Sophisticated hoisting technology since 1961
Experience individual cranes and components of highest quality and look forward to a crane that is ideally adapted to your requirements.

- Compact and individual design
- Cranes and components in standardized or customized design
- Capacities from 630 kilograms up to 630 tonnes
- Spans up to 50 meters

- Low installation dimensions and weight-saving constructions
- Latest innovations and sophisticated technologies
- Various special applications
We project, develop and manufacture cranes out of pure passion since KÜHNEZUG’s foundation in 1961 by Manfred Böttcher.

Since then we have always been working on improving our products, developing new technologies and finding solutions for new challenges.

After 50 years KÜHNEZUG is still 100% owned by the Böttcher Family. Thus KÜHNEZUG is independent from corporations and investors.

The general manager Jan Böttcher continues to pursue and broaden KÜHNEZUG’s philosophy in second generation.
We manufacture our crane kits adapted to your requirements.

- Your crane components Made in Germany in modular design:
  - Our components can be combined flexibly and therefore they are always well exploited
  - The modularity of our components allows us to equip your crane with various hoists, trolleys or drive units according to your requirements
  - Quick and easy replacements of single components
- Precise and soft positioning by modern frequency inverter technology
- Broad assortment of accessories, such as overload protection, distance control, load indicator etc.
- Various options for the control system, e.g. full implementation of tandem control
- All components are also available in explosion-proof version
- Available for all duty classes (up to FEM 5m)
We offer you a wide range of standard and custom-built hoists

- Capacities from 630 kilograms up to 630 tonnes
- Lifting heights up to 1,000 meters
- Maximal hoisting speeds up to 190 m/min
- Very slow and stepless hoisting speeds by frequency inverter for precise and soft positioning of the load
- Suitable trolley for every hoist available
Depending on the requirements we offer you different models in standard or custom-built configuration.

- Capacities up to 630 tonnes
- Stepless driving speeds
- Low installation dimensions
- Low hook approaches
- Special protection against corrosion by gold-galvanizing or painting
Our ROLLCOMPACT is a compact unit consisting of the wheel, gearbox, motor and brake. By using deep-drawn components and wheels of a special high-strength polymere our drive units are very light and efficient. You will enjoy the silence.

- Low abrasion of the runway rails and wheels due the use of a special high-strength polymere
- Operation without crane runway rails possible. Material and time-consuming welding can be saved
- Standard gold-galvanization of the ROLLCOMPACT
- Lateral guide rolls instead of wheel flanges cause a lower abrasion of the rails and the wheels as well as very silent running characteristics
- Various applications, also apart from crane constructions
Oval Girder Technology

The oval girder profile, developed in 1970, offers you further reductions of dead weight of the crane girder construction and a saving of in-building dimensions. Your economic benefit is based upon savings in building construction and operating expenses. This girder profile is unique and the patented major feature of the cranes manufactured by KÜHNEZUG.

- High stability by a centered force application
- Up to 30% higher capacities with the same dead load
- Spans up to 50 meters
- Higher fatigue strength due to few weld seams
- Because of the oval profile there is almost no dirt and water sedimentation on the girder
- Modern and elegant design
Another advantage of the oval profile is the extra low headroom. The dimensions reduce the construction costs of a new production hall or optimize the usable building volume of an existing one.

For low headroom we offer you tailor-made trolleys which significantly reduce the total installation height of a double girder overhead crane in comparison with a conventional construction.
We offer you a wide range of crane types which stand out due to the oval girder profile, low dead load and high capacities. Various innovations make our cranes even more attractive.

- **Cranes:**
  - Single girder overhead cranes
  - Double girder overhead cranes
  - Single girder gantry cranes
  - Double girder gantry cranes
  - Semiportal cranes
  - Jib cranes

- **Advantages:**
  - High capacities
  - Wide spans
  - Light dead loads
  - Low installation dimensions
  - Low hook approaches
  - Frequency inverter technology
  - Very smooth and silent drive characteristics

- **Specials:**
  - Special constructions
  - Explosion-proof systems
  - Automatic cranes
  - Tandem arrangements
Single girder overhead cranes

- Spans up to 50 meters and capacities up to 63 tonnes
- Optimized lifting height
- High reliability and high overload reserves
- Environmentally-friendly and low energy consumption cranes
- Plain girder constructions are available as well

5t / span 9,13m / HOL 6m / workshop

10t / span 23,8m / HOL 11m / rotor blades for wind turbines

10t / span 22,7m / HOL 11m / machine construction
Double girder overhead cranes

- Oval girder cranes save up to 30% of dead weight
- Spans up to 50 meters and capacities up to 350 tonnes
- Reduction of building height by extra low headroom constructions
- Also for very heavy applications like M8 duty
- Plain girder constructions are available as well

- 2x70t + 10t / span 18,8m / HOL 13,5m / steam boiler
- 2 x 125t = 250t tandem function of two cranes / 30t / 30t / span 35m / HOL 15m / offshore wind turbines
- 150t / span 31 m / HOL 10 m / machine construction
Power house cranes

- For hydropower plants, installation and maintenance of gas and steam turbines etc.
- Great lifting heights - also for high capacities
- Discontinuous use after the plant erection sets special design requirements for long-term reliability
- Applications to your requirements

120t + 20t / span 24,6m / HOL 26m / steam power plant
125t / span 12,5m / HOL 95m / hydropower plant
Steel mill cranes

- Ladle cranes up to 250 t capacity, charging cranes and scrap cranes
- Redundant systems for fused material and ladle cranes
- Heavy duty, all parts in duty class FEM 5m if required
- Resistant against steel mill environment (dirt, dust, heat)
- Maintenance-friendly design reduces downtime
- Smooth and precise positioning by using frequency inverter technology
Grabs

- For almost every application
- Motor grabs, rope grabs and hydraulic grabs
- Multi-tine grabs
- Clamshell grabs
- Coil grabs

35t coil grab with rotation limit switch
10t multi-tine grab for waste area
10t clamshell rope grab for coal handling
Grabs (2)

- Biomass power plant
- 10t multi-tine motor grab
- Extremely high speeds
- Fully automated applications
- 35,25 m span
Grabs (3)

- Handling center
- 35t motorized coil grab
- Slewing range monitoring system
- Very high speeds
- Powerfull metal vapour working flood lights
Grabs (4)

- Incinerator
- 10t multi-tine motor grab
- 6t clamshell motor grab
- Fully automated operations
- Extremely high speeds
Gantry cranes

- Available as single and double girder constructions
- Due to our patented construction only 2 instead of 4 pillars are necessary for the single girder gantry crane
- Higher stability than conventional box girder constructions
- Less contact surface for wind causes 30% less forces for the drive units and saving of energy
- Best suitable for outdoor applications
- Also semiportal cranes available

10t / span 35,25m / automated with grab
2,5t single girder gantry crane
5t semi-gantry crane

12,5t / jib 5,4m / patented design
Jib cranes

- Jibs up to 20 meters
- Capacities up to 63 tonnes
- Less contact surface for wind causes less stress for the slewing motor and brake
- Best suitable for outdoor operations
- Resistant against weather and maritime climate conditions

2.5t / jib 3.5m / HOL 3.8m / workshop

mast crane

32t / special jot traverse
Our passion is to develop special solutions for particular challenges. Our know-how and experience ensure to find a solution for almost any task.

**Special constructions**

- Hydraulic container spreader
- Hamburg Airport hoist with gear rack
- Travelling jib crane
KÜHNEZUG cranes and components in explosion proof design up to 250 tonnes

- Protected against highly flammable dust and explosive gases
- Zones 1, 2, 21 or 22
- Equipment group II
- Category group 2G, 3G, 2D or 3D
- Explosion sub-groups and temperature classes IIB T3, IIB T4, IIC T3, IIC T4
- Spark prevention by the use of special high-strength polymere wheels
- Used on oil platforms, mines, sawmills and in every application area with explosive atmospheres
Kühnezug automatic cranes for a controlled flow of work

- Semiautomatic and all-automatic control
- Load positioning precision of up to ±1 millimeter
- Connection to your existing IT-infrastructure possible
For special applications and loads we install special control systems for tandem arrangements. With these arrangements the handling of the loads gets easier and safer.

- With the KÜHNEZUG tandem control two or more trolleys or cranes can be moved almost synchronously
- It will fascinate you how precise you can operate our cranes together

2 x 125t = 250t / full tandem / offshore wind turbines

2 x 120t = 240t / full tandem / submarine production
KÜHNEZUG offers a wide range of accessories, mechanical and electrical elements. For almost any required function we will find an ideal solution for you beyond the standard.

**Engineering:**
- Overload protection
- Limit switches
- Load indicator
- Slack rope switch
- Independent fan motors
- Guiding systems

**Electric / Electronic:**
- Power supply / bus bar systems
- Energy chain / festoon system
- Control systems / control panels
- Air condition for control panels
- Control devices (pendant, radio remote with joysticks)
- Frequency inverters
- Photo-optical distance control
- Anti sway regulation
- Anti crab regulation
- Data storage
- Power feedback unit
- Tandem arrangements

**Construction:**
- Maintenance platforms
- Heat protection
- Weather protection
- Traverses
- Rotatable hooks
- Cabins for convenient operation
We are looking forward to discussing the configuration of your hoisting equipment with you individually.

We are always at your service.

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