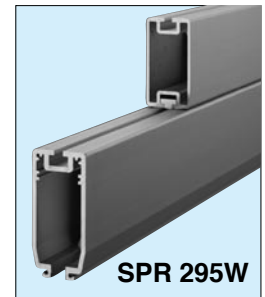


Movorail - general product information

Movorail

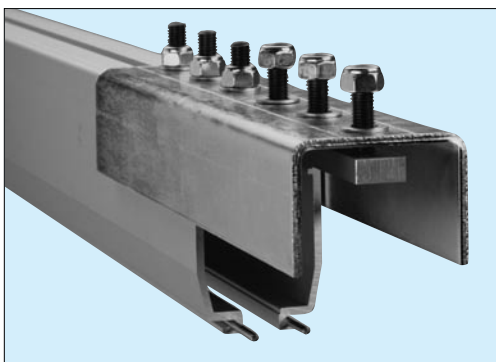
Movorail has been proven during more than 20 years of use at companies around the world and has become one of the leading light weight rail systems on the market.

The main reasons for the success of Movorail are light weight, a high degree of modularity, simple and quick installation and a broad range of accessories. This makes it as easy to install a Movorail as it is to move, enlarge, rebuild or rearrange. In other terms, a Movorail system is an investment that can grow and change as demands change.



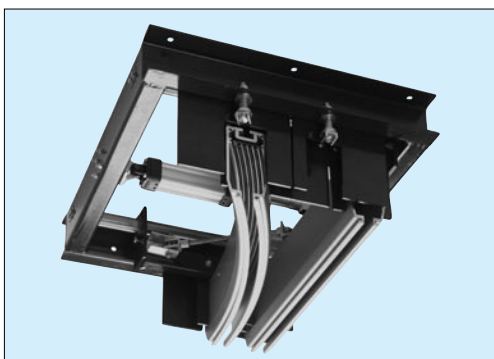
Profiles

- Five sizes for a large load range coverage
- Same basic design for all sizes
- Low weight = easy to handle and install
- T-slot for easy and quick suspension
- Built in grooves for installation of current track
- Anodised aluminium profiles = non corrosive
- Over 95% of materials recyclable
- No welding or painting required at installation.



Rail connections

- Quick to install
- Self aligning
- No drilling required at installation.



Switches and turntables

- Makes it possible to design conveyor like systems where trolleys can take different routes.



Suspensions

- For I-beam installation, no drilling required
- Versions for installation to the T-slot or on connections
- Safety cables for enhanced safety available
- Quick and simple installation.

Movorail - general product information

Movorail

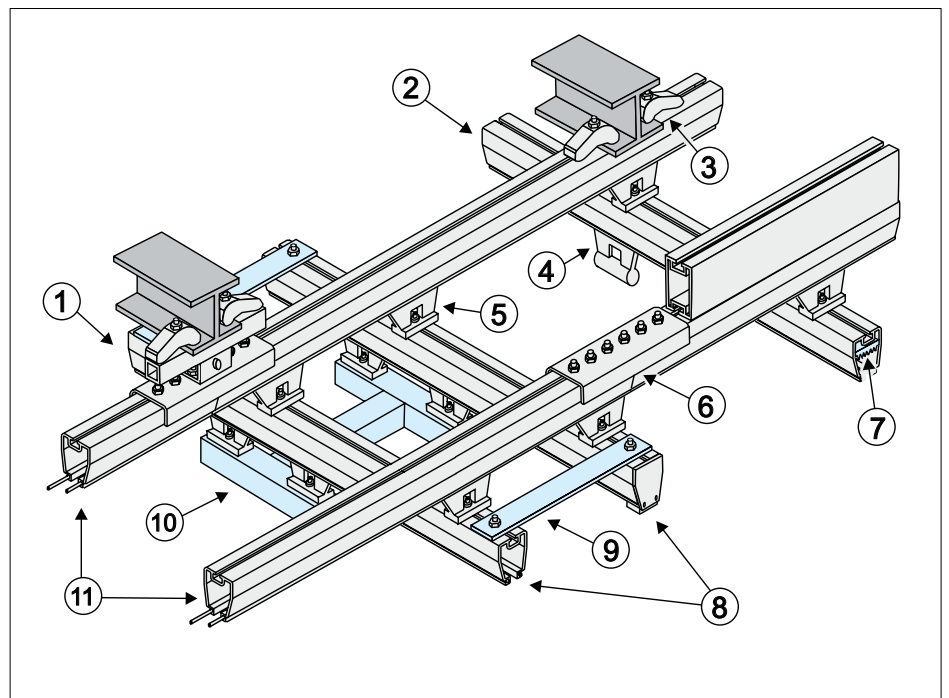


Trolleys

- Large range of trolleys for different requirements
- Light weight trolleys with ball bearing wheels means easy rolling.
- Quick installation to crane rail
- Safety cables included for each trolley
- Motor trolleys for heavy loads
- Cable trolleys for cables and pneumatic hoses.

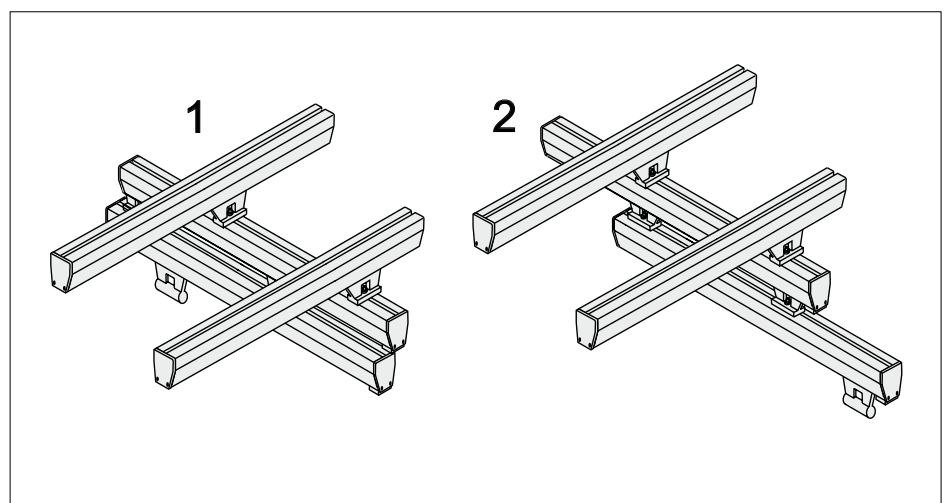
Example of a rail system with a double girder crane and a single girder crane.

1. I-beam suspension for installation on a connection
2. Single girder crane rail
3. I-beam clamps for installation on the rail
4. Crab trolley
5. Bogie trolley
6. Connection
7. Current track inserted in rail
8. Double girder crane rails
9. Distance girder
10. Yoke
11. Main girder rails.



Example of a rail system with telescopic girder crane rails.

When not in use (1) the system is stowed leaving space for conveyor systems and other equipment. When in use (2) the lower crane rail is extended over the work place.

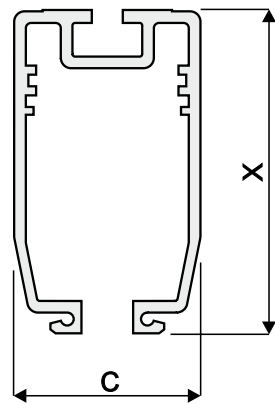


Movorail SPR 85, SPR 125, SPR 160A, SPR 295B, SPR 295W

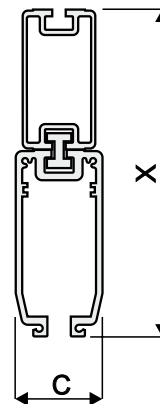
Technical data

Parameters	SPR 85	SPR 125	SPR 160A	SPR 295B	SPR 295W
X (mm)	85	125	160	295	295
C (mm)	68,8	71,5	73,5	73,5	73,5
Profile lengths (m)	4, 5, 6, 8	4, 5, 6, 8	4, 5, 6, 8	4, 5, 6, 8	4, 5, 6, 8
Inertia (cm ⁴)	97	333	812	1368	3700
Weight / meter (kg/m)	3	5	7,8	14	14,1

SPR 85, SPR 125, SPR 160A

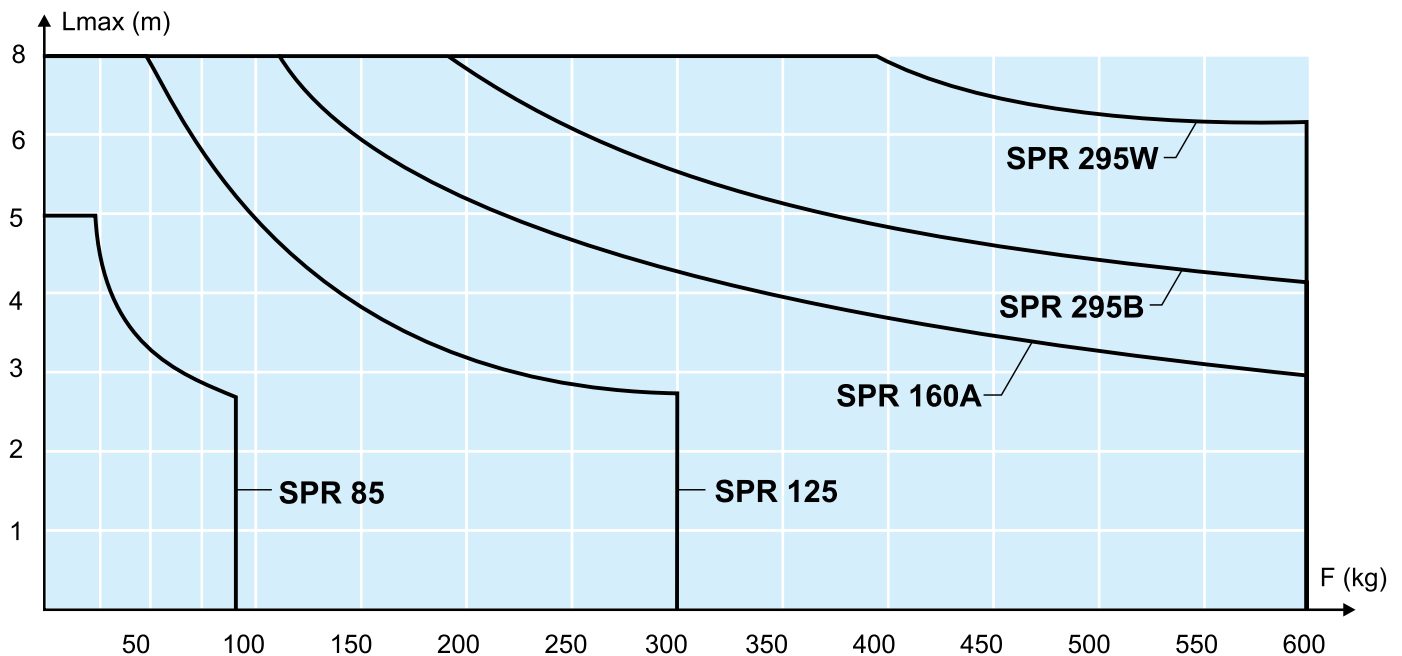
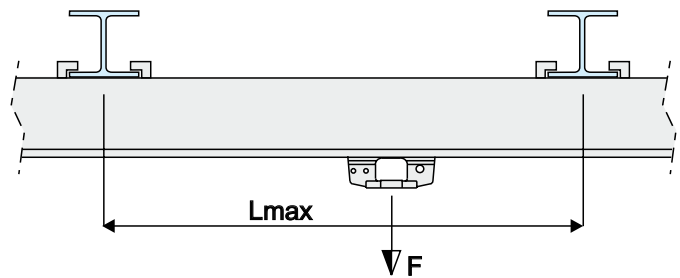


SPR 295B, SPR 295W



Deflection of the rails

The diagram is based on a maximum deflection of 1/500 of the distance between the suspensions (Lmax).



Movorail SPR 85, SPR 125, SPR 160A, SPR 295B, SPR 295W

Installation dimensions for standard systems

X-profile	Y-profile	X	Y	A	B	H
SPR 85	SPR 85	85	85	57,5	52	279,5
SPR 85	SPR 125	85	125	58,5	49,5	318
SPR 85	SPR 160A	85	160	58,5	45	348,5
SPR 125	SPR 85	125	85	55	52	317
SPR 125	SPR 125	125	125	56	49,5	355,5
SPR 125	SPR 160A	125	160	56	45	386
SPR 160A	SPR 85	160	85	50,5	52	347,5
SPR 160A	SPR 125	160	125	51,5	49,5	386
SPR 160A	SPR 160A	160	160	51,5	45	416,5
SPR 295•	SPR 85	295	85	50,5	52	482,5
SPR 295•	SPR 125	295	125	51,5	49,5	521
SPR 295•	SPR 160A	295	160	51,5	45	551,5

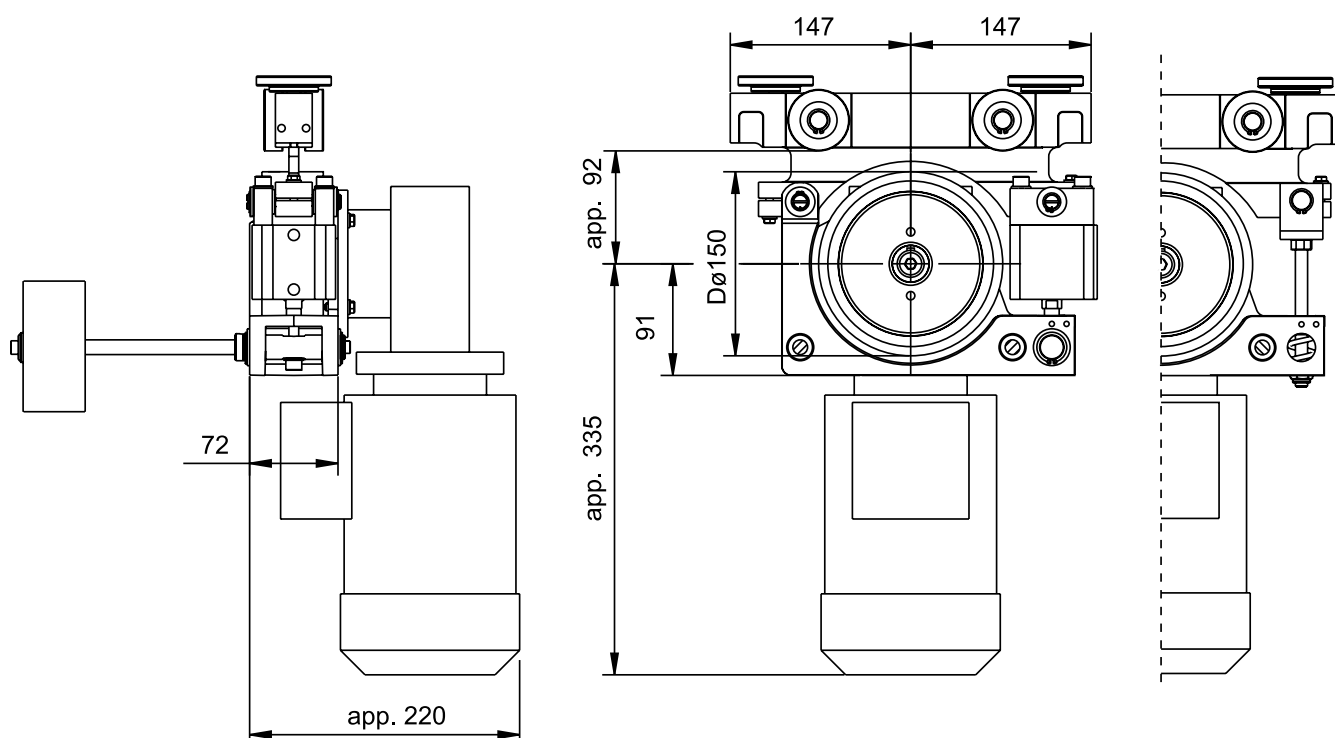
Table valid for BGV trolleys only.

Installation dimensions and load capacity for systems with telescopic crane rail

X-profile	Y-profile	a	b	c	d	e	f	Max. load F (N)
SPR 85	SPR 85	2000	1000	1000	229	250	200	400
SPR 85	SPR 85	3000	1500	1000	229	250	200	300
SPR 85	SPR 85	4000	2000	1000	229	250	200	250
SPR 125	SPR 125	2000	1000	1000	307	250	200	1400
SPR 125	SPR 125	3000	1500	1000	307	250	200	1000
SPR 125	SPR 125	4000	2000	1000	307	250	200	900
SPR 160A	SPR 160A	2000	1000	1000	372	250	200	3000
SPR 160A	SPR 160A	3000	1500	1000	372	250	200	2500
SPR 160A	SPR 160A	4000	2000	1000	372	250	200	2000

The table above shows a few examples of possible combinations of loads and dimensions.

Tollo motor trolley dimensions



Ordering

Ordering key for Tollo motor trolleys with motor

Designation example	TMT	125	S	B	20	A	7	-2	N
Unit type Tollo Motor Trolley	TMT								
Profile size SPR 125 SPR 160A		125 160							
Type of TMT trolley Spring loaded drive wheel (standard) Pneumatically released drive wheel Spring loaded drive wheel and power pick up Pneumatically released drive wheel and power pick up			S P T Q						
Colour Blue (standard) Yellow				B Y					
Speed of trolley at nominal motor speed 20 m/min 25 m/min 30 m/min 35 m/min 40 m/min 50 m/min 60 m/min					20 25 30 35 40 50 60				
Motor, gear and drive wheel configuration 3 x 400 Vac SEW motor, SEW gear and drive wheel (standard)						A			
Motor size IEC 71 IEC 80							7 8		
Motor poles 2 pole 4 pole 8/2 pole (two speed motor)								-2 -4 82	
Type of motor brake No brake Electromagnetic fail safe brake Electromagnetic fail safe brake with hand release									N B H

How to order and select Movorail components

The complete range of Movorail components and part numbers can be found in the Movorail Project Specification. Information about the motor trolleys can also be found in the Tollo Motor Trolley folder.

The Thomson Tollo Movorail Sizing & Selection software will assist you when calculating the requirements of your system and guide you through the process of choosing the correct components.

The Project Specification, the Motor Trolley folder and the Sizing and Selection software can be obtained free of charge.

