Light Cranes – A versatile and economic solution for loads up to 2.000 kg and 10 meter span!

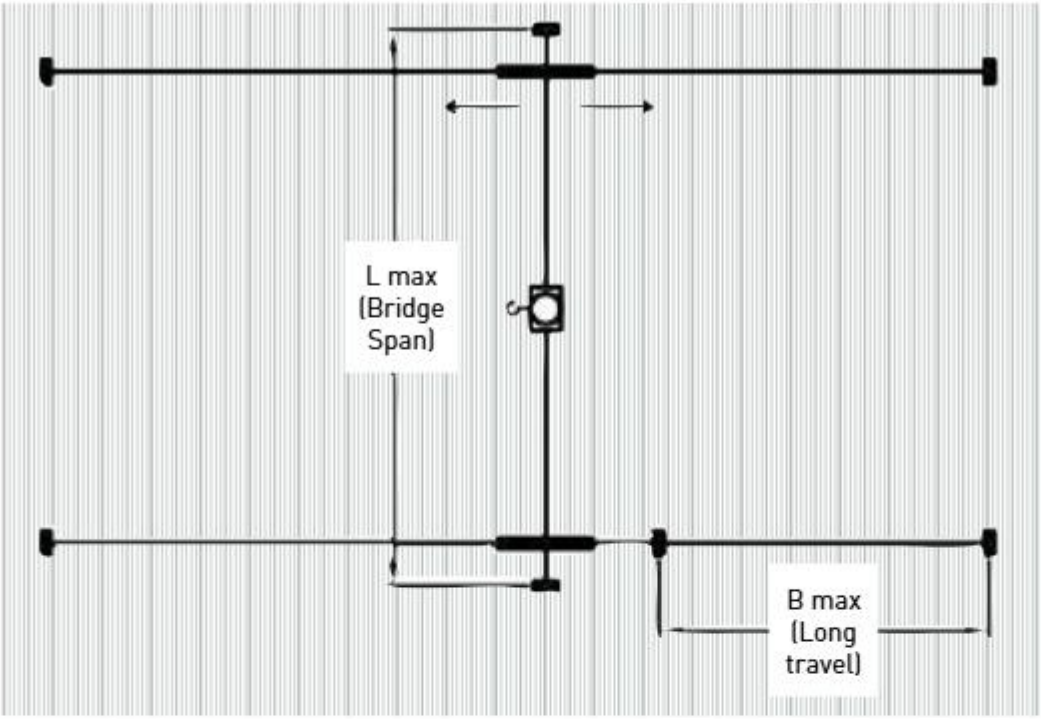
..... Light Crane System provides an ergonomic and cost effective solution to conventional overhead crane systems particularly when there is a height and space restriction. Versatile and reliable overhead handling can be achieved for a variety of applications using the modular design. The robust design of our components and the high standards of manufacturing guarantees long life with little or no maintenance requirements. Our program range is consisted of sliding door fittings, overhead conveyor systems, festoon systems, fall arrest systems and light cranes.

LIGHT CRANE SYSTEMS

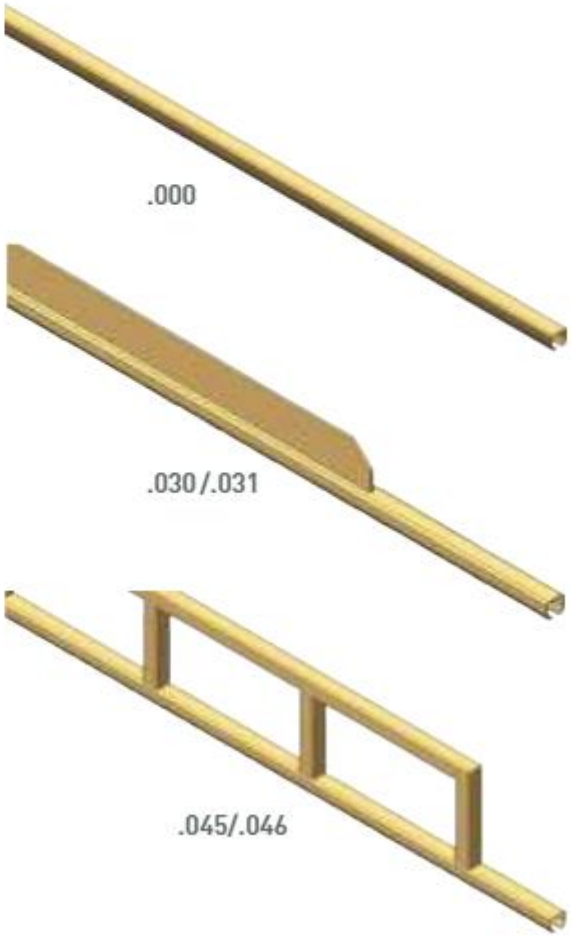
Main Characteristics

- ✓ Loads up to 2.000 kg
- ✓ Bridge Spans up to 10 meters
- ✓ Modular design allows extendibility and relocatibility
- ✓ Cost Effective
- ✓ Easy to install using a variety of supporting brackets.
- ✓ Large range of mounting options
- ✓ Connectivity with future or existing overhead conveyor system
- ✓ Telescopic cranes
- ✓ Manual or Electric Travel
- ✓ Floor or Ceiling Mounted cranes.
- ✓ Components available in Gold or Silver Finish.
- ✓ Stainless Steel Cranes.

Light crane Specifications

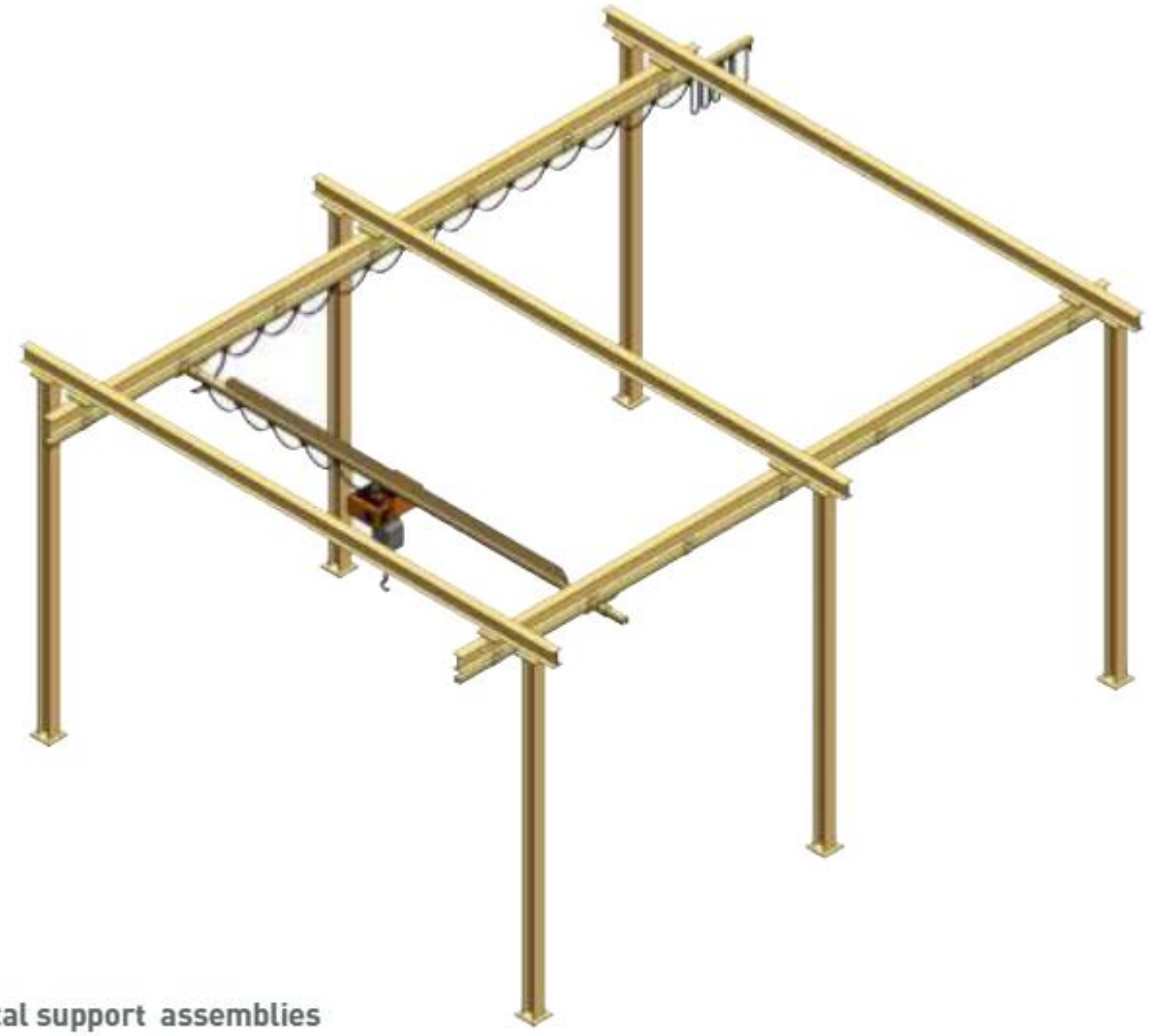


Capacity (Kg)	NIKO Profile No.	Bridge Span L max (m)	Long travel suppoting distance B max (m)
80	23.000	1.50	1,00
	23.030	4.00	3,50
125	24.000	1.80	1,40
	24.030	5.00	4,40
	24.045	9.00	8,00
250	25.000	2.50	1,90
	25.030	6.00	5,20
	25.045	8,50	7,00
	25.046	10,00	9,00
500	26.000	2,50	1,80
	26.030	6,00	5,20
	26.045	10,00	9,00
750	26.000	1,80	1,80
	26.030	6,00	5,00
	26.045	8,00	7,00
	26.046	10,00	9,00
1000	27.000	3,00	2,00
	27.030	6,00	6,00
	27.045	10,00	9,00
1600	27.000	1,50	1,00
	27.030	3,50	2,70
	27.045	8,50	7,00
	27.046	10,00	9,00
2000	27.045	7,00	6,00
	27.046	9,00	8,00

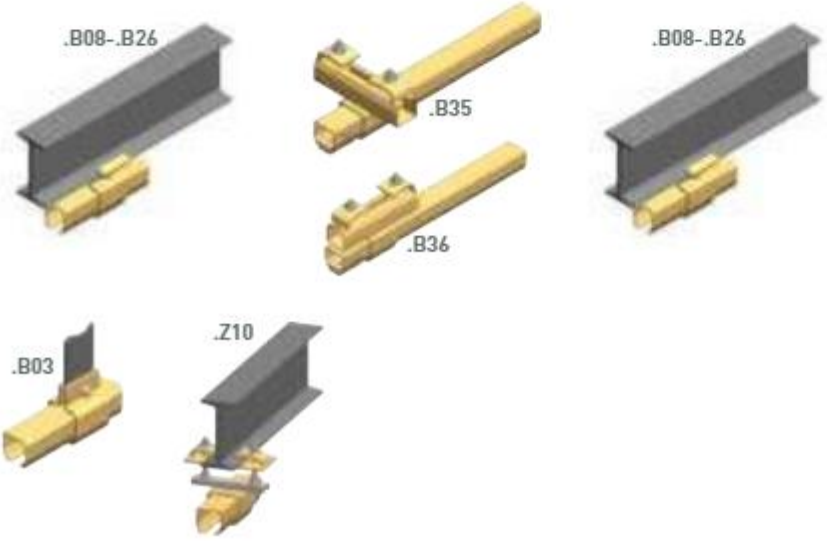


Floor Mounted Crane with plain long travel tracks

Floor mounted cranes are particularly useful when the roof cannot support an overhead Crane. The bridge profile is usually reinforced to achieve longer spans and plain long travel track profiles can be used by supporting them direct to an I beam that runs parallely above.

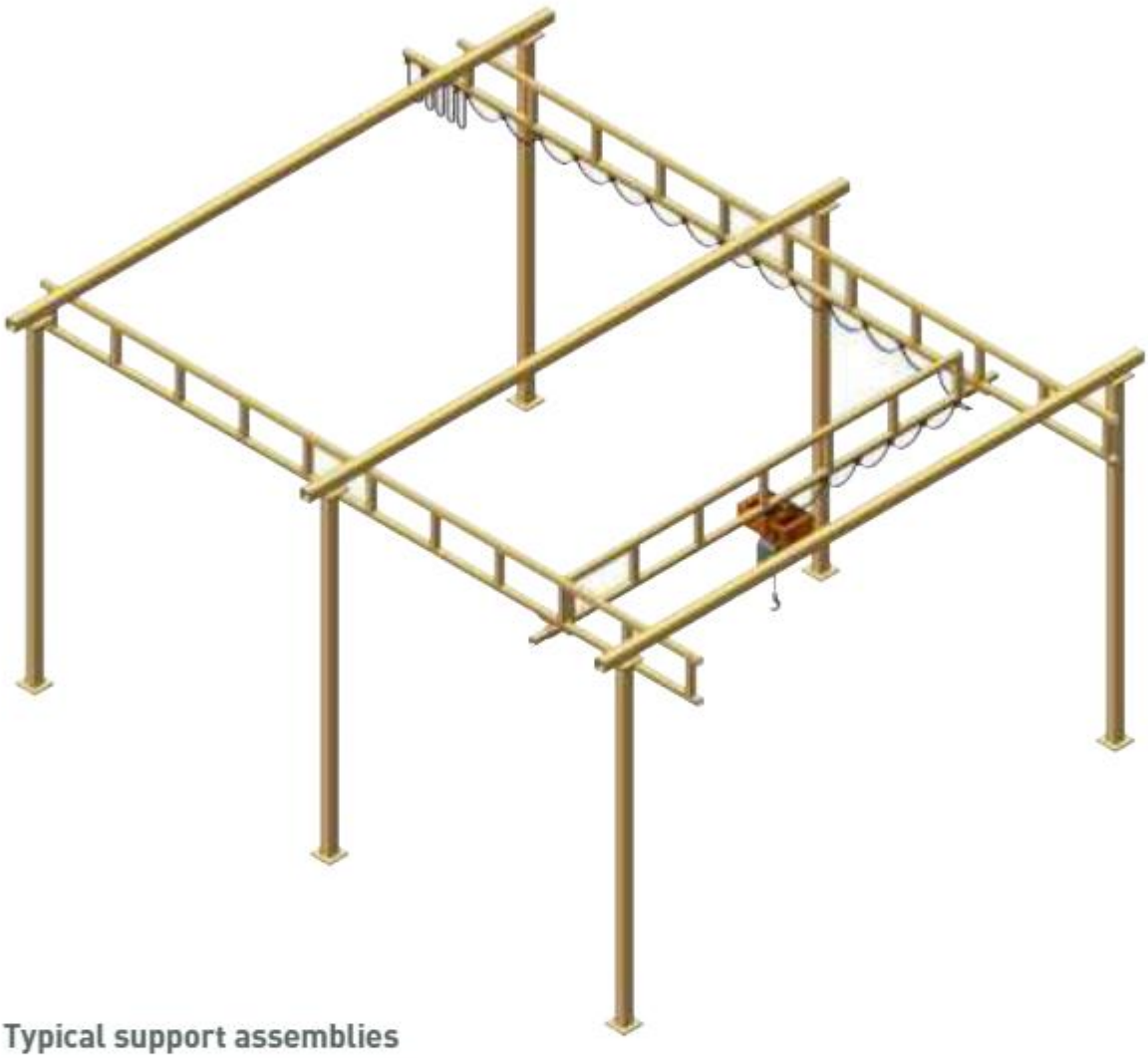


Typical support assemblies

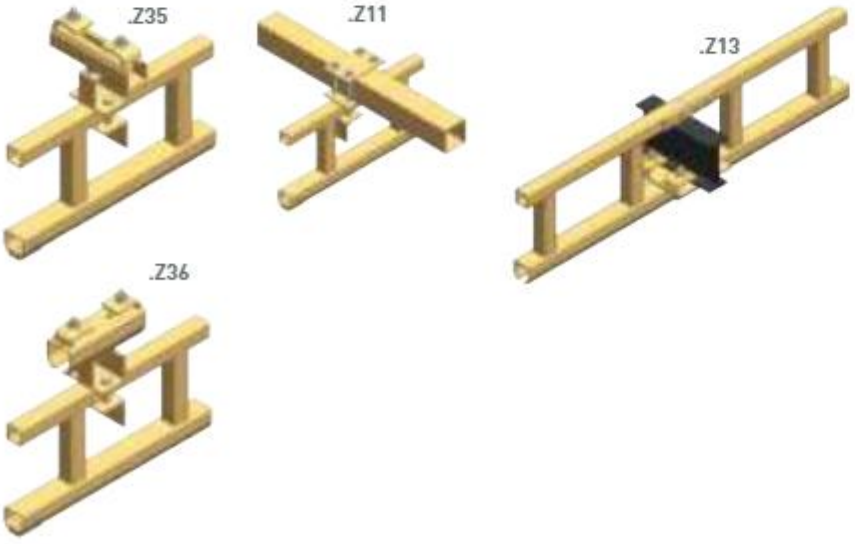


Floor Mounted Crane with Reinforced long travel tracks

By using reinforced track profiles in the long travel the support distance can be increased rendering the I beams along the track profiles unnecessary. The way installation time is also minimised.

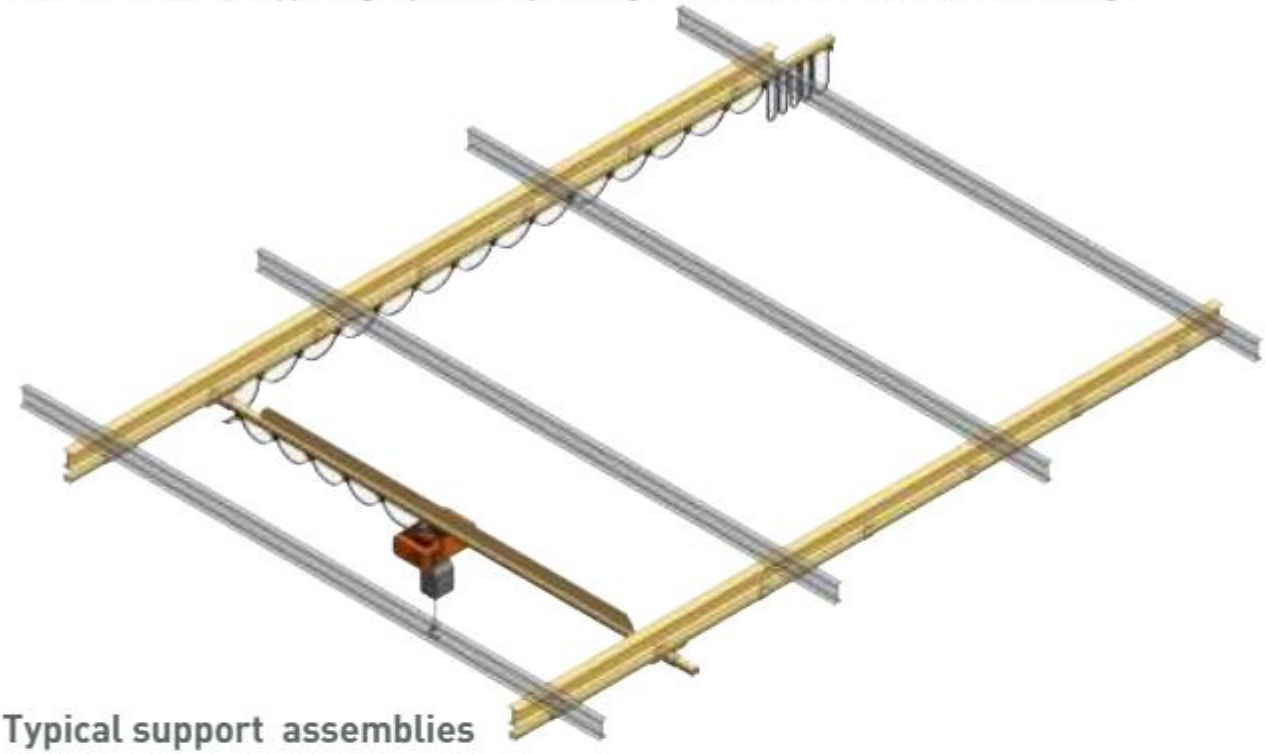


Typical support assemblies

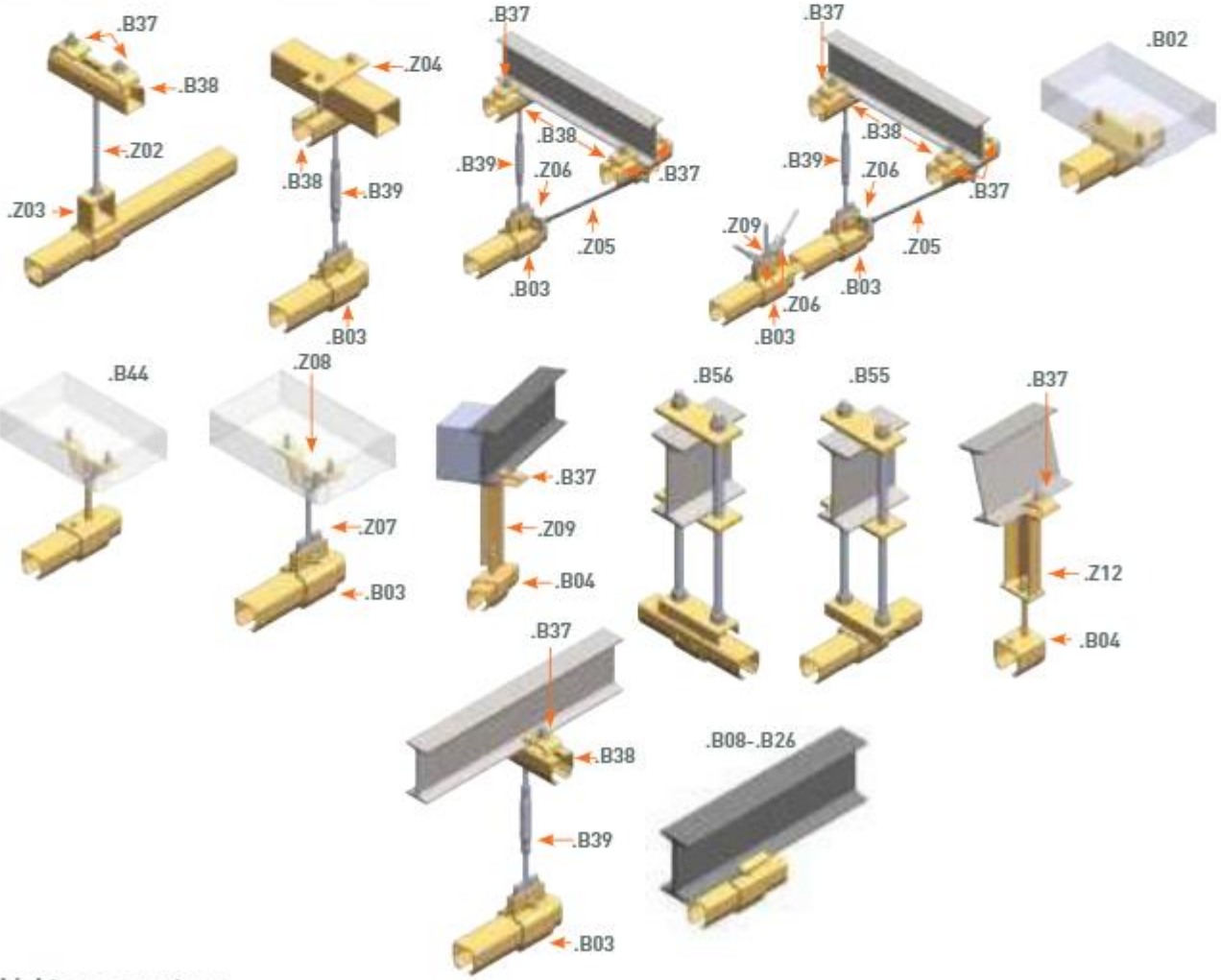


Ceiling Mounted Crane with plain long travel tracks

Ceiling mounted cranes are useful where the floor space is limited. Since the cranes are directly mounted on the ceiling and no supporting columms are necessary the working floors are kept clean for other operations. However it requires a structurally adequate ceiling structure. Plain long travel can be used when short distance supporting is possible by utilizing I beams or other structure at the ceiling.

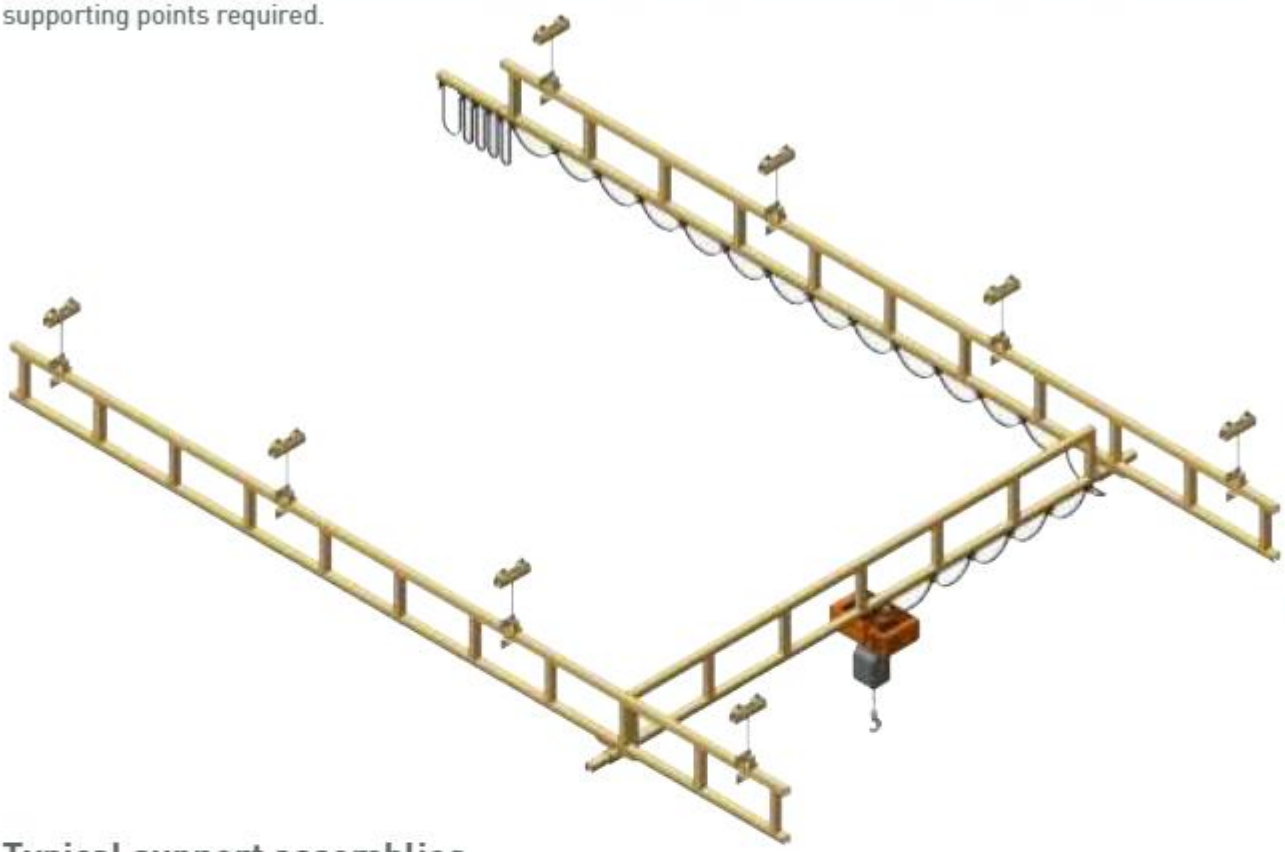


Typical support assemblies

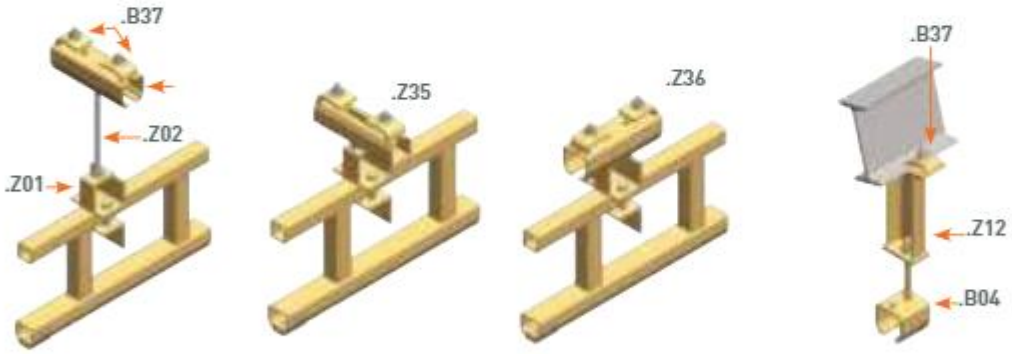


Ceiling Mounted Crane with reinforced long travel track

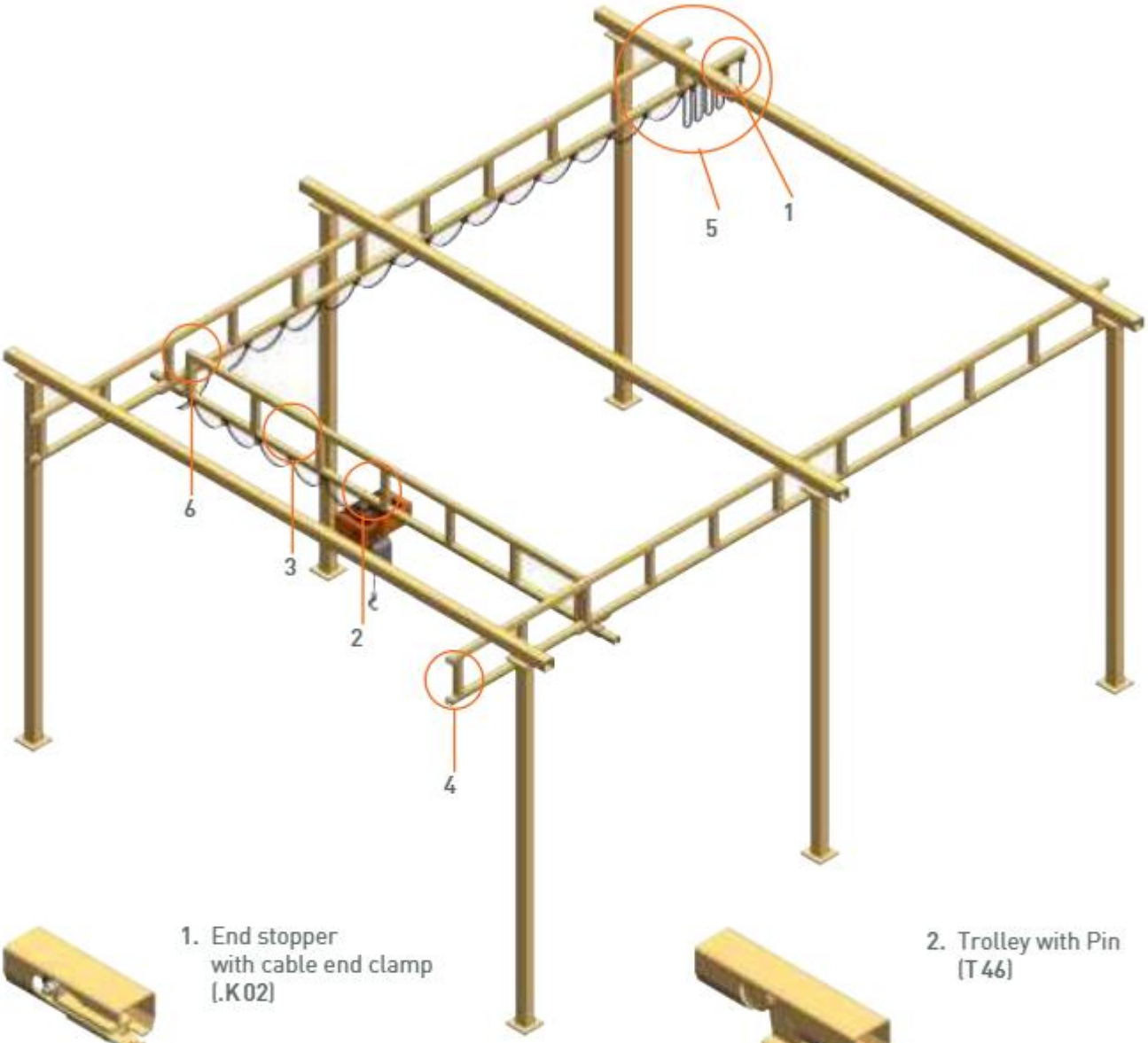
In the case where overhead steel structure is limited reinforced track profiles can be used to minimise the supporting points required.



Typical support assemblies

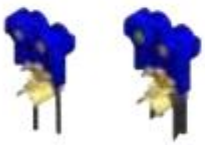


Light Crane main Components



1. End stopper
   with cable end clamp
   (.K02)

2. Trolley with Pin
   (T46)



3. Cable trolley
   (.L00)

4. Profil End stop
   (.X01P)

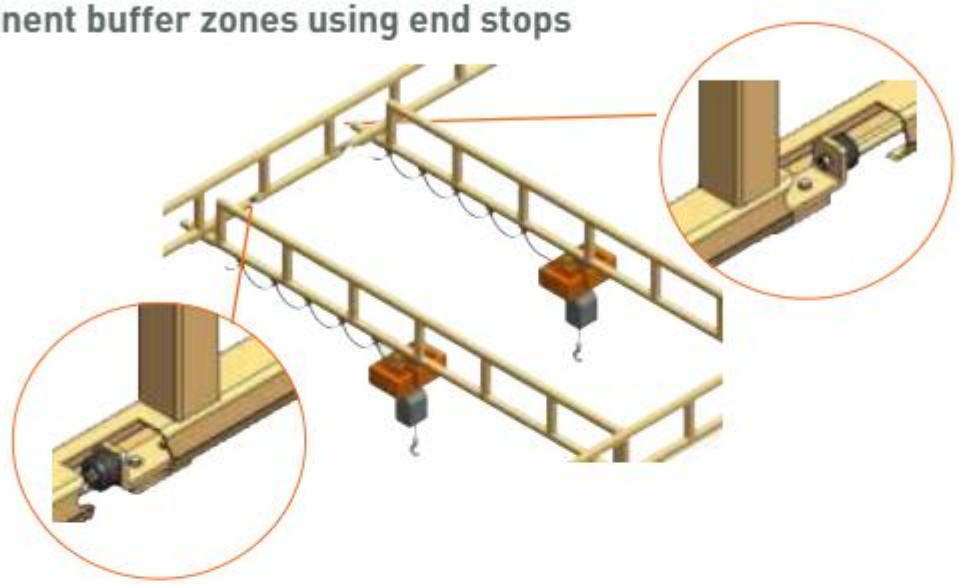
5. **Festoon Storage**
   It is possible to extend one of the long travel Profils for festoon storage purposes. This way no crane travel space is lost.

6. End carriage with
   Profil joint
   (.T54)

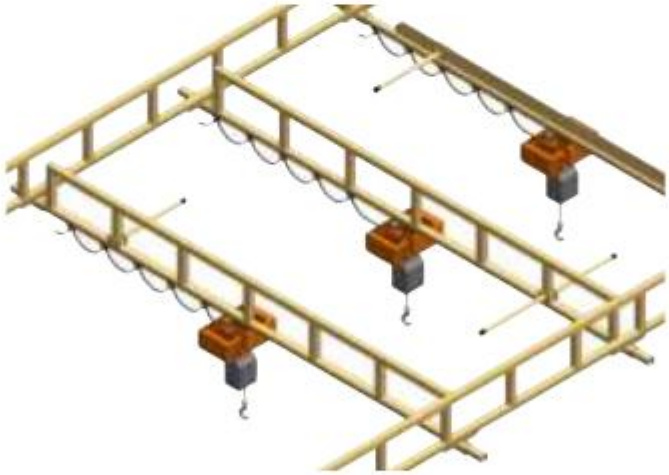
Multiple Bridge Cranes

Multiple Bridges can be used in the same long travel tracks in order to accommodate multiple operators working at the same time. To prevent one crane crashing into the other buffer zones can be created using different type of methods. This way it is also possible to use lower capacity long travel tracks with more than one bridge crane. For example a 500 kg runway can be used with 2 bridge cranes of 500 Kg each. In order to keep the distance between them, that would otherwise overload the runways, buffer zones can be created.

Permanent buffer zones using end stops



Buffer zones using distancers



Mobile buffer zones