



Cranes and Crane Kits

Sophisticated Hoisting Technology since 1961



Gantry Cranes

Made in Germany since 1961

- 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 your challenges.
- After 60 years KÜHNEZUG is still 100 % owned by the Böttcher family. Thus, KÜHNEZUG is independent from corporations and investors.
- Our product portfolio has always included gantry cranes with extraordinary capabilities. We manufacture our gantry cranes in oval girder design as standard, which offers the cranes substantial advantages over conventional cranes with box girders as shown in the following pages!



Compact and Powerful Crane System for Automated Grab Applications

Application	Crane Typ	Crane Qty.	FEM	MRC	Span	Lifting Height	Main Hoist Model	Aux. Hoist Model	Trolley Drive Unit	Crane Drive Unit	Location	Year	Ambient Temp.	Main Hoist Speed	Aux. Hoist Speed	Trolley Speed	Crane Speed	Main Hoist Load Hook	Aux. Hoist Load Hook
Grab	Gantry	1	5m	10 t	35,3 m	12 m	KNFU 7522 EZK	-	RC1600	RC3200	Europe	2009	40°C	15 m/min	-	60 m/min	40 m/min	RN 5	-

- Double girder gantry crane with clamshell grab for biomass powerplant
- Very high speeds for maximum efficiency and shortest process times
- Designed in FEM group 5m for maximum load capacity and availability and therefore ideally suited for continuous operation



Patented Oval Girder Gantry Crane

Application	Crane Typ	Crane Qty.	FEM	MRC	Span	Lifting Height	Main Hoist Model	Aux. Hoist Model	Trolley Drive Unit	Crane Drive Unit	Location	Year	Ambient Temp.	Main Hoist Speed	Aux. Hoist Speed	Trolley Speed	Crane Speed	Main Hoist Load Hook	Aux. Hoist Load Hook
Assembly work on site	Gantry	1	2m	12,5 t	12 m	6 m over & 10 m below ground	DX 4244 EZK S	-	RC800	RC2000	Europe	2003	40°C	6,5 m/min	-	10 m/min	40 m/min	RN 4	-

- Gantry crane with oval girders in patented design for an optimized dead weight
- Smaller and more aerodynamic surface increases the crane's weather resistance and improves its performance in outdoor use
- Round surface and missing edges prevent water and dirt accumulation to the benefit of corrosion protection



Heavy Duty Gantry Cranes

Application	Crane Typ	Crane Qty.	FEM	MRC	Span	Lifting Height	Main Hoist Model	Aux. Hoist Model	Trolley Drive Unit	Crane Drive Unit	Location	Year	Ambient Temp.	Main Hoist Speed	Aux. Hoist Speed	Trolley Speed	Crane Speed	Main Hoist Load Hook	Aux. Hoist Load Hook
Machine Construction	Gantry	2	4m	30 t	13,5 m	35 m	KXFU 7456 EZK	-	RC2000	-	South-East Asia	2015	40°C	6,5 m/min	-	20 m/min	40 m/min	RN 16	-

- Gantry cranes equipped with powerful hoists for heavy duty operation designed in FEM 4m
- Weather protection roof provides optimum protection for outdoor use
- Very smooth and precise movements by using advanced frequency inverters with closed loop for all motors



Tunneling (1/2)

High performance **Double Girder Gantry Crane** for safe handling of assembly equipment and construction machinery.

Application	Crane Type	Crane Qty.	FEM Main Hoist	FEM Aux. Hoist	MRC	Span	Lifting Height	Main Hoist Model	Aux. Hoist Model	Trolley Drive Unit	Crane Drive Unit	Location	Year	Ambient Temp.	Main Hoist Speed	Aux. Hoist Speed	Trolley Speed	Crane Speed	Main Hoist Load Hook	Aux. Hoist Load Hook
Tunneling	Gantry Crane	1	4m	1Am	50 t	17 m	90 m	KVFU 844DT1S	KNFU 816T2 S	RC3200	RC2000 S	Europe	2018	40°C	120 m/min	13 m/min	20 m/min	40 m/min	RN 8	RN 12



Tunneling (2/2)

- Oval girder cranes save up to 30% of crane dead weight
- Tandem control for both hoists
- Camera surveillance system with 2 cameras and 1 monitor
- True Vertical Lift - hoists without horizontal hook movement
- Special equipment: load collective memory, weighing device, 2 x LED floodlights, control stand, SpeedPlus

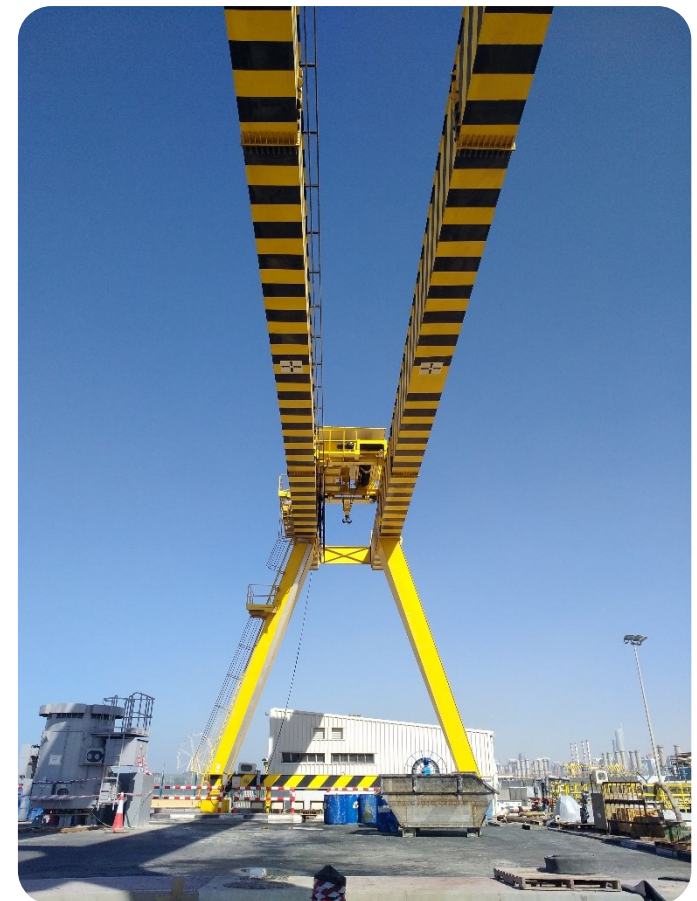
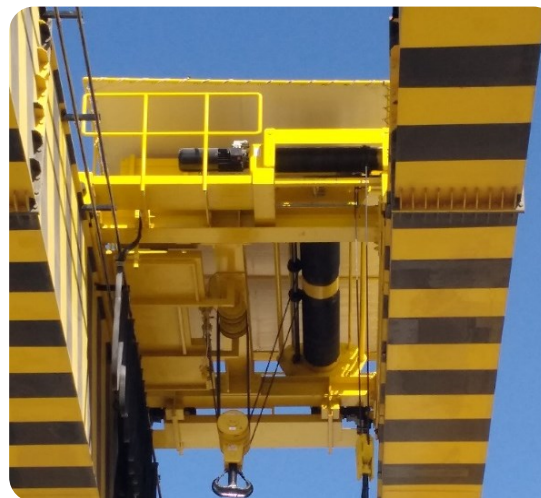
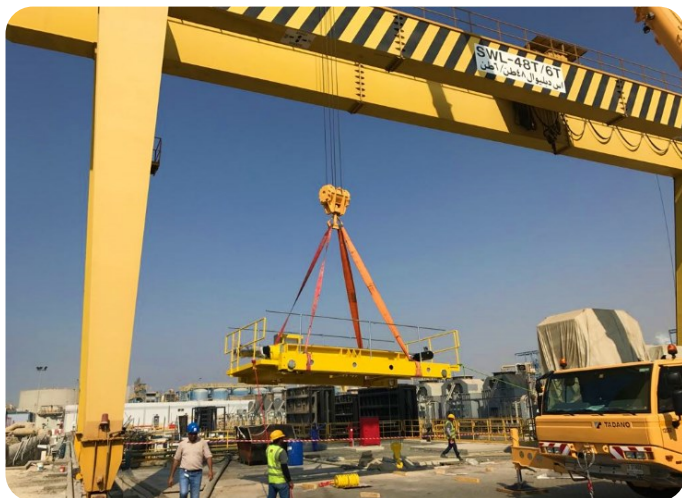


KÜHNEZUG gantry crane working at a service point of CERN, the worlds largest research facility for particle physics. A highly specialized design in which each component is developed individually with expertise and passion.

Refurbishment 1 of Gantry Crane

Application	Crane Typ	Crane Qty.	FEM Main Hoist	FEM Aux. Hoist	MRC	Span	Lifting Height	Main Hoist Model	Aux. Hoist Model	Trolley Drive Unit	Crane Drive Unit	Location	Year	Ambient Temp.	Main Hoist Speed	Aux. Hoist Speed	Trolley Speed	Crane Speed	Main Hoist Load Hook	Aux. Hoist Load Hook
Desalination	Gantry Crane	1	1Am	2m	48 t	34,2 m	14,7 m	KNFU 714T6S	DVFU 4232	Special construction	-	Middle East	2015	55°C	4 m/min	8 m/min	10 m/min	-	RN 12	RN 4

- Replacement of hoist, steel construction, wheels and motors of the trolley as well as control system and safety equipment such as overload protection, limit switches, safety double brake etc.
- True vertical lift - hoists without horizontal hook movement
- Due to C5M coating, min. IP 65 protection of the components and weather protection roof ideally suited for outdoor operation in highly corrosive environment.



Refurbishment 2 of Gantry Crane (Before)

Application	Crane Typ	Crane Qty.	FEM Main Hoist	FEM Aux. Hoist	MRC	Span	Lifting Height	Main Hoist Model	Aux. Hoist Model	Trolley Drive Unit	Crane Drive Unit	Location	Year	Ambient Temp.	Main Hoist Speed	Aux. Hoist Speed	Trolley Speed	Crane Speed	Main Hoist Load Hook	Aux. Hoist Load Hook
Machine Construction	Gantry Crane	1	3m	3m	32 t	32 m	15 m	KNFU 7324	DVFU 3154	RC 1600	Existing one	Europe	2011	40°C	6 m/min	4,5 m/min	20 m/min	31,5 m/min	RN 12	RN 2,5

- Replacement of: Crane power supply, crane drive motors and drive control system, trolley frame including drives and control system, hoist, complete cabling, operation device and safety equipment
- Weatherproof version with IP 65, stainless steel and galvanized components, and wind cut-off by an anemometer that measures the current wind speed and deactivates all crane functions when a critical value is exceeded.
- 2 powerful 400W floodlights provide illumination of the working area.



Refurbishment 2 of Gantry Crane (After)



Gantry Crane for Sugar Plant (1/2)

Largest Gantry Crane in Africa - for construction and maintenance of the worldwide largest sugar beet processing plant.

Application	Crane Typ	Crane Qty.	FEM Main Hoist	FEM Aux. Hoist	MRC	Span	Lifting Height	Main Hoist Model	Aux. Hoist Model	Trolley Drive Unit	Crane Drive Unit	Location	Year	Ambient Temp.	Main Hoist Speed	Aux. Hoist Speed	Trolley Speed	Crane Speed	Main Hoist Load Hook	Aux. Hoist Load Hook
Construction & Maintenance	Gantry Crane	2	2m	2m	45 t	67 m	48 m	KNFU 8222	DXFU 4252	RC 1600	-	Egypt	2019	50° C	4,5 m/min	11 m/min	20 m/min	-	RN 16	RN 4



Gantry Crane for Sugar Plant (2/2)

- Largest gantry crane on the African continent
- Enormous span of 67 m with an overall height of 50 m
- Covers the entire area of the refinery. For installation and maintenance of the plant's main machinery.
- Turnkey-Solution including transport and installation of all goods

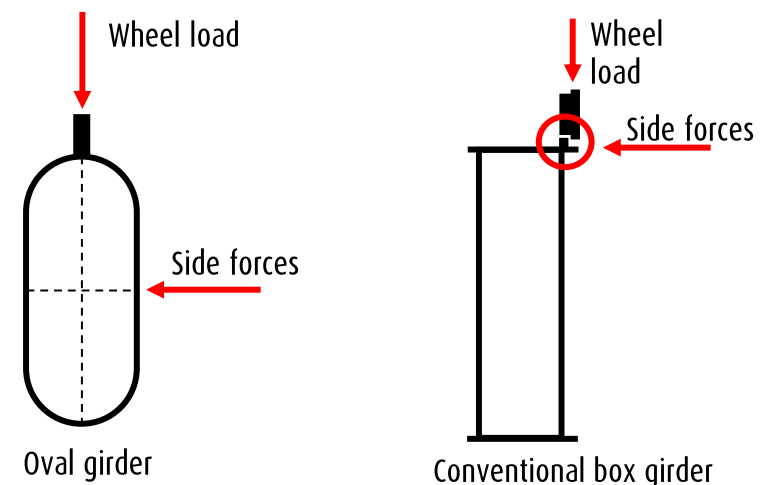


KÜHNEZUG gantry crane working at the worldwide largest sugar beet processing plant as part of the biggest agro-culture project by reclamation and cultivation of 790 square kilometers land. The gantry spans across the entire facility making it the largest gantry crane on the African continent.

Patented Oval Girder Design

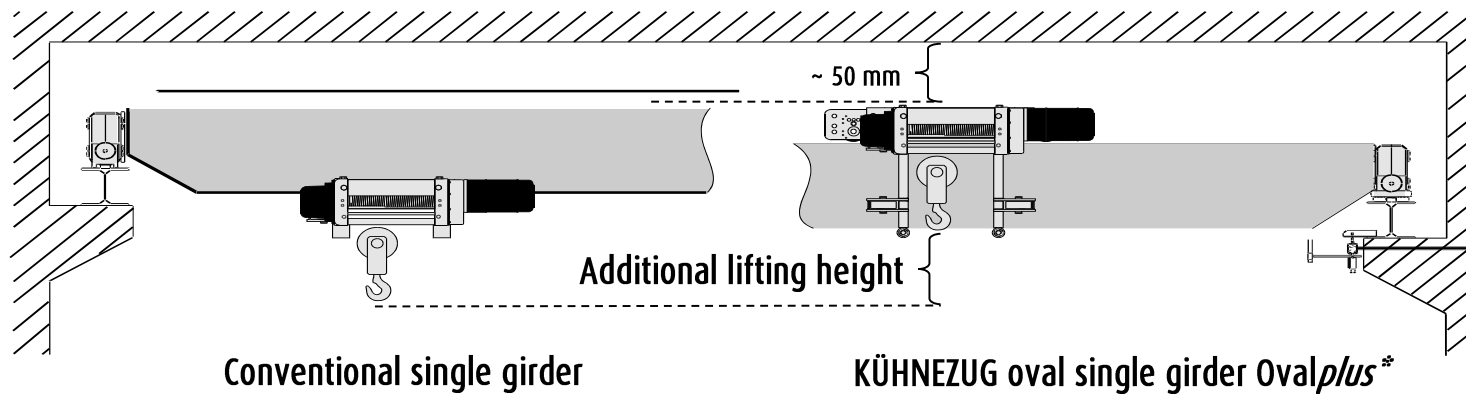
The oval girder profile, developed in 1970, offers you further reductions of dead weight of the crane girder construction and a saving of in-building dimensions. Your economic benefit is based upon savings in building construction and operating expenses. This girder profile is unique and the patented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



Innovative Technology

- The oval profile also excels by its super low headroom. The dimensions reduce the construction costs of a new production hall or optimize the usable building volume of an existing one.



150 t load capacity with a trolley height of only 900 mm

- 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



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We are looking forward to discussing the configuration
of your hoisting equipment with you individually.

We are always at your service.