



ABUS 25t/5t ¹



ABUS 16t ²



ABUS 12t ³

SIEMAS
TECBERG

OVERHEAD TRAVELLING CRANES



High-level material handling
for safe and economical lifting
of heavy loads of up to 120 t.

ABUS
CRANE SYSTEMS



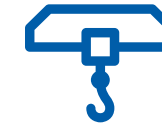
ABUS OVERHEAD TRAVELLING CRANES

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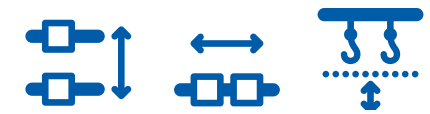
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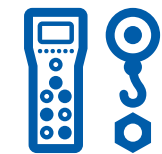
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ABUS overhead travelling cranes

THE SOLUTION FOR DIFFICULT TASKS.

ABUS overhead travelling cranes can lift, move and lower loads of up to 120 tonnes. Five main types are available: these include single-girder travelling cranes, double-girder travelling cranes for heavy-duty work and wide spans and underslung travelling cranes for buildings with special conditions.

In addition, we offer single-girder wall travelling cranes and single-girder semi-goliath cranes, installed on a separate crane track beneath the other types in order to optimise material handling.

Single girder travelling cranes | double girder travelling cranes | underslung travelling cranes
wall travelling cranes | semi-goliath cranes

AT A GLANCE

Mainly for area-coverage
material handling within
buildings

Comprehensive standard
and optional equipment to
suit individual applications



Load capacity
up to

120 t

Span
up to

42 m

CONSULTATION OPTIONS



Why a consultation with ABUS makes the difference

Whether it's a straightforward lifting task or a more involved arrangement – each application is different. We at ABUS Crane Systems know this and are happy to help find the optimal solution for you. Ergonomic as well as cost-effective, adapted to your application. Let us advise you. ABUS Crane Systems: the only point of contact you need.



Consultation with ABUS Personalised solutions for your crane installation

Our consultation begins with a detailed examination of your building conditions. Whether it's a straightforward or involved lifting application, we develop ergonomic and cost-effective designs tailored precisely to your needs. Whether it's skilled consultation from our locally-based site engineers or expert planning from our Estimating team at Head Office, we offer you fast and reliable solutions from the planning stage right through to implementation.

Consultation in the KranHaus Experience technology live

See crane and lifting technology up close over a 1600 m² area. Find out for yourself how high-quality and easy to use our ABUS systems are. We also offer seminars on operation, maintenance and repair in our crane workshop and adjacent training rooms. Visit us – we're delighted to help you plan your visit

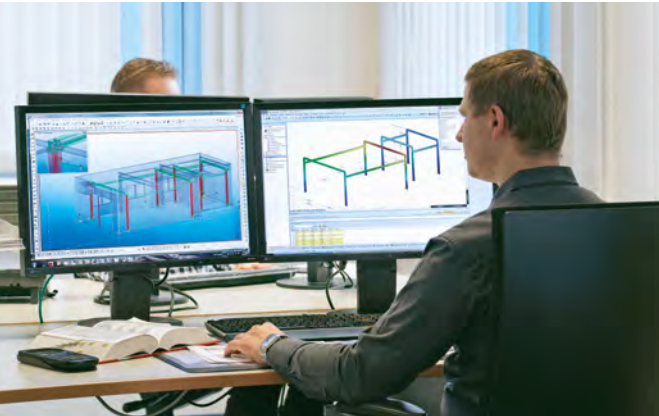


Consultation with ABUS DirectService Fast, reliable, around the clock

Whether it's for an emergency or precautionary maintenance, our 24/7 service is there for you and ensures maximum availability for your crane systems. We guarantee minimal downtimes and maximum efficiency thanks to readily available spare parts and strong logistics. We also provide you with comprehensive service documentation, technical data and drawings so you can have all the important information within reach at all times.



LIFTING SOLUTIONS FROM ONE SOURCE: CRANE SYSTEMS AND SUPPORT STEELWORK "MADE IN GERMANY"



Engineering – good, detailed planning

You tell us your requirements – we supply the required crane solution. If standard solutions don't quite fit the bill, we will develop an individual, tailored crane installation. Our computer-assisted planning ensures precision from analysis through to product manual and forms the basis for a clear, coherent solution.



Delivery – everything from one source

With ABUS you get everything from a single source. The overhead crane with its hoists and any requested support gantry steelwork are produced in parallel and delivered at the same time, eliminating the need for additional planning. We make sure that everything runs smoothly and your project is implemented on time.



Production – precision every step of the way

We produce ABUS crane systems with the utmost precision and to the latest standards at our production facilities in Gummersbach; Germany. We can guarantee quality and a timely delivery thanks to the latest technology and flexible production operations. Your cranes will be thoroughly checked down to the last detail for maximum reliability and service life.



Installation – our experience: your safety

You can rely on our experience of installation and commissioning work. We take care of planning, installation and statutory tests. We have over 40 service points available around the clock to ensure your crane installation works as it should.



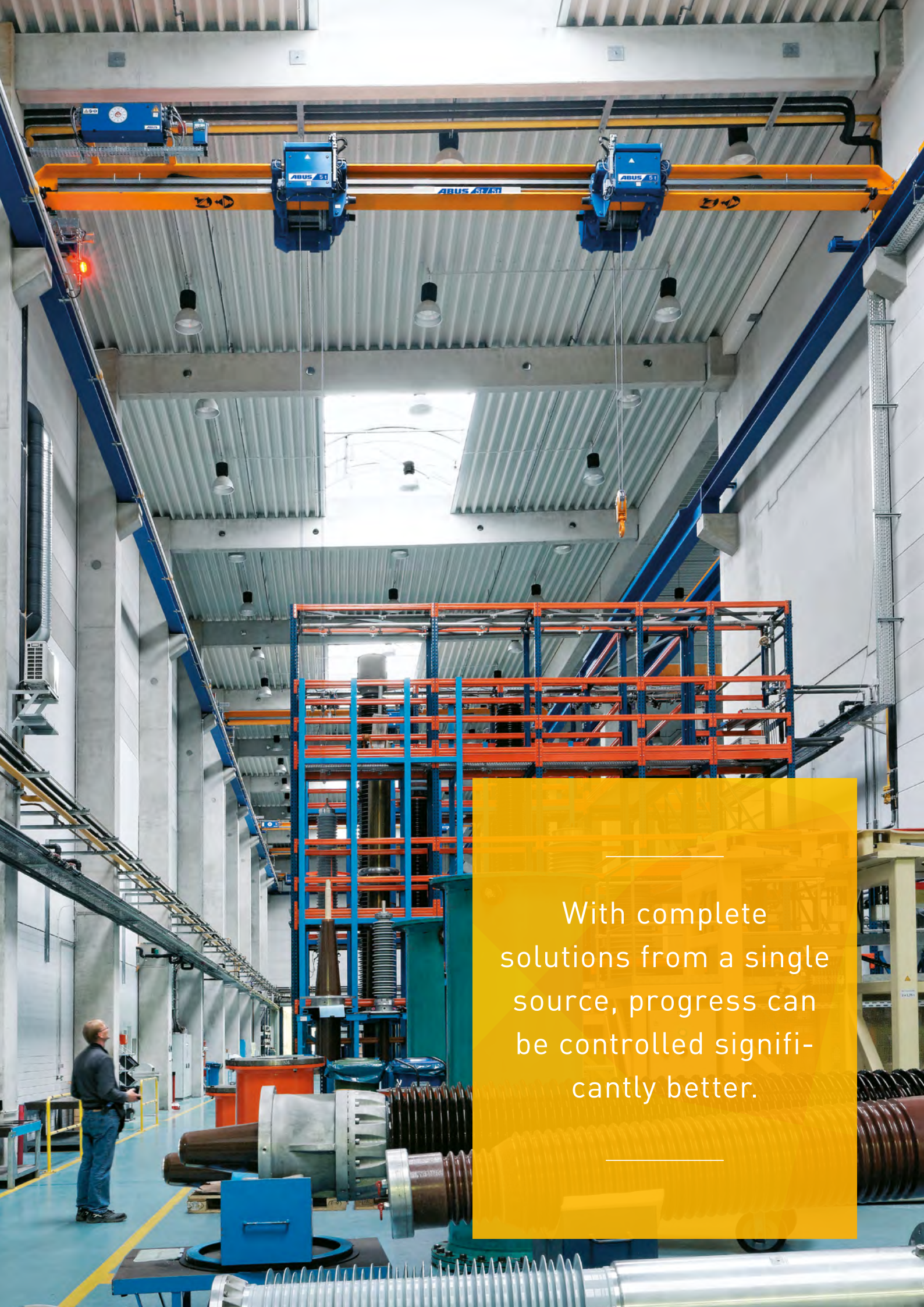


WE PROVIDE THE FULL SERVICE

Crane installation

ABUS is one of Europe's leading crane manufacturers, offering customers tailor-made solutions for efficient material handling and individual service from design through to maintenance. ABUS has been ensuring high quality and precision right down to the smallest component for more than five decades now. ABUS crane systems cover the entire load range up to 120 t and can easily be adapted to any workspace configuration or application.

The wide range of accessories available means that ABUS cranes are ideally suited for special applications. They are highly versatile and extremely reliable and have a number of features which by no means all manufacturers offer as standard equipment. Whether you need lifting, lowering, linear handling or area coverage, ABUS cranes help you keep everything under control.



With complete solutions from a single source, progress can be controlled significantly better.



OVERHEAD TRAVELLING
CRANES

ABUS overhead travelling
cranes are designed for han-
dling loads of up to
120 tonnes and are therefore
the ideal solution for heavy
lifting and wide spans.



PRODUCT RANGE

Type	Figure	Load capacity up to	Max. span/ jib length (depending on load capacity)
ELV single-girder travelling crane with rolled section girder		10 t	18.5 m
ELK single-girder travelling crane with welded box girder		16 t	29.5 m
ELS single girder travelling crane with top-running hoist see from page 12 onwards		10 t	38.5 m
ZLK double-girder travelling crane with welded box girder see page 16		120 t	42 m
DLVM underslung travelling crane with rolled section girder and welded main girder connection		3.2 t	14 m
EDL underslung travelling crane with rolled section girder and bolted main girder connection		8 t	17.5 m
EDK underslung travelling crane with box girder and bolted main girder connection see page 20		8 t	25 m
EWL single girder wall travelling crane with welded box girder see page 22		5 t	12 m
EHPK single-girder semi-goliath crane with welded box girder see page 24		10 t	15 m

MAKE EASY WORK OF HEAVY LOADS



Single girder overhead travelling crane with rolled section girder and standard main girder connection version 3

ABUS ELV and ELK single girder travelling cranes

The ABUS single girder overhead travelling crane – our flexible crane for practically any application. It allows for efficient material handling with load capacities of up to 16 t and spans in excess of 29 m, even in facilities with low ceilings. With a

minimal safety clearance between top of crane and factory roof, and the compact dimensions of ABUS crane girders, it is possible to make full use of the available height and to avoid the expense of creating additional height in the facility building.

ELV: Single-girder overhead travelling crane with rolled section girder

Load capacity [t]	Span max. [m]
up to 5	18.5
up to 6,3	17.5
up to 8	17
up to 10	15

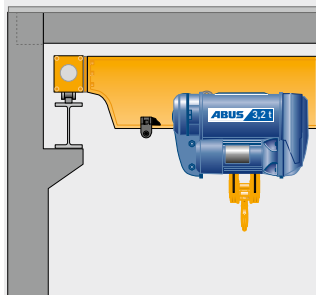
ELK: Single-girder overhead travelling crane with welded box girder

Load capacity [t]	Span max. [m]
up to 5	29.5
up to 10	27.5
up to 16	22

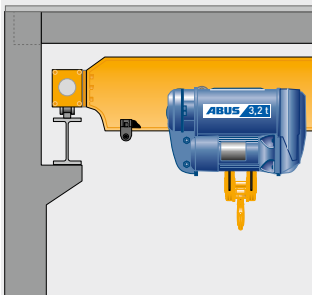


Single girder overhead travelling crane with welded box girder and standard main girder connection version 3

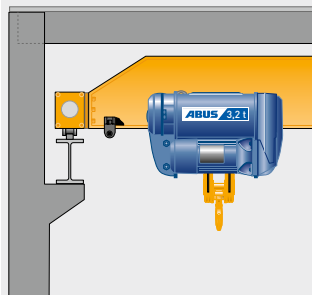
Main girder connection versions to suit individual factory conditions



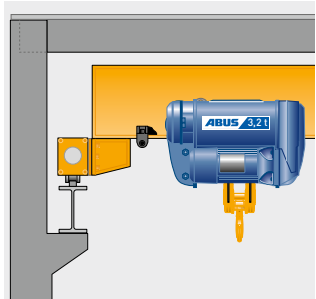
Stooped-down configuration, version 1



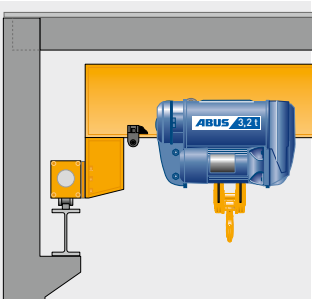
Stooped-down configuration, version 2



Standard main girder connection, version 3



Stooped-up configuration, version 4



Stooped-up configuration, version 5

MAKE EASY WORK OF HEAVY LOADS



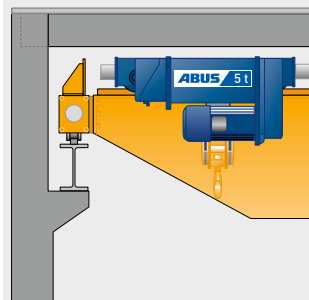
Single girder overhead travelling crane with top-running hoist, welded box girder and standard main girder connection version 3

ABUS ELS single girder travelling crane with top-running hoist

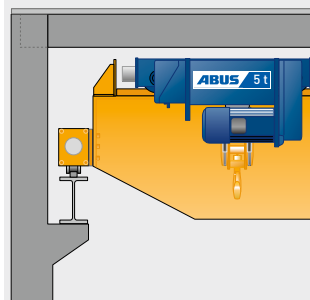
A top-running hoist allows the hoist hook to raise right up to within the crane bridge envelope. The optimised hook height and the ability to build single-girder crane bridges with a span of up to 39 m offers advantages in terms of the overall investment when compared with other crane configurations.

Load capacity [t]	Span max. [m]
up to 5	38.5
up to 8	35
up to 10	34

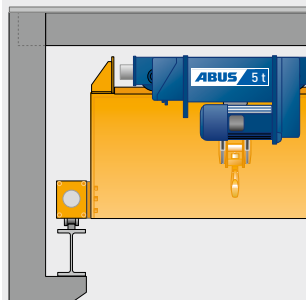
Main girder connection versions to suit individual factory conditions:



Stooped-down design version 1



Stooped-down design version 2



Standard main girder connection version 3



EXAMPLE APPLICATIONS FOR THE SINGLE GIRDER TRAVELLING CRANE



Single girder overhead travelling crane with welded box girder and standard main girder connection version 3. The ideal solution for newly built facilities: the ABUS ELK single girder overhead travelling crane with main girder chamfer adapted to suit the roof haunch. This allows for optimal use of the available height within the facility (can also be achieved with single girder overhead travelling crane ELV with rolled section girder)



Single girder overhead travelling crane ELK with welded box girder and stooped up main girder connection version 5. In specific architectural applications with structural constraints, stooped-up crane bridges offer an ideal solution (can also be achieved with the single girder overhead travelling crane ELV with rolled section girder)

EXPERT HANDLING OF CHALLENGING LOADS



Double girder overhead travelling cranes with welded box girder and standard main girder connection version 1

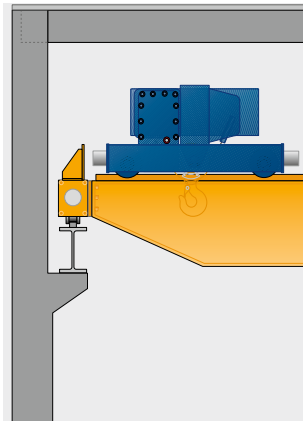
ABUS ZLK double girder overhead travelling cranes with welded box girder

ABUS double girder travelling cranes offer the highest possible load capacity, up to 120 tonnes. They are available in various designs and feature the versatility needed for special requirements. This allows for greater spans and longer hook paths, for example, as well as an expanded range of higher crane classifications.

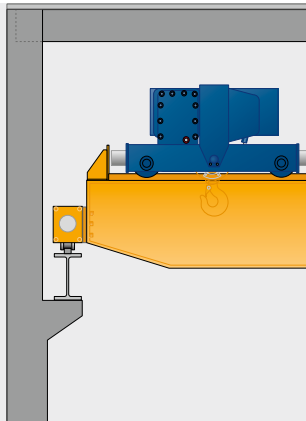
Load capacity [t]	Span max. [m]
up to 16	42
up to 40	40
up to 50	37
up to 100	30
up to 120	20



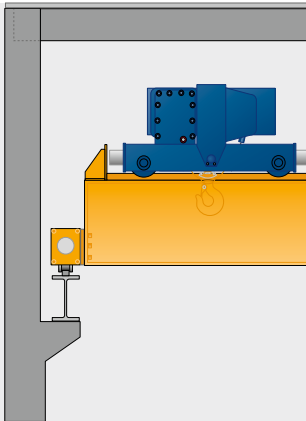
Main girder connection versions to suit individual factory conditions



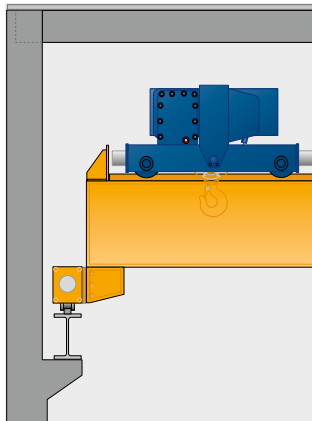
Standard main girder connection version 1



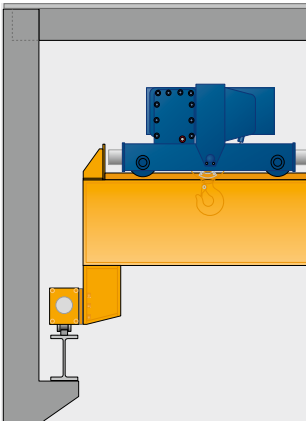
Stooped-up configuration, version 2



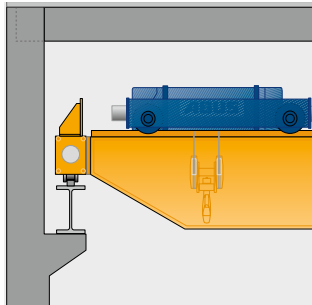
Stooped-up configuration, Version 3



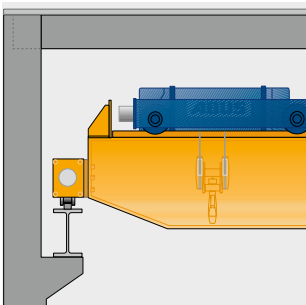
Stooped-up configuration, version 4



Stooped-up configuration, version 5



Standard main girder connections, version 1 in combination with stooped-down crab unit trolley



Stooped-up configuration, version 2 in combination with stooped-down crab unit trolley

Note:
All main girder connection versions can also be configured with wire rope-hoist design type DA (stooped-down design), DQA (stooped-down hoist design rotated through 90°), Z (twin hoist) and ZA (stooped-down twin hoist).

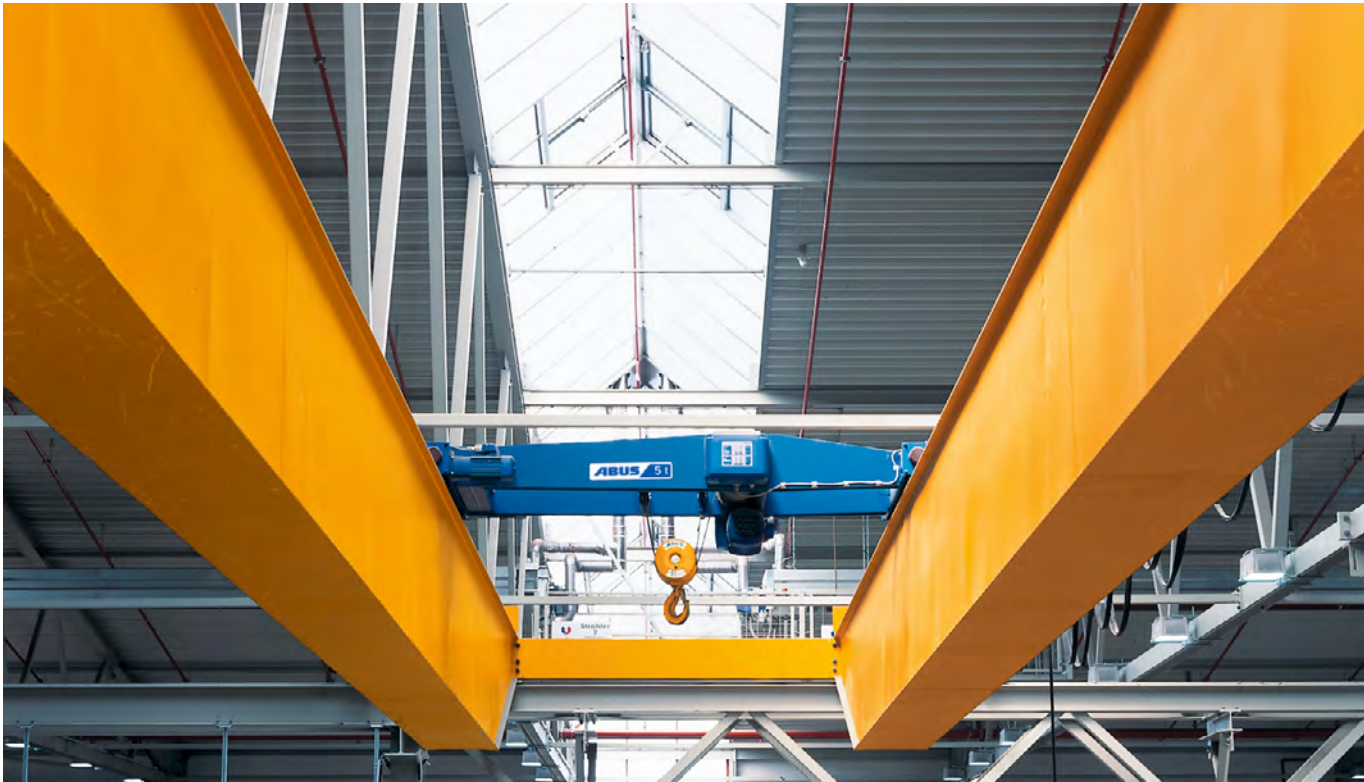
APPLICATION EXAMPLES FOR DOUBLE GIRDER TRAVELLING CRANES



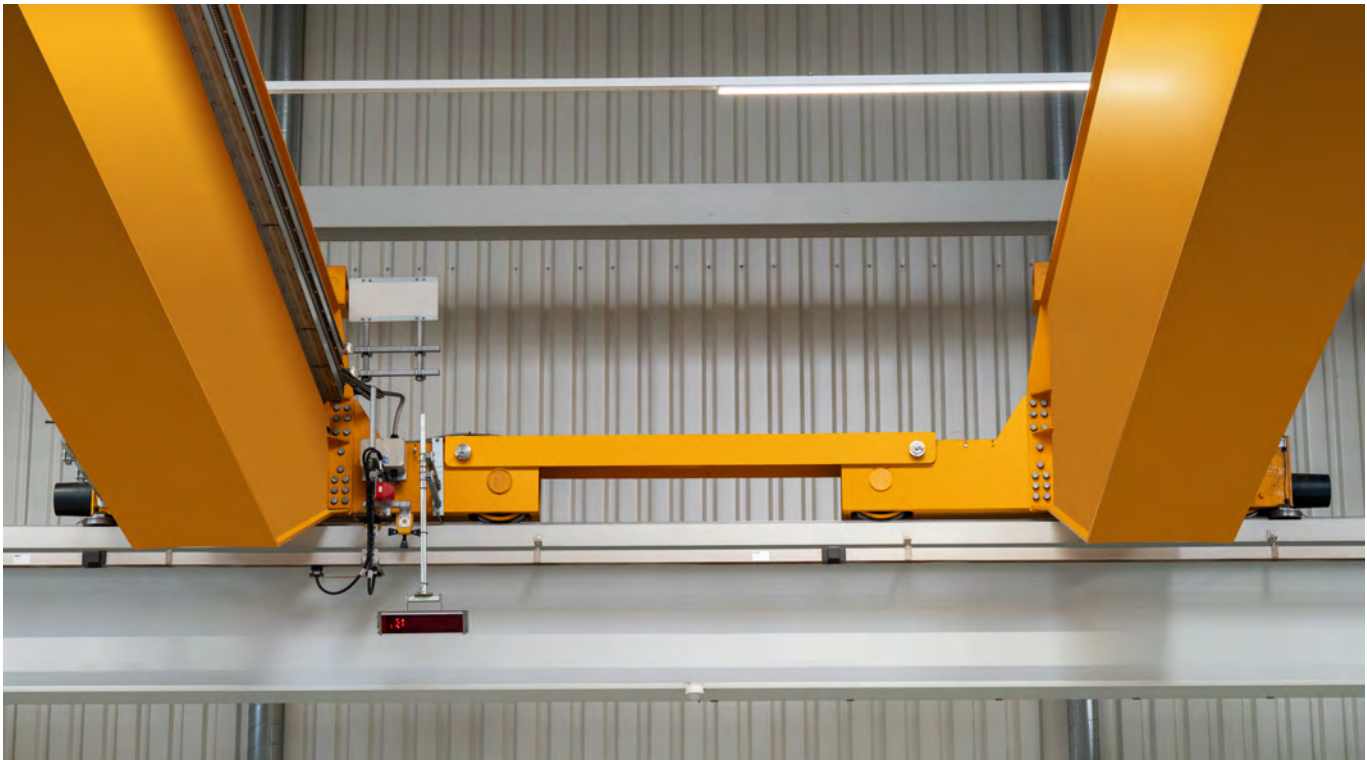
When travelling outdoors, a control circuit operated via the ABUS overhead crane controls the crane flap interlock system



When transporting long and bulky goods, two cranes working simultaneously in tandem ensure risk-free load handling



Stooled-down crab unit trolley design types allow double girder overhead travelling cranes to be installed even where there is little space above the downshop track. The higher position of the crane bridge with a stooled-down crab unit trolley may be a decisive advantage, for example when handling bulky machines or large tanks.



The end carriage may be mounted on eight wheels for even load distribution. Heavier loads can then be carried on the same crane track and the reinforcement otherwise needed in existing buildings may not be required.

PERFORMANCE UNDER SPECIAL CIRCUMSTANCES



Underslung travelling crane with electric chain hoists, a sturdy rolled section girder and main girder connection version 1

ABUS DLVM, EDL and EDK underslung travelling cranes

ABUS underslung travelling cranes offer solutions for certain applications where they can be mounted on the ceiling structure rather than on floor or wall-mounted supports. Advantageous side approach dimensions allow the optimum use of the entire width of the facility.

DVLM: underslung travelling crane with rolled section girder and welded main girder connection

Load capacity [t]	Span max. [m]
up to 3.2	14

EDK: underslung travelling crane with box girder and bolted main girder connection

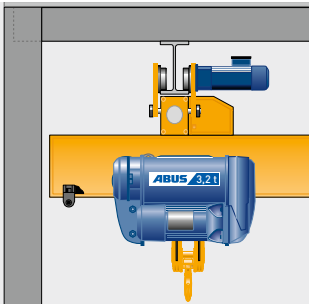
Load capacity [t]	Span max. [m]
up to 6.3	25
up to 8	13

EDL: underslung travelling crane with rolled section girder and bolted main girder connection

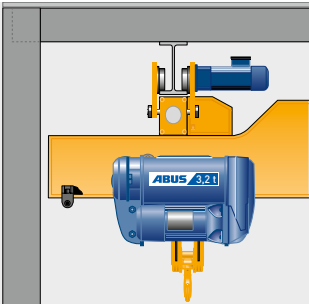
Load capacity [t]	Span max. [m]
up to 5	17.5
up to 6.3	17
up to 8	29.5



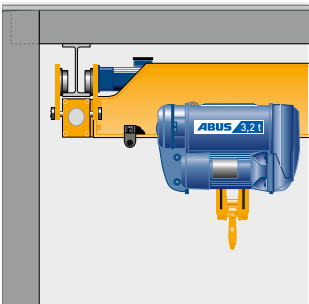
Main girder connection versions to suit individual factory conditions



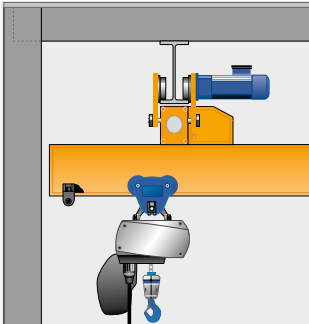
Standard main girder connection, version 1 with electric wire rope hoist (variable cantilever for minimal side approach)



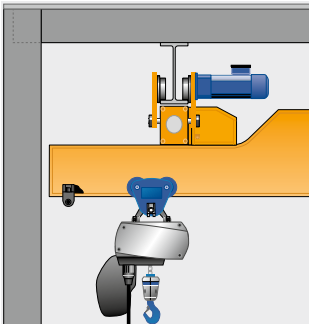
Standard main girder connection, version 1 with notched girder and electric wire rope hoist (variable cantilever for minimal side approach)



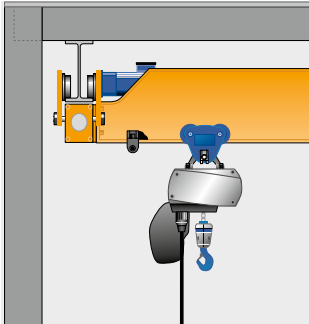
Stooled-up configuration, version 2 with electric wire rope hoist (optimised hook height without crane girder cantilevers)



Standard main girder connection, version 1 with electric chain hoist (variable cantilever for minimal side approach)



Standard main girder connection, version 1 with notched girder and electric chain hoist (variable cantilever for minimal side approach)



Stooled-up configuration, version 2 with electric chain hoist (optimised hook height without crane girder cantilevers)



Underslung travelling crane with electric chain hoist, a sturdy rolled section girder and main girder connection version 1

FIRST CLASS ON THE SECOND LEVEL



EWL single girder wall travelling crane with electric wire rope hoist

ABUS EWL single girder wall travelling crane

The ABUS single girder wall travelling crane is designed for operation on a lower level beneath a large overhead travelling crane. These cranes provide additional handling possibilities and ensure smooth and trouble-free material handling between different working areas. Using rectangular coordinates, it can serve multiple workstations. The ABUS single girder wall travelling crane is available for load capacities up to 5 t with track lengths up to 12 m.

Load capacity [t]	Max. jib length [m]
up to 5	12



With two hoists in tandem operation, an ABUS EWL single girder wall travelling crane can also be used for the precise positioning of long loads.



A POWERFUL ASSISTANT AT THE SECOND LEVEL



Single girder semi-goliath crane with electric wire rope hoist

ABUS EHPK single girder semi-goliath crane

The ABUS single girder semi-goliath crane is the ideal workstation crane for use on a level below the main overhead cranes. Like the ABUS single girder wall travelling crane, thanks to its rectangular travel-coordinate system, it is able to serve multiple adjacent workstations. The ABUS single-girder semi-goliath crane is available with a load capacity of up to 10 tonnes and a span of up to 15 m. The torsion-resistant and rigid box-girder design allows for travel without lateral guiding of the portal support on the floor of the building. The lower trolley runs

either directly on the level, load bearing floor of the building or, in the case of higher wheel loads, on a load bearing steel track embedded flush into the floor of the building. There is no need for a raised or recessed guide rail and the associated obstructions. Lift-off prevention devices on the upper crane trolley come as standard on the EHPK, as do obstacle detection sensors and highly visible beacon lights at floor level.

Load capacity [t]	Span max. [m]
up to 5	15
up to 10	10



Guide rollers on the upper end carriage are fitted as standard



Obstacle detection sensors on the lower end carriage are fitted as standard and no guide rails are needed at ground level



Highly visible beacon lights at floor level



Vulkollan wheel directly on the floor of the building

STANDARD EQUIPMENT ON ABUS OVERHEAD TRAVELLING CRANES AN EXEMPLARY STANDARD



ABUS quality – right down to the last detail

Even with their standard equipment, ABUS overhead travelling cranes offer an exceptionally high standard of performance. These features make ABUS cranes especially safe and reliable and allow precise adaptation to the customer's individual needs. Like the cranes themselves, each of these components meets stringent quality requirements and has been thoroughly tested.



Motor circuit breaker

Motor circuit breakers offer additional safety for cranes with ABUS wire rope hoists by limiting the thermal load on long and cross travel motors in two-phase and severe inching operation and when the drive system is blocked. After the circuit breaker has been tripped, there is no need to replace a fuse before restarting the hoist or crane.



ABUS plug-in connections

ABUS plug-in connectors ensure easy and reliable contact. They are already preassembled and reduce repair and maintenance times to a minimum. Using these connectors, hoists, geared motors and control units can be connected up quickly and easily without the assistance of an electrician.



ABUS contactor control

ABUS contactor control panels bring together all the control signals. These systems feature modular design for maximum versatility and easy adaptation to customers' requirements. Interfaces to the main items of optional equipment (radio remote control, signal horn, limit switches, anti-collision devices, etc.) are preinstalled ready for connection. The clear configuration with ducted wiring makes maintenance work easier. Timer relays prevent unwanted inching activation. Generously proportioned power contactors ensure a long contact life.



Radio remote control

Gives crane operators greater freedom of movement, allowing them to choose the position that gives the best view of their entire working area and effectively save time. The system can be controlled either using a joystick controlled transmitter or the compact push-button transmitter with inductive charging station.



Illuminated display

The illuminated display provides information about the selected settings, active cranes and hoists, the strength of the radio signal and the battery charge level. The user can see the operating mode of the crane at a glance thanks to the colours on the display. And of course, if a load indicator system is installed, they can see the weight of the load that they have on the load hook. The net weight can even be provided if desired.



ABUS load indicator system

The ABUS load indicator system features a comprehensive range of switching and monitoring functions. The system is characterised by its quick reaction times, which are required for load detection, for example. This ensures that ABUS wire rope hoists can be easily protected from excessively high loads. The measurement principle allows the load on the hoist to be limited without reducing the lifting height available.

The main functions include:

- overload protection
- part-load switches
- operating hours meter
- current monitoring for motor protection
- redundant circuitry for additional safety
- mains power and fault diagnostics
- regenerative braking to reduce wear on brakes
- load population recorder
- reading the values from the load population recorder



ABUS ADDITIONAL EQUIPMENT: THE BEST FOR PERSONALISED SOLUTIONS



With the comprehensive range of accessories offered by ABUS, every ABUS overhead travelling crane can be precisely adapted to the customer's requirements, ensuring optimum performance. The range includes additional safety devices and equipment for additional functions such as electric limit switches and integrated load evaluation, and special add-on components such as crane lighting or weighing scales integrated into hoist bottom blocks.



Tandem control system

The ABUS tandem control system allows the crane operator to control two electrically coupled travelling cranes at the same time. Ideally ABUS radio remote controls will be used for this. With this control configuration, two crane operators can control the two cranes separately, or one operator can control both cranes, either separately or together. When transporting long loads, the use of two cranes vastly increases safety.



Load lifting attachment

ABUS also offers solutions for preparing load lifting attachments on overhead travelling cranes. For example, ABUS cranes can be prepared to be fitted with vacuum lifting units for lifting plates or with C-hooks for handling coils.



Lateral guide rollers

For more precise guidance of the crane along its track. The forces acting on the crane runway are reduced, thereby minimising wear on the rail and reducing the horizontal load on the tracks.



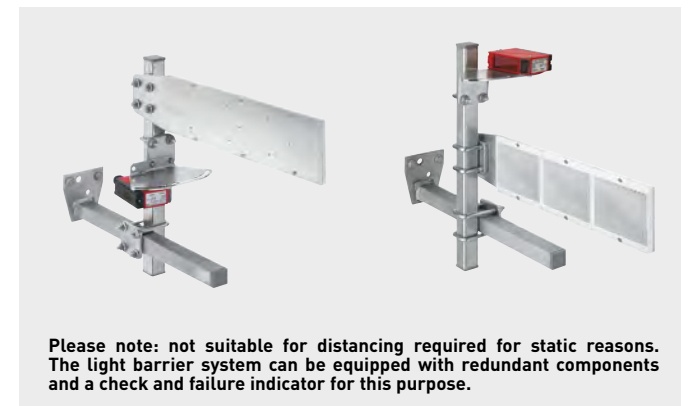
Crane lighting

Designed to perfectly illuminate the working area beneath the crane. They also prevent shadows, which can be cast by the crane girder under normal facility lighting conditions. ABUS uses highly efficient, energy-saving LED lights. The number of lights and the light intensity are determined by the customer's requirements.



Anti-collision devices

The anti-collision device protects cranes by means of a photoelectric distance measurement system which prevents accidental collision. Automatic switchover to a lower speed as the two hoists approach each other is a standard feature. A shut-down function can be incorporated. ABUS can also supply collision prevention devices designed to maintain a specified minimum spacing and other special designs.



Anti-swing feature during two-speed operation ¹⁾

Anyone wishing to transport sensitive goods or heavy loads with maximum precision can rely on the ABUS pole-changeable system, now enhanced with the AZS soft-start device and the SU-2 smooth switching relay. These electronic components allow the crane operator to use the adjustable acceleration characteristics and improved deceleration behaviour for smooth long and cross travel as an alternative to using a frequency converter.



Infinitely variable motion ¹⁾

by means of a frequency converter is a convenient solution for all applications in which hoists need to be equipped with variable lifting speeds for particularly precise positioning. The frequency converter also allows the maximum lifting speed to be increased above the rated speed when lifting part/reduced loads. The frequency converter can also be used for long and cross travel.

¹⁾ see page 31 "Overview of ABUS drive technology"

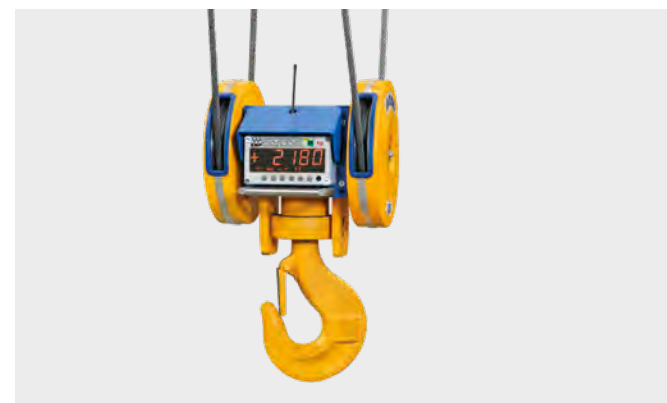


ABUS ADDITIONAL EQUIPMENT: THE BEST FOR PERSONALISED SOLUTIONS



LED matrix display

The LED matrix display with three different digit sizes (60 mm to 180 mm) can display numbers, letters and special characters at a reading distance of up to approx. 80 m. Thanks to its compact design, it can be mounted on the crane in various positions. Crane status displays and running text can also be implemented.



Calibrated weighing hook

Knowing what is hanging on the hook is important for many crane operators: weighing goods and invoicing them to customers, loading trucks, charging production plants with weighed material, complying with safety regulations for loads or determining the weight of containers - the ABUS weighing hook block is often the economically advantageous solution. It is a digital commercial scale of accuracy class III with EU approval from the German National Metrology Institute. The crane scale is calibrated and delivered ready for operation. The weighing electronics consist of modern SMD technology in a robust industrial design. The weighing module integrates optimally into the bottom block of ABUS wire rope hoists



Preparation of crane to suit customers' existing vacuum beam

As part of its production process, a crane can be prepared to interface with a customers' existing vacuum beam, by fitting a power supply as well as fuses and connections in the crane and hoist control panels. This preparation also consists of a spring cable drum and full CEE plug-in connection on the bottom block.

Further information about additional equipment can be found online at:



ABUS DRIVE SYSTEMS AT A GLANCE: LONG AND CROSS TRAVEL FAST, SMOOTH, INFINITELY VARIABLE



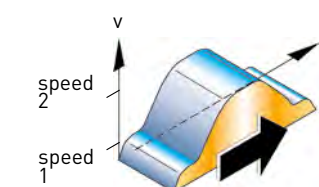
ABUS users have great confidence in our two-speed cross and long travel motion drives, designed for push-in installation and featuring permanently lubricated gear units. The quick plug-type connectors used make it easy to connect the units up following maintenance work. This system solution is ideal for

the vast majority of applications. However, customers handling highly sensitive goods or with precise positioning requirements can have smooth starting modules or ABUliner frequency converters fitted to their systems. This section explains the advantages of the three systems.

EXPLANATION OF DRIVE SYSTEMS – WITH COMPARISON GRAPHS

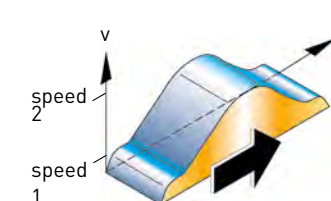
Two-speed operation

ABUS central drive systems with cylindrical-rotor induction motors require no maintenance and are easy to repair. As the name suggests, two-speed motors provide two speeds, with a ratio of 4:1 between fast and slow speed (the speeds available are 20/5; 30/7.5; 40/10; 50/12.5 and 60/15 m/min). High-resistance rotors and optimized flywheels ensure smooth starting. The ABUS SU-1 smooth switching relay selects the optimum timing for smooth switchover of all motors from main to creep speed. Soft, durable disc brakes make for smooth braking. Depending on the load on the system, acceleration and deceleration values are between 0.08 and 0.25 m/s². The central drive system is designed for push-in installation and the gear unit features permanent lubrication. Quick plug-type connectors are used for electrical connection.



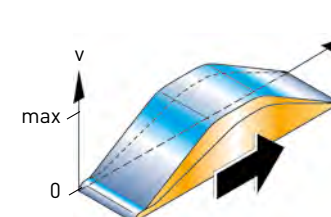
Two-speed system with AZS and SU-2

The AZS electronic smooth starting unit operates on the principle of generalized phase control. During start-up, the voltage rises over a two-stage time ramp, gradually increasing the motor torque until the full value is reached. Start-up torque and the starting ramp can be adjusted separately to meet the requirements of individual applications. When the motor is switched from fast to slow speed and from slow speed to stopping, the SU-2 smooth switching relay switches off one phase, cushioning the surge of regenerative braking. A patented process is used, allowing the relay to detect the ideal timing for switching back to full torque. No adjustment of the system is required.



ABUliner frequency converter

The ABUliner is a microprocessor controlled voltage link converter of fully digital design. This design ensures reproducible, reliable presetting and adjustment. As a general principle, it is possible to set constant acceleration and deceleration ramps. The motor is accelerated through a ramp of constant gradient. Acceleration and deceleration are almost unaffected by the load on the system. In addition, the ramp gradient can be set as a function of the load. This control system allows the use of higher acceleration and deceleration values in part-load operation than with a full load. Any speed which has been reached can be maintained.



ABUCONTROL:
LIFTS CRANES TO A WHOLE NEW LEVEL



Travel and hoist profiles

Travel profiles can be used to adapt ABUS cranes to your application. Cranes with two fixed speeds move in a completely different way to cranes controlled by frequency converter, for example. Travel and hoist profiles allow cranes to be adapted to your current or required situation. This means your crane operators no longer have to adjust existing cranes and they are more likely to notice the increased productivity brought about by the additional crane system.

Sway control

The ABUS sway control increases safety and convenience during transportation of goods in sensitive areas. Sway control is based on mathematical calculations. Travel speeds, acceleration and deceleration of crane and hoist, the hook position and length of the load lifting attachment are taken into account. Even persons who rarely operate cranes can transport loads more safely with the aid of the sway control feature.

Synchronisation control

The ABUS synchronisation control of two hoists on one crane makes the safe handling of long products possible. Divergence of lifting speeds is prevented effectively through constant regulation even where different wire rope hoists are used. This is only possible if the crane is equipped with a frequency converter on the lifting motions. The travel speeds of cranes which run in tandem can also be regulated. Two cranes and a maximum of four hoists, all regulated.



Key data at a glance

Operating data, settings, service information. Thanks to the cutting-edge KranOS interface, you can keep tabs on the crane. For wireless use with any laptop or tablet with browser. Speeding up regular annual inspections into the bargain.



Simple maintenance and repair

ABUControl relies on tried-and-tested freely available components from renowned electronics manufacturers. Replacement or repair requires neither "specialist knowledge" nor "software licences". You remain in complete control of the crane at all times and have a free choice of service partner. ABUControl - a unique promise for simple maintenance and repairs.

For further details about ABUControl, see the following website:



ADDITIONAL EQUIPMENT

Overview of option compatibility for additional equipment

Function / Functional unit	Additional equipment	Possible for the following types									Page
		ELV	ELK	ELS	ZLK	DLVM	EDL	EDK	EWL	EHPK	
ABUControl		X	X	X	X	X	X	X	X	X	32 + 33
CEE connector on load hook	for power supply to customer's load lifting attachment	X	X	X	X	X	X	X	X	X	30
Replacement transmitter	for ABURemote radio remote control	X	X	X	X	X	X	X	X	X	-
Crane lighting	via LED lamps	X	X	X	X	X	X	X	X	X	29
Crane distancing system	to protect the crane track from overload	X	X	X	X	X	X	X	X	X	-
LED matrix display on crane/hoist	with text height of 60 mm, 120 mm or 180 mm Standard setting 60 mm on the crane with ABUControl	X	X	X	X	X	X	X	X	X	30
Anti-swing device	during two-speed operation via soft-start and soft-switching device	X	X	X	X	X	X	X	X	X	29
Rain covers	for hoists and drives	X	X	X	X	-	-	-	-	-	-
Lateral guide rollers	to reduce lateral running forces	X	X	X	X	-	-	-	-	-	28
Infinitely variable motion	Long travel Standard equipment with ABUControl	X	X	X	X	X	X	X	X	X	29
	Cross travel Standard equipment with ABUControl	X	X	X	X	X	X	X	X	X	29
	Lifting/lowering	X	X	X	X	X	X	X	X	X	29
Tandem control system	for crane and/or hoist	X	X	X	X	X	X	X	X	X	19 + 28
Preparation for customer's load-lifting attachment	e.g. C-hooks for transporting coils, vacuum lifting unit, etc.	X	X	X	X	X	X	X	X	X	28 + 30
Crane scale integrated into bottom block	for calibrated weighing of goods	X	X	X	X	X	X	X	X	X	30
Anti-collision devices	between cranes and hoists	X	X	X	X	X	X	X	X	X	29
Additional control elements	e.g. crane flap interlock system	X	X	X	X	-	-	-	-	-	18
8-wheel end carriage	provides a particularly favourable load distribution	-	-	-	X	-	-	-	-	-	19

Combinations of various additional equipment may be mutually exclusive under some circumstances. We are happy to advise you on this matter.

Further information about additional equipment can be found online at:

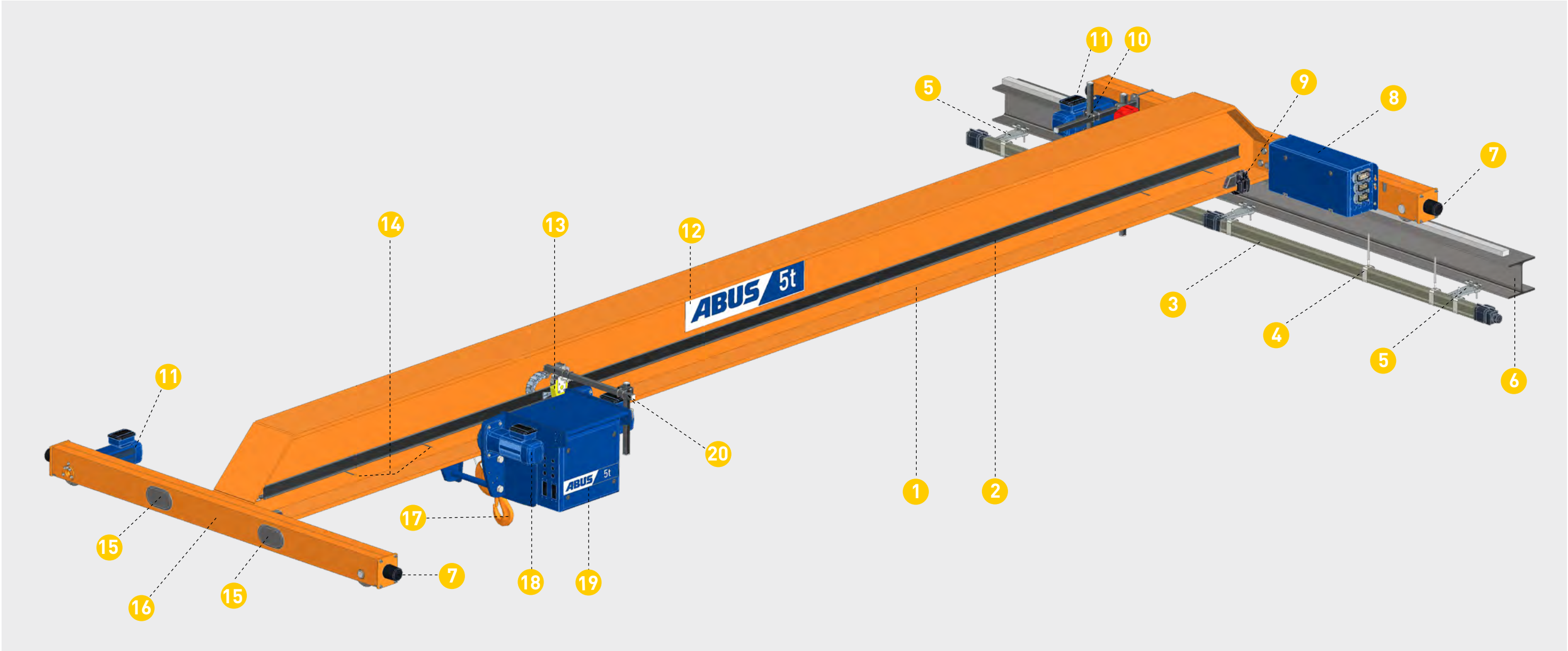


FURTHER QUESTIONS?

Please use the consultation options listed on page 6.



ABUS OVERHEAD TRAVELLING CRANE COMPONENTS



- | | | | |
|---|--|--|--|
| 1 Main girder | 7 End carriage buffer | 13 Cross travel limit switch to slow and stop | 19 Electric wire rope hoist |
| 2 "ABUPowerline" trolley power supply rail | 8 Crane panel | 14 Switching lugs for cross travel limit switch to slow and stop | 20 Mount for towing arm of cross bridge power supply |
| 3 Mains power supply via conductor system | 9 Cross travel clamping buffer | 15 Access portals for the main girder connection | |
| 4 Switching lug for the crane travel braking and shut-down | 10 Mains power carrying fork | 16 End carriage | |
| 5 Clamping console for mounting the mains power supply rail | 11 Crane travel drive | 17 Load hook of electric wire rope hoist | |
| 6 Crane downshop track beam | 12 ABUS nameplate with load capacity information | 18 Cross travel drive | |

THE QUALITY OFFERED BY ABUS IS CLEAR – AND THAT EXTENDS TO DIRECTSERVICE



ABUS DirectService offers you a range of services that is consistently tailored to the daily use of crane systems. With service offerings that can be individually selected, our ABUS service employees will provide you with a whole range of excellent benefits for ABUS cranes:

- a full range of services from consultation to the ABUS Inclusive Inspection.
- nationwide presence and cutting-edge communication technology

- rapid response times and short distances
- flexible and committed service teams
- optimal availability of original spare parts
- carefully trained staff
- a single point of contact for all questions relating to the use of ABUS crane systems



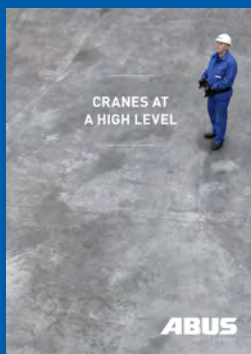
ABUS is represented in more than 50 countries throughout the world.

A convincing service in all respects.

- advice in the planning phase
- installation, dismantling and modification of crane systems
- inspection and overhaul of crane systems by local partners
- repair and maintenance
- upgrading and modernisation
- personnel training



COMPLETE SOLUTIONS FOR OVERHEAD CRANES: EVERYTHING FROM A SINGLE SOURCE AT ABUS



You can find further product information on our entire product portfolio at:
www.abuscranes.co.uk/downloads

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