CraneTech
CRANES

**** THE ART OF HOISTING ****

CRANE TECHNOLOGY

QUALITY PROJECT MANAGEMENT



CRANETECH CRANES

The Company

BD CraneTech was incorporated to provide custom-engineered lifting solutions, through the use of standardised components, so as to maximise productivity and cost saving which will eventually be pass on th our value customers.



A 30 tonnes double girder gantry for Tuas checkpoint project



Sturdy double rail crab for heavy application

Quality Management

Realizing the importance of roles played by lifting equipment in the industry, CraneTech have put in a concentrated effort to manufacture cranes in the finest quality to ensure greater durability.



A ship mounted jib crane

To achieve this, we must satisfy certain standards. Regardless of job, status or title within CraneTech, we will at all times:

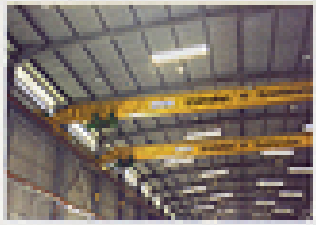
- Study the needs of all new orders and provide the best possible lifting solution.
- Ensure that all enquiries and customers' suggestion be taken into consideration.
- Ensure a high level of customers' satisfaction through our technical expertise and fast response after sales service.



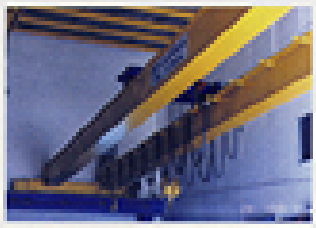
Explosion proof crane for off shore industry



CraneTech cranes have extensively recommended over the years for it's consistent fine quality



CRANETECH EXEL SINGLE GIRDER CRANE Page 4
High Performance Specification



CRANETECH EXEL DOUBLE GIRDER CRANE Page 5
Wide range of Customer option



CRANETECH HEVI GANTRY CRANE Page 6
Single, double girder and Semi Gantry



CRANETECH CITY JIB CRANE Page 7
Column and wall mounted



CRANETECH XTRA SPECIAL CRANE Page10
Customised cranes for process intergration



CRANETECH EXPLOSION PROOF CRANE Page 12
For power plant and offshore application



CRANETECH SERVICES Page 14
Service and spares

BD CRANETECH

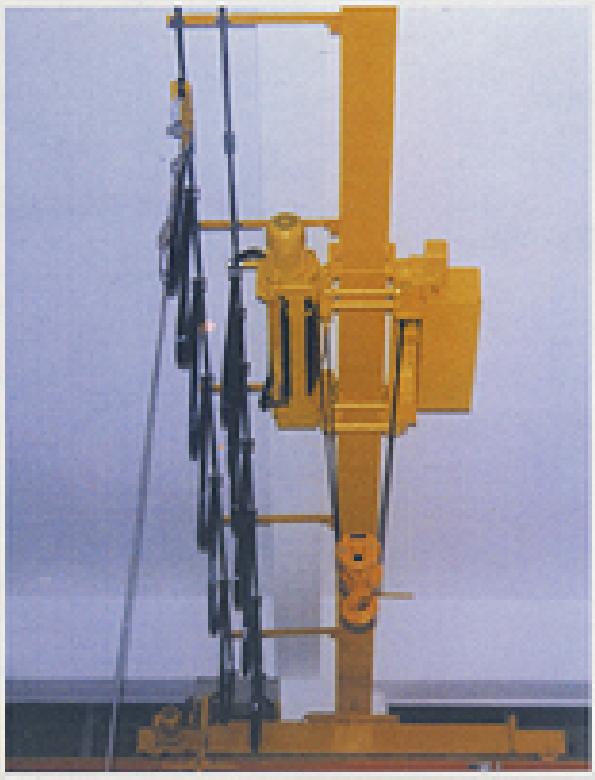
CRANETECH EXEL SINGLE GIRDER ELECTRIC OVERHEAD TRAVELLING CRANES



2 Units 10T EOT Crane



1 Units 10T EOT Crane



EOT Crane for Power Plant

CraneTech single girder cranes are designed to cover a wide range of modern industrial demands, providing excellent value for money with no compromise on performance.

The EXEL specifications, including a full list of operational and safety features incorporated in this world beating range of cranes are available at the customers' request.

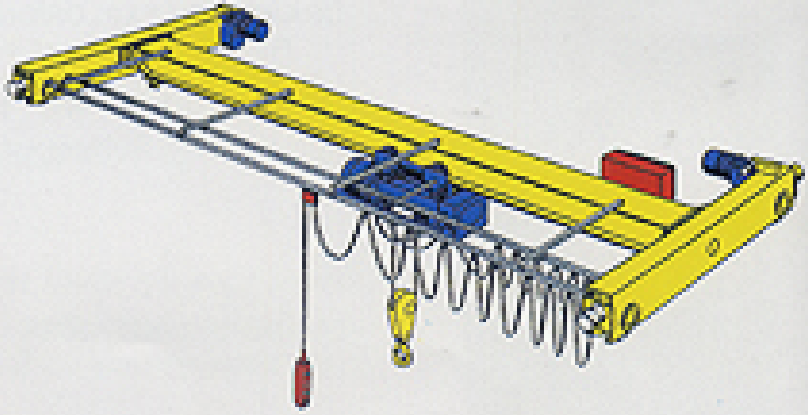
A CraneTech EXEL single girder crane has reduced wheel loads which equates to cost reduction on new runway support structures and increased lifting capabilities on existing structures.

CraneTech offers various cranes beam to end carriage constructions to ensure optimum use of headroom available.

Hoists are offered as standard in low headroom construction on the bottom flange of the beam. All hoist design ensures maximum cross bridge hook stroke with mimimum side clearances.

An alternative specification incorporates chain hoists is available at 3 tonnes or less.

For optimum dimensions and performance, it is generally appropriate to consider double girder solutions above 10 tonnes.



CRANETECH EXEL DOUBLE GIRDER ELECTRIC OVERHEAD TRAVELLING CRANES



2 units 16 tonnes for steel yard



2 units 20 tonnes for precast yard



2 units 10 tonnes for machinery shop

CraneTech double girder gantry cranes are manufactured from pre-engineered components which can be used to produce a huge range of customer options - quickly, efficiently and of consistent high quality.

These options can include cab control, a platform on the drive side beam and tandem hoists on seperate crab frame.

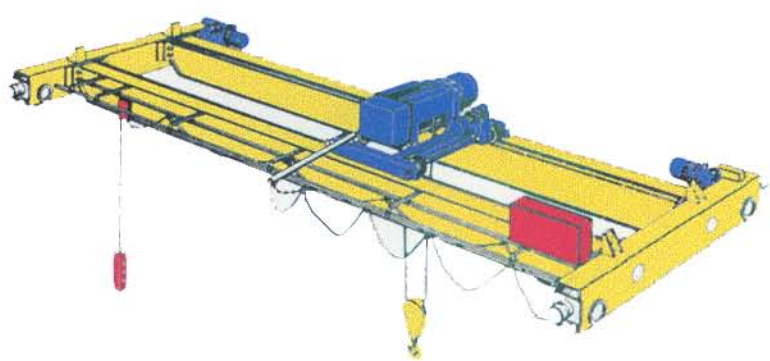
If a large proportion of loads are significantly less than the main hoisting capacity a smaller, faster auxiliary hoist can be fitted on a common crab frame.

Double girder cranes give a better height of lift in a given headroom as the hook travels up between the beams. For heavy duty application double girder cranes can be supplied with open barrel hoists.

Hoisting equipment from CraneTech is standard up to 20 tonnes, above that we offer the heavy duty open barrel.

CraneTech manufacture a standard range of double girder cranes from 0.5 tonnes to 62 tonnes capacity. The EXEL specification, including a full list of safety and operating features are available the customer's request.

Comprehensive technical data sheets are available for the extensive range of standard double girder options.



CRANETECH HEVI GANTRY CRANES





Sometimes as portal or semi-portal cranes, this design is available in both single and double girder format and is ideal both outdoor and indoors where existing building structures are not suitable o take overhead cranes, and where additional supporting steelwork would result in a loss of floor area.

Typical applications include stock yards, the concrete industry and ship building.

Specially developed 90 degree helical worm drives ensure minimum profile of the floor carriage. The simple, efficient steel structures with pin jointed legs ensure minimum wheel loadings and easy erection.

For smaller safe working loads one popular option is the railness semi-gantry when a floor rail would be an obstruction or an unwarranted cost. In this case the crane runs on special polyurethane wheels.

Standard gantry and semi-gantry crane designs are available uo to 150 tonnes.



CRANETECH CITY COLUMN SLEWING JIB CRANES







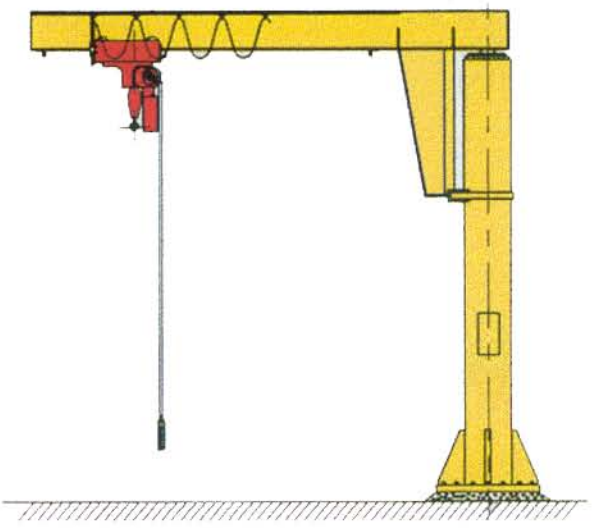
CraneTech slewing jib cranes provide a dedicated and most economic lifting and labour saving solution, which is idea for positioning over machine tools or work stations.

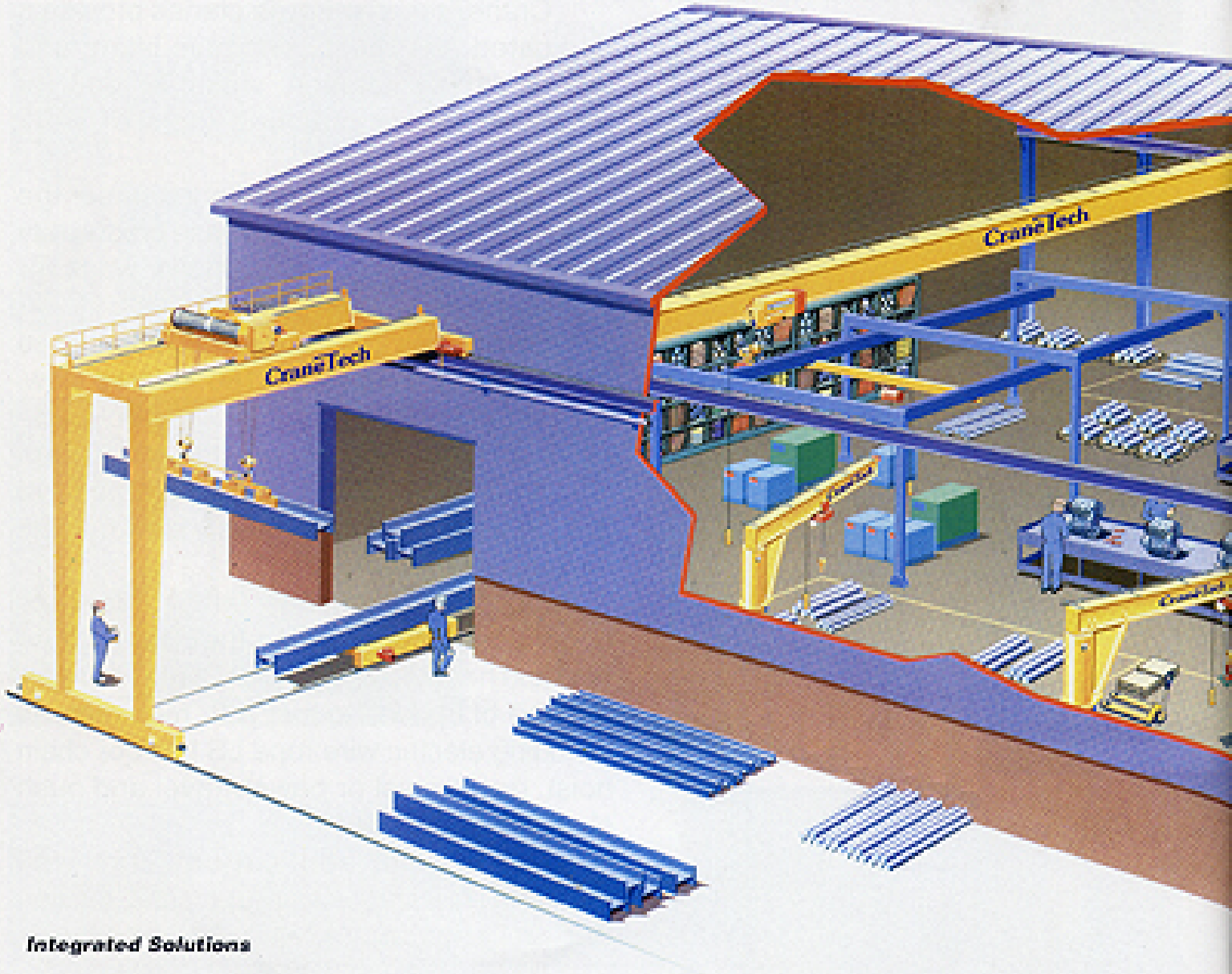
They can also be positioned under the main overhead cranes to increase productivity by reducing the time an operator waits for main crane.

Basic types include the wall mounted jib crane giving a nominal 180 degree slew, the rectangular column mounted jib crane giving 270 degree slew and the round form cloumn mounted jib crane giving a nominal 359 degree slew. Continuously slew models are also available.

Jib cranes may be underbraced or overbraced depending on the safe working load and headroom available. CraneTech offer a range of options to suit your requirement, including electric wirerope LS hoist or chain hoist, push travel or power travel and push slew or power slew.

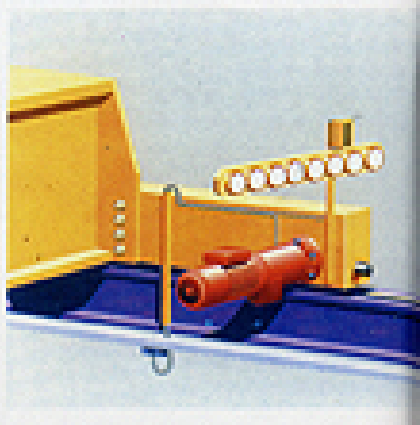
For special applications, the wall travelling jib crane provides a unique solution that's fully mobile down the shop length.





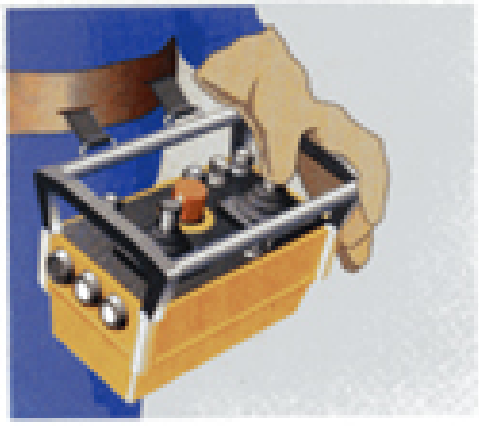
Integrated Solutions

In the new millennium dynamic changes and world market forces will increasingly favour those companies who invest in high productivity materials handling. Such concepts involve the interaction of many products and technologies within the industrial process. CraneTech applications engineers are trained in modern handling technology and they are specialists in integrating a range of products to provide the most cost efficient overall material flow in industrial applications. Cranes and hoists may for example be applied with magnet and vacuum handling systems as well as remote control, programmable drives and automation to provide customised solutions with optimum operating efficiency. CraneTech engineers are able to employ a unique software package to analyse customer operating cycles and hence the crane classifications / speeds to achieve the optimum materials throughput in any particular application. One important part of the package CraneTech can offer is the supporting steelwork including crane tracks and rails. This may be of the free-standing type or if the building is designed for the load case it may be fixed to building columns.

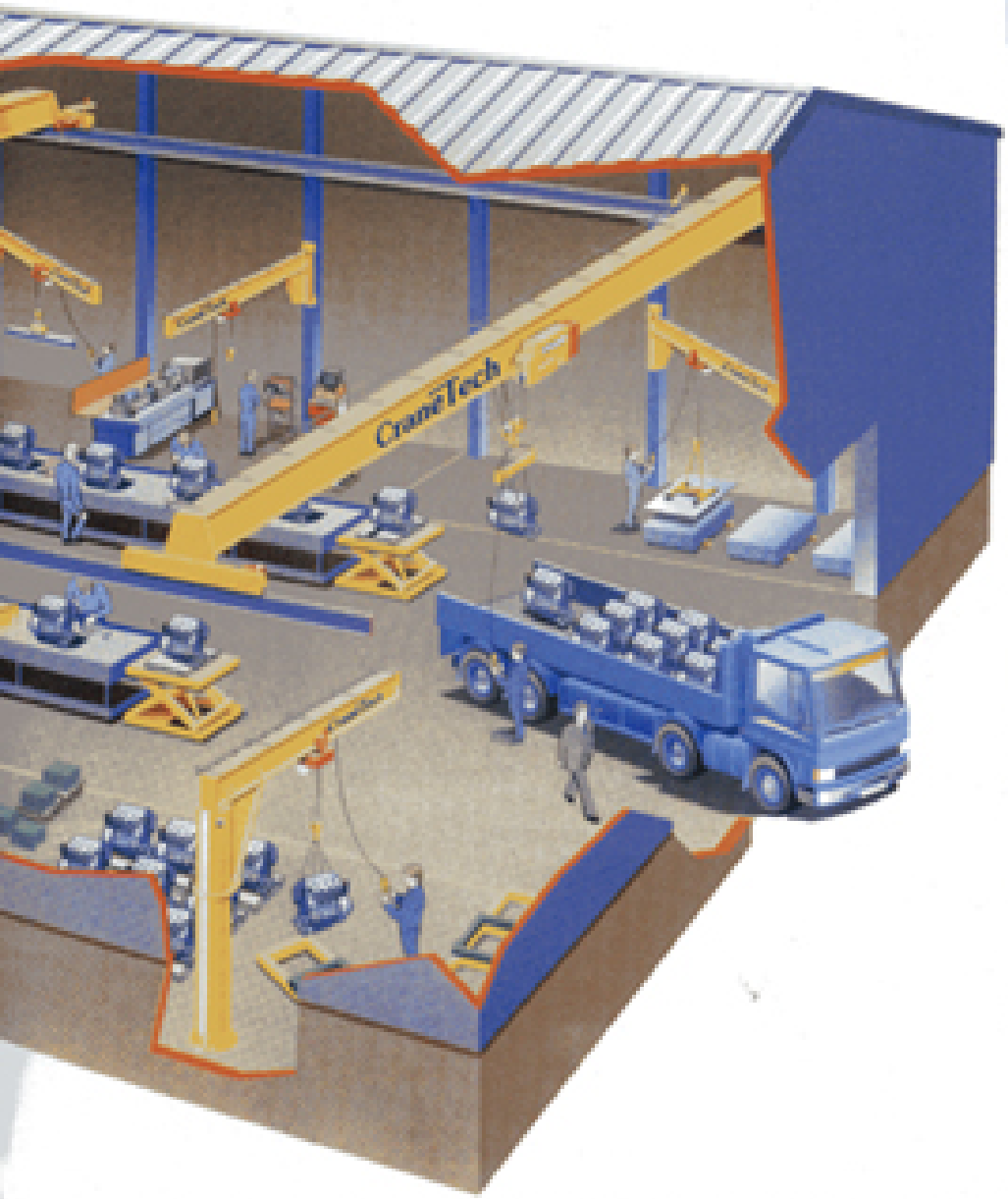


Anti-collision equipment

Integrated ***solutions***

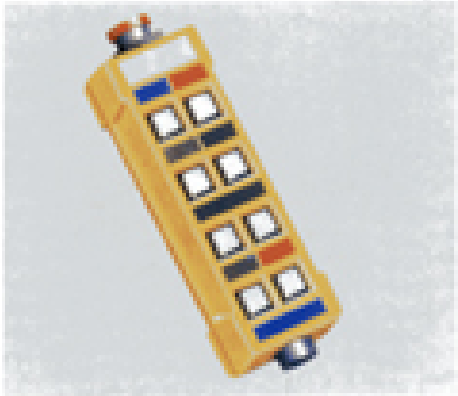


Joystick remote control

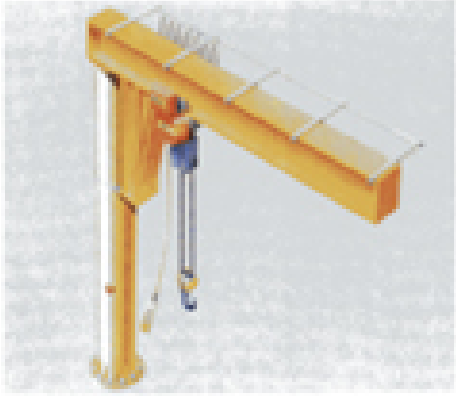




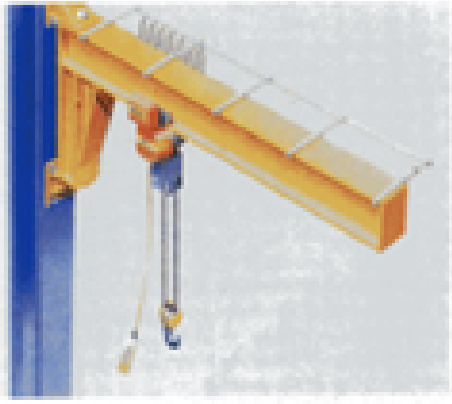
Programmable speed control hoist and travel



Push button remote control



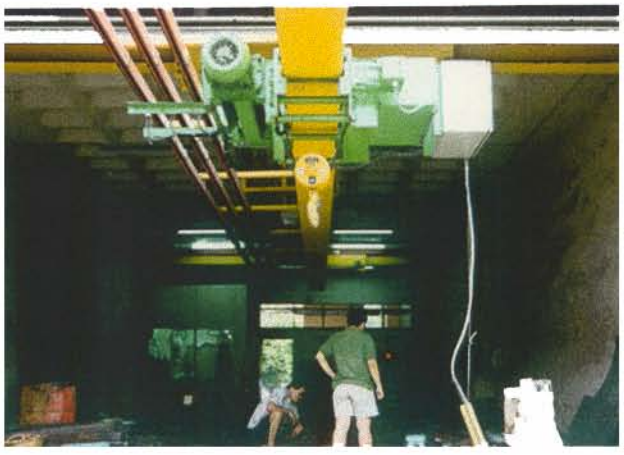
Pillar slewing jib crane



Wall-mounted slewing jib crane

CRANETECH XTRA SPECIAL CRANE APPLICATION







There are some industrial processes which have such complex handling and safety requirements that it is necessary to design cranes individually for specific applications.

CraneTech offer long experience in special and custom built cranes in area as diverse as handling the cores for a nuclear reactor, computer controlled furnace charging, magnet cranes, power station cranes and steelworks cranes.

Process Intergration/Interlligent Electronics

In special cases, cranes may be specified with additional features to dedicate the crane to specific process industry application. Features offer include:

Programmable system

Electronic acceleration ramp

Thyristers drives

Condition monitoring

Electrical braking

Stepless speed control



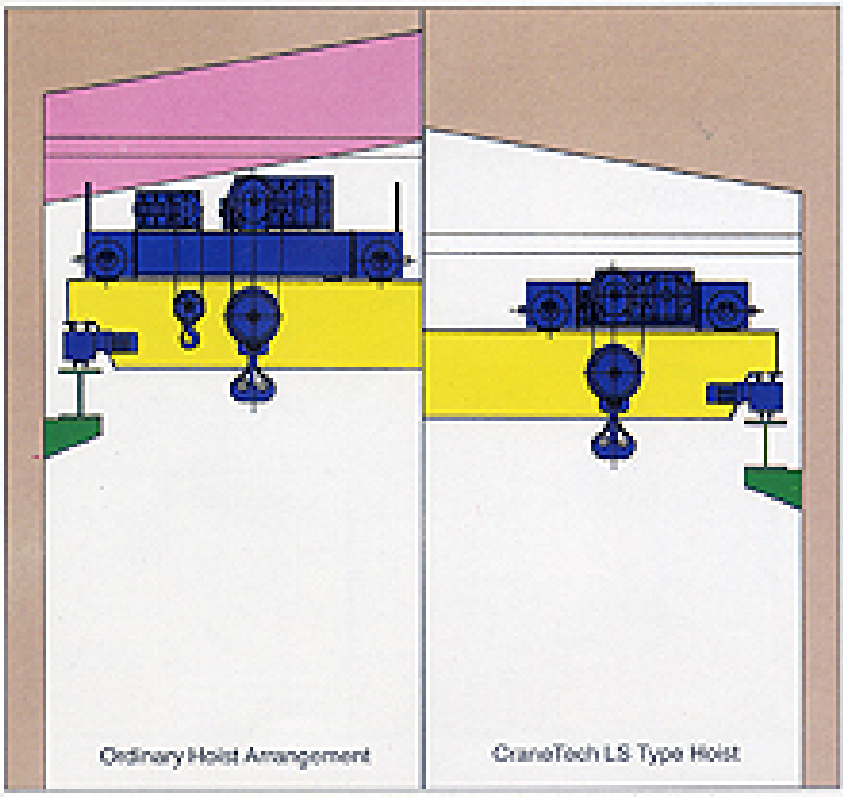
INTERNATIONAL EXPERIENCE IN CRANE TECHNOLOGY FOR POWER PLANTS

In the development of CraneTech electric overhead travelling cranes for power plants the emphasis has been on creating economically optimized, comprehensive solutions to mechanical handling problems.

By appreciating that building space required by outfitting cranes is useless from the production point of view, the designers of CraneTech have proceeded to standardise crane components to make the dimensions of the crane and wheel loads so small that in ideal cases costs equal to the price of the crane can be saved in building expenditures. These savings are especially significant when a power plant is excavated into rock, as blasting costs are directly proportional to the space required. These savings are also noteworthy in the operation costs of heated buildings. In existing buildings crane capacity can be increased without structural modifications.



Above CraneTech Cranes with LS8 hoists capacity of 2 x 80T. These feature compact, low profile design, which minimizes the headroom and also the maintenance requirements.



This illustration shows the space saving headroom requirement provided by the CraneTech LS Type hoists as compared with an ordinary hoist arrangement.

To achieve optimal solutions, computers are used in crane design at CraneTech. Advanced computer systems and methods are employed to create highly specific, economical crane types, which comply with FEM, DIN, BS, CMAA and other international standards. All steel structures and crane components, i.e. hoists, end carriages, travel drives, electric controls and wheels are designed and manufactured by CraneTech. Thus CraneTech cranes are reliable and provide outstanding operational performance.

The CraneTech LS7, LS8 and LS9 hoists cover a load range of up to 250T. They offer a comprehensive and competitive solutions for outfitting and maintenance cranes normally used to lift loads of only about one tenth of the capacity rating at high speed, and only occasionally used to lift maximum loads. Cranes employed in power plants typically have such a load spectrum.

CRANETECH CRANES FOR HAZARDOUS LOCATION

Throughout that history the company has kept abreast of technological developments in the industry as well as pioneering innovative designs by its own engineers.



Offshore oil platform
7.5 tonne flame-proof electric
crane to servicing diving bell

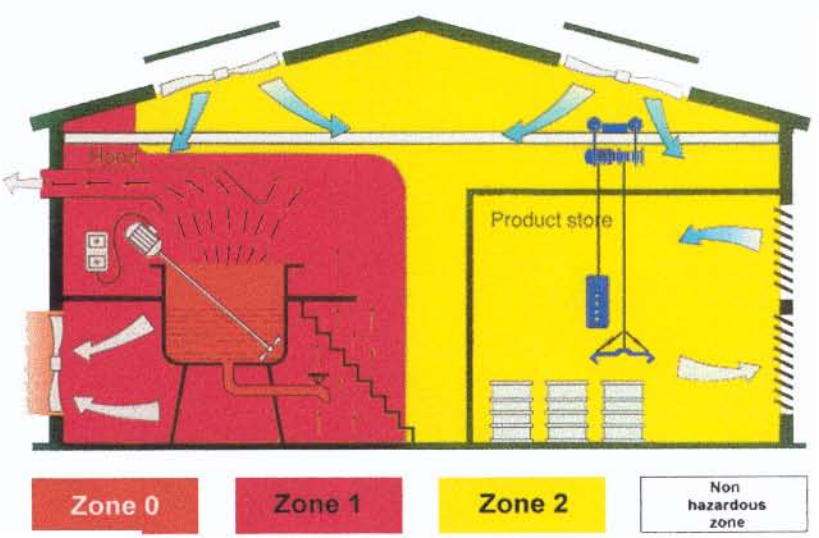


Quality and Reliability have always been paramount importance backed by a service second to none.

The success of the company has always been and will continue to be its ability to offer a 'Complete Package' from initial briefings and Recommendations through Design and Manufacturing to installation and maintenance programmes.

No installation is too large or to small - BD CraneTech can be found in numerous International locations serving a multitude of Industrial requirements. All cranes are specially commissioned to suit their working environment - hazardous or non-hazardous, heavy duty or the transportation of delicate and dangerous materials.

Applications can be found in many markets including Petrochemical, Water, Aero, Nuclear, Underwater and heavy Industry worldwide.



Explosionproof, they comply with the rules from the European Federation for Handling "FEM" and are built according to the official regulations of the European Committee for Electrotechnical Standardization, the "CENELEC" standards,
- EN 50014
- EN 50018
- EN 50019

They may be used in an explosion hazard atmosphere of the group EExd II B EEx IIB T1 to T6 or EExd II C T 1 to T6

As an option :
They can be proposed as non-generating sparks.

Various models :
Laid fixed hoist, fixed overhanging, monorail, reduced lost height; laid twin rail, overhanging twin rail. The table here gives the gas and flammable vapour group class together with the maximum temperature of the surface envelopes.



Control box
EExd.e II B - II C

Groups	Products
I	Methane
IIA	Acetone Butyl alcohol Ethyl alcohol Ethyl acetate - Methanol Butane - Propane - Hexane Ammonia, blast furnace gas, carbon monoxide Pentane Heptane, iso octane , decane, benzene, xylene, cyclohexane, ethyl methyl, ketone, n propyl acetate, amyl acetate, chloromethylene, isobutenol, amyl alcohol, ethyl nitrite
IIB	Ethylene, butadiene 1.3, diethyl ether, ethylene oxide, town gas, coke oven gas
IIC	Hydrogen Carbon di sulphide CS2 Acethylene C2H2



PE an Flameproof enclosure



Bronzed hook



Bronze roller anti rail jump

CraneTech offers a comprehensive planning service right from the beginning. If you are thinking about installing a travelling crane system, you should enlist the help of the CraneTech adviser as early as possible

Personal consultation
Just call us and arrange an on-site meeting. Not every detail can be discussed from your desk or on the telephone. Everthing else is easy: just request our technical details, free of charge. The measurement and data sheets contain detailed aids to ensure efficient planning.



Free Planning
Just let your CraneTech specialist have the details by telephone or by fax. Working with his team and our computer he will provide you with optimal solution. You will receive free of charge a quotation in accordance with your individual requirements. The decision to buy an CraneTech system is the start of long partnership. It starts with expert consultation and technical documentation. The delivery speed takes into account the customer's wish to solve his material flow problems as quickly as possible. This is backed up by expert installation and friendly training in the use of the system. But that is still not enough: The CraneTech service offers the certainty of support at all times, at the very time that it matters. Spare parts are delivered on time to ensure that unproductive downtime does not occure. The CraneTech guarantee promise should convince even the most critical of how seriously we at CraneTech take the task of justifying the trust that a customer has placed in us.

CraneTech long term warranty
The length of our warranty underlines our commitment to lasting reliability... without any let-outs hidden in the small print. Parts such as brake linings, trolley wheels, roller bearings and pendants control are all included in our warranty. The only wearing parts in an CraneTech system are the rope and the rope guide or the chain and the chain guide. With its wearing parts warranty, CraneTech ensures lasting quality for these parts, too. (Our warranty is applicable for one shift operation).

CraneTech fast after sales service
If a fault still occurs despite the regular inspection, you as a CraneTech inclusive inspection programme customer, can be sure that our service engineer will be there to help you as fast as possible.

We will remember the inspection date for you and carry out the inspection according to the regulations.

We offer know how in crane and hoist technology straight from the source. As crane manufacturers we can offer you safety as a result of real expertise and our sense of responsibility.









The last thing you want to skimp on is your material handling system!

A quality system is a long term investment. Your primary consideration is the highest value, not the lowest cost. So why not make sure you're getting the most for your dollars.

Specify the CraneTech's range of products! CraneTech has proven track record of producing the required performance together with the latest knowhow in Cranes Technology to date.

The latest in computer-aided design, automated machining, high strength materials and uncomprising quality control have optimised efficiency and produced a new-generation workhouse unmatched in any class.

Choose a CraneTech cranes for Quality, Reliablity, Performance and Value for your money!

CraneTech
CRANES

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