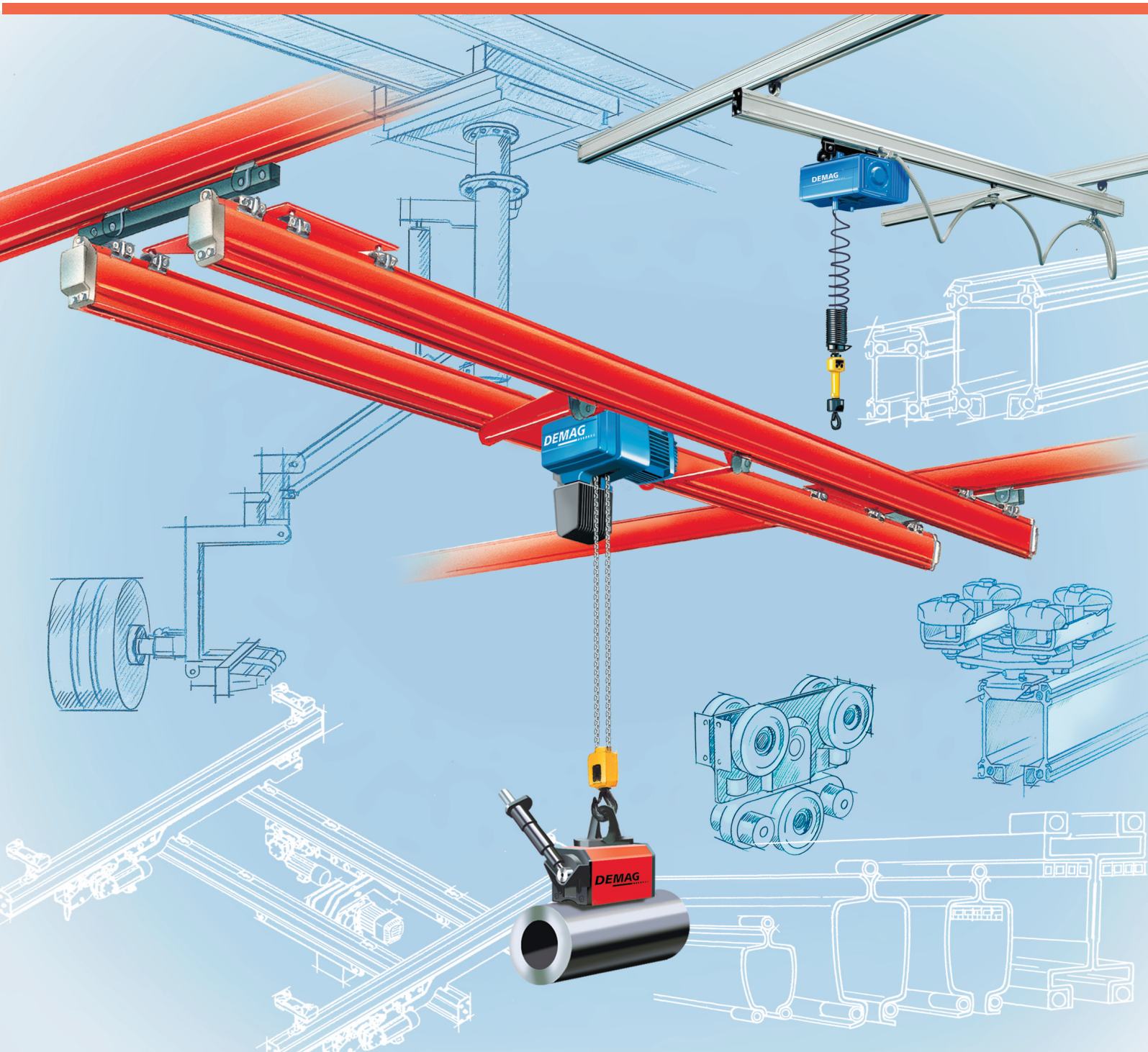
DEMAG
Cranes & Components

Demag track and crane systems from the KBK crane construction kit

Overhead transport, exact positioning, ergonomic handling



Overhead materials handling

Track and crane systems from the KBK crane construction kit by Demag Cranes & Components have a successful track record going back many years. Installations built with these components can be found in facilities and workshops of almost any type and every size.

Characteristic for the KBK crane construction kit are the many possibilities for handling loads quickly, safely and efficiently above the working and production level – without having to use any of the available floor space for crane runway supports or travel paths. In addition, you can arrange all workplaces for maximum productivity.

Components from the KBK ergo crane construction kit can be added to crane systems based on the KBK classic system in such a way that loads can also be safely picked up and transported beyond the crane runway. KBK ergo components can be used to safely accommodate forces acting against gravity.

KBK crane construction kit...
KBK installations are suitable for linear as well as area-serving transport operations, for point-to-point connections or systems with many branch tracks. They can be built in a range of load capacities up to 3,200 kg to provide highly effective handling operations to meet your requirements.

...rugged design and flexibility,...
Made up of many modular components, the KBK construction kit can be tailored to meet your individual equipment requirements. The basic elements are cold-rolled special profile sections in various sizes. They feature high rigidity and strength for a low deadweight. They also make it easy and cost-effective to extend and convert KBK installations as your company grows or when production requirements change.

...simple installation, reliable and efficient
A further typical benefit is the simple and fast assembly thanks to standardised connection dimensions and bolted connections.
Commissioning is simple and maintenance work can be carried out quickly. Made of standardised products manufactured in large series, KBK components give you the certainty of

- optimum cost-to-benefit ratio,
- high functional reliability,
- long service life.

Contents

Comprehensive service

We offer you comprehensive services for your KBK project:

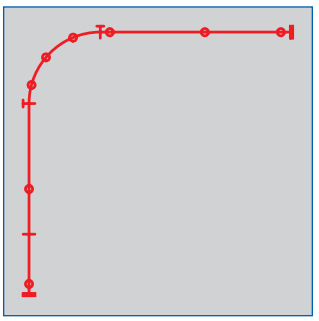
- Consultation on site, also with a practical demonstration of our product applications using our mobile product show
- Project engineering including state-of-the-art IT support; design for special solutions
- Delivery, assembly and commissioning
- After-sales service to maintain the high safety and reliability and to maintain the value of your installation, including compliance with all accident prevention regulations and guidelines

Suspension monorails

For overhead material handling over long distances

Suspension monorails
For linear handling and providing a direct link between pick-up and deposit points in reversing operation or a closed circuit.

Many designs from simple, manually operated straight sections to complex, semi or fully automated circuits; flexible routing using straight and curved track sections, track switches and turntables.

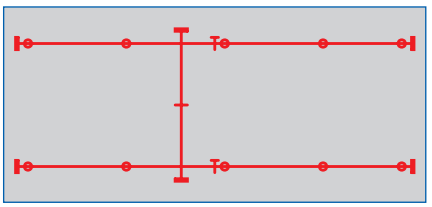


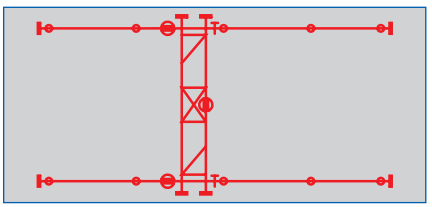
Suspension cranes

To link production processes

Single-girder suspension cranes
For area-serving transportation; minimum approach dimensions, low deadweight; easily moved by hand.

Ball and socket connections between the crane girder and end carriages for smooth operation; cranes can even operate on tracks that are not parallel.





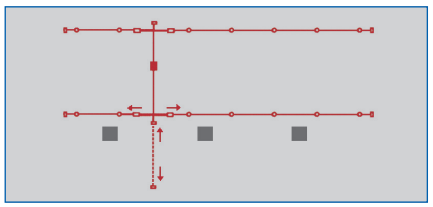
Double-girder suspension cranes
For handling heavier loads and bridging greater spans; favourable installation dimensions; also as **manipulator cranes,** optimum design for use in state-of-the-art handling systems.

Maximum possible hook paths by arranging the hoist between the crane girders; large spans can be bridged by cranes running on several runways.

Overhung and extending cranes

With large overhang, for extended overhead handling

Overhung cranes
Crane girder with overhang extending up to 2.5 m beyond the runway span.



Extending cranes
Crane girder with intermediate girder that can be extended by up to 2.5 m to one or both sides. Optimum design for serving areas added at a later date or featuring ventilation pipes, radiant heaters, cables and similar items, or areas otherwise inaccessible due to columns or supports.

Jib cranes

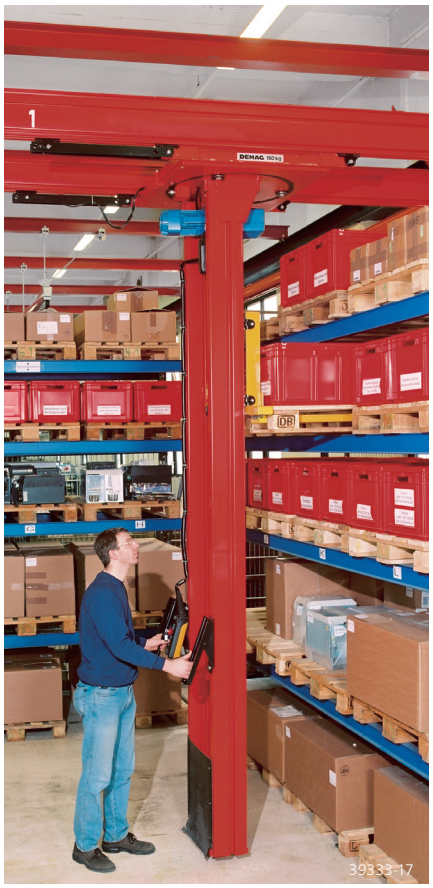
Workplace cranes – integrated into the material flow

Pillar-mounted jib cranes
Free standing workplace cranes at almost any location; with wide operating radius. Simple traversing of the jib at any load position due to low deadweight; jib length up to 7 m.

Wall-mounted jib cranes
Workplace cranes mounted on walls, columns or machinery; no additional floor space required. Also as tool tracks for improved handling of testing devices, tools, etc. as well as cable or hose suspension racks.

Stacker cranes, portal cranes

Ideal workplace units



Stacker cranes
Double-girder suspension cranes with special rotating stacker trolleys; simply moved and rotated by hand. Ideal for storing and retrieving unit loads, containers and pallets.

Portal cranes
Floor travelling, not rail-bound; ideal for repair and erection work. Good manoeuvrability; easily dismantled and re-erected.

Demag KBK track and crane installations –
all types and design possibilities at a glance


DEMAG

Suspension monorails

Ideal for linear handling

Suspension monorails from the KBK construction kit are the optimum solution for linear, overhead handling.

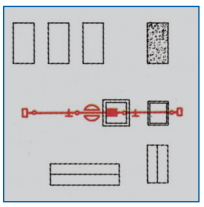
Outstanding versatility
A wide range of components makes it possible to adapt the route precisely to meet the structural requirements of your workshop. At the same time, the system ensures that all specific product and workplace requirements of your production facility are met.

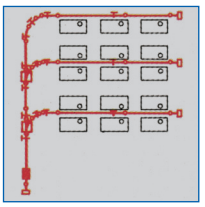
Transfer between suspension monorails and single-girder suspension cranes is also possible using latching devices.

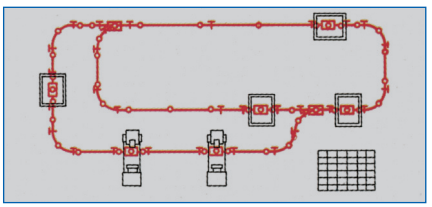
Ideal equipment carriers
The special profiles of the KBK crane construction kit are particularly suitable for applications such as tracks for load balancers fitted with testing devices and electric and pneumatic tools, etc. and power supply lines for cranes and other mobile equipment.

Cable trolleys can also be used for suspending hoses for transporting fluids or gases.

KBK classic suspension monorails can be built to almost any design: from simple, manually controlled straight sections to complex, semi or fully automated closed-circuit monorail systems.

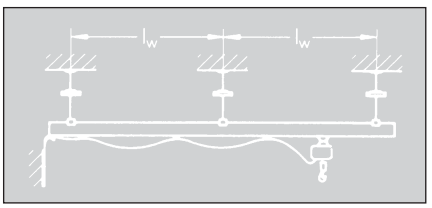






Profile selection: max. distances between supports, headroom dimensions

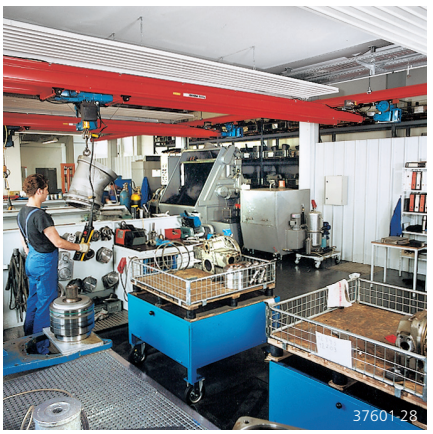
KBK profil	Adjustable headroom dim. (mm)		Load capacity (kg)						
			80	125	250	500	1000	1600	2000
100	220	Distance between supports for suspension monorail l_w (m)	3,0	2,4					
I	250		5,0	4,1	2,5				
II-L	370			7,0	5,8	3,5			
II	400				8,0	5,4	3,2		
III	446					8,0	5,7	4,1	3,4



Single-girder suspension cranes

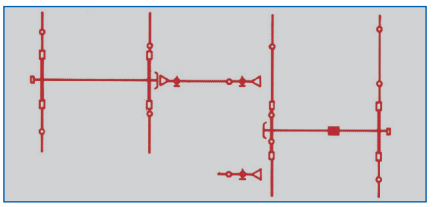
Favourable dimensions, low deadweight

Single-girder suspension cranes from the KBK classic construction kit are used for fast and safe area-serving overhead handling and exact positioning of a wide variety of goods.

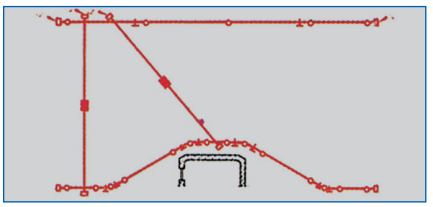


Easy and cost-effective
KBK classic single-girder suspension cranes can be simply suspended from the building roof or superstructure. Additional supports for the crane runway are not necessary. Even partial areas of a workshop may be easily fitted with suspension cranes at low cost.

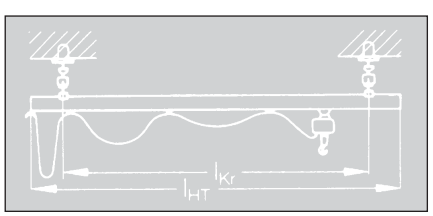
Smooth and reliable handling
Thanks to their low deadweight and free-running trolleys, the cranes allow heavy and awkward components to be moved quickly and easily by hand.



The benefits of KBK classic single-girder suspension cranes include latching devices that allow direct transfer of the hoist trolley between the crane and a suspension monorail.



Flexible ball and socket connections between the crane girder and end carriages enable single-girder cranes to operate on tracks that are not parallel.



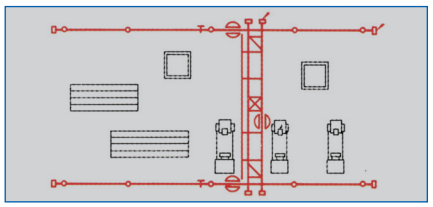
Profile selection: Max. distances between supports, crane spans, girder lengths

KBK section		Load capacity (kg)						
		80	125	250	500	1000	1600	2000
100	Crane span l_{kr}	2,85	2,6					
	Girder length l_{HT}	3,0	3,0					
I	Crane span l_{kr}	4,65	4,6	2,75				
	Girder length l_{HT}	6,0	5,0	3,0				
II-L	Crane span l_{kr}		7,0	6,1	3,7			
	Girder length l_{HT}		8,0	7,0	4,0			
II	Crane span l_{kr}			7,45	5,9	3,5		
	Girder length l_{HT}			8,0	7,0	4,0		
III	Crane span l_{kr}				8,4	6,3	4,3	3,6
	Girder length l_{HT}				9,0	7,0	5,0	4,0

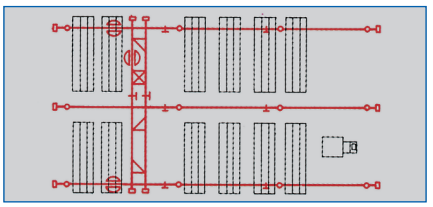
Double-girder suspension cranes

Large lifting heights, spans and high load capacities

Double-girder suspension cranes from the KBK classic construction kit feature a low deadweight and favourable structural dimensions. In addition, the pendulating suspension largely absorbs the horizontal forces caused by starting, braking and stopping.
Double-girder suspension cranes can even be installed in buildings of light steel construction.



Power supply cable trolleys travel in the KBK runway or crane girder sections. The control pendant can also travel independently of the hoist when fitted to a separate travel rail.



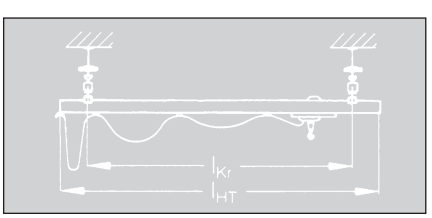
Cranes operating on several runways provide larger spans to cover extensive storage and production areas.

Large lifting heights
Arrangement of the hoist unit between the two crane girders provides KBK classic double-girder cranes with a greater useful lifting height.

Large spans
KBK classic double-girder cranes can also operate on several runways, thus providing large spans to cover extensive storage and production areas.
The cranes can be easily moved by hand. However, electric friction wheel travel drives from the KBK construction kit are recommended for spans greater than 6 m and load capacities exceeding 500 kg.

Profile selection: Max. distances between supports, crane spans, girder lengths

KBK section		Load capacity (kg)							
		80	125	250	500	1000	1600	2000	3200
100	Crane span l_{kr}	4,4	3,8						
	Girder length l_{HT}	5,0	5,0						
I	Crane span l_{kr}		6,2	5,0	3,1				
	Girder length l_{HT}		9,0	6,0	4,0				
II-L	Crane span l_{kr}			7,6	6,5	4,3			
	Girder length l_{HT}			10,0	7,0	5,0			
II	Crane span l_{kr}				8,8	6,1	4,6	3,6	
	Girder length l_{HT}				11,0	7,0	5,0	4,0	
III	Crane span l_{kr}					9,1	7,4	6,3	4,2
	Girder length l_{HT}					14,0	9,0	7,0	5,0



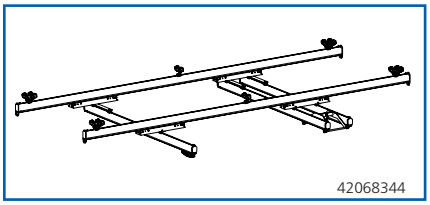
Overhung and extending cranes

Large overhang – constant or variable

If you also want to move loads beyond the limits of the crane suspension – we can make this possible with KBK.

Overhung cranes

KBK-ergo overhung cranes are fitted with crane girders that extend up to 2.5 m beyond the width of the crane runway. This enables you to reach bays added at a later date, for example.
Or you can handle loads below ducts, radiant heaters, pipes or similar obstacles between the wall and roof which result in the crane runway having to be positioned at a distance to the wall.



Max. permissible overhang dimensions*

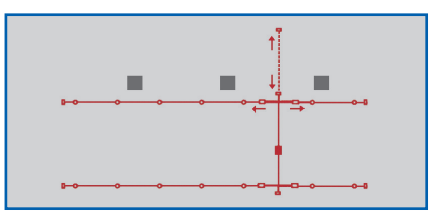
	l_{A1}		
	KBK I	KBK II-L	KBK II
Single-girder crane	–	1,5 m	1,8 m
Double-girder crane	1,6 m	2,3 m	2,5 m

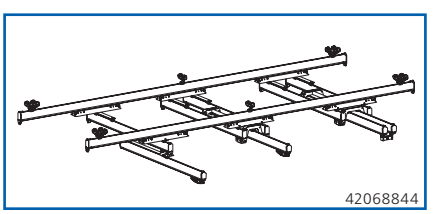
*according to profile and crane type; also dependent on the load.

Extending cranes

KBK classic and KBK ergo extending cranes feature additional girders that are arranged between or beneath the crane girders. Depending on the design, they can be extended to one or both sides beyond the crane runway width. These cranes can also be used for lifting and positioning loads in almost inaccessible areas, e.g. between pillars and columns.

Depending on the required extension length, extending cranes may be completed with KBK classic or also with KBK ergo elements.





Max. permissible overhang dimensions*

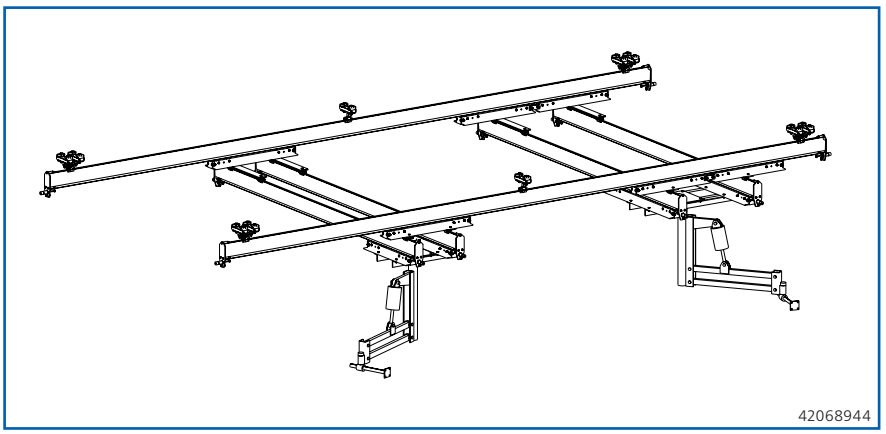
	l_{A1max}	
	KBK II-L	KBK II
A1/1	1,5 m	1,8 m
B2/1	1,5 m	2,0 m
B2/2	2,3 m	2,5 m

*according to profile and crane type; also dependent on the load.

Manipulator cranes

Optimum ergonomic load handling

With the use of components from KBK ergo modular system, double-girder suspension cranes can also be designed as manipulator cranes.
They can be designed to meet the exact needs of the relevant loads, processes and production conditions.



They make it possible to

- Move workpieces and subassemblies into the most favourable positions for the relevant process,
- Serve workplaces, machinery and installations from any direction,
- perform operations outside the suspension area, thus increasing the operating range.

Innovative and ready to meet tomorrow's needs

Based on KBK-I, KBK-II-L or KBK-II rails, manipulator cranes are built using selected KBK ergo components to meet the operating requirements. They feature the ability to accommodate kick-up forces. In addition, they offer outstanding positioning accuracy,together with a high working speed. In this way, handling operations can be optimised in line with ergonomic requirements for maximum efficiency.

Fast upgrade

If you already have double-girder suspension cranes from the KBK classic construction kit, they can be easily and quickly extended with KBK ergo components to become manipulator cranes.

Stacker cranes, portal cranes

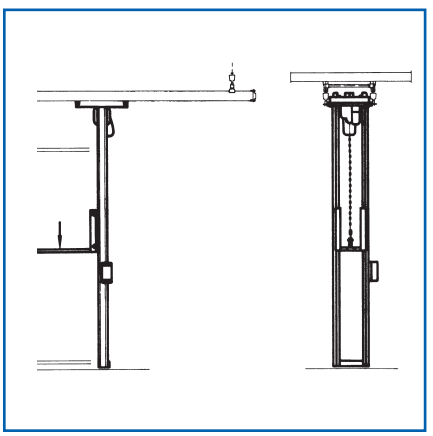
Specialised handling equipment for warehouse and factory

Stacker cranes
Stacker cranes from the KBK classic crane construction kit consist mainly of a KBK classic double-girder suspension crane and a special stacker trolley.
They are used wherever unit loads, containers or pallets weighing up to 500 kg have to be transported, sorted and stored. They make it possible to complete all tasks in one work cycle without the need for ladders, order picking trolleys or similar equipment.

The lifting carriage can be fitted with forks, prongs, gripper tongs or other load handling attachments in accordance with the specific load handling requirements. The mast with its trolley is easily moved by hand and can rotate through 360°.

Portal cranes
Portal cranes from the KBK classic crane construction kit with a load capacity up to 1,000 kg can be used wherever a suspension crane is not cost-effective or cannot be installed. They run on solid even surfaces and can be manoeuvred easily in all directions, making them ideal for repair and assembly work.

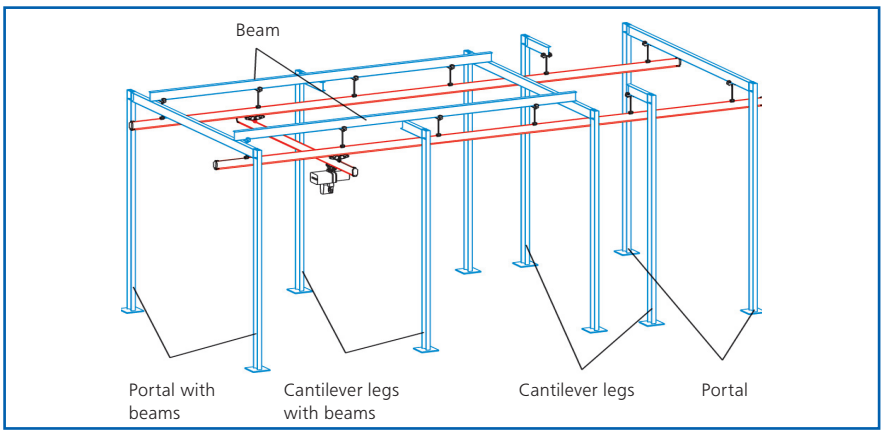
A particular advantage in many applications is that KBK classic portal cranes can be easily dismantled, transported and quickly re-erected elsewhere. The crane girder span can also be adjusted.



Crane runway supports

Individual solutions

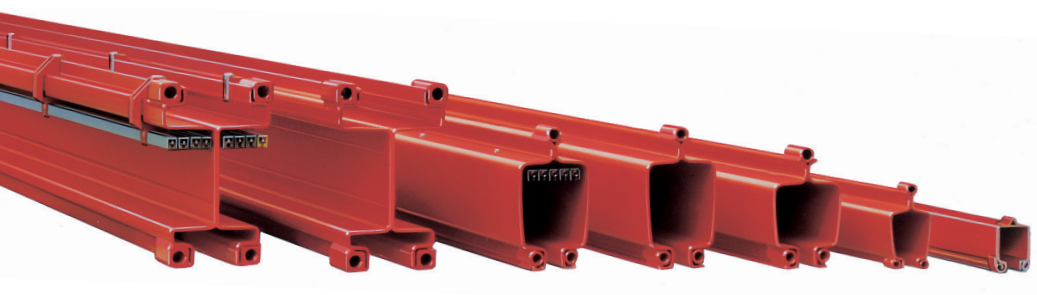
KBK installations can be built even in facilities where the workshop ceiling and roof structures cannot bear loads. Support structures tailored to meet your needs can be built quickly and safely using a range of steel superstructure components that we have developed on the modular principle. The required crane runways or suspension monorails can be attached directly to the supports or on longitudinal beams. Every component is designed without the need for special design verification.



Design	KBK suspision	Profile selection
Cantilever support	direkt	HE-A (leg), IPE (cantilever arm)
Cantilever support with beam	on the beam	HE-A (leg), HE-A (cantilever arm), IPE (beam)
Portal	direkt	HE-A (leg), IPE (crossbar)
Portal with beam	on the beam	IPE (leg), IPE/HE-A (crossbar), IPE (cantilever arm)

All supports are supplied with foot plates that are dimensioned to the design requirements.
They can be fixed to the floor using foundations featuring anchor rods or by means of anchor bolts.

KBK classic crane construction kit components



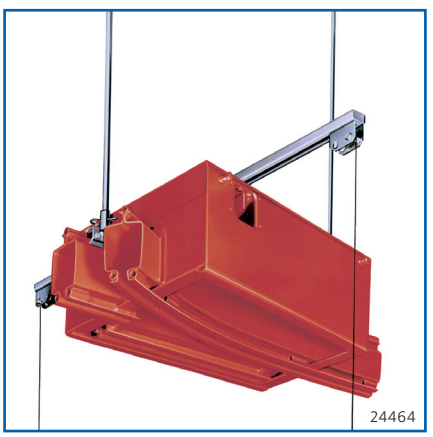
29463

Profile sections
The basic elements are special cold-rolled track sections available in six sizes:

KBK 100	Load capacity up to 125 kg
KBK I	Load capacity up to 500 kg
KBK II-L	Load capacity up to 1,000 kg
KBK II	Load capacity up to 2,000 kg
KBK II-R	Load capacity up to 2,000 kg, with 5-pole power supply arranged inside
KBK II-T	strengthened section for single and double-girder cranes
KBK III	Load capacity up to 3,200 kg

24465

Suspensions
To prevent bending stresses and to minimise horizontal forces in the superstructure, KBK track sections are suspended so as to allow pendulation. Plastic shells in the upper and lower ball joints reduce maintenance, surge loading and noise to a minimum. The track height can be easily and precisely adjusted by means of the threaded suspension rods that connect the ball joint heads.



24464

Track switches
Of compact, enclosed design, track switches are branching or converging components in the material flow. Options allow manual, electric or pneumatic switching for semi- or fully automatic control.

24736

Drop sections
Drop sections are mainly used in closed-circuit tracks for picking up and depositing loads at predetermined positions.
This eliminates the need for hoist units.

When lowered in the drop section, the trolley is mechanically locked in place. Mechanical locks in the track stop other trolleys on either side of the drop section.

For each size, all standardised components and assemblies, such as straight and curved track sections, track switches, turntables, drop sections, etc., have the same uniform joint dimensions. Self-centring plug-in and bolted connections allow them to be easily assembled in any combinations.

Different profile section sizes can be used for single and double-girder suspension crane runways and girders.

All components are either galvanised, finished with a coat of synthetic resin-based paint or powder-coated.

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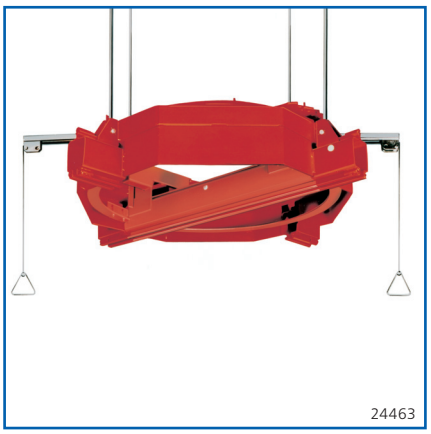
Push travel trolleys
Fitted with bearing-mounted plastic wheels, push travel trolleys are easy to move. The maintenance-free, low-wearing wheels absorb vibration and are silentrunning.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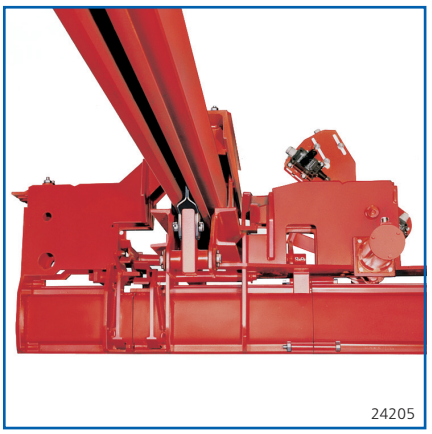
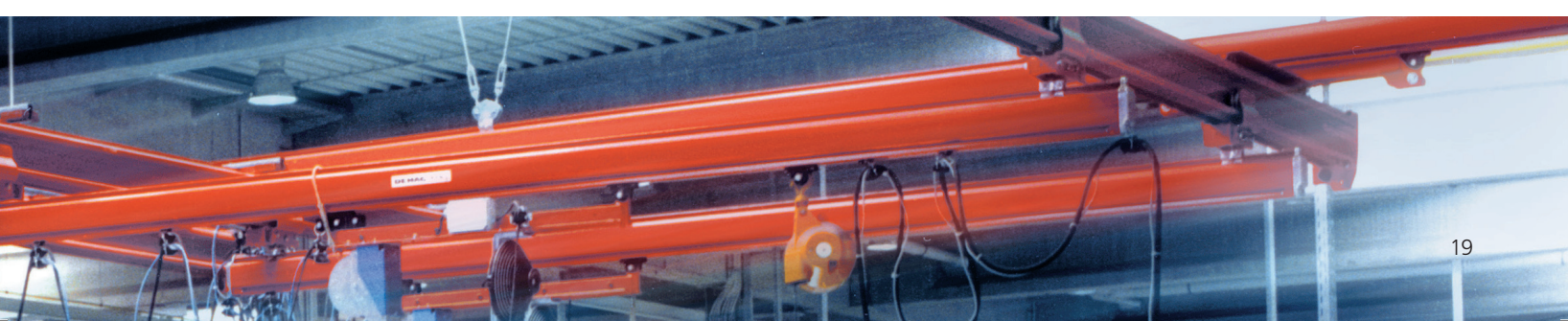
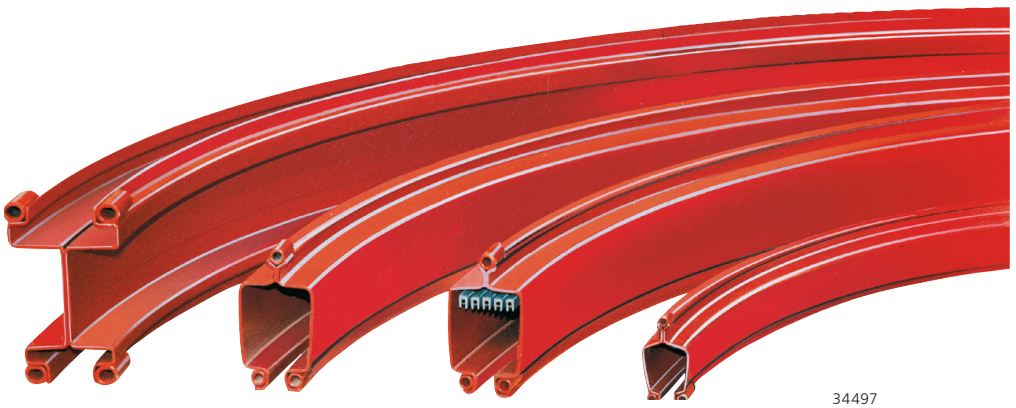
Turntables
Turntables make it possible to change direction in a minimum of space. Integrated mechanical locking devices prevent trolleys from leaving or entering the turntable section during the slewing operation. Turntables can be manually or electrically operated.


24205

Latching devices
Latching devices make it possible to connect single-girder suspension cranes and suspension monorails so that the hoist trolley can transfer between them. When disengaged, the crane travels past the end of the monorail without mechanical contact.



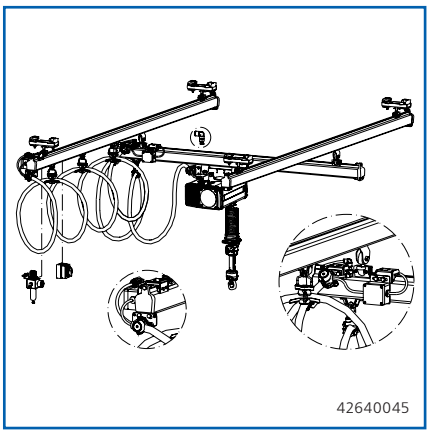
Straight and curved sections
Straight and curved sections are made of special cold-rolled profiles which feature high rigidity and stability for a low deadweight. The profile sections for loads up to 2,000 kg are hollow track sections with protected inside-running surfaces. The KBK III profile of outside-running section design is available for loads up to 3,200 kg. KBK II and KBK III profile sections can also be supplied with integrated conductor lines.


34497

Power supply
Power supply is preferably by means of flat festoon cables. With more than two cranes on a runway or more than two travelling hoists on a suspension monorail and in the case of track systems with switches, turntables, latching devices or drop sections, power supply is via conductor lines: for KBK II-R track sections with 5 internal conductors, for KBK III track sections with up to 10 individual conductor lines.

All power supplies are designed to DIN specifications and are protected against accidental contact in accordance with relevant regulations.

Compressed air or electricity and compressed air are frequently required for modern handling equipment operation. They can be supplied by means of a particularly easy-running trailing helical cable system.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Friction wheel travel drives
Large friction wheels fitted with high frictional rubber tyres ensure that the drive forces are transmitted efficiently. Springs provide constant pressure between the driving wheel and running surface of the KBK track sections. Therefore, the connection between the friction wheel and the track does not depend on the position and weight of the suspended load.

In addition to the DRF 200 universal travel drive, there is also a light RF 125 travel drive, which is ideally suited to moving small loads or handling devices. It can be supplied either with an electric motor or a compressed air-driven motor.

KBK ergo crane construction kit components

Demag Cranes & Components has extended the KBK construction kit to include additional applications with KBK ergo components. They can be used to build cranes that have to accommodate kick-up forces.This may be the case for overhung, extending and manipulator cranes.

Suspensions
Fitted with integrated damping elements, KBK ergo suspensions absorb energy from various directions, thus preventing unnecessary loads being transmitted to the roof or supporting structure.


37061

Trolleys
The KBK ergo crane construction kit includes trolleys in two sizes.

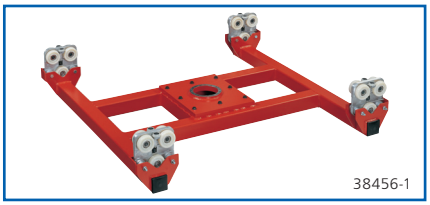
KBK-I ergo trolleys are made of steel and feature axles mounted in articulated bearings. A horizontal wheel provides lateral guidance in the runway.

KBK-II ergo trolleys of aluminium alloy feature articulated axles, adjustable counter-pressure rollers and a pair of guide rollers. They reliably accommodate the additional kick-up and lateral forces exerted by offset loads. The floating axle arrangement ensures uniform distribution of forces to all four travel wheels..

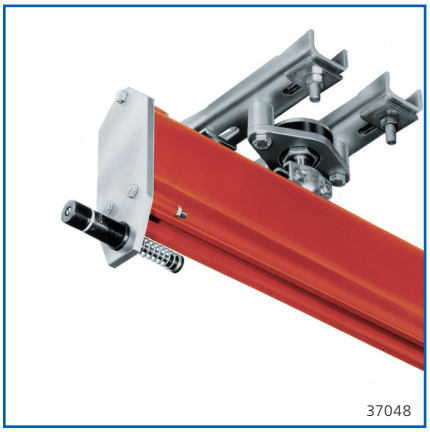
End carriages
End carriages provide improved rigidity and increased positioning accuracy. Firmly connected to the crane trolleys, they precisely transfer all forces reliably to the crane or trolley runways.


37052

Crab frame
The specially developed crab frame is a rugged, high load bearing system for mounting specially equipped hoists and manipulators.


38456-1

End caps
Special shock absorbers are required on KBK ergo cranes if the limit positions are frequently approached in normal operation. Shock absorbers integrated in the end caps dissipate the energy transmitted by the loads to all components and assemblies as well as the support superstructure.


37048

KBK Aluline – The lightweight

KBK Aluline is used for applications in which a wide variety of lifting, transportation and handling tasks can be carried out by lighter track and crane systems.

KBK Aluline can be used to construct both single and double-girder suspension cranes as well as straight suspension monorail systems.

Typical features of KBK Aluline are

- very low weight
- highly precise components
- anodized surfaces with an attractive finish
- very easy assembly
- compact design

Our certified quality control system (to DIN ISO 9001/EN29001, 8.94 edition), receiving inspection, in-process inspection and final testing and inspection combined with long-term trials in our test centre, maintain the highest product quality.

38502

38450-8

39034-3

Versatile modular system for many applications

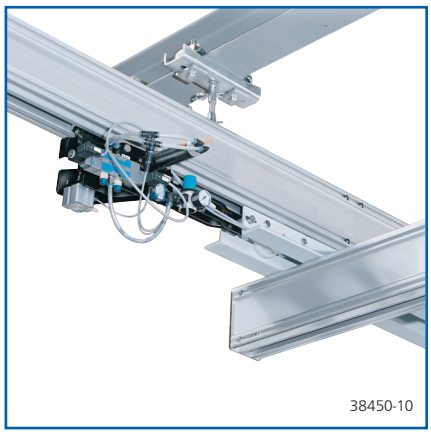
KBK Aluline suspension crane and monorail systems can be used for a wide variety of applications, ranging from simple connections between two workplaces to solutions covering whole areas.

With special load handling attachments and end effectors, KBK Aluline systems can be easily extended to meet your needs.

Whatever you need to lift, wherever it is

Whether for industrial, retail or service facilities, in special manufacturing environments and storage facilities or even theatres and studios – KBK Aluline systems provide the optimum solution.

Furthermore, existing installations can be modified easily and cost-effectively by adding new parts or replacing existing components to fit new needs.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38656-6

Smooth and reliable handling
Thanks to the low dead weight and smooth-running trolleys, the cranes can be easily moved by hand. This ensures that even heavy and difficult workpieces can be handled safely and reliably.

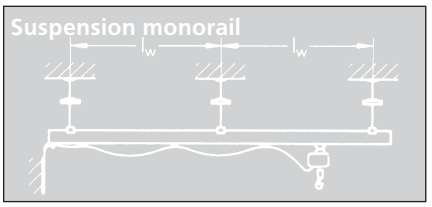
KBK Aluline suspension cranes can be simply suspended from the building roof or superstructure. Additional supports for the crane runway are not necessary. You can equip just a part of your workshop with optimum suspension crane solutions at low cost.

Choose from single-girder cranes, fitted with push-travel trolleys for small loads or double-girder cranes for large spans and heavy loads, with optional electric or pneumatic travel drives.

The hoist is arranged between the girders of double-girder cranes, offering maximum hook travel and more favourable mounting dimensions than single-girder cranes. They are ideally suited for mounting manipulators in state-of-the-art handling systems.

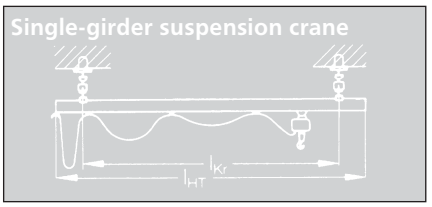
Suspension monorail

	Lifted Load G_H (kg)				
Section	80	125	250	500	1000
Aluline 120 l_w (m)	5,0	4,1	2,5	1,6	
Aluline 180 l_w (m)		7,2	5,8	3,5	2,1



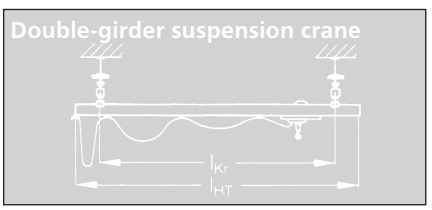
Single-girder suspension crane

	Lifted Load G_H (kg)				
Section	80	125	250	500	1000
Aluline 120 l_{Kr} (m)	4,8	4,6	2,9		
l_{HT} (m)	6,0	5,0	3,0		
Aluline 180 l_{Kr} (m)		7,4	6,3	3,9	1,9
l_{HT} (m)		8,0	7,0	4,0	2,0



Double-girder suspension crane

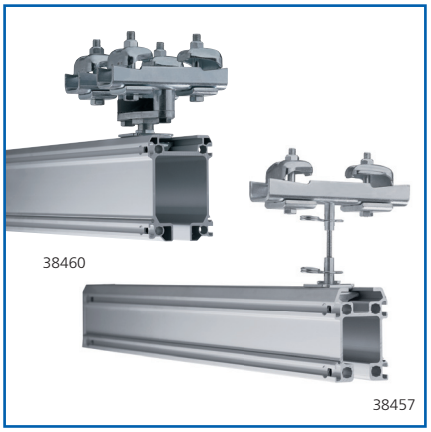
	Lifted Load G_H (kg)				
Section	80	125	250	500	1000
Aluline 120 l_{Kr} (m)		6,4	4,9	3,4	
l_{HT} (m)		8,0	6,0	4,0	
Aluline 180 l_{Kr} (m)			7,9	6,8	4,8
l_{HT} (m)			8,0	7,0	5,0



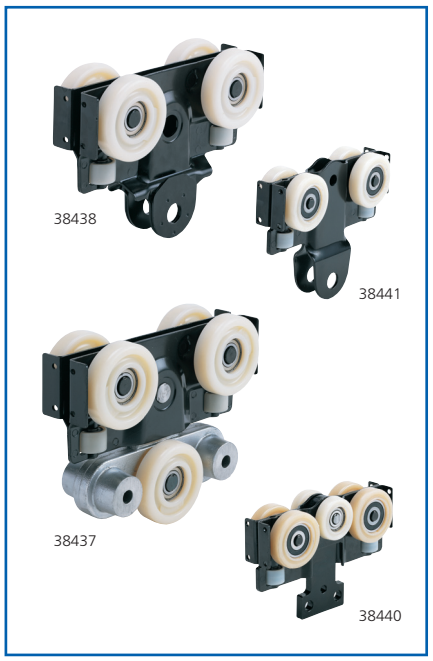
L_w = track suspension distance L_{Kr} = crane span dimension L_{HT} = crane girder length

KBK Aluline components

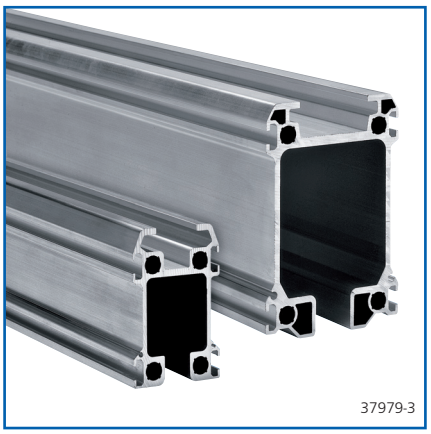
Simple and safe assembly
The KBK Aluline crane construction kit enables you to design almost any overhead suspension crane or monorail system. The track sections measuring up to eight meters in length are safely and reliably connected by four anchor bolts. Set screws and spring sets ensure fast and easy assembly and – as for all KBK assembly work – also enable you to "do-it-yourself".



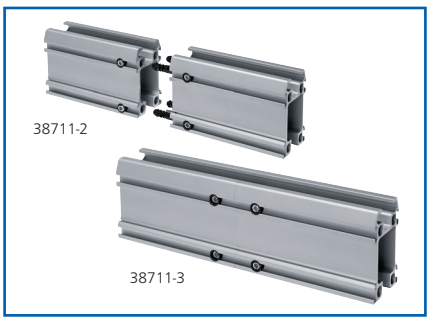
Suspensions
Standard systems are fitted with KBK classic suspensions. Equipped with articulated joints, they provide a low-torque connection to the support superstructure. Special systems designed to accommodate offset loads resulting from large overhangs or manipulators are fitted with ergo suspensions.



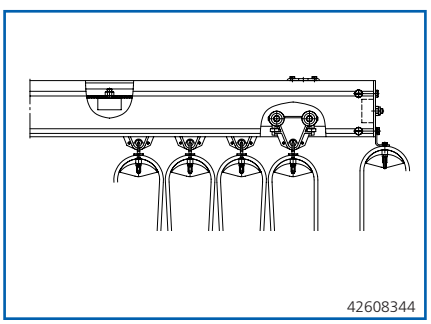
Trolleys
The trolleys run smoothly and quietly on plastic travel wheels mounted in antifriction bearings which are lubricated for life. **Classic trolleys** feature an articulated, torque-free pin connection.
Ergo trolleys can also accommodate kick-up forces.



Profile
The basic element is a profile section rail available in two sizes. The unique matt silver look of anodized aluminium gives KBK Aluline an almost weightless appearance. Cavities in the upper and lower parts of the of the track sections ensure great mechanical rigidity. Slots along the track sections make it easy to mount attachments.



Joint connections
Matching interface dimensions and precise bolted connections enable KBK Aluline profile sections to be assembled quickly and easily.



Power supply
Highly flexible and cold-resistant electric cables are individually suspended from cable sliders or cable trolleys in groups.

Components for manual and automatic controls

Installations made from the Demag KBK crane construction kit can either be fitted with manual controls or semi- or fully automatic control systems.
All components correspond to the latest design and accident prevention regulations and meet the requirements of most international rules and regulations.

Load detectors
Load detectors on hoist units provide overload protection for maximum safety and efficient utilisation. Additional load summation and digital load displays can be added.

PLC programmable logic control automation systems
These systems make it possible to implement optimum solutions with maximum efficiency for any materials handling
automation requirements. Based on compact modules, existing control systems can be extended at any time. Operating sequences can also be

Dematik IR infrared remote control
For wireless control of KBK installations as well as other facilities or machinery. Available in three sizes.
- Ergonomic transmitter enclosure with carrier
- Range limited to approx. 40 m
- Simple upgrade

RC-10 radio remote control
For wireless control of KBK installations as well as other facilities or machinery, for up to three axes.
- Ergonomic transmitter enclosure with carrier
- Standard range 100 m

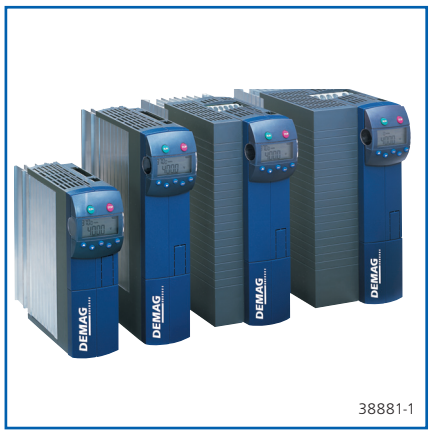
DSK, DSE and DST control pendants
The ergonomic design and sloping housing facilitate fatigue-free operation and permit operators to work in a natural comfortable position.

DSE and DST control pendants offer a wide variety of switch combinations for hoists, crabs and cranes and can also be used to control machinery and installations.

Integrated electrics
Arranged directly on the units to be controlled and featuring plug-and-socket connectors, integrated electrics guarantee fast and easy connection of control units and cables. Integrated electrics are also subjected to punishing long-term shock and vibration resistance tests as well as function tests at varying temperatures and under various climatic conditions.

In-house control systems
Our in-house control systems guarantee maximum reliability thanks to comprehensive quality assurance measures and function checks as well as simulated function sequences that are carried out in the factory.

Pulse generators
Pulse generators integrated into electric motors provide countable signals for measuring speed and rotation in both directions. The units can be automated.



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Frequency inverters
Infinitely variable drive operating speeds can be achieved using frequency inverters that are adapted to specific operating sequences.

visualised.
Infinitely variable speed control
DCS-Pro chain hoists and DCMS-Pro Manulift units feature infinitely variable speed control with integrated electronics for
- variable lifting and lowering motions,
- gentle lifting and positioning,
- vibration-free, smooth operation.

Compact hoists

With rope or chain

Demag compact hoist units offer a wide variety of load capacities, speeds and features for a maximum of safety and reliability. They can be used to meet individual application requirements in industry, workshops and the trade sector. Compact hoists are supplemented by a wide variety of load handling attachments for every application.

The **Demag DC-Pro chain hoist** is available in two versions for loads weighing up to 5,000 kg. As the DC-Pro with a DSC control pendant and as the DCM Manulift for quickly handling loads with only one hand. They feature a wide range of integrated standards, offer outstanding ease of operation and maintenance, high standards of safety and optimum efficiency.

Thanks to the infinitely variable speed control of the **Demag DCS-Pro chain hoist**, sensitive parts can be lifted, lowered and positioned more gently and carefully. Furthermore, hoist motions can be carried out much more quickly thanks to the higher speed in the partial load range due to the Pro-HUBR function.

The **Demag DC-Com chain hoist** is an inexpensive, high-quality entry-level variant with basic features, just right for everyday use for loads weighing up to 2,000 kg.

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SpeedHoist is a rope hoist specially designed for fast load handling applications with loads weighing up to 160 kg. This makes them ideal for fast transfer sequences in series production lines or in order-picking operations, for example. The special control handle facilitates precise, extremely light and fatigue-free control. The operators hand motions are translated into exact load movements at infinitely-variable speeds.

DS 1 / DSES 1 rope winches enable particularly low-vibration lifting and lowering of loads. They are provided with limit switches for the highest and lowest hook positions as standard and are protected against extreme overloads by an integrated slipping clutch. DSES 1 rope winches feature infinitely-variable speed control.

The **pneumatic D-BP rope balancer** with a load capacity up to 110 kg can be used for weightless positioning and handling of loads. It is available with various control systems:
Up/down control with DSK control pendant or Manulift control element, balancer controls for constant loads as well as manual force control for intuitive operation. Here, too, various load handling attachments can be connected using the proven quick-change coupling.

38997-1

38995-5

Load handling modules

Mechanical load handling modules
We mainly employ grippers, load pins, load forks, load hooks and tongs as mechanical load handling modules. They are chiefly combined with versatile load lifting modules, such as Manulift units or rope balancers, for example. Both gripping devices as well as tongs are usually based on a scissor mechanism.

Fitted with a variety of jaws, PGS parallel grippers can be used for a wide variety of applications, e.g. for handling shafts or bins.

Vacuum load handling modules
Vacuum load handling modules can be operated by compressed air via ejectors and electric vacuum pumps of fans. The latter operate with comparatively low underpressure, however, high volume flows and are particularly suitable for handling air-permeable workpieces such as textiles and cartons, for example.

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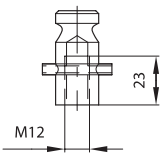

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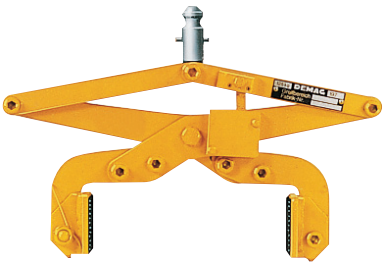

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Available options include: devices for supplying compressed air to suction pads for rapid load deposit and safety circuits and underpressure reservoirs to maintain the suction energy in the event of a power failure.

37355-3

Magnet load handling modules
The range of magnet load handling modules comprises

- DPMN compact permanent magnets, suitable for flat and round materials, operation independent of the mains
- DBM 34/68 rectangular battery magnets, operation independent of the mains
- R15–30 electro-magnets, round single magnets with outstanding power, with integrated rectifier and switch as standard
- Contour magnets with movable pole fingers that automatically adapt to the outline of loads with uneven surfaces


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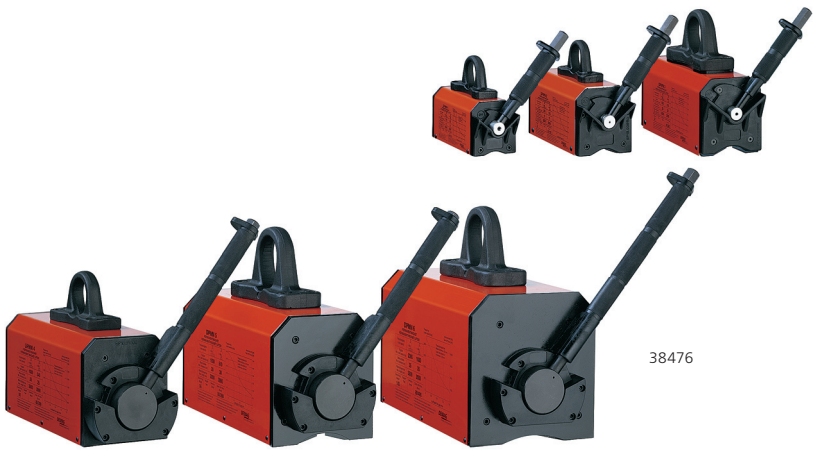
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Pillar and wall-mounted slewing jib cranes

High load capacity, large outreach

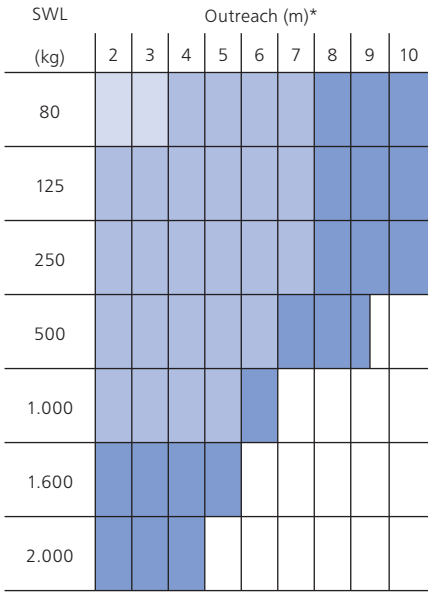
Pillar and wall-mounted jib cranes help to cut setting up and idle times and reduce unnecessary waiting times.
With a wide range of sizes and designs, these cranes can be adapted to provide the optimum solution for the most varied requirements in terms of load capacity, slewing range, outreach and features – even including cranes with two jibs.

The main characteristic of all variants is the low jib deadweight and correspondingly large outreach and high load capacity.

Our jib cranes are normally supplied complete with the electrical equipment and hoist including the corresponding trolley, however, also without these components if required. Parts are also available to anchor the mast to foundations or existing workshop floors.

Pillar-mounted slewing jib cranes
Pillar-mounted jib cranes with a slewing angle of up to n x 360° can be installed almost anywhere. They are completely

Pillar-mounted jib cranes
For operation with chain hoists Slewing range 270°/300°



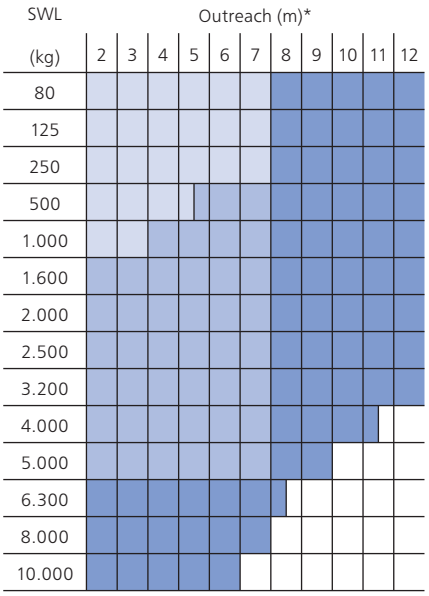
* Intermediate lengths possible

Type KBK 100 – slewing range = 270°.
Specification to H2B3.
See technical data sheet 201 936 44.

Type KBK I/II – slewing range = 300°.
Specification to H2B3.
See technical data sheet 201 936 44.

Type D-AS 270 – slewing range = 270°.
Specification to H2B2.
See technical data sheet 203 502 44.

Pillar-mounted jib cranes
Slewing range n x 360°



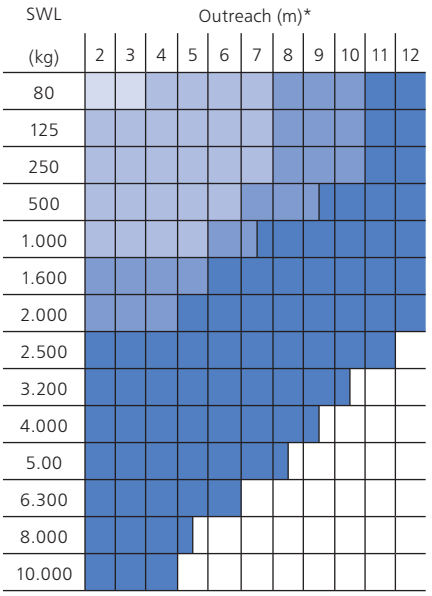
* Intermediate lengths possible

Type D-GS 360 – Manual slewing.
Specification to H2B2.
See technical data sheet 203 502 44.

Type D-TS 360 – Manual slewing or with electric slewing drive. Specification to H2B2.
See technical data sheet 203 502 44.

Type D-MS 360 – Manual slewing or with electric slewing drive. Specification to H2B3.
See technical data sheet 203 502 44.

Wall-mounted jib cranes
For operation with chain hoists Slewing range 180°/270°



* Intermediate lengths possible

Type KBK 100 – Manual slewing.
Slewing range = 270°. Specification to H2B3.
See technical data sheet 201 937 44.

Type KBK I/II – Manual slewing.
Slewing range = 270°. Specification to H2B3.
See technical data sheet 201 937 44.

Type D-AW 180 – Manual slewing.
Slewing range = 180°. Specification to H2B2.
See technical data sheet 203 502 44.

Type D-GW 180 – Manual slewing or with electric slewing drive. Slewing range = 180°.
Specification to H2B2. See technical data sheet 203 502 44.

free standing and are ideal as workplace cranes as well as for outdoor storage areas, for loading ramps and for workshops in which other handling equipment cannot be used for structural reasons.

The mast requires only a minimum footprint. Even where only little headroom is available, pillar-mounted jib cranes provide maximum hook paths.

Wall-mounted jib cranes
Wall-mounted jib cranes require no floor space as they are mounted on load-bearing concrete walls or pillars or machinery and installations.

Thanks to the braced design, the jibs of KBK wall-mounted slewing cranes have a low deadweight and can be easily moved with the load by hand.


DEMAG
KP 07
KP 06
KP 05
JUNGHEINRICH

Fax service

+91 20 66527700

Demag Cranes & Components (India) Pvt. Ltd.
Demag Centre, S-255/2, Hinjewadi,
Pune - 411057, India

Please send an offer/the information to:

Company _____

P.O. Box/Street _____

Town/post code _____

For attention of _____

Telephone/extension _____

Fax _____

E-mail _____

Project engineering for KBK installations

I am interested in:

- ☐ Suspension monorails
- ☐ Single-girder suspension cranes
- ☐ Double-girder suspension cranes
- ☐ Manipulator cranes (KBK ergo)
- ☐ Overhung cranes (KBK ergo)
- ☐ Extending cranes (KBK ergo)
- ☐ Pillar-mounted jib cranes
- ☐ Wall-mounted jib cranes
- ☐ Stacker cranes
- ☐ Portal cranes
- ☐ Crane runway support structures

I require:

- ☐ Consultation by telephone
- ☐ Offer
- ☐ Detailed information on _____

Details of the planned installation:

Weight of the load _____ kg

Description of the load _____

Workshop dimensions

Width _____ mm

Height _____ mm

Monorail length _____ mm

Crane runway length _____ mm

Crane girder length _____ mm

Manipulator crane outreach length _____ mm

Overhung crane overhang length _____ mm

Extending crane intermediate girder length _____ mm

Pillar-mounted crane jib length _____ mm

Wall-mounted crane jib length _____ mm

Required hook path _____ mm

Additional information: _____

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