



WORKSTATION & MONORAIL

Gantry and crane systems are essential equipment in material handling, offering versatility and efficiency across various industries. These systems include workstation cranes, which are designed for lightweight, repetitive tasks and often feature modular setups for easy customization.

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PROSYSTEM LIGHT CRANES

THE 5 POINT PROCESS TOWARDS ENHANCED PRODUCTIVITY



Lifting your productivity and profitability through innovative lifting solutions....

This section, of Gantry & Crane Systems details a range of our core line of lifting systems. Globally tested and proven, these smart lifting mechanisms help maximise performances and increase efficiencies to all areas of the workplace. Whether it be in manufacturing, warehousing, operations, construction, maintenance, engineering workshops, etc, there is no limit to their potential. Safety, efficiency and economical are the overbearing elements that influences our final lifting solution proposals we present to our valued clients. Our confidence in our products and expertise is drawn from decades of industry knowledge and hands on experience. Trust we have you covered.

Close collaboration with our clients is crucial. The following is a step by step process of Strataligns turnkey service in transforming your lifting and handling challenges to a "fit for purpose" solution.

THE 5 POINT PROCESS TOWARDS ENHANCED PRODUCTIVITY



ON-SITE CONSULTATION

A Stratalign lifting specialist will respond to your enquiry promptly and arrange an on-site visit to assess your specific needs and obtain all technical data and dimensions etc. to suit your individual requirements.



DESIGN

Based on your criteria design engineers will prepare a customised lifting system design or present a combination of product recommendations that will resolve your lifting & materials handling challenges while meeting all safety and operational requirements.



PRODUCTION

Once you have approved the system design or product solution Stratalign coordinates production, assembly & procurement of all the components to ensure a seamless fulfilment of your valued order to meet your delivery or installation deadlines. This includes pre-delivery checking of all major mechanical or electrical items.



INSTALLATION

The Stratalign team's service package doesn't stop with delivery of your order. Experienced personnel will arrange to carry out the installation and set-up of your lifting solution and can even attend to foundation or structural modifications if necessary.



COMMISSIONING

On completion of delivery & installation Stratalign representatives will commission the new machinery or equipment to ensure it is fully operational and that your team are familiar with all the features and capabilities that will take your productivity to new heights.

PROSYSTEM LIGHT CRANES

THE MOST ADVANCED LIGHT CRANE SYSTEM



Workstation cranes increase efficiencies in production, assembly and maintenance areas. The PROSYSTEM light crane system is safe, versatile and respected the world over. It brings ergonomics and quality to the work environment. The cranes can be either mounted to ceiling construction with a wide range of certified suspensions, or to the floor with freestanding support frames. The PROSYSTEM Light Crane System can be equipped with various different types of lifting devices: manual or electric chain hoists, pneumatic hoists or vacuum lifters.

Due to the push trolleys being self-centering, swinging of the load is minimized. The PROSYSTEM light crane system has the best weight-stiffness ratio in the world, has a light own weight and has maximal suspension distances. The enclosed profile construction protects against dust exposure. All connections are bolted which makes the system easy to install and easily customised according to each customers' needs.

The steel profiles have higher load carrying capacity than aluminium profiles. On the other hand, aluminum is lighter to move than steel because it has a lower mass. The strengths of both materials can be used to the client's requirements by combining them into the one system.



WORKSTATION CRANES

PROFILE CRANE SYSTEM



Connection plates with bolts in joints of aluminium profiles ensure fast and secure installation

Lightweight internal conductor rail as standard for profiles 4, 5, 200 and 260

Optimised steel profiles with the best weight carrying capacity ratio in the world

Push trolley with nylon wheels for steel profiles minimises rolling resistance

Wide range of standard suspensions

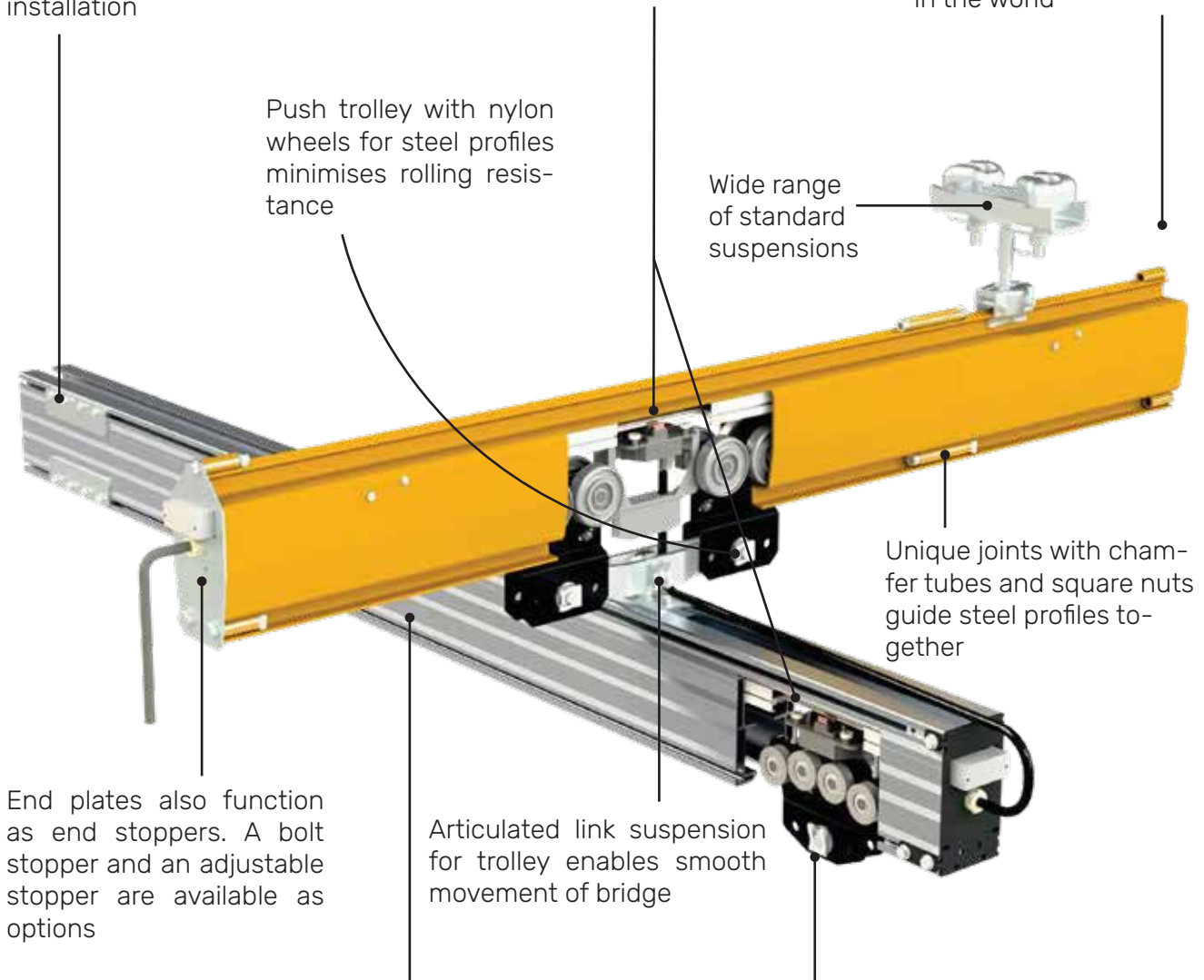
Unique joints with chamfer tubes and square nuts guide steel profiles together

End plates also function as end stoppers. A bolt stopper and an adjustable stopper are available as options

Articulated link suspension for trolley enables smooth movement of bridge

Aluminium profiles with fine profile geometry and unique identification stripes

Push trolley for aluminium profiles ensures light movements



HOIST TRACKS

UP TO 1500KG



Versatile and economical solution for one-way moving and lifting of loads up to 1500kg.

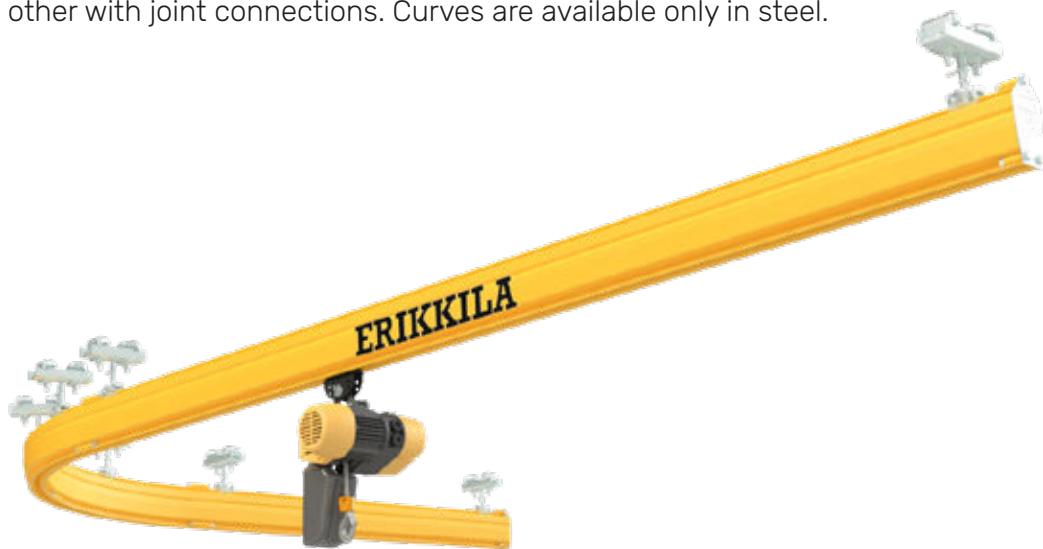


HOIST TRACKS WITH CURVES

UP TO 1250KG



Hoist tracks up to 1250kg capacity can be provided with curves. The curves can simply be connected with each other with joint connections. Curves are available only in steel.



SINGLE AND DOUBLE BRIDGE CRANES

UP TO 2000KG



The standard construction of both single and double girder cranes is designed to be ergonomic. Its three-dimensional construction maximises the available space in your working area. For higher lifting capacities, double tracked bridges can be supplied. With the double girder crane the load capacity can be doubled. Lifting height is increased when the hoist is suspended from the hoist saddle that is located between two bridge profiles. An option of combining steel and aluminum profiles can provide a perfect optimised solution for your requirements.

CAPACITY	
SINGLE OR DOUBLE GIRDER CRANE	MAXIMUM LOADING (KG)
1	1500
2	2000



RAISED BRIDGE CRANES

FOR LOW LOCATIONS WITH LIMITED HEADROOM



Single and Double Raised Cranes are for low locations with limited headroom. The bridge profile is lifted between the track profiles maximising the lifting height



WORKSTATION CRANES

FREESTANDING



Freestanding Workstation crane system can be installed in locations where the ceiling construction cannot carry the crane load. Freestanding frames also enable fast and flexible changes in crane's layout. Floor mounted freestanding light crane system permits free usage of a gantry crane operating in the same work area. The freestanding frames are manufactured in the same production line as the profiles. This ensures that we can offer you a competitive delivery time for the whole system.

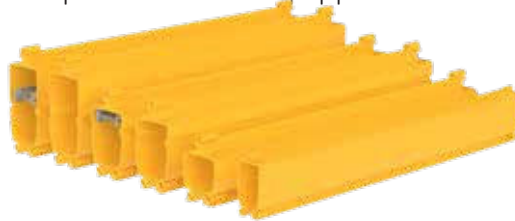


CRANE COMPONENTS

STEEL ENCLOSED PROFILES



The steel enclosed profiles come in four sizes, P125, S140, S200 and S260 and are made of high-tensile steel, which allows higher stresses and bigger suspension loads. The steel enclosed profiles allow 300 kg upward forces when equipped with an SW trolley. The steel enclosed profiles have a world-class weight-load carrying capacity ratio. All steel enclosed profiles are rolled from one metal sheet to precise tolerances. Each enclosed profile's cambering and opening are measured to ensure the highest quality. The S200 and S260 profiles can be equipped with an internal conductor rail (ICR).



PROFILE	P125	S140	S200	S200 ICR	S260	S260 ICR
PROFILE HEIGHT (MM)	125	140	194	194	254	254
PROFILE WIDTH (MM)	64	100	108	108	108	108
WEIGHT (KG/M)	8.2	12.8	18.1	19.0	22.0	22.9
INTERNAL CONDUCTOR RAIL	-	-	-	●	-	●

CRANE COMPONENTS

ALUMINIUM ENCLOSED PROFILES



Aluminium enclosed profiles come in four sizes, Alu 2/105, Alu 3/140, Alu 4/180 and Alu 5/220 and are made of high-quality anodised aluminium. They have outstanding geometry and can take up to 500 kg upward forces with a standard trolley. The enclosed profiles allow smooth and light operation of the hoist and bridge. The enclosed profiles have unique ID stripes to help with identification and installation. Alu 4/180 and Alu 5/220 can be equipped with an internal conductor rail (ICR).



PROFILE	2/105	3/14	4/180	4/180R	5/220	5/220R
PROFILE HEIGHT (MM)	105	140	180	180	220	220
PROFILE WIDTH (MM)	100	100	100	100	100	100
WEIGHT (KG/M)	5.1	7.6	9.4	10.2	10.8	11.6
INTERNAL CONDUCTOR RAIL	-	-	-	●	-	●

CRANE COMPONENTS

PUSH TROLLEYS - STEEL & ALUMINIUM



The maximum load for one trolley is 800 kg, and trolley combinations enable rated capacities of up to 2000 kg per system. The trolley has low construction, which for S200 and S260 profiles allows installing a current collector for the internal conductor rail (ICR) power supply above the trolley, giving maximum trolley movement area.

STANDARD S-TROLLEY FOR STEEL PROFILES

The Standard S-trolley has a maximum load of 800 kg. It is a standard single trolley for single girder cranes of rated capacities ≤ 500 kg.



SUPPORT WHEEL TROLLEY FOR STEEL PROFILES

The support wheel trolley is made of pressed steel with a maximum load of 800 kg. It is used in applications like telescopic cranes where the trolley needs to withstand upward forces (max 300 kg).



EXTERNAL GUIDE WHEEL TROLLEY (EGW) FOR STEEL PROFILES

The external guide wheel trolley (EGW) is used for single girder cranes of rated capacities > 1000 kg. It is available only as a bogie.



P125 TROLLEY FOR STEEL PROFILES

The P125 trolley is made of pressed steel with a maximum load of 300 kg. It is a standard single trolley for single girder cranes of rated capacity ≤ 250 kg.



S-TROLLEY (STANDARD) - BOGIE FOR STEEL PROFILES

A standard trolley with bogie girder is used for single girder cranes of rated capacities 501 kg ≤ 1000 kg. Two standard trolleys with bogie girders are used for double girder cranes of all rated capacities.



TROLLEY FOR ALUMINIUM PROFILES

The maximum load for one trolley is 600 kg, and various trolley combinations enable rated capacities of up to 1000 kg. The trolley has low construction, which allows Alu 4/180 and Alu 5/220 profiles to install a current collector for the internal conductor rail (ICR) power supply above the trolley.



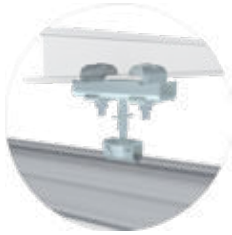
CRANE COMPONENTS

ARTICULATED SUSPENSION



Erikkila light crane solutions include various standard suspensions to mount the crane. The correct suspension combination for each application can be built from a wide range of standard suspension components for different ceilings, columns, and profile types.

The suspension height can be adjusted, and it allows movement in all directions, making the crane light to use.



A - I-BEAM SUSPENSION



B - FLAT CEILING SUSPENSION (BOLT-THROUGH)



C - SIDE SUSPENSION



D - SHAPED CONCRETE BEAM SUSPENSION



E - LAMINATED WOOD BEAM SIDE SUSPENSION



F - U-SUSPENSION FOR RHS PROFILE



G - FLAT CEILING SUSPENSION (ANCHORING)



H - INCLINED I-BEAM SUSPENSION



R - FIXED I-BEAM SUSPENSION



S - WALL CONSOLE SUSPENSION



T - COLLAR SUSPENSION



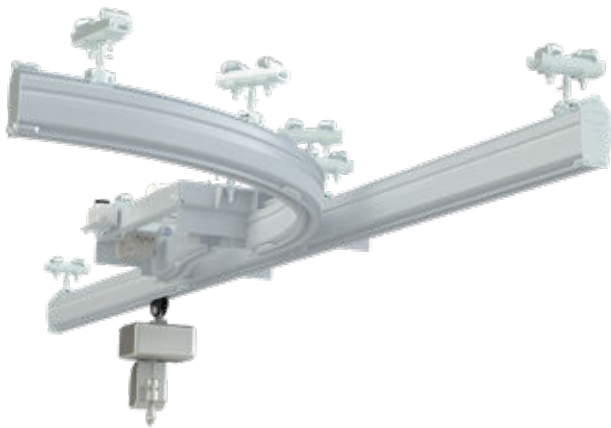
CRANE COMPONENTS

TAILORED SOLUTIONS



TRACK SWITCH AND CURVE

The track switch and curve connect two hoist tracks with a maximum rated capacity of 1250 kg. It is only available for S200 steel profiles. The trolley can move in both directions through the track switch. The switch has electrical and manual operation with radio control or pendant.



TURNTABLE

The turntable connects several hoist tracks with a maximum rated capacity of 1250 kg. It is only available for S200 steel profiles. The turntable has electrical and manual operation with radio control or pendant.



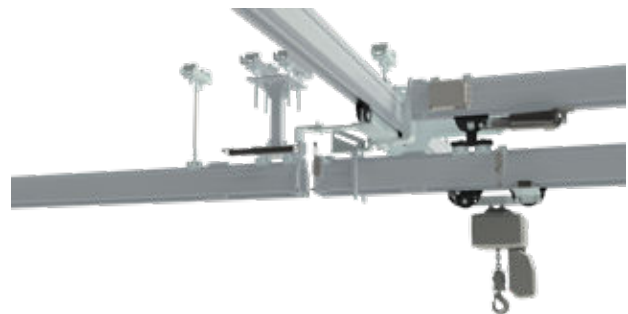
TELESCOPIC CRANE

The telescopic crane lifts loads outside the track. It's available in all sizes of both steel and aluminium profiles. The telescope can be operated manually or motorised with electrical operation using a radio control or a pendant.



TRACK LOCK

A track lock connects a bridge crane to a hoist track or another bridge crane to move the load from one crane or hoist track to another. The track lock has electrical or manual operation through radio control or pendant. It's available in selected sizes of both steel and aluminium profiles.



CRANE COMPONENTS

ELECTRICAL SOLUTIONS



SOPHISTICATED AND LIGHT INTERNAL CONDUCTOR RAIL

The aluminium profiles 4/180 ICR and 5/220 ICR and steel profiles S200 ICR and S260 ICR can be equipped with an internal conductor rail to maximise the crane's coverage. Inside the profile, the power supply is safe from external exposures, allowing full trolley and bridge movements without hanging cables.



FLAT CABLE POWER SUPPLY

All Prosystem light cranes can be equipped with a high-quality flat cable power supply. The flat cable power supply has plastic cable trolleys with plastic wheels running inside the profile, supporting the flat cable. One side of a track can be extended to allow for the accumulation of cable trolleys so that the trolleys do not restrict the working area.



CRANE COMPONENTS

ELECTRICAL MOVEMENTS FOR TROLLEY AND BRIDGE



Electrical movements for the trolley and bridge are recommended if the crane's rated capacity is more than 1000 kg, the lifting height is more than 6 m, or the bridge span is longer than 8 m. All electric movements of the trolley and bridge are equipped with limit switches. A crane with electrical trolleys is typically controlled with a radio remote control. The power supply is with an internal conductor rail or flat cable.





"WITHIN JUST A SHORT PERIOD,
ALL THE PROCESSES OF THE NEW
PRODUCTION LINE LITERALLY WENT
LIKE CLOCKWORK"

PRODUCTION PLANNER
PHILIP HEINAN



"ASSEMBLING ERIKKILA CRANES IS
AS EASY AS BUILDING WITH LEGO"

PROJECT MANAGER
SEBASTIAN MICHAELIS



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