

The Leader in cranes



JDN MONOCRANE

Leaders

A Commitment to Service.

*As a customer of **JDN MONOCRANE**, you will discover the advantages of dealing with a company committed to satisfying customer needs, by providing superior standard products of custom built lifting and storage solutions.*

JDN MONOCRANE

is setting new standards in the design, manufacture and service of lifting and storage solutions.

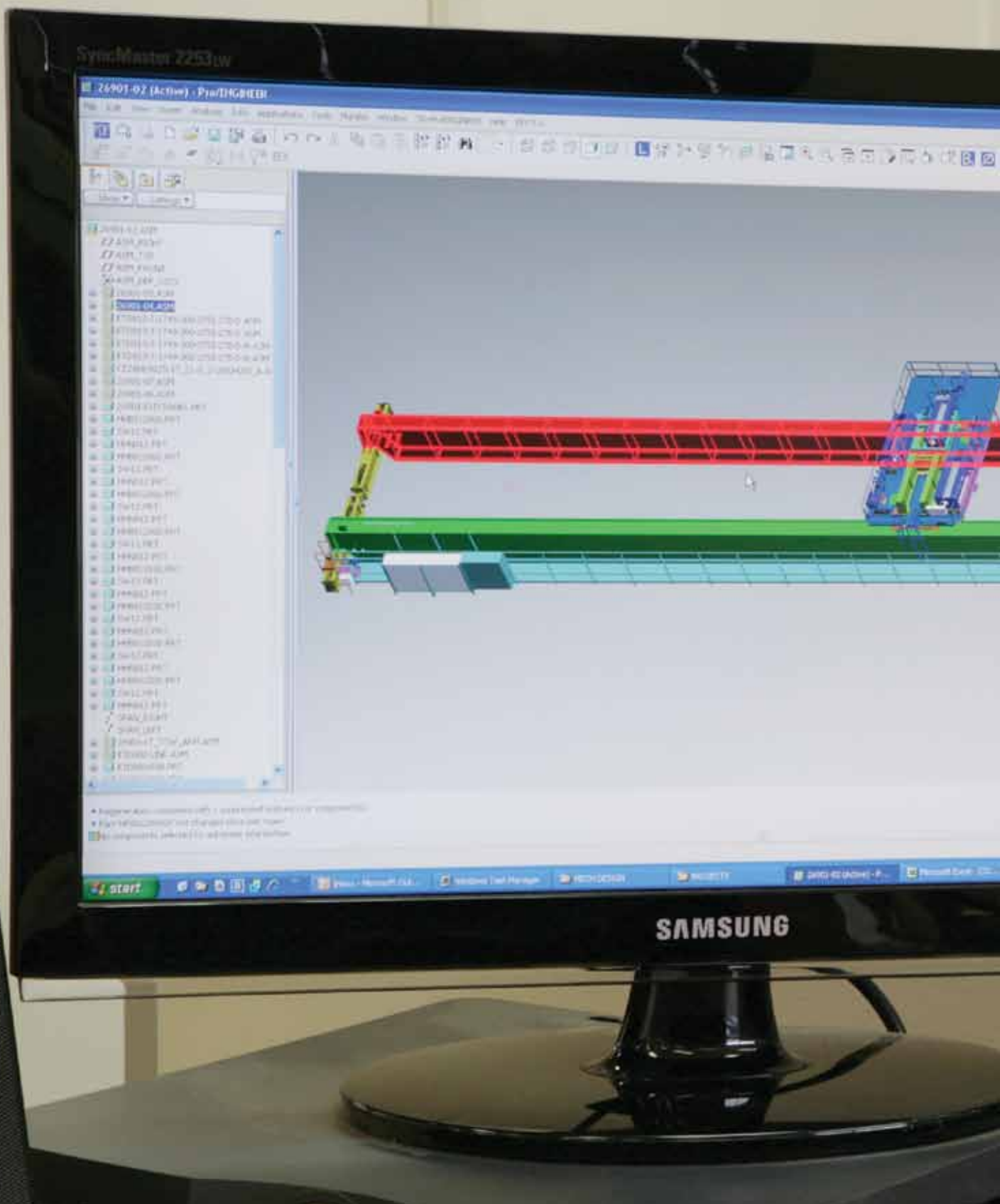
Today, with extensive resources, commitment to quality principles and a dedication to customer satisfaction, we are providing innovative answers for clients throughout the Australasian region.

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R&D

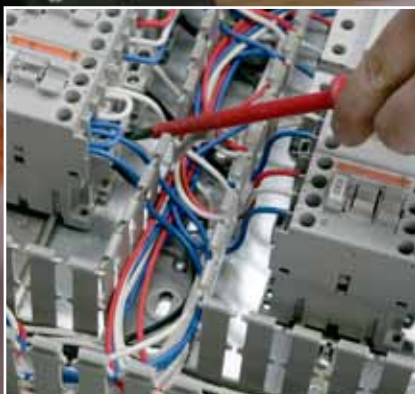
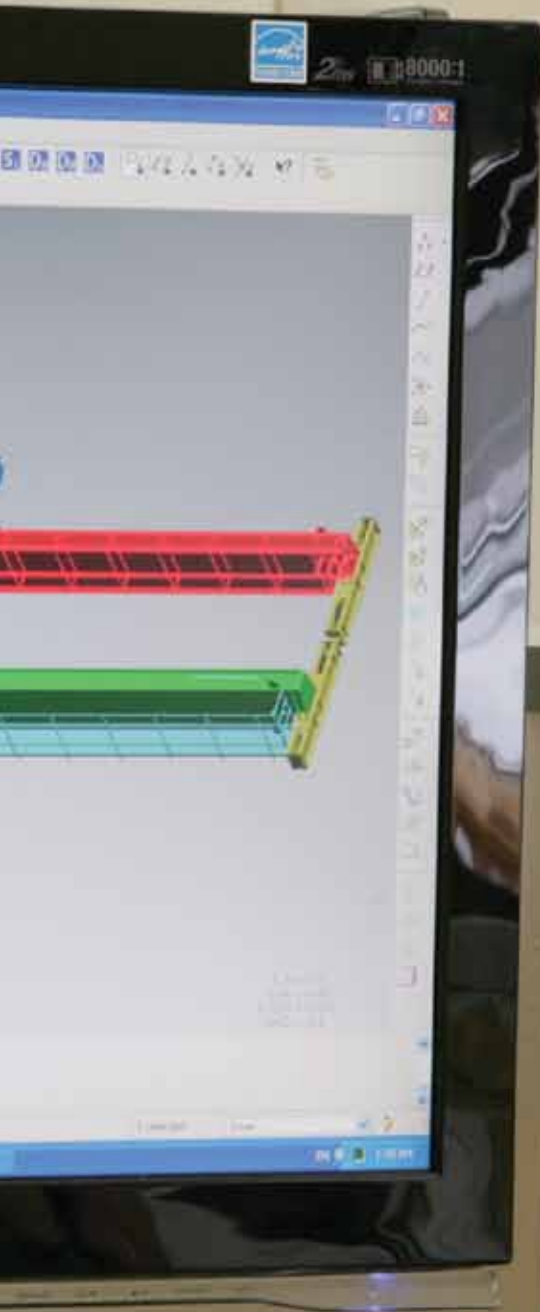
To ensure you receive the best available solution to every lifting and storage problem, we maintain a fully staffed research and development facility.

Our design, mechanical and electrical research resources include CAD (Computer Aided Design), access to materials testing laboratories and the expertise to conceive and program advanced computer driven applications.

Component selection and testing is an essential role of the research and development facility.

Every part used in the manufacture of **JDN MONOCRANE** products must meet stringent quality, performance and maintenance standards.

By combining design innovations with tried and proven engineering practices, **JDN MONOCRANE** creates practical, cost effective, individual solutions that you can rely on for optimum performance.



The Leading Name In Cranes

When you choose **JDN MONOCRANE** you'll discover levels of design assistance, service and support that are well above standard. Whatever your application, from 1 tonne to 500 tonnes. Whatever your industry, we will work with you to analyse your performance parameters and ensure that you have the best possible solution.



20 / 6.3 TONNE 34 METRE SPAN DOUBLE GIRDER CRANE IN HIGH TEMPERATURE APPLICATION



CRANES IN RAILWAY WORKSHOP



DOUBLE CRANES IN AIRCRAFT INDUSTRY



CRANES IN ALUMINIUM SMELTER

i-GLIDE™

Focusing on performance & safety JDN MONOCRANE have developed anti hook sway technology ideally suited to both standard and custom applications.

is a revolutionary electronic control system that allows the ***i-GLIDE*** crane and load to accelerate and decelerate with the smoothest properties possible, independent of load - minimizing hook sway.

Leaders in Specialized Cranes



VACUUM CHARGING CRANE IN CARBON BAKE AREA OF ALUMINIUM SMELTER COMPLETE WITH ANODE GRAB.



Our ability to engineer innovative solutions to unique problems and work with a client team is illustrated by the supply and installation of two cranes in an aluminum smelter.

The Challenge

Provide a solution without the high cost of a new building or changes to the existing structure.

Design and manufacture cranes to handle petroleum coke and anodes within the bake pit area. International competitors said it could not be done owing to the small size of the building, unworkable alignments and the number and nature of obstacles in the path of the crane.

The Solution

Working with the client team, **JDN MONOCRANE** developed multi-purpose cabin controlled cranes that satisfied all operational requirements. This included the integration of equipment to draw coke from the furnace pits, place the coke into pits with green anodes and all associated ducting equipment.

JDN MONOCRANE designed multi-wheeled bogies and load sharing suspensions to accommodate load requirement and rail inaccuracies, latest technologies in variable speed travel and electrical protection systems requiring the development of specialised software. All functions of each crane are controlled from a central cabin. The cabin is equipped with a touch screen which displays all required information as well as a comprehensive fault finding and analysis system. The operation provides improved efficiency, dust suppression and increased driver comfort.



AIR CONDITIONED DOUBLE GLAZED CABIN



DRIVERS CHAIR AND CONTROL



ANODE HOIST AND GRAB



LOW HEADROOM HOIST APPLICATION



EXTENSIVE SERVICE ACCESS

Leaders in productivity with ***HYPER SPEED***TM



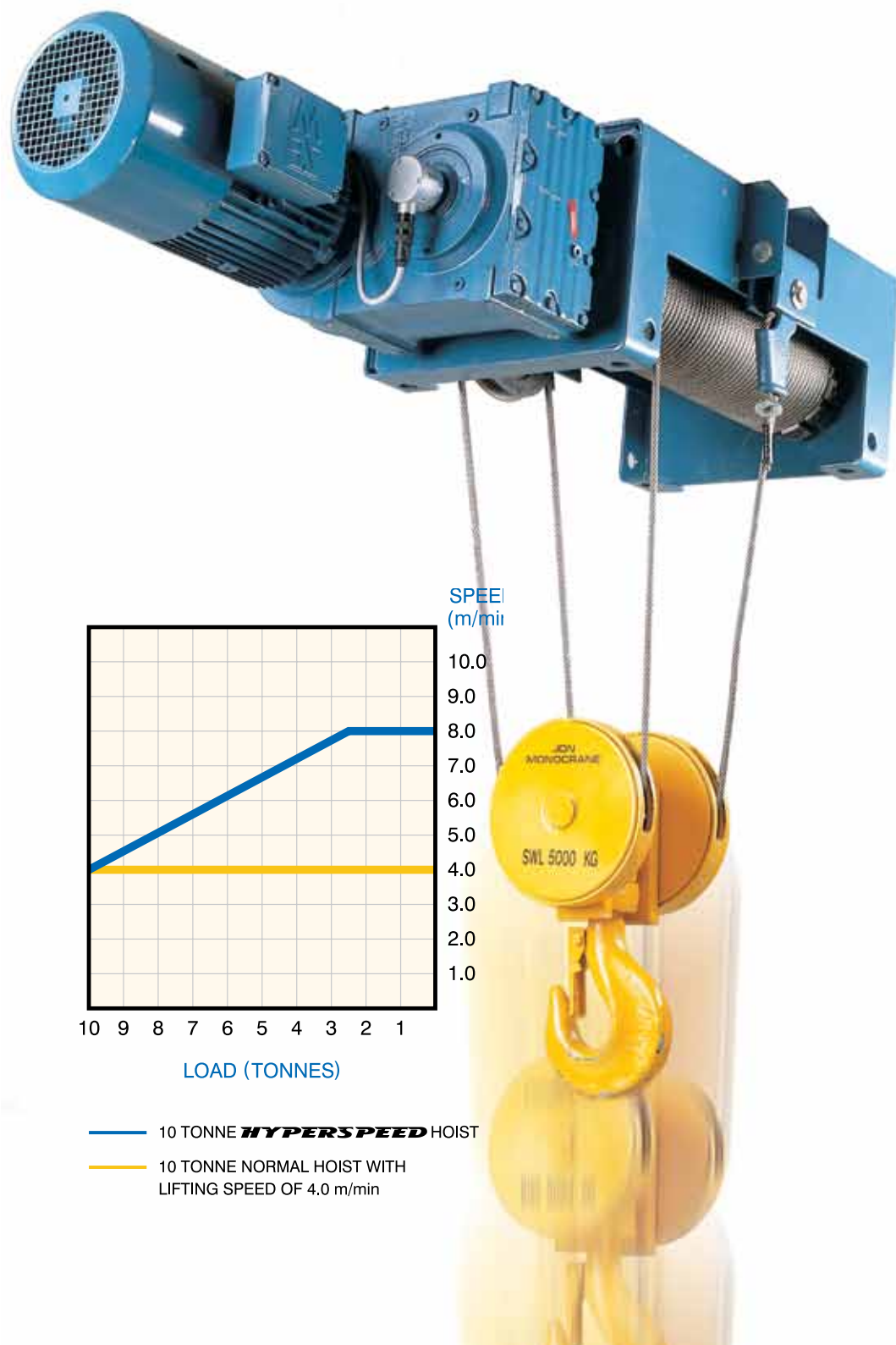
TWIN AH HOISTS WITH MAGNETS AND HYPER SPEED FOR SURE HANDLING



CRANES IN PRECAST INDUSTRY



CRANES IN PLASTICS INDUSTRY



MULTIPLE CRANE INSTALLATIONS

JDN MONOCRANE hoists give you the option of **HYPERSPEED**, an innovative electronic controller that senses load and allows motors to run at up to 2 times their rated speed under light loads.

Most hoists spend the majority of their operating time with light loads or no loads at all - **HYPERSPEED** delivers significant time savings in these situations. **HYPERSPEED** also provides smooth acceleration and braking, with excellent load control for accurate positioning.

HYPERSPEED provides 5 speeds including a micro creep speed. It also provides overload protection as standard.

Leaders in Automated Cranes

In a move that revolutionised bulk paper warehousing systems, **JDN MONOCRANE** developed an innovative solution to a heavy weight storage and handling problem.

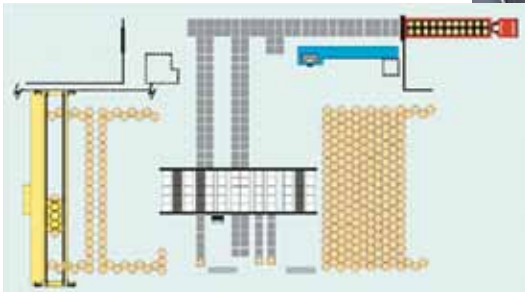
The Challenge

To design and manufacture a system to handle 5 reels of newsprint so that up to 100 reels per hour could be stored and turned over, ensuring the oldest stock is always used first.

The Solution

We designed a high speed, computer controlled warehousing crane, which communicates with the client's stock control computer and identifies individual reels using an integrated barcode reader. This allows the crane to take individual reels for storage and retrieve them for use as required.

The crane's computer system "remembers" where each reel is stored and automatically calculates the most efficient way to access and retrieve it.



The crane moves at up to 150 metres per minute. The load is lifted using vacuum lifting heads. The crane automatically stores and retrieves (AS/RS) the product with an accuracy of +/- 5mm.





Leaders in design to delivery





JDN MONOCRANE are the Australasian Leaders in Cranes. We don't just manufacture cranes, we produce lifting solutions for your business.

From design and construction to installation

JDN MONOCRANE lead the market with cutting edge technology and quality assurance with unsurpassed engineering practices in our industry.

Whatever industry where lifting is required

JDN MONOCRANE leads the way from the biggest to the smallest of products designed to suit your individual requirements.

Designed, engineered, manufactured and delivered with a fast turn-around and a superior, cost effective solution that your business can count on.



Leaders in Hoists

JDN MONOCRANE hoists are the culmination of many years design and manufacturing experience and offer a choice of standard models ranging from 1 tonne to 100 tonnes, each available in a range of mounting options.

The standard range of AH wire rope hoists is unparalleled in its choice of models, speeds, lifting heights, reeving and mounting options.

If you require individual solutions, you will benefit from the modular design and construction of our hoists which allows rapid cost effective customization of your specifications and extremely fast turn-around times on standard models. Larger capacity hoists are also available.

If you are manufacturing or using cranes or associated equipment, you need hoists you can rely on for superior performance, durability and support.

We can provide you with comprehensive advice and assistance, from initial specifications through design and programming, to installation, commissioning and service, to ensure you have the best possible hoist for your application.



HOIST & DOUBLE RAIL CRAB



KEAH HOIST & TROLLEY



MAIN AND AUXILIARY HOISTS WITH A WALK ON PLATFORM

Hoist Specification

HOOK

Forged and machined to DIN 15400,15401, strength class V. Safety catch included.

SHEAVES

Cast and machined from SG iron DIN Grade GGG 50.

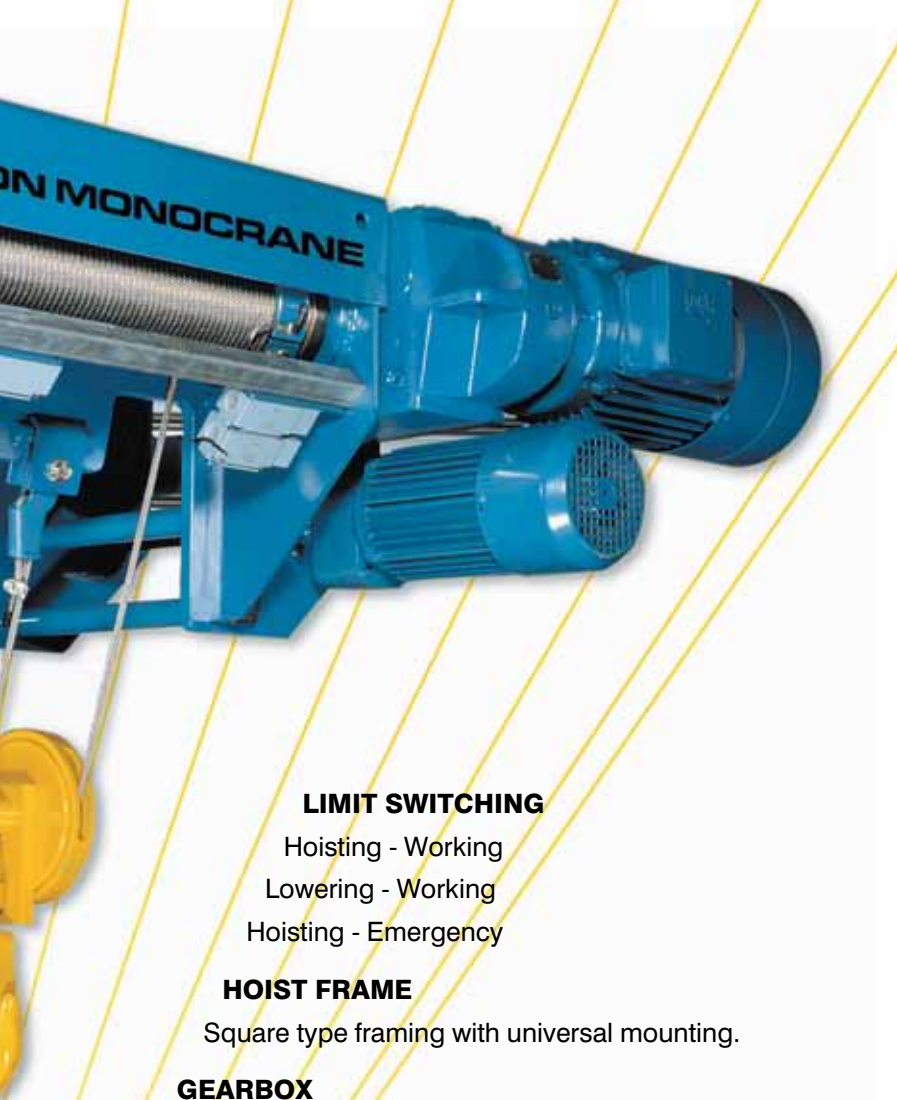
BEARINGS Sealed for life ball bearings

WIRE ROPE Ropes of high strength but still maintaining flexibility to provide good service life.

ROPE DRUM From steel pipe to ANSI B36.10 with machine grooved and splined end plates to DIN 5480.

ROPE GUIDE Cast and machined from SG iron DIN Grade GGG 50.





LIMIT SWITCHING

Hoisting - Working
Lowering - Working
Hoisting - Emergency

HOIST FRAME

Square type framing with universal mounting.

GEARBOX

Gears running in oil bath all fully enclosed in gearbox.

MOTOR

Electric motor with the following options:

One speed hoisting
Two speed hoisting

HYPERSPEED

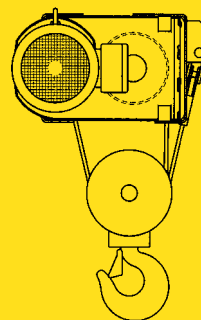
BRAKE

Spring applied, power released, fail safe disc brake requiring minimum adjustment and inspection.

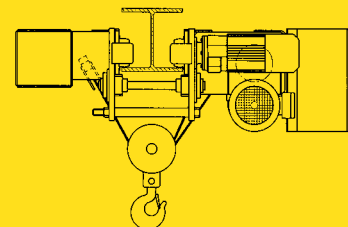


PNEUMATIC HOIST AND LOW HEADROOM TROLLEY

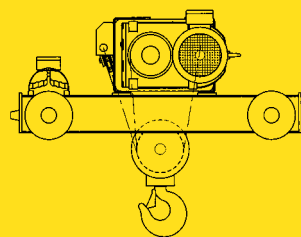
Specifications



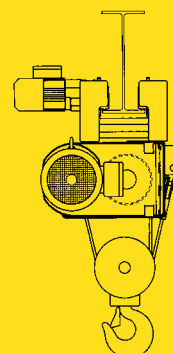
AH



KEAH



CEAH



TEAH

UEAH/AEAH

MOUNTING OPTIONS

- Stationary AH
- Low Head Trolley KEAH
- Double Rail Crab CEAH
- Torsion TEAH
- Underslung Trolley UEAH
- Articulated Trolley AEAH

SPEEDS

- Large range of speeds
- ***HYPERSPEED*** next page
- Main speed to creep speed ratio normally 4:1 option 6:1

BRAKE

- Brake on rope drum for hazardous or man safe.

MOTOR

- Dust ignition proof
- Explosion proof
- Hydraulic powered
- Pneumatic powered

Electronics

- Overload protection
- Condition monitoring
- Encoder fitting
- Radio control
- ***HYPERSPEED***
- ***i-GLIDE***

Portal, Semi Portal & Jibs



50T & 40T PORTAL CRANES - BRIDGE BEAM CASTING

A full portal crane runs on ground level rails and is normally used in outdoor applications. Semi portal cranes run on existing concrete floors without rails and are usually installed over specific work areas and can be installed under existing overhead cranes.

JDN MONOCRANE has a range of sizes to suit any application.

JDN MONOCRANE jib cranes are an inexpensive way to cover an area, specific work station or to provide personalised or process lifting.

Jib cranes can be mounted on existing building columns, freestanding, or be mounted on floor level foundation.

Like all **JDN MONOCRANE** products, jibs and portal cranes can be designed and manufactured to suit your individual requirements and delivered with a fast turn-around and a superior, cost effective solution.



25 TONNE PORTAL CRANE



10 TONNE PORTAL WITH CANTILEVER



DUAL 16 TONNE HALF PORTAL CRANES



16 TONNE PORTAL WITH CANTILEVER



2 TONNE SEMI PORTAL CRANES



1 TONNE FREE STANDING JIB CRANE



WALL MOUNTED JIB CRANES



1 TONNE FREE STANDING "MAN SAFE" JIB

Leaders in Crane Service



JDN MONOCRANE SERVICE DIVISION

shall service and support all equipment 24 hours a day, 365 days per year.

When you require spare parts or stand alone components for cranes or use in other applications, you will appreciate our extensive stock range and fast national or international delivery by air, road or sea.



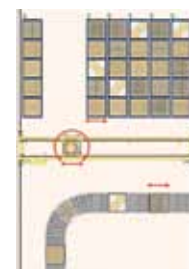
Leaders in Storage

From fully automated, remote controlled to semi-automatic or manual versions, reclaiming wasted aisle space with moveable powered racks that can double your storage capacity.

TRAVELRACK "knows" where items are stored and can automatically retrieve it and when storing, "knows" where to store items according to space or retrieval.

Semi automatic for heavy materials like steel to be stored and delivered. Storage and retrieval is smart simple efficient and reliable. The system is ideal for materials handled by overhead crane.

DRAWRACK can be made in a range of sizes and configured to suit the application.



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