



PRODUCT OVERVIEW



Overhead travelling cranes, HB light crane systems,
Jib cranes, Electric wire rope hoists, Electric chain hoists,
Lightweight mobile gantries

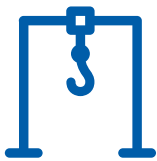
ABUS
CRANE SYSTEMS

WE MOVE



... EVERYTHING ACCORDING TO YOUR WISHES

ABUS electric chain hoists
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... HEAVY LOADS WITH EASE

ABUS mobile gantry crane
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... ALLOWS FLEXIBLE AND INDIVIDUAL PLANNING

ABUS monorail hoists and trolleys
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... LOADS OF UP TO 120 TONNES

ABUS overhead travelling cranes
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... WITH CRANES TAILORED TO YOUR APPLICATION

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... ABUS OPTIONAL EQUIPMENT

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ABU**CONTROL**

... FORWARDS THROUGH INTELLIGENCE

Modular crane control
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... FROM A TO B AND BACK AGAIN

ABUS jib cranes
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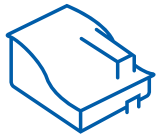
... WITH TIRELESS STRENGTH

ABUS electric wire rope hoists
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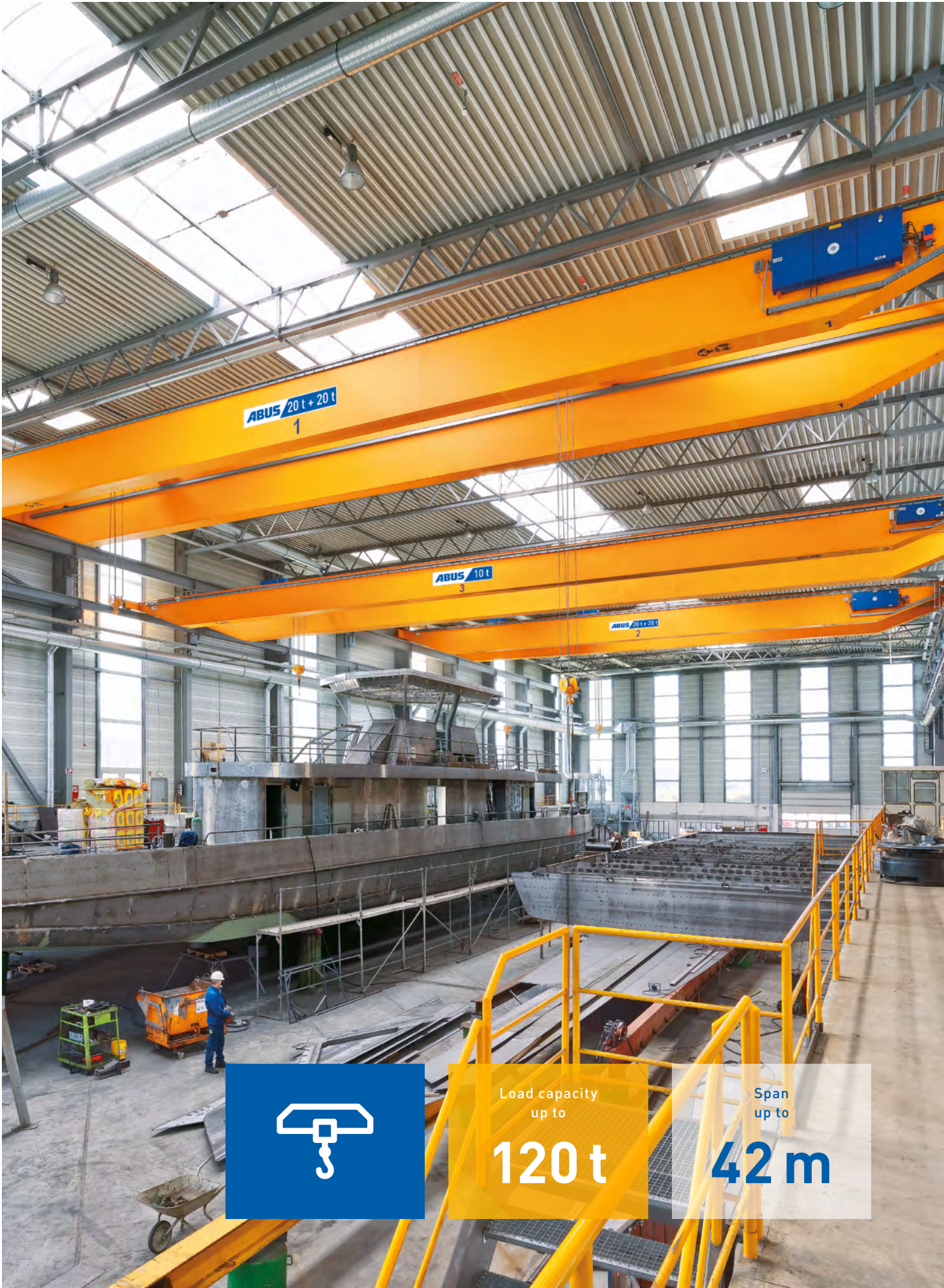
... MORE THAN JUST LOADS!

Service and installation work
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... FASCINATING INSIGHTS

ABUS KranHaus
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Load capacity
up to
120 t

Span
up to
42 m



ABUS overhead travelling cranes

THE SOLUTION FOR DIFFICULT TASKS

ABUS overhead travelling cranes can lift, handle 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 overhead travelling cranes for buildings

with special conditions. The fourth main type is the wall travelling crane whilst the fifth is the single girder semi-goliath crane, 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 overhead travelling cranes | wall travelling crane | semi-goliath cranes

AT A GLANCE

mainly for area-coverage
material handling within
buildings

comprehensive standard
and optional equipment to
suit individual applications

OVERHEAD TRAVELLING CRANES



ABUS single girder overhead travelling cranes (ELV)

Load capacity: up to 10 t
Span: up to 18.5 m
(depending on load capacity)

ELV: with monorail hoist

- wide range of connection variants for optimum adaptation to local conditions
- very high hook positions possible



ABUS single girder overhead travelling cranes (ELK & ELS)

Type:	ELK	ELS
Load capacity:	up to 16 t	up to 10 t
Span:	up to 29.5 m	up to 38.5 m
(depending on load capacity)		

ELK: with monorail hoist
ELS: with side-mounted hoist

- wide range of connection variants for optimum adaptation to local conditions
- very high hook positions possible

ABUS double girder overhead travelling cranes (ZLK)

Load capacity: up to 120 t
Span: up to 42 m
(depending on load capacity)

ZLK: with welded box girder and crab unit

- Larger load capacities, spans and hook paths possible
- Extended range for higher crane ratings



ABUS wall travelling crane (EWL)

Load capacity: up to 5 t
Span: up to 12 m
(depending on load capacity)

- installed on its own track beneath other types of overhead travelling crane
- ideal for use as a workplace crane serving several work stations



ABUS underslung overhead travelling cranes

Load capacity: up to 8 t
Span: up to 25 m
(depending on load capacity)

DLVM: for lighter loads
EDL: for heavier loads

- crane track mounted on ceiling
- the ideal solution for buildings with difficult or tight conditions
- short side approach dimensions, allowing optimum utilization of building width



ABUS single girder semi-goliath crane (box girder) EHPK

Load capacity: up to 10 t
Span: up to 15 m
(depending on load capacity)

- installed on its own track beneath other types of overhead travelling crane
- ideal for use as a workplace crane serving several work stations



ABUS light crane systems

YOU CAN ALWAYS EXTEND A REALLY SMART SYSTEM.

ABUS HB is a modular system which allows you to build up a complete tailor-made material handling solution to suit your requirements. The system can be adapted to the conditions and dimensions of almost any application and reliably mounted on a wide variety of different buildings. The main advantage of an ABUS HB system is that it can easily be extended and adapted at any time, allowing it to grow with your business.

monorail | double rail system | single girder crane EHB
stooled-up single girder crane EHB-X | double girder crane ZHB | stooled-up double girder crane ZHB-X
single girder crane EHB-I | double girder crane ZHB-I

AT A GLANCE

Flexible modular principle for individual solutions	Select from strong steel profiles and light aluminium profiles – can also be combined	Profile lengths independent of suspension points
---	---	---
For the lifting of loads up to 2 t		

ABUS LIGHT CRANE SYSTEMS



ABUS monorail
For linear point-to-point coverage
Load capacity: up to 2 t

- low headroom
- wide suspension spacing
- optional electric cross travel



ABUS EHB single girder crane
For area coverage
Load capacity: up to 1.25 t
Crane girder length: up to 10 m
(depending on load capacity)

- very light crane; ideal for use in lightweight buildings
- easy to move manually
- low headroom
- short end approach dimensions
- wide suspension spacing

ABUS double rail system
For linear point-to-point coverage
Load capacity: up to 2 t

- wide suspension spacing
- chain hoist installed between rails for improved lift height
- optional electric cross travel
- optional mobile control



ABUS EHB-X stooled-up single girder crane

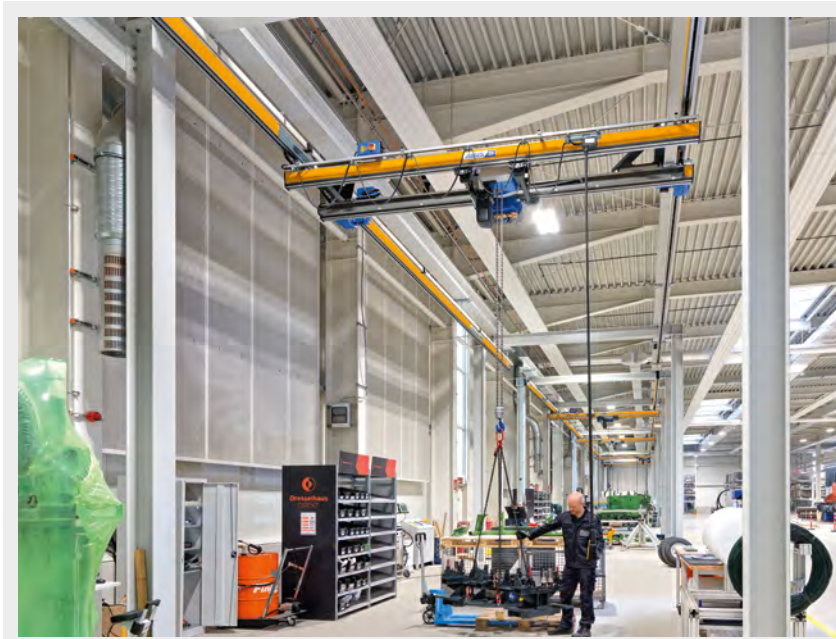
For area coverage
Load capacity: up to 1 t
Crane girder length: up to 8 m
(depending on load capacity)

- stooled up crane for optimum use of available space
- easy to move manually
- ultra low headroom
- short end approach dimensions
- wide suspension spacing
- optional electric long + cross travel
- optional mobile control





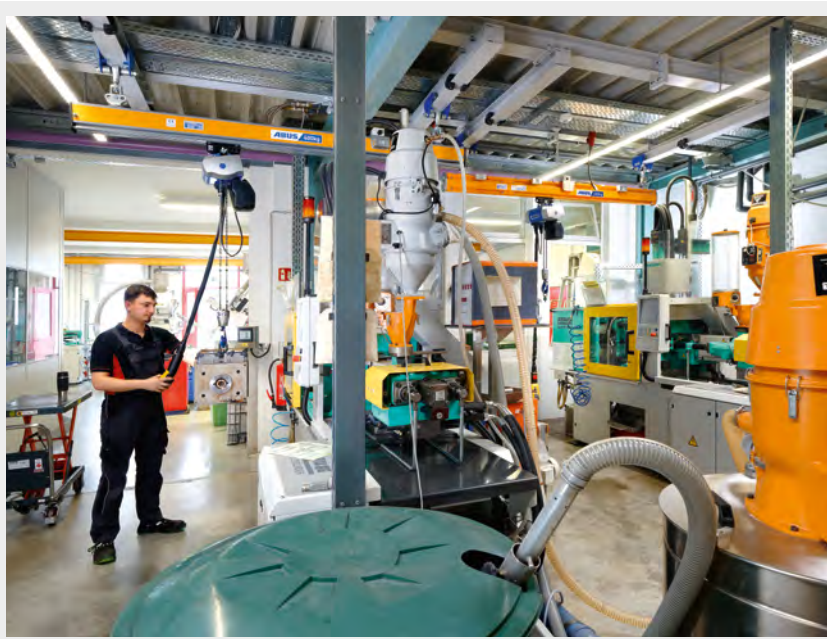
ABUS LIGHT CRANE SYSTEMS



ABUS ZHB double girder crane

For area coverage
Load capacity: up to 2 t
Crane girder length: up to 12 m
(depending on load capacity)

- chain hoist installed between crane girders for improved lift height
- very low headroom
- optional electric long + cross travel
- optional mobile control



ABUS single girder rolling beam crane system EHB-I

For area coverage
Load capacity: up to 1 t
Crane girder length: up to 10 m
(depending on load capacity)

- Very low self weight, ideal for lightweight construction buildings
- easy to move manually
- standard 'I' beams utilised as downshop track beams
- favourable approach dimensions

ABUS ZHB-X stooped-up double girder crane

For area coverage
Load capacity: up to 2 t
Crane girder length: up to 8 m
(depending on load capacity)

- stooped up crane for optimum use of available space
- ultra low headroom
- wide maximum suspension spacing
- optional electric long + cross travel
- optional mobile control



ABUS double girder rolling beam crane system ZHB-I

For area coverage
Load capacity: up to 2 t
Crane girder length: up to 12 m
(depending on load capacity)

- High load capacity
- Particularly favourable hook heights due to the arrangement of the chain hoist stooped up between the crane beams
- standard 'I' beams utilised as downshop track beams
- Electrically powered motions (Option)
- Mobile pendant controller (Option)





ABUS jib cranes

A SOUND BASIS, FOR EFFICIENT MATERIAL HANDLING.

ABUS jib cranes are extremely versatile units which can easily be adapted to the customer's specific requirements. For example, jib cranes can be mounted on floors, walls or existing supports. Electric wire rope or chain hoists are available as options, as are electric cross travel and electric slewing gear.

pillar jib crane LSX | pillar jib crane LS | pillar jib crane VS
wall jib crane LWX | wall jib crane LW | wall jib crane VW

AT A GLANCE

swept area coverage

can be installed in any position, slewing range up to 360°, depending on model

ABUS JIB CRANES



ABUS LS pillar jib crane

Load capacity: up to 1 t
Jib length: up to 7 m
(depending on load capacity)

- light self weight; can be installed even if floor or foundation conditions are difficult
- allmost effortless push trolley travel



ABUS LSX pillar jib crane

Load capacity: up to 0.5 t
Jib length: up to 7 m
(depending on load capacity)

- smooth-running jib for easy manual operation
- optimal highest hook position
- optional electric cross travel

ABUS LW wall jib crane

Load capacity: up to 1 t
Jib length: up to 7 m
(depending on load capacity)

- relatively light weight; can also be installed in lightweight buildings
- trolley very easy to move by hand



ABUS LWX wall jib crane

Load capacity: up to 0.5 t
Jib length: up to 7 m
(depending on load capacity)

- smooth-running jib for easy manual operation
- optimal highest hook position
- optional electric cross travel



ABUS JIB CRANES



A large industrial hall with multiple ABUS VS pillar jib cranes. The cranes are yellow and blue, with long jibs extending across the width of the hall. A worker is visible near one of the cranes, and a large metal component is being lifted.

ABUS VS pillar jib crane with electric chain hoist

Load capacity: up to 4 t
Jib length: up to 10 m
(depending on load capacity)

- low headroom offers optimal highest hook position
- optional electric slewing gear
- optional electric cross travel
- optional mobile control

A large industrial hall with multiple ABUS VS pillar jib cranes. The cranes are yellow and blue, with long jibs extending across the width of the hall. A worker is visible near one of the cranes, and a large metal component is being lifted.

ABUS VS pillar jib crane with electric wire rope hoist

Load capacity: up to 6.3 t
Jib length: up to 10 m
(depending on load capacity)

- low headroom offers optimal highest hook position
- electric slewing gear
- electric cross travel
- mobile control

ABUS VW wall jib crane with electric chain hoist

Load capacity: up to 4 t
Jib length: up to 10 m
(depending on load capacity)

- low headroom offers optimal highest hook position
- optional electric slewing gear
- optional electric cross travel
- optional mobile control

A large industrial hall with multiple ABUS VW wall jib cranes. The cranes are yellow and blue, with jibs extending from the walls. A worker is visible near one of the cranes, and a large metal component is being lifted.

ABUS VW wall jib crane with electric wire rope hoist

Load capacity: up to 5 t
Jib length: up to 10 m
(depending on load capacity)

- low headroom offers optimal highest hook position
- electric slewing gear
- electric cross travel
- mobile control

A large industrial hall with multiple ABUS VW wall jib cranes. The cranes are yellow and blue, with jibs extending from the walls. A worker is visible near one of the cranes, and a large metal component is being lifted.



ABUS electric wire rope hoists

FOR SENSITIVE HANDLING OF HEAVY LOADS.

ABUS electric wire rope hoists are the central components of crane systems for handling heavy loads. They feature motors, brakes, transmissions and electrical and electronic systems that have all been tried and tested over many years of arduous service. Standard precision travel and

lifting speeds allow the power and speed available to be gauged precisely. ABUS electric wire rope hoists are also extremely user friendly, featuring compact design, very easy maintenance and easy plug-in connectors.

monorail hoist type E | side-mounted hoist type S
monorail hoist type U | crab unit type D | stooled-down crab unit type DQA
twin hoist crab unit type Z | stooled-down crab unit type DA

AT A GLANCE

Highest quality due to the most modern series production

Compact design and optimal service friendliness

Flexible load capacity spectrum from 1 to 120 t

Precision hoist and travel speed as standard

Additional system components for special applications

ABUS ELECTRIC WIRE ROPE HOISTS FOR SINGLE GIRDER TRAVELLING CRANES





Type E · monorail trolley

Load capacity: up to 16 t

- compact design
- two direct-driven trolleys without open gears
- trolley can be adapted to different flange widths
- Also for use with monorail systems made from standard rolled section beams



Type U · Lower flange trolley

Load capacity: up to 25 t

- can be used on a monorail track with normal rolled section girders
- direct-driven trolleys with four direct drives
- 8 wheel end carriages for reduced wheel loads

Type S · Side-mounted trolley

Load capacity: up to 10 t

- reeving beside crane bridge for optimum maximum hook height





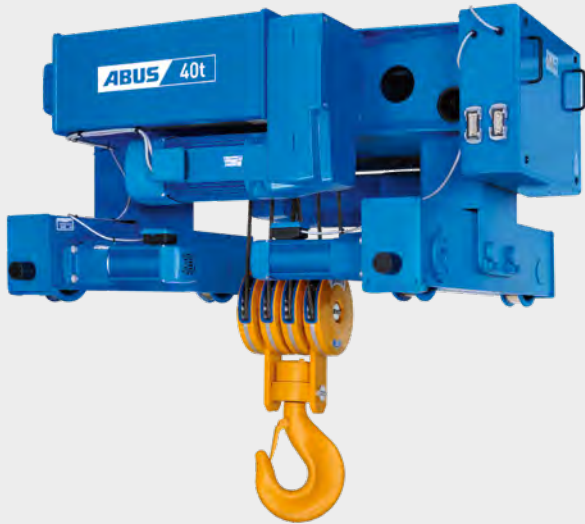
ABUS ELECTRIC WIRE ROPE HOISTS FOR DOUBLE GIRDER TRAVELLING CRANES



Type D - Standard Crab Unit

Load capacity: up to 63 t

- articulated end carriage connection for firm four-wheel contact
- two direct drives without open gears for crab frame trolley



Type Z - Twin Drive Crab Unit

Load capacity: up to 120 t

- with twin hoist
- articulated end carriage connection for firm four-wheel contact
- two direct drives without open gears for crab frame trolley

Type DA - Low headroom crab unit

Load capacity: up to 40 t

- Stooled-down for minimal headroom dimensions
- For use where very little space is available above the crane
- articulated end carriage connection for firm four-wheel contact
- two direct drives without open gears for crab frame trolley



Type ZA - Low headroom crab unit

Load capacity: up to 100 t

- Stooled-down for minimal headroom dimensions
- For use where very little space is available above the crane
- articulated end carriage connection for firm four-wheel contact
- two direct drives without open gears for crab frame trolley



Type DQA - Stooled-down crab unit turned through 90°

Load capacity: up to 40 t

- Stooled-down for minimal headroom dimensions
- articulated end carriage connection for firm four-wheel contact
- two direct drives without open gears for crab frame trolley
- Cable drum axle in cross travel direction



ABUS electric chain hoists

RELIABLE LINKS IN THE MATERIAL HANDLING CHAIN.

In stationary installations, with push trolleys or electric trolleys, ABUS electric chain hoists have a number of extremely useful, user-oriented advantages. These include a very low headroom design for optimum utilisation of available space, a

standard precision lifting speed for sensitive lifting and lowering operations and brake linings with a long service life. Under normal conditions, the unit can complete 1 million full-load braking operations before adjustment is required.

ABUCompact GMC | ABUCompact GM2 | ABUCompact GM4
ABUCompact GM6 | ABUCompact GM8

AT A GLANCE

low headroom

dual lifting speeds
as standard feature

ready for installation

comprehensive standard
and optional equipment

ABUS ELECTRIC CHAIN HOISTS



**ABUS electric chain hoists
ABUCompact GMC**

Load capacity: Lifting speed:
125 kg (1 strand) 12 m/min
250 kg (2 strand) 6 m/min

- with ABUCommander push button pendant as standard equipment
- can be connected to 230 V power socket (single phase)
- infinitely variable lifting speed
- weight: approx. 10 kg respectively 12 kg



**ABUS electric chain hoists
ABUCompact GM6**

Load capacity: up to 2500 kg
Lifting speed: up to 16 m/min

- with ABUCommander push button pendant as standard equipment
- 2 lifting speeds as standard feature

**ABUS electric chain hoists
ABUCompact GM2**

Load capacity: up to 630 kg
Lifting speed: up to 20 m/min

- with ABUCommander push button pendant as standard equipment
- 2 lifting speeds as standard feature



**ABUS electric chain hoists
ABUCompact GM8**

Load capacity: up to 4000 kg
Lifting speed: up to 20 m/min

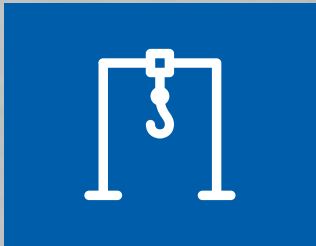
- with ABUCommander push button pendant as standard equipment
- 2 lifting speeds as standard feature



**ABUS electric chain hoists
ABUCompact GM4**

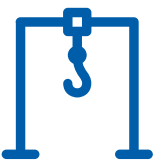
Load capacity: up to 1250 kg
Lifting speed: up to 20 m/min

- with ABUCommander push button pendant as standard equipment
- 2 lifting speeds as standard feature



Load capacity
up to
2t

mobile



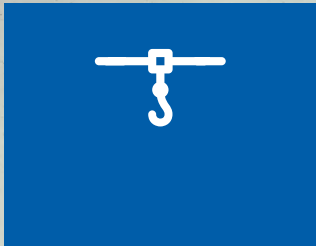
ABUS lightweight mobile gantries

TAKE IT WHERE YOU NEED IT.

With the ABUS lightweight mobile gantry, you can mobilize the lifting power of an ABUS electric chain hoist. The crane is designed for loads up to two tonnes and features four steerable stop rollers for easy handling. Lifting power is always available where you need it. Depending on the load capacity required, the maximum overall width is up to 7.9 m and the maximum overall height up to 5 m.

AT A GLANCE

Universally applicable due to absolute mobility	Use of almost all ABUS chain hoist types is possible	With four steerable stopper rollers
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Can be easily disassembled if necessary	Complete crane incl. chain hoist via quick-fit connections	
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Load capacity
up to
16 t

**linear
point-to-point
transport**



ABUS monorail hoists and trolleys

SOLUTIONS FOR A LINEAR POINT-TO-POINT MOVE- MENT OF LARGE LOADS

ABUS monorail hoists and trolleys are the ideal solution for those applications where a linear material flow is needed. Application-specific options for fixing the system onto customers' existing high level structures or portal supports fixed on the floor allow optimised solutions for the transport of loads. ABUS electric chain hoists

with a push-pull or a powered trolley are used for load capacities up to 4 t. ABUS electric wire rope hoists type E are used for larger load capacities. Thanks to an extensive range of standard and optional equipment, such as the ABUS radio remote control system, loads can be moved in an easier and more flexible manner.

AT A GLANCE

allows flexible and individual planning

many options for fixing

extensive standard and optional equipment

ANYTHING ELSE YOU NEED? THE ABUS ACCESSORIES RANGE.

With the accessories in the ABUS range, you can tailor an ABUS crane to meet your specific requirements. The equipment available, ranging from energy chains and radio remote controls to lighting and load measurement systems, should be sufficient to meet all your needs.

Radio remote control

gives crane operators greater freedom of movement, allowing them to choose the position which gives the best view of their working area and effectively saving time. ABUS offers radio remote controls with joystick or compact push-button hand held transmitter. ABUS radio remote controls are also suitable for multiuser operation, with parallel access to several cranes. The **ABUS tandem control system** allows the crane operator to control two electrically coupled travelling cranes at the same time. Ideally, the ABUS radio remote control system should be used in combination with the tandem control system. With this control configuration, two crane operators can control the two cranes separately, or one operator can control both cranes, either separately or together.



Reduced load swing motion sequences with two-stage operation

For those wanting to optimally transport sensitive goods or large loads, ABUS is expanding its pole-switchable system with the AZS soft start device and the SU-2 smooth switching relay. With these electronic assemblies, the crane operator can use the adjustable acceleration behaviour of the device as well as the improved deceleration characteristics for gentle control of the long and cross travel as an alternative to the frequency converter.



Infinitely variable motion

A frequency converter is a convenient solution for all applications in which hoists need to be equipped with variable lifting speeds for particular precise positioning. This 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.



Calibrated hook block scale

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 hook block scale is often the cost effective solution.

It is a digital commercial scale of accuracy class III with CE approval from the National Metrology Institute of Germany. The crane scale is calibrated and delivered ready for operation. The weighing electronics consist of modern Surface Mount Device technology in a robust industrial design. The weighing module integrates optimally into the bottom block of ABUS wire rope hoists.



Additional power socket on hoist

This option includes an additional 5-pole (3/N/PE) power socket on the hoist for ancillary equipment. The socket is connected upstream from the emergency stop switch and the ancillary equipment therefore remains in operation following an emergency stop. Easy connection and disconnection is possible. Depending on the individual application, it may be necessary to provide a 5-pole power supply. (This option is only available in combination without electric trolley travel and with direct control).



ABUS crane lighting systems

effectively illuminate the working space under a crane, avoiding the shadows normally cast by crane girders working beneath normal factory lighting. ABUS uses highly efficient energy-saving LED lights. The number of lights, as well as their light intensity reflect customer requirements.



LED Matrix display

with three different digit sizes (60 mm, 120 mm and 180 mm), digits, letters as well as special characters can be generated up to a reading distance of approx. 80m. Due to the small space requirement, variable mounting positions on the crane are possible. Status displays of the crane as well as scrolling text can also be implemented with this display.



Further possible options are available on our website. Or simply contact us.

ABUCONTROL: LIFTS CRANES TO A NEW LEVEL



ABUS cranes with control via ABUControl can be adapted to your application by the means of travel profiles. 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 eliminates the need for your crane operators to adjust existing cranes, making them more likely to feel the increased productivity from the additional crane system.



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 people who rarely operate cranes can transport loads safely with the aid of the sway control feature.



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 requires the crane to be equipped with a frequency converter for lifting. Travel speeds are regulated even on cranes which run in tandem. Two cranes, maximum of four hoists and their hoisting motions, all regulated.



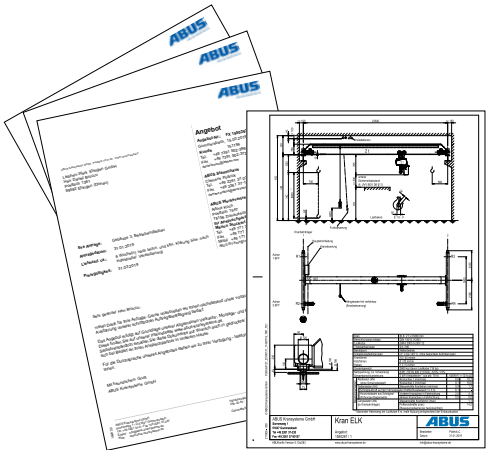
Operating data, settings, service information. Thanks to the modern KranOS interface, you can keep tabs on the crane. For wireless use with any laptop or tablet with browser. Speeding up regular annual inspections into the bargain.



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.

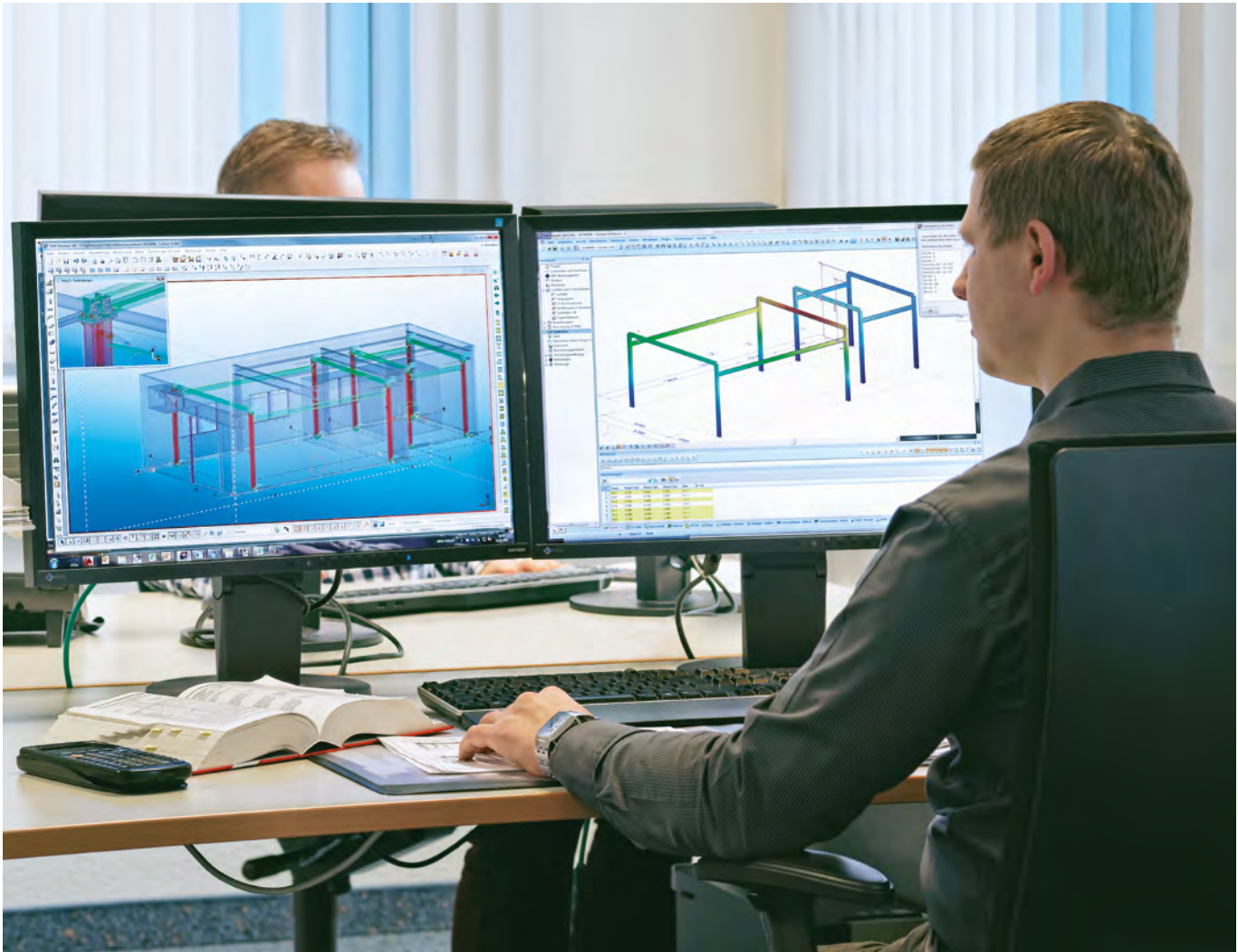
GOOD DESIGN IS A MATTER OF DETAIL. GOOD SERVICE TOO.

Comprehensive advice, consistently applied, lays a solid foundation for the design of any crane system. Our computer-aided design team uses a continuous database for all stages from initial stocktaking through to planning and design. The result is a proposal with full technical documentation precisely in accordance with your requirements. Our proposals form a reliable basis for your decision to purchase a modern, high performance indoor crane system.



Comprehensive and reliable:
each proposal includes thoroughly
prepared technical documentation.

Precise and reliable right down
to the last detail. Computer-aided
design systems give a clear over-
view at all stages of the project.



ABUS SERVICE IS A STANDARD FEATURE OF ABUS QUALITY.

The ABUS all-inclusive service package offers greater safety and helps save costs. Apart from regular servicing, the package includes a number of other services which would normally result in additional cost. In addition, early diagnosis and regular maintenance by trained ABUS service staff systematically improve the availability of your crane system. ABUS service packages are also available for cranes and hoists produced by other companies.

- ABUS representatives in more than 50 countries
- Express spare parts delivery



AT HOME ANYWHERE IN THE WORLD



ABUS SERVICE AND
SALES LOCATIONS WORLDWIDE

ABUS
CRANE SYSTEMS



ABUS KRANHAUS: FASCINATING INSIGHTS INTO THE WORLD OF CRANES

Transport loads single-handedly with a powerful overhead travelling crane, experience the ease of our crane systems yourself, ride on a 8-metre-high crane – the KranHaus at our company headquarters in Gummersbach offers an overview of current crane technology as well as an exciting insight into real-life working situations in a building that has 1,600m² of space. In the crane workshop above the crane building, ser-

vice technicians, installation engineers, service engineers and crane operators are trained. Seminars on the themes of crane maintenance, repair and servicing take place in the modern training rooms that are equipped with special technology. You are also warmly welcome to get to know the Kran-Haus yourself, and to optimise your particular material handling application requirements with us.

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Enjoy a ride on a crane in 8 m high

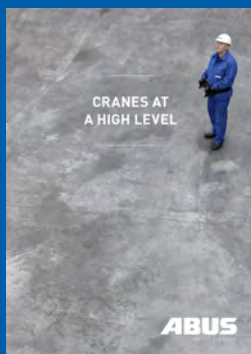


Feel the different drive concepts for yourself



On 3 levels, different crane systems are waiting to be tested at length by visitors like you.

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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ABUS
CRANE SYSTEMS

06.26