

NIKO Rail

ENCLOSED TRACK CRANE SYSTEMS BY HANDLING SYSTEMS INTERNATIONAL, INC.

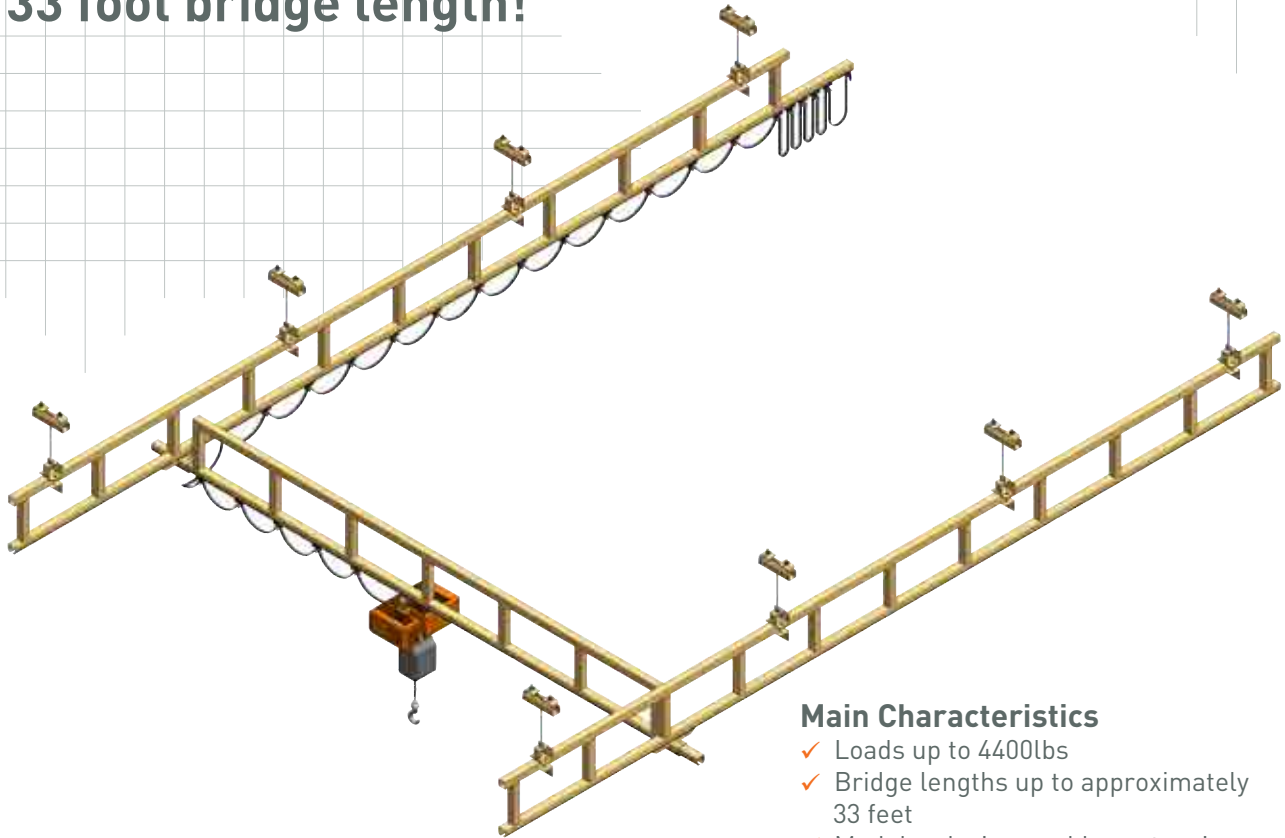
Light Cranes

NIKO ... Quality in Motion



www.nikorail.com

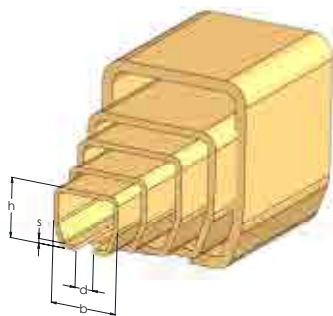
NIKORAIL Light Cranes – A versatile and economic solution for loads up to 4400lbs and approximately 33 foot bridge length!



NIKORAIL 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 NIKORAIL modular design. The robust design of our components and the high standards of manufacturing guarantees long life with little or no maintenance requirements. Our product range consists of sliding door fittings, overhead conveyor systems, festoon systems, fall arrest systems and light cranes.

Main Characteristics

- ✓ Loads up to 4400lbs
- ✓ Bridge lengths up to approximately 33 feet
- ✓ Modular design enables extension, modification and relocation
- ✓ Cost effective
- ✓ Easy to install using a variety of supporting brackets
- ✓ Large range of mounting options
- ✓ Latching capability enables interconnection with existing or new conveyor or monorail systems
- ✓ Telescopic cantilever crane bridges and monorails
- ✓ Manual or electric travel
- ✓ Floor or ceiling mounted cranes
- ✓ Painted or electrolytic plated finish
- ✓ Cranes available in stainless steel



NIKORAIL Profile No.	Dimensions			
	h (in)	b (in)	d (in)	s (in)
23.000 *	1.37	1.57	0.43	0.11
24.000 *	1.71	1.90	0.59	0.13
25.000 *	2.36	2.55	0.70	0.14
26.000	2.95	3.15	0.86	0.18
27.000	4.33	3.54	0.98	0.25

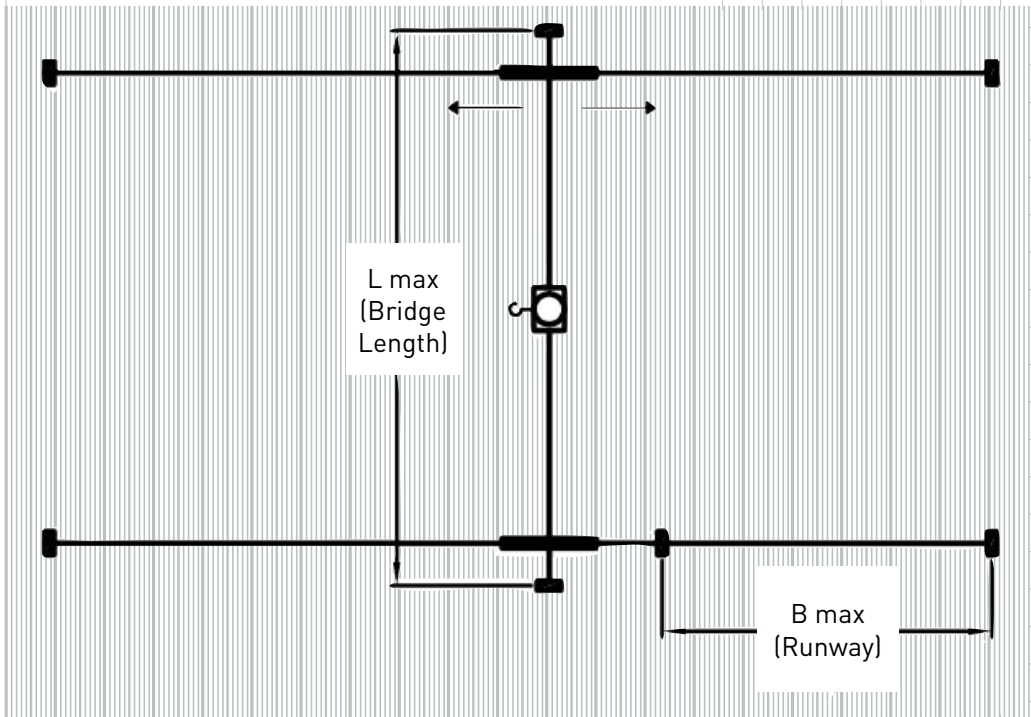
NIKORAIL Profiles

Our wide range of 5 track profile sizes can accommodate loads up to 4400lbs. The NIKORAIL enclosed track tapered design ensures correct alignment of the trolleys and reduces the possibility of dust build up. This facilitates free and smooth running of the trolleys and a long life of the crane. NIKORAIL light cranes require only 1-4% force to move the load being lifted. For use in aggressive environments we can also offer NIKORAIL Cranes in stainless steel grade 304 & 316.

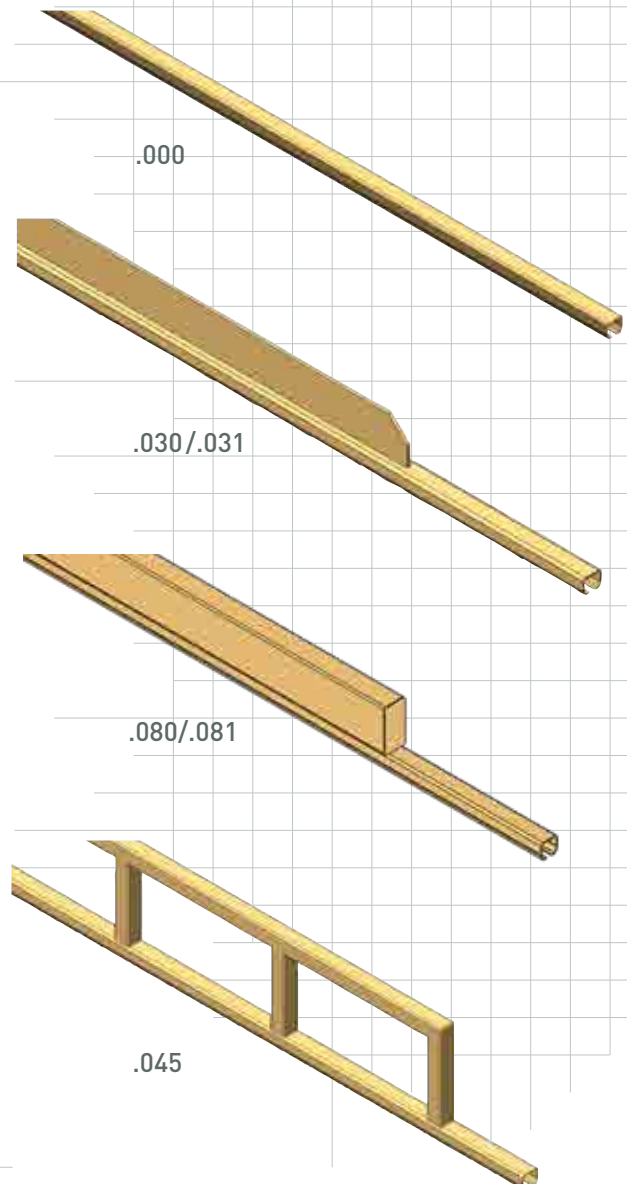
Stainless Steel Cranes

For use in special environments we can also offer NIKORAIL Cranes in stainless steel grade 304 and 316. Available profiles are indicated with a * in the table above.

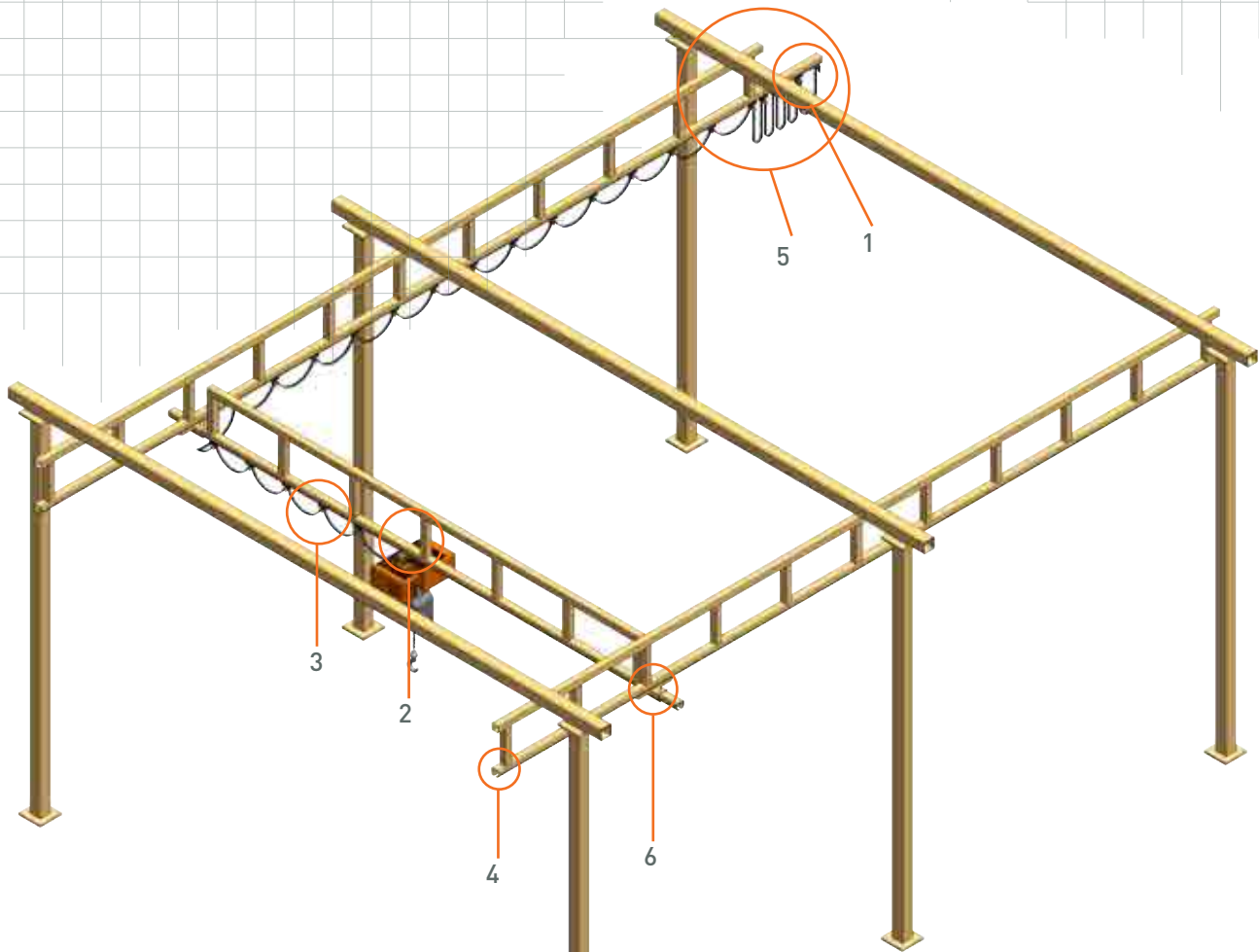
Light crane specifications



Capacity (lbs)	NIKORAIL Profile No.	Bridge Length L max (FT)	Runway supporting distance B max (FT)
175	23.000	4.9	3.2
	23.030	13.1	11.4
275	24.000	5.9	4.5
	24.030	16.4	14.4
	24.031	19.6	17.0
	24.080	22.9	20.9
	24.045	29.5	26.2
550	25.000	8.2	5.9
	25.030	19.6	17.0
	25.080	26.2	22.9
	25.045	32.8	29.5
1100	26.000	8.2	5.9
	26.030	19.6	17.0
	26.080	26.2	22.9
	26.045	32.8	29.5
1650	26.000	5.9	3.2
	26.031	19.6	16.4
	26.081	26.2	22.9
2200	26.045	32.8	29.5
	27.000	9.8	6.5
	27.030	19.6	16.4
3500	27.080	26.2	22.9
	27.045	32.8	29.5
	27.000	4.9	3.2
	27.030	11.4	8.8
4400	27.080	16.4	13.1
	27.045	32.8	26.2



NIKORAIL Light Crane - main components



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



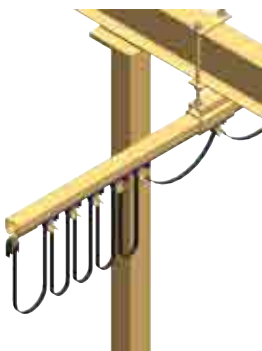
2. Trolley with clevis pins (.T48)



3. Cable trolley (.L00)



4. Track end stop with safety bolt & track punching (.X01) + (.X06)



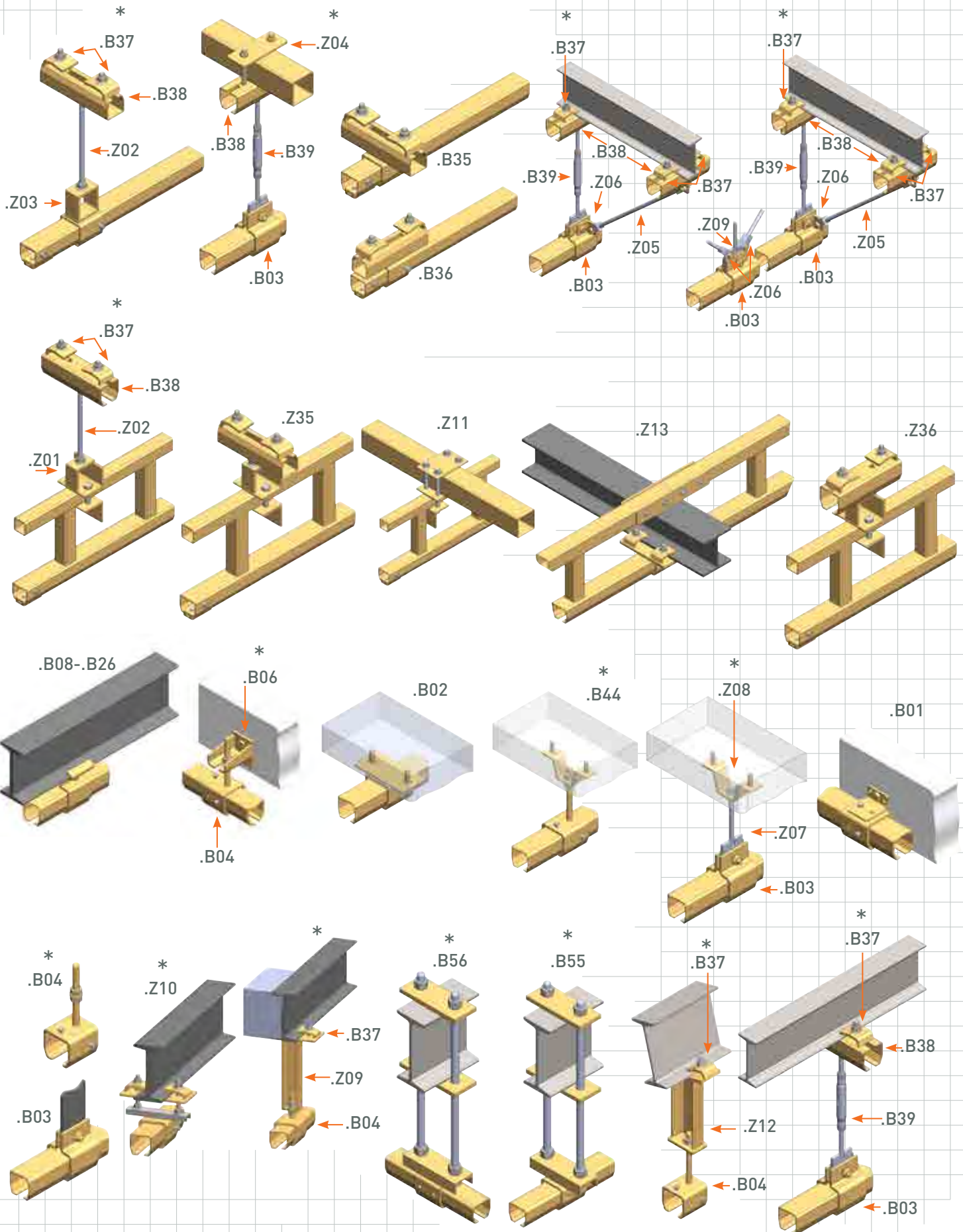
5. Festoon Storage
It is possible to extend one of the runway profile for festoon storage purposes. This way no crane travel space is lost.



6. End carriage with track joint (.T54)

We have the capability to design and supply custom solutions. Some items depicted in this brochure may not be in stock, but are available upon request with extended lead times.

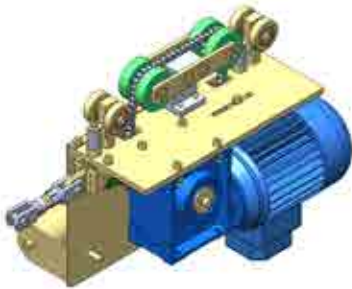
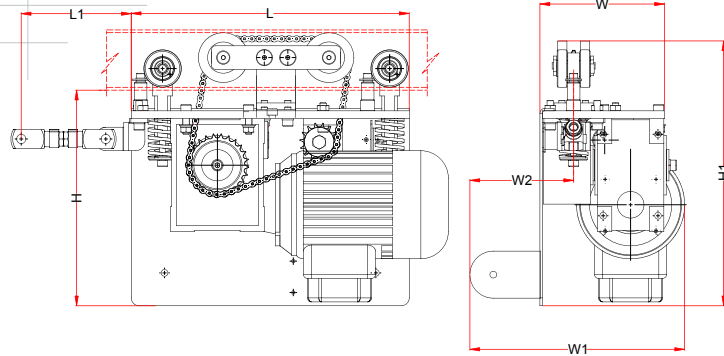
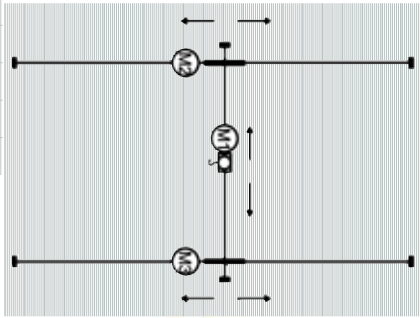
NIKORAIL mounting assembly options



(*) Sway bracing may be required for the ceiling support brackets that are not directly mounted (flush mounted) to the supporting structure in order to reduce the swinging effect. Sway bracing kits are not included in our standard product range but can be provided upon request.

NIKORAIL Power Driven Trolleys

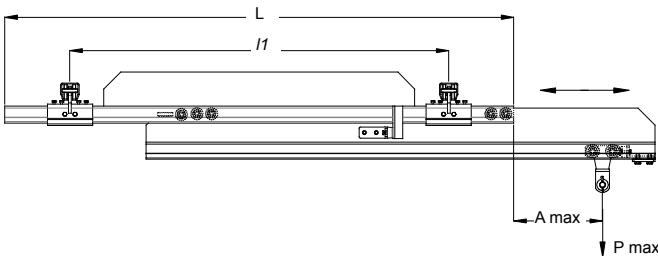
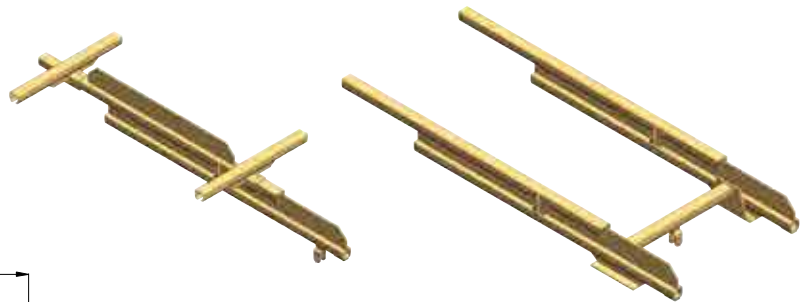
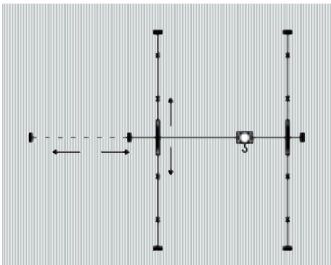
Light cranes and straight monorails can be electrically driven using our power driven trolleys (not to be used in bends). This is particularly useful for cranes that carry loads greater than 2.200 lbs. The power driven trolley operates using 4 high quality friction wheels that ensure long life and accuracy of movement. Electric travel is possible in 3 options: Powered hoist trolley traveling across the bridge only (M 1), powered travel of the crane bridge only (M2+M3) and powered travel in all directions (M 1 + M2 + M3). Our power driven trolleys have inverter controlled motors that allow soft start and soft stop travel.



NIKORAIL Profile No.	Power Driven Trolley	Transferred load (lbs)	L (in)	L1 (in)	W (in)	W1 (in)	W2 (in)	H (in)	H1 (in)
25.000	25.H120	1.100	13.9	5.7	6.2	10.2	142	10.8	13.0
26.000	26.H120	2.200	13.9	5.7	6.2	10.2	142	10.8	13.6
27.000	27.H120	4.400	13.9	5.7	6.2	10.2	142	10.8	14.9

NIKORAIL telescopic cantilever crane and monorail

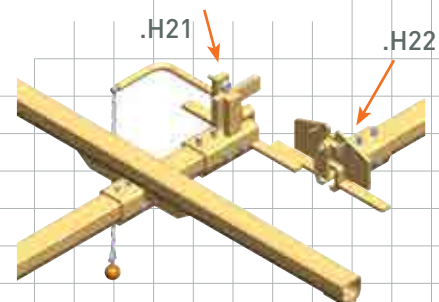
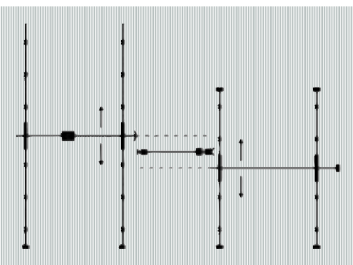
In order to cover a wider area than the supporting structure permits, telescopic cantilever monorails are available. Using our components telescopic cantilever cranes are also possible, which are often installed in containers, trucks and vans. This facilitates overhead lifting and loading from outside and into the vehicle.



NIKORAIL Profile No.	23.000	24.000	25.000	26.000	27.000
P max (lbs)	88	165	275	550	1100
A max (in)	47.2	47.2	51.1	51.1	51.1

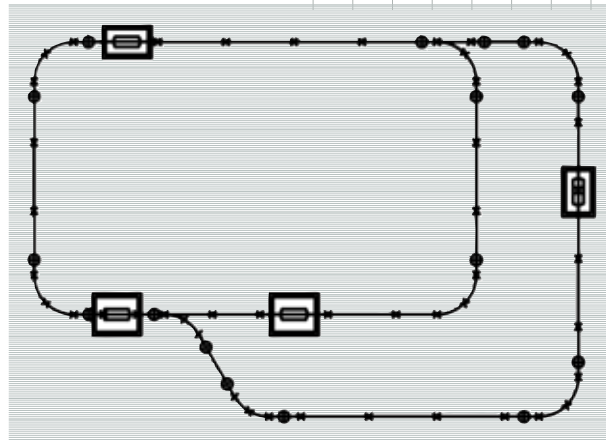
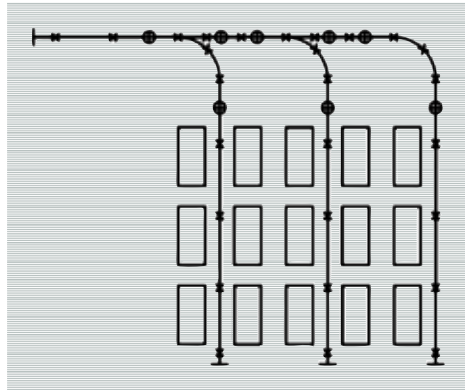
NIKORAIL interlocks (Latching devices)

Interlocks (latching devices) are used to connect one crane with another crane and/or an overhead conveyor system. The load carrying trolley is transferred with safety from one system to the other.



NIKORAIL Monorails with switches & bends

NIKORAIL conveyor systems can be used in a variety of applications utilising more than 2.000 components such as switches and turn tables.

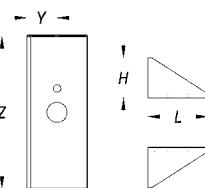
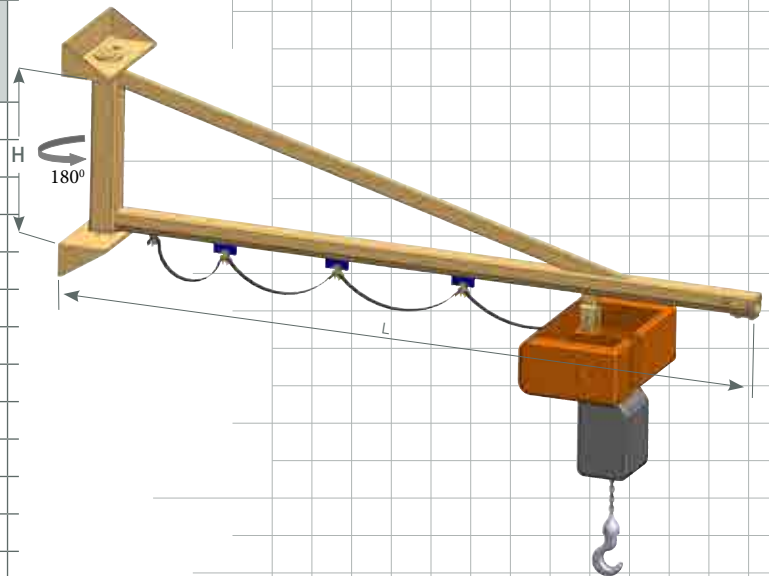


NIKORAIL Jib Cranes

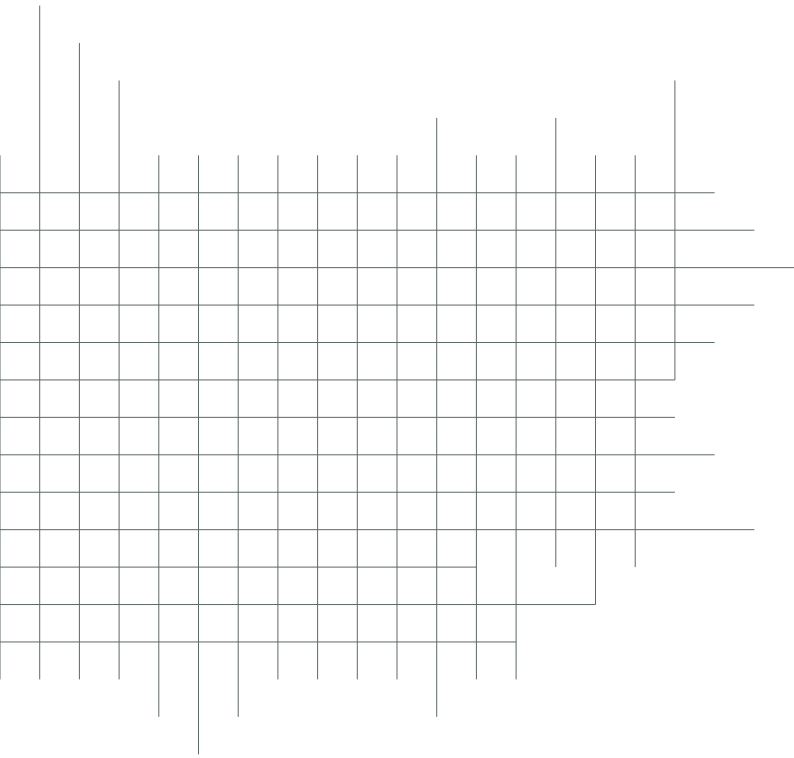
Utilizing our enclosed Profiles we produce high quality and low cost jib cranes suitable for wall/ column mounting or freestanding. Our standard range covers 180° to 270° for capacities of up to 2200lb. Our jib crane kits come complete with a trolley for load suspension and the appropriate cable/hose trolleys.

Our enclosed profile design offers ease of use and minimal pulling /pushing force in the operation of the jib cranes. This is critical for the ergonomic operation of the jib crane to minimize potential strain on the user.

Weight (lbs)	NIKORAIL Jib Crane Part No.	L (in)	NIKORAIL Profile No.	H (in)
175	24.J052	78	24.000	19.6
	24.J053	118	24.000	19.6
	24.J064	157	24.000	23.6
	25.J095	196	25.000	35.4
	25.J106	236	25.000	39.3
275	25.J052	78	25.000	19.6
	25.J053	118	25.000	19.6
	25.J064	157	25.000	23.6
	25.J095	196	25.000	35.4
	25.J106	236	25.000	39.3
550	25.J052	78	25.000	19.6
	25.J063	118	25.000	23.6
	25.J084	157	25.000	31.4
	26.J095	196	26.000	35.4
	26.J106	236	26.000	39.3
1100	26.J082	78	26.000	31.4
	26.J083	118	26.000	31.4
	26.J094	157	26.000	35.4
	27.J105	196	27.000	39.3
	27.J116	236	27.000	43.3
2200	27.J092	78	27.000	35.4
	27.J093	118	27.000	35.4
	27.J104	157	27.000	39.3



NIKORAIL Profile No.	24.000
Wall Mounting Bracket Kit No	24.B90
H (in)	3.9
L (in)	5.9
Y (in)	2.9
Z (in)	14.9



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