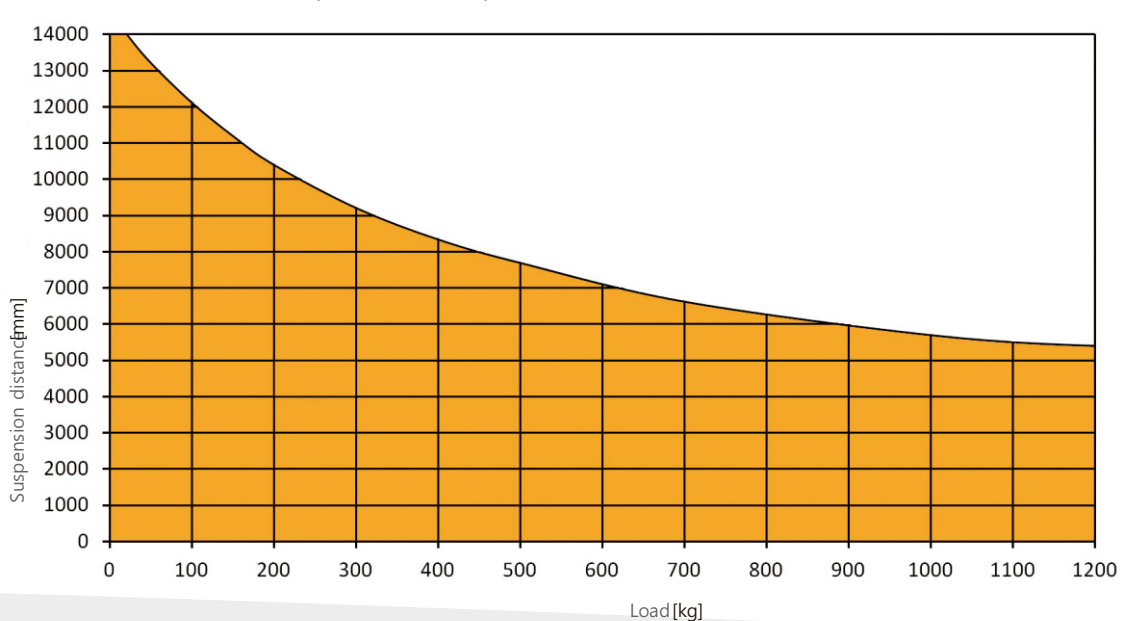
Load chart NOVA reinforcement profile with M-profile



Load chart NOVA reinforcement profile with L-profile

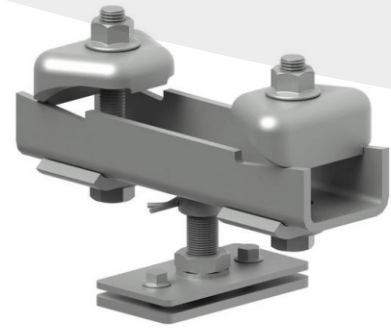


Load chart NOVA reinforcement profile with XL-profile



Rigid Mountings

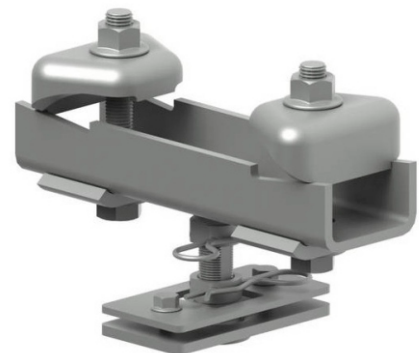
- Most NOVA crane systems that rely on precise load position or crane systems that are subject to upward forces, e.g. by manipulators, escalating devices or excessive overhang of the crane beams, are mounted using height adjustable, rigid mounting.
- The 20 mm range of height adjustment gives this type of mounting the ability to compensate for height differences in the steel construction, despite the rigid crane system mounting
- With three different sizes available, the securing of flange widths of between 50mm-310mm is covered



Feature	Rigid Mounting 50-150	Rigid Mounting 150-250	Rigid Mounting 250-310
Load Capacity	2000 kg	2000 kg	2000 kg
Flange Width	50mm-150mm	150mm-250mm	250mm-310mm
Height Adjustment	92mm-112mm	92mm-112mm	92mm-112mm
Weight	3.8 kg	4.3 kg	4.8 kg
Item Code	01405900	01406000	01406100

Pendular Mountings

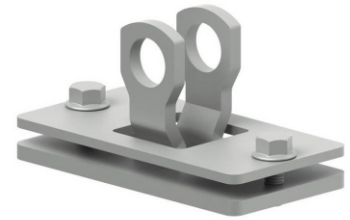
- Around 90% of all NOVA crane systems are attached to the ceiling construction by pendular mounting
- The type of mounting should always be your number one choice. Rigid variations should only be employed if the crane system is subject to upward forces, e.g. by manipulators, escalating devices or excessive overhang of the crane beams.
- With three different sizes available, the securing of flange widths of between 50mm-310mm is covered



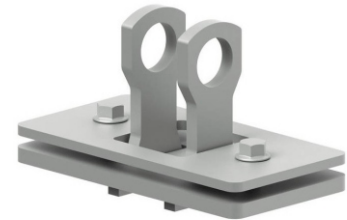
Feature	Pendular Mounting 50-150	Pendular Mounting 150-250	Pendular Mounting 250-310
Load Capacity	2000 kg	2000 kg	2000 kg
Flange Width	50mm-150mm	150mm-250mm	250mm-310mm
Height Adjustment	92mm-132mm	92mm-132mm	92mm-132mm
Weight	4,0 kg	4,5 kg	5,0 kg
Max. Ceiling Incline	10°	10°	10°
Item Code	01405600	01405700	01405800

Crane Girder Suspension

- Crane girder can be secured to crane runways using the NOVA crane girder suspension.
- This special type of support is flexible but without play and offers the crane and the user sufficient freedom necessary to complete the task as easily as possible. At the same time, the precise integration of all components ensures that the system runs quietly and smoothly, independent of the direction of forces applied to the crane system.
- Downward or upward loads of up to 600kg can be transferred with the crane girder suspension.
- Normal crane girders are fitted using the 90° variant, Telescopic girders can be created using the 0° variant.



014079



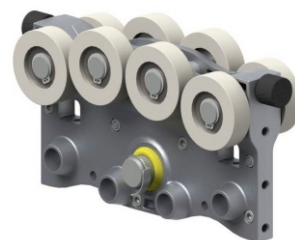
014080

Designation	Item Code	Weight
Crane Girder Suspension 0°	01407900	0,6 kg
Crane Girder Suspension 90°	01408000	0,6 kg

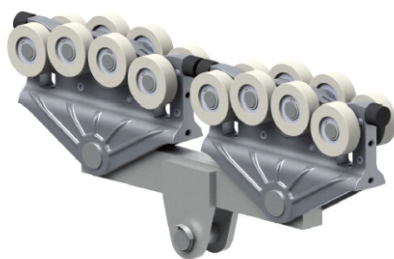
Manual Trolleys



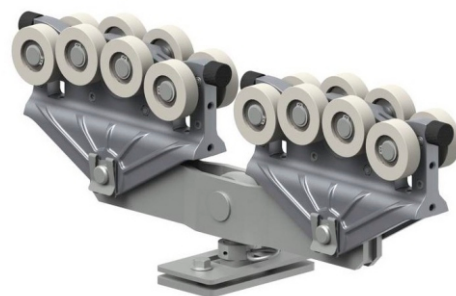
Grab Trolley 01406400



Hinge Trolley 01406400



Tandem Grab Trolley 01406600

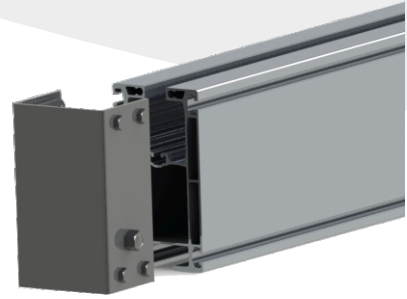


Tandem Hinge Trolley 01406500

Designation	Item Code	Max. Load	Weight
Grab Trolley	01406200	600 kg	1,60 kg
Hinge Trolley (Runway)	01406400	600 kg	1,25 kg
Tandem Grab Trolley	01406600	1200 kg	4,20 kg
Tandem Hinge Trolley (Runway)	01406500	1200 kg	3,50 kg

End Cap

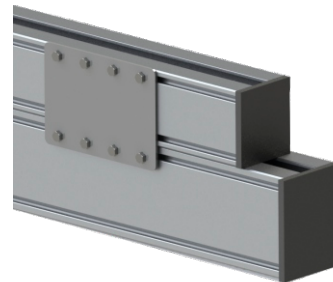
All NOVA crane profiles must be fitted with an end cover to protect against the ingress of contamination.



Designation	Item Code	Weight	Material
End Cap for S Profile	01406900	0.5 kg	Steel
End Cap for M Profile	01407000	0.65 kg	Steel
End Cap for L Profile	01407100	0.85 kg	Steel
End Cap for XL Profile	01407200	1.03 kg	Steel

Joint Set (for crane profile & reinforcement profile)

- The NOVA joint set for profile sizes S, M and large secured in the grooves in the side of the profile and thus allow crane runways of any length to be constructed.
- The joint set for the XS crane profile is realized by way of the upper opening in the profile.
- Crane bridges can also be extended using joint sets. Please ask our consultant for a layout.



Joint set for reinforce profile 01408500

Designation	Item Code	Weight
Joint Set for Profile S	01407500	2.15 kg
Joint Set for Profile M	01407600	2.60 kg
Joint Set for Profile L	01407700	3.10 kg
Joint Set for Profile XL	01407800	3.65 kg
Joint Set for Reinforce Profile	01408500	2.60 kg

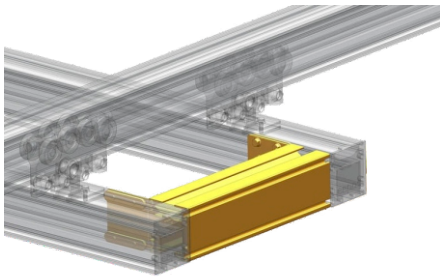
Trolley Frame

- For hanging one chain hoist in a double-girder bridge, working loads up to 1000kg.
- The trolley frame is attached with aluminum gab trolleys to the respective NOVA crane profile.



Designation	Item Code	Rail Gauge	Weight
Trolley Frame	01406800	500mm-1500mm	36,8 kg

Spacer of Double Girder



- By using the spacer, both profiles of a double girder are connected in a defined distance.
- With orders of spacer, the gauge (center distance of girders) must be specified!

Designation	Item Code	Rail Gauge	Weight
Spacer of DG for Profile S	01408600	300-2000mm	5,6 kg
Spacer of DG for Profile M	01408700	300-2000mm	7,4 kg
Spacer of DG for Profile L	01408800	300-2000mm	9,0kg
Spacer of DG for Profile XL	01408900	300-2000mm	10 kg

Spacer of Crane Girders

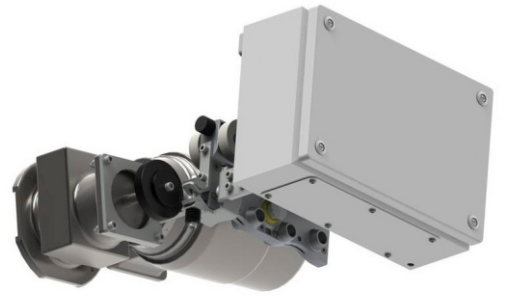
To keep two girders in certain distance
Available in length 300 to 2000mm



Designation	Item Code	Rail Gauge	Weight
Spacer of Crane Girders	01410200	300-2000mm	5,6 kg

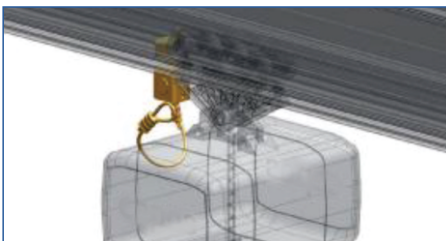
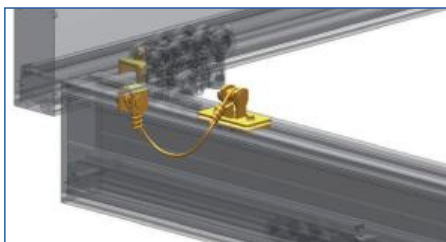
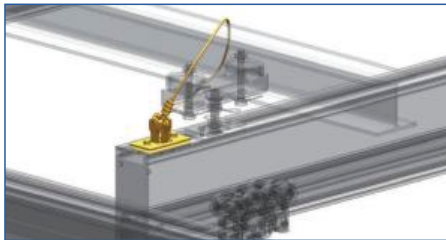
Electric Trolley (Various Speed)

- Industrial traction drive for Nova cranes.
- Cycle time 100%
- Guaranteed smooth running for hand use through friction wheel coupling via magnet coupling optional
- Drive with motor brake optional
- Extremely noiseless
- Able to order in three speed levels, more or request.



Designation	Item Code	Traveling Speed	Voltage
Electric Trolley	014124	5-20 m/min	220-575v/3ph/50Hz

Safety Systems



014099



014100

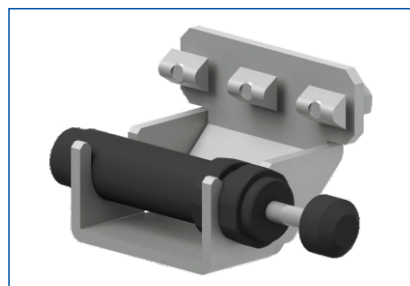
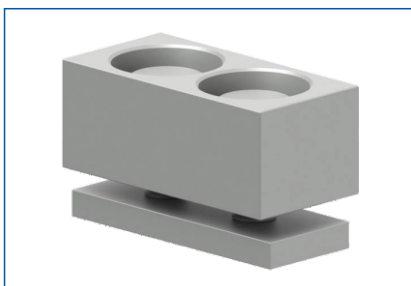
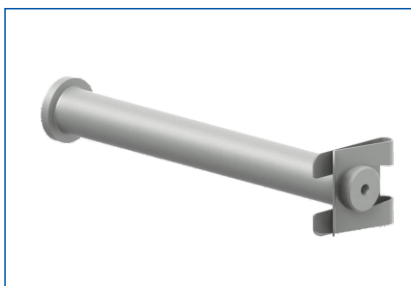
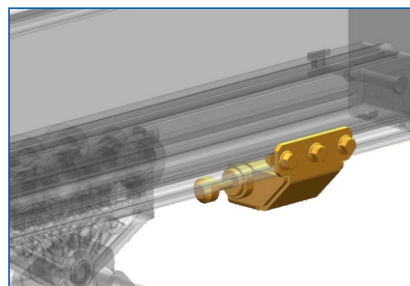
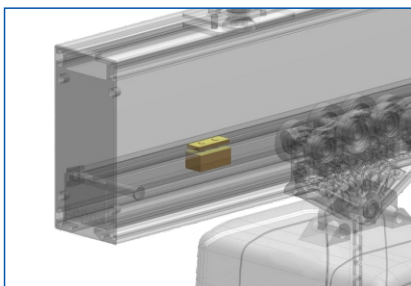
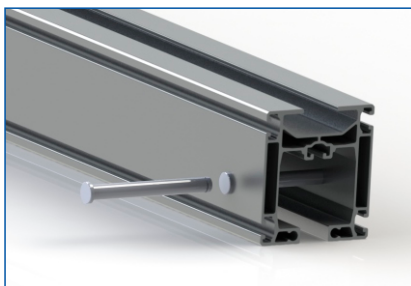


014101

- Safety system for track (Runway): To connect the crane rail and the overlying steel construction.
- Safety system for girder: For a secure connection between track and girder.
- Safety system for hoist: To protect against falling out of the suspended load in the trolley.

Designation	Item Code	Weight
Safety System for Track (Runway)	014099	1 kg
Safety Systems for Girder	014100	1.5 kg
Safety Systems for Hoist	014101	1 kg

End Stop



01408200

01408300

01408400

Designation	Item Code	Weight
End Stop fixed to Profile S to XL	01408200	0,10 kg
End Stop Adjustable	01408300	0,19 kg
End Stop Buffered	01408400	0,80 kg

Cable Trolley

For Flat Cable



01410300

01410700

01411100

For Round Cable (Dia. 26-36mm)

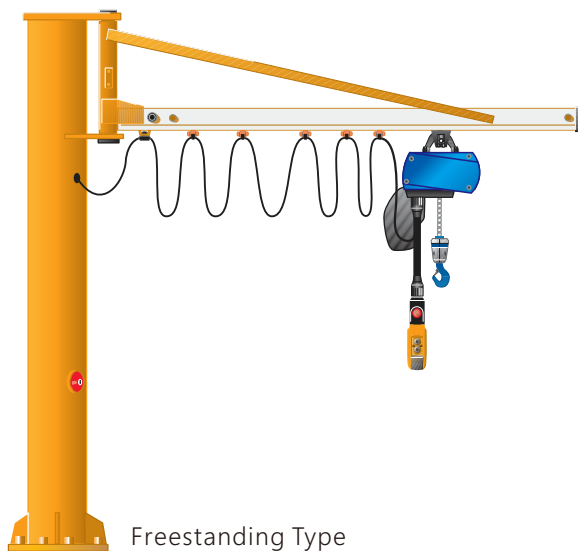


01410600

01411000

01411400

Aluminum Jib Crane



Freestanding Type

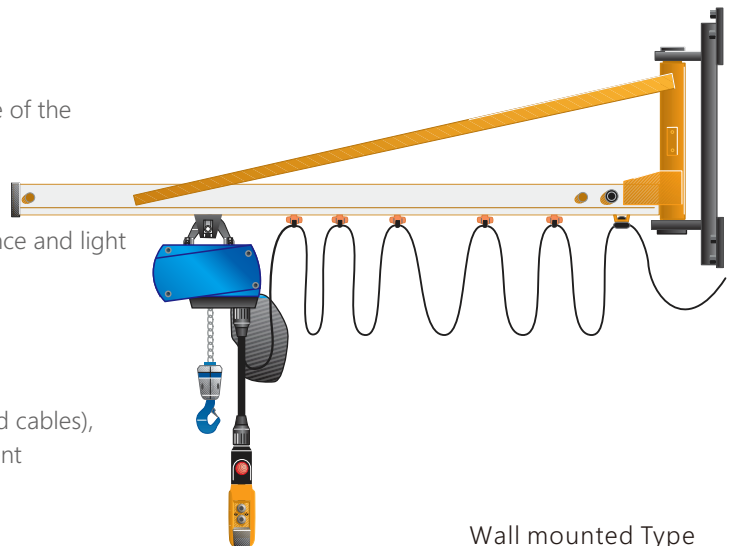
Features

- Innovative acceptance of proile for optimal force of the proiles and low delection
- Absolutly smooth rotating
- 4 diferent proiles for an optimal price performance and light turning
- Standard NOVA chain hoists or requested brand
- Easy and quick installation
- Main switch integrated in column
- Including electrical equipment (cable trolleys and cables), main switches, gab trolley for lifting equipment and installa-tion material for columns

S.W.L. \ Jib length	3m	4m	5m	6m
80 kg	✓	✓	✓	✓
125 kg	✓	✓	✓	✓
250 kg	✓	✓	✓	✓
500 kg	✓	✓	✓	✓
750 kg	✓	✓	✓	
1,000 kg	✓	✓		

Features

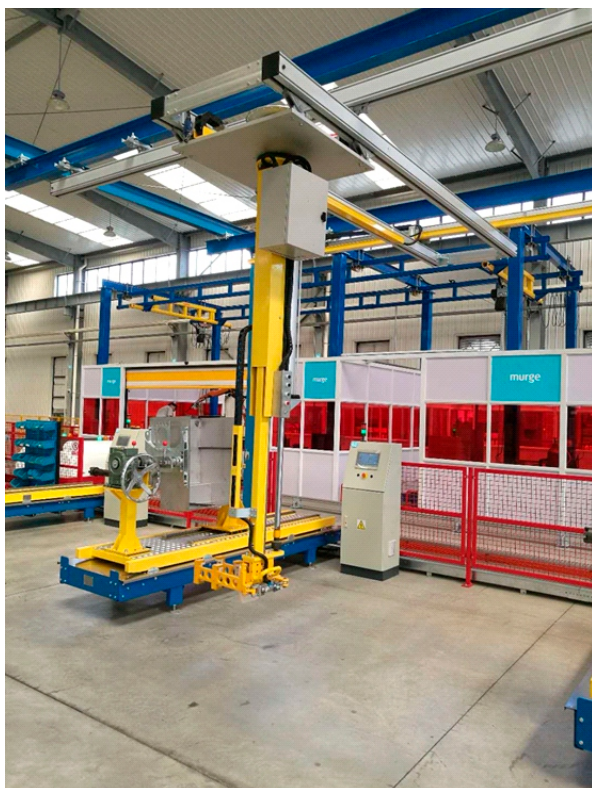
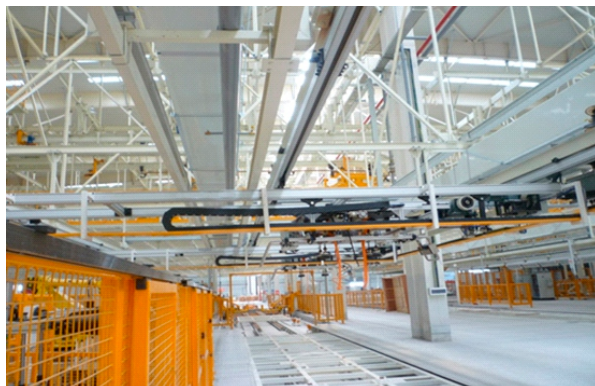
- Innovative acceptance of proile for optimal force of the proiles and low delection
- Absolutly smooth rotating
- 4 diferent proiles for an optimal price performance and light turning
- standard NOVA chain hoist or requested brand.
- Easy and quick installation
- Including electrical equipment (cable trolleys and cables), main switches and gab trolley for lifting equipment



Wall mounted Type

S.W.L. \ Jib length	3m	4m	5m	6m
80 kg	✓	✓	✓	✓
125 kg	✓	✓	✓	✓
250 kg	✓	✓	✓	✓
500 kg	✓	✓	✓	✓
750 kg	✓	✓	✓	
1,000 kg	✓	✓		

Our Reference



Note:

ENGLISH



Dirección: Güiraldes 336
B1878JMF - Quilmes
Prov. de Buenos Aires
Argentina

Teléfonos: +54 11 4253-5000 / 5024 / 5087
E-mail: info@worktechsrl.com.ar
Web: www.worktechsrl.com.ar



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