



DALELIFTING

CRANE  TECHNOLOGY



- Crane Systems
- Vacuum Handling
- Lifting Engineering

WELCOME TO THE WORLD OF TOP QUALITY AND INNOVATION

With a history of more than 190 years experience in the lifting and handling industry, DALE LIFTING CRANE TECHNOLOGY DIVISION design manufacture and install ergonomic light crane systems, bridge cranes, monorail systems and load grippers.

DALE LIFTING CRANES is part of the DALE-group Manchester, striving for dependability. Innovation, and technical know-how. As a brand it stands for quality, engineering skill and product durability.



British standards
accredited to ISO 9001



Member of the Lifting
Equipment Engineers
Association (LEEA)



UK Based

ADVANCED LIGHT CRANE SYSTEM OF STEEL AND ALUMINIUM



DALE LIFTING

750 kg

**Up to 2,000 kg
Capacity**

DALE LIFTING

250 kg

A workstation crane can significantly increase productivity by shortening production and waiting times during production, assembly, and maintenance.

The DALE LIFTING Light Crane System is safe, modifiable, and overall economic. It brings ergonomics and quality to the work environment.

The crane is mounted to ceiling construction, with a wide range of standard suspensions, or to the floor with freestanding support frames. It can be equipped with different types of hoists: electric chain hoists or manual, pneumatic or vacuum operated lifting devices.

Thanks to the self-centering push trolley, swinging of load is minimized. The DALE LIFTING light crane system has world-class weight-stiffness-ratio: light own weight and maximal suspension distances.

Enclosed profile construction protects against dust exposure. All connections are bolt connections which make the system easy to install and customize according to customers' needs.

The steel profiles have a higher load-carrying capacity than aluminium profiles. On the other hand, aluminium is lighter to move than steel because it has a lower mass. The strengths of both materials can be exploited by combining them into the same system.

A PERFECT UNION OF STEEL AND ALUMINIUM

CONNECTION PLATES WITH BOLTS IN JOINTS OF ALUMINIUM PROFILES ENSURE FAST AND SECURE INSTALLATION.

ARTICULATED LINK SUSPENSION FOR TROLLEY ENABLES SMOOTH MOVEMENT OF BRIDGE.

ALUMINIUM PROFILES WITH OUTSTANDING PROFILE GEOMETRY AND UNIQUE IDENTIFICATION STRIPES.

END PLATES ALSO FUNCTION AS END STOPPERS. BOLT STOPPER AND ADJUSTABLE STOPPER ARE AVAILABLE AS OPTIONS.



LIGHTWEIGHT INTERNAL CONDUCTOR RAIL AS STANDARD FOR PROFILES 4, 5, 200 AND 260.

WIDE RANGE OF STANDARD SUSPENSIONS.

OPTIMISED STEEL PROFILES WITH THE BEST WEIGHT-CARRYING CAPACITY RATIO IN THE WORLD.

UNIQUE JOINTS WITH CHAMFER TUBES AND SQUARE NUTS GUIDE STEEL PROFILES TOGETHER.

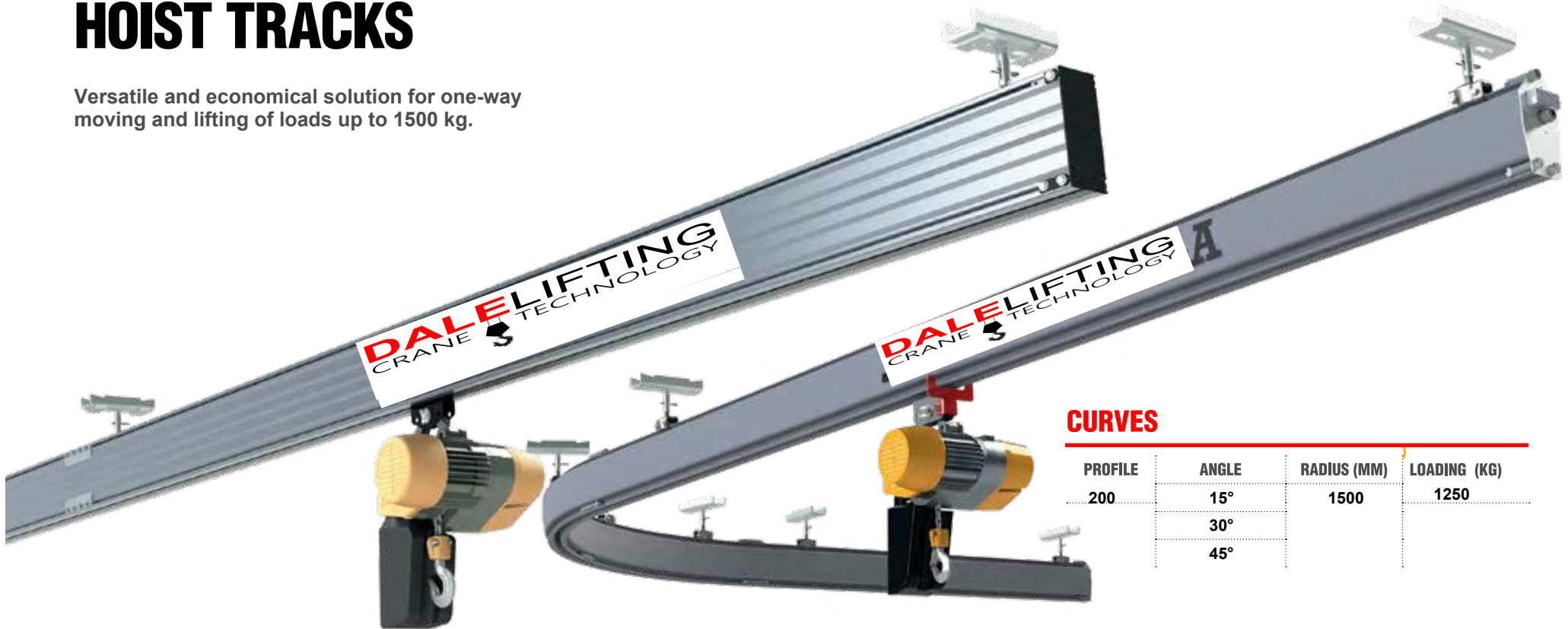
PUSH TROLLEY FOR STEEL PROFILES MINIMISES ROLLING RESISTANCE.
Max. loading 800 kg, steel body, integrated buffers.

PUSH TROLLEY FOR ALUMINIUM PROFILES ENSURES TOP LIGHT MOVEMENTS.
Max. loading 600 kg, steel body, integrated buffers, can take upward force.

DALELIFTING
CRANE  TECHNOLOGY

HOIST TRACKS

Versatile and economical solution for one-way moving and lifting of loads up to 1500 kg.



CURVES

PROFILE	ANGLE	RADIUS (MM)	LOADING (KG)
200	15°	1500	1250
	30°		
	45°		

HOIST TRACKS WITH CURVES

DALELIFTING
CRANE  TECHNOLOGY

SINGLE AND DOUBLE GIRDER CRANES

The standard construction of single and double girder cranes is ergonomic. Its three-dimensional construction maximizes your working area. With the double girder crane, the load capacity is doubled.

Lifting height is increased when the hoist is suspended from the hoist saddle that is located between the bridge profiles. By combining steel and aluminium profiles we can find the perfect optimised solution for your requirements.

CAPACITY

SINGLE OR DOUBLE GIRDER	MAX. LOADING (KG)
1	1500
2	2000



DALE LIFTING
CRANE TECHNOLOGY

LOW HEADROOM RAISED CONSTRUCTION

INNOVATION FOR SUPER LOW HEADROOM

1-and 2-girder raised cranes are for low locations with limited headroom. The bridge profile is lifted between the track profiles maximising the lifting height.

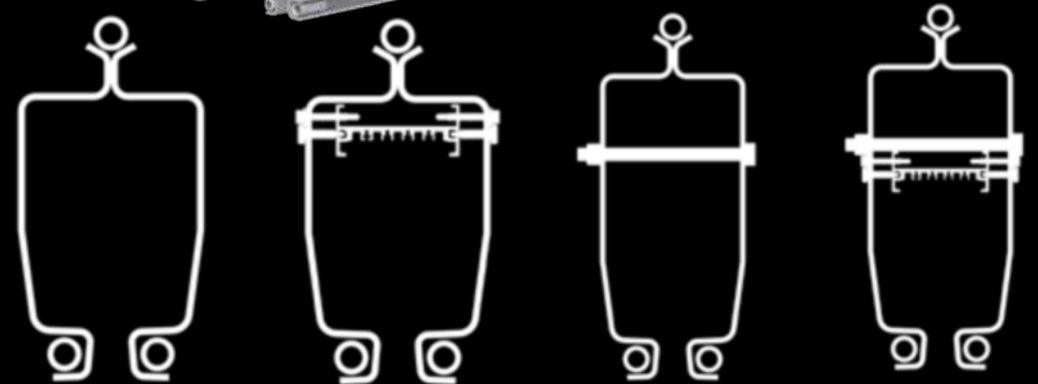
PROFILES

10 HIGH QUALITY AND COMPATIBLE ENCLOSED PROFILES
 4 STEEL PROFILES + 6 ALUMINIUM PROFILES
 = 1 COMPLETE CRANE SYSTEM FOR ALL USER REQUIREMENTS



STEEL PROFILES LOADING UP TO 2000 KG

Standard max. profile length is 8 m
 World-class weight carrying capacity ratio ensures maximized suspension distances – savings in supporting structures, suspensions, and installation. Surface: Profiles have high quality and impact-resistant powder coating.
 Colour: Surface and colour options can be adjusted according to customer's needs and the RAL code provided.

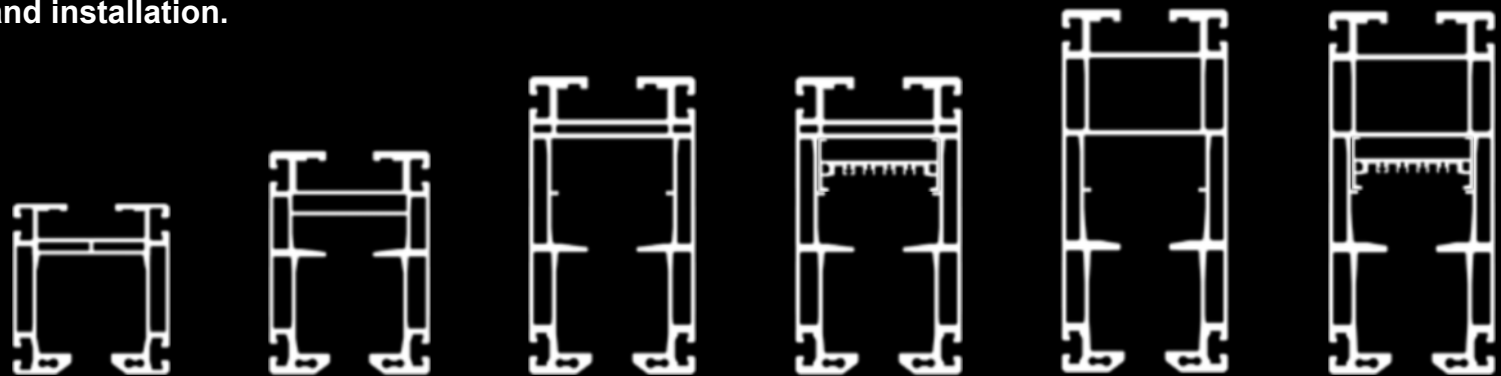


PROFILE	200	200R	260	260R
PROFILE HEIGHT (MM)	200	200	260	260
PROFILE WIDTH (MM)	108	108	108	108
WEIGHT (KG/M)	18.0		21.8	
INTERNAL CONDUCTOR RAIL	-	●	-	●
WY	93	93	149	149
ly	9130	9130	19180	19180



ALUMINIUM PROFILES LOADING UP TO 1000 KG

Aluminium profiles are made of high-quality anodized aluminium. Aluminium profiles are characterized by their outstanding profile geometry, in addition, unique ID stripes help profile identification and installation.



PROFILE	2/105	3/140	4/180	4/180R	5/220	5/220R
PROFILE HEIGHT (MM)	105	140	180	180	220	220
PROFILE WIDTH (MM)	96	100	100	100	100	100
WEIGHT (KG/M)	5,1	7,6	9,4		10,8	
INTERNAL CONDUCTOR RAIL	-	-	-	●	-	●
Wy	47	91	142	142	198	198
ly	2540	6500	13300	13300	21900	21900



JOINT OF ALUMINIUM PROFILES

The aluminium profile joint consists of two connection plates with bolts on both sides of the profile. This enables a fast and secure installation.



UNIQUE STEEL PROFILE JOINT

Chamber tubes and square nuts guide the profiles together.

The travel surface is precise and the trolley travels smoothly through joints with all loads. Conical joints are easy and fast to install.

Up to 30 percent, less installation time per joint, and the alignment has a lifetime guarantee*.

The conical joint has a smart fitting which enables installation in narrow spaces when profiles do not need to be turned around. Squared nuts enable one tool installation.

No special tooling is needed and power tools can be used. Bolt is equipped with tuflock locking material to preserve tightening torque.

*Crane service plan and warranty terms must be fulfilled.

PUSH TROLLEYS

PUSH TROLLEY FOR STEEL PROFILES

The patented trolley is almost silent and its rolling resistance is minimal. The trolley body is steel.

The maximum load per trolley is 800 kg. Various trolley combinations enable loading up to 2000 kg per system.

The push trolley has an integrated rubber buffer in both directions. The push trolley with support wheels can resist upward forces.

SAFETY WITH OVERLOAD INDICATOR

As standard, steel profile systems are equipped with unique and patented overload indicators installed on the push trolley. It indicates profile opening if overloaded.

PUSH TROLLEY FOR ALUMINIUM PROFILES

The push trolley for aluminium profiles is light moving and almost silent. The body of the trolley is made of steel and its wheels can resist upward forces. The maximum load for a single trolley is 600 kg.

Diverse trolley combinations enable loads up to 1000 kg per system. The push trolley has an integrated rubber buffer in both directions.



ARTICULATED SUSPENSION

The PROSYSTEM light crane system includes various types of standard suspensions to mount the crane to the ceiling construction. The articulation ensures light and ergonomic usage of the system.

AS



I-GIRDER SUSPENSION

BS



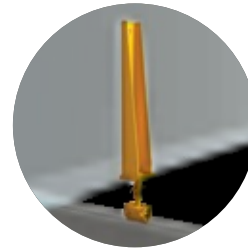
CEILING SUSPENSION

DS



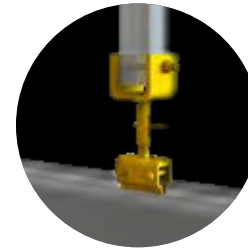
CONCRETE BEAM SUSPENSION

ES



SIDE SUSPENSION

FS



U-SUSPENSION

HS



SUSPENSION TO INCLINED I-GIRDER

LAS



DISTANCE SUSPENSION TO I-GIRDER

LBS



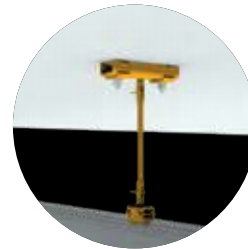
DISTANCE CEILING SUSPENSION

LS



DISTANCE I-GIRDER SUSPENSION WITH SCREWBAR

LB



DISTANCE CEILING SUSPENSION

HD



DISTANCE SUSPENSION TO INCLINED I-GIRDER

CS



SIDE DISTANCE SUSPENSION

FREESTANDING SUPPORT FRAMES

The freestanding light crane system can be installed in locations where the ceiling construction can't carry the crane load.

Freestanding frames also enable fast and flexible changes in the crane's layout. Floor mounted freestanding light crane system enables free usage of a big bridge crane operating in the same hall.

The freestanding frames are manufactured in the same production line as the profiles. This ensures that we can offer you a competitive delivery time for the whole system.



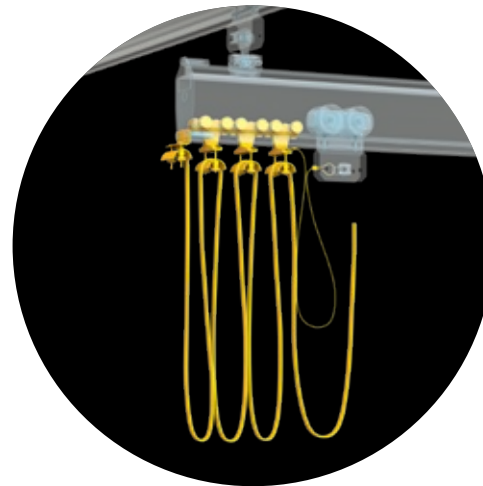
POWER

SOPHISTICATED AND LIGHT INTERNAL CONDUCTOR RAIL

The aluminium profiles 4/180R and 5/220R, as well as steel profiles 200R and 260R, are equipped with an internal conductor rail as standard maximizing the crane's coverage.

The internal conductor rail installed inside the profile is safe from external exposures and it gives the system a sophisticated outlook without any hanging cables.

The friction caused by the internal conductor rail in the crane systems is minimal making even the manual systems very light to use.



The electrical feeding of the PROSYSTEM Light Crane System can also be done with high-quality flat cable - electrical equipment including flat cables running inside the profile or with a conductor rail outside the profile.



POWERED MOVEMENTS



In cases where manual operation of the crane is not possible, the system can be equipped with electrical-powered trolleys. It has two-speed movements as standard and the inverter control guarantees soft movements.

An electrical trolley can be equipped with releasing friction wheel, which enables manual movements of the electric crane.

Electrical movements can be controlled with pendant control, remote control, or a combination of these.

TAILORING AND INNOVATION

With the tailored solutions of the light crane system, even the most challenging lifting and moving requirements can be fulfilled.



SWITCH

The Switch enables connection of two hoist tracks with each other. The maximum load of a switch is 1250 kg. It is available as manually, electrically or pneumatic operated.



TURNTABLE

The turntable enables connection of several hoist tracks with each other. The maximum loading of a turntable is 1250 kg. It is available as electrically or pneumatic operated.



TELESCOPIC CRANE

With the help of a telescopic crane the outreach of the crane can be expanded outside the crane track.



TRACK LOCK

With track lock the load can be transported from a light crane bridge to a hoist track. Track lock is electrically operated and automatically positioned.

Lifting Devices

A comprehensive range of lifting devices are available for use with the PROSYSTEM Lightweight crane system



EVERY CRANE SYSTEM CAN BE SUPPLIED WITH MANUAL OR POWERED HOIST, VACUUM LIFTER WITH A RANGE OF GRIPPERS OR TOOL BALANCERS TO SUIT YOUR SPECIFIC APPLICATION.



DALE LIFTING HAS MORE THAN 290 YEARS OF EXPERIENCE IN THE LIFTING TECHNOLOGY. HUNDREDS OF DEMANDING CRANE SOLUTIONS ARE THE BEST GUARANTEE OF HIGH QUALITY AND THE ABILITY TO IMPLEMENT WORKING SOLUTIONS FOR CUSTOMERS.

EVERY DELIVERED CRANE SYSTEM HAS UNIQUE AND INNOVATIVE WITH SAFETY AND USABILITY BUILT-IN.

DALELIFTING
CRANE  TECHNOLOGY



A New Approach to Product Handling

We make lifting tools and lifting gear too!

Do you need lifting tools that look out for your employees' well-being as well as the company's budget?

Our products and services include specially made lifting tools and installation and maintenance services. All of our products run on air pressure (pneumatic) and are non-combustible. We keep your energy costs down and promote workplace safety.

Gripping tool designed to grasp the load carefully and safely. These grippers can be

- *Vacuum,*
- *Magnetic*
- *or Mechanical*

To best suit the material to be handled. Grippers can also be made capable of manipulating the load – pushing, pulling, rotating and turning-over or up-ending.



***Tell us what you want
to handle and we will
design and install the
perfect system***

***Applications include:
Appliances, Bags, Beverages,
Boards, Boxes, Car components,
Drums, Food, Gas bottles, Glass,
Metals, Parts, Pharmaceuticals,
Reels, Rolls, Sacks, Tubs and more...***

What's so different about our Lifts All System?

Traditional crane or forklift handling solutions are based on this method:

Sling/palletise - Lift – Travel – Manoeuvre - Lower – Place

These brute force load handling techniques may be okay for heavy loads in open controlled areas. But trying to apply these methods in a confined workspace for your worker's everyday manual handling needs is, at best overkill and slow. Or, even worse, absolutely dangerous.

A much better Way

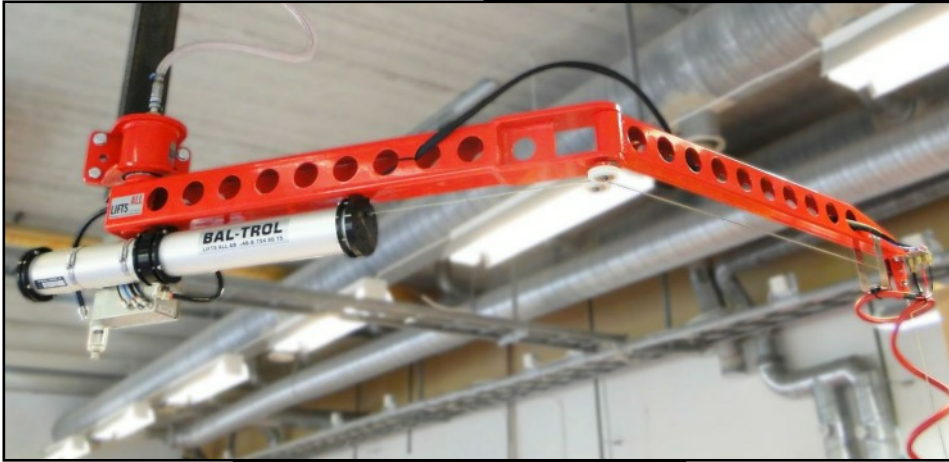
In reality, you need to give your operatives a 'handling tool' that provides them with a safer and more controlled way to handle your products. It should be as if they were actually carrying the load themselves, only with little or no effort!



Our Lifts All system unique features are:

1. **Grip** – *These grippers can be vacuum, magnetic or mechanical to best suit the material to be handled.*
2. **Lift** – *Pneumatic load balancer – "Weightless" lifting, lowering and no-jerk control.*
3. **Move** – *Easy gliding trolleys in an ultra-lightweight Aluminium track system or an articulated jib arm ensures minimal rolling resistance.*
4. **Lower** – *Smoothly and always under the operators control*
5. **Jiggle** – *Pneumatic load balancer allows the operator hands-on final load positioning.*
6. **Place** – *Ergonomic gripper has a quick safety release button operation once load is settled.*

LIFTS ALL



Portable Flexicrane
Take it where
it's needed!



LIFTING WITH
360 degree rotation

The complete package
for any workplace



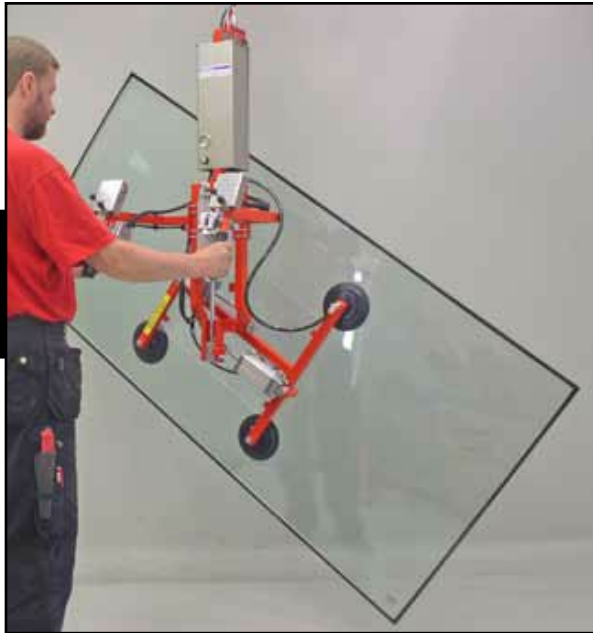
Aluminium Track
Crane with Easy
glide trolleys for
minimal rolling
resistance

The complete system
consists of an optimised
combination of:

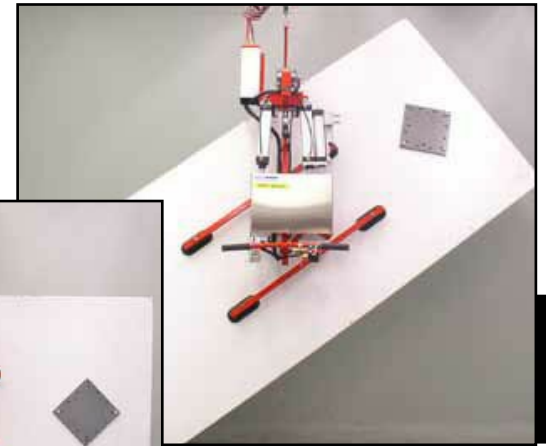
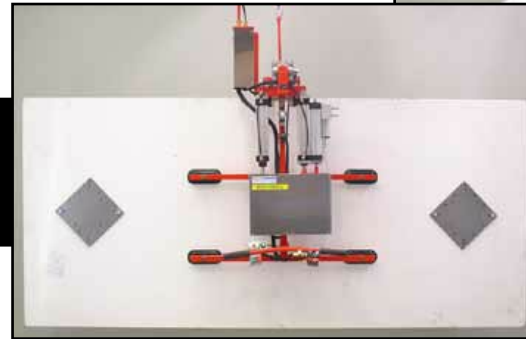
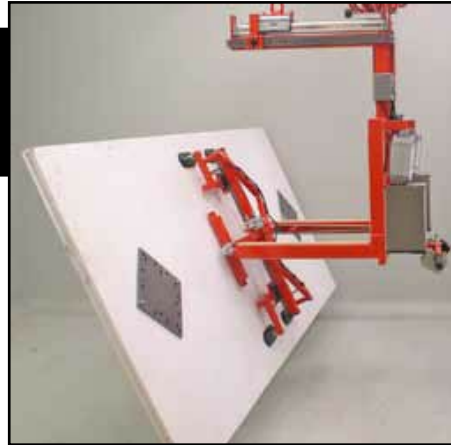
- Bal-Trol, the unique compressed-air powered lifting cylinder
- Gripper, tailor-made for every need
- Lightweight aluminium overhead rail system or jib crane

DALE LIFTING
CRANE TECHNOLOGY

Weightless Handling



Custom made to
your requirements



Lift Turn
Rotate
Up-End

Boards
and
Glass



LIFTS ALL
*The most energy saving
system on the market.*

DALE LIFTING
CRANE TECHNOLOGY

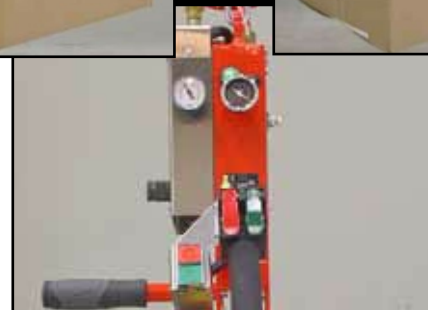


Stacking crates and boxes

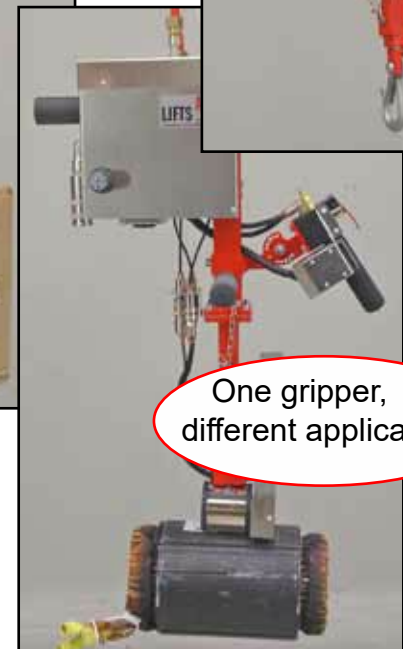


LIFTS ALL

Box Lifters



Car parts



One gripper, different applications



Roll and Reels



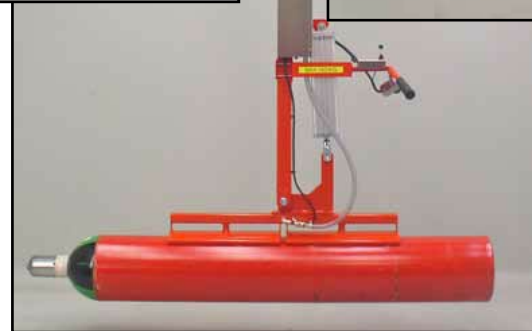
Sacks and Bags



Steel




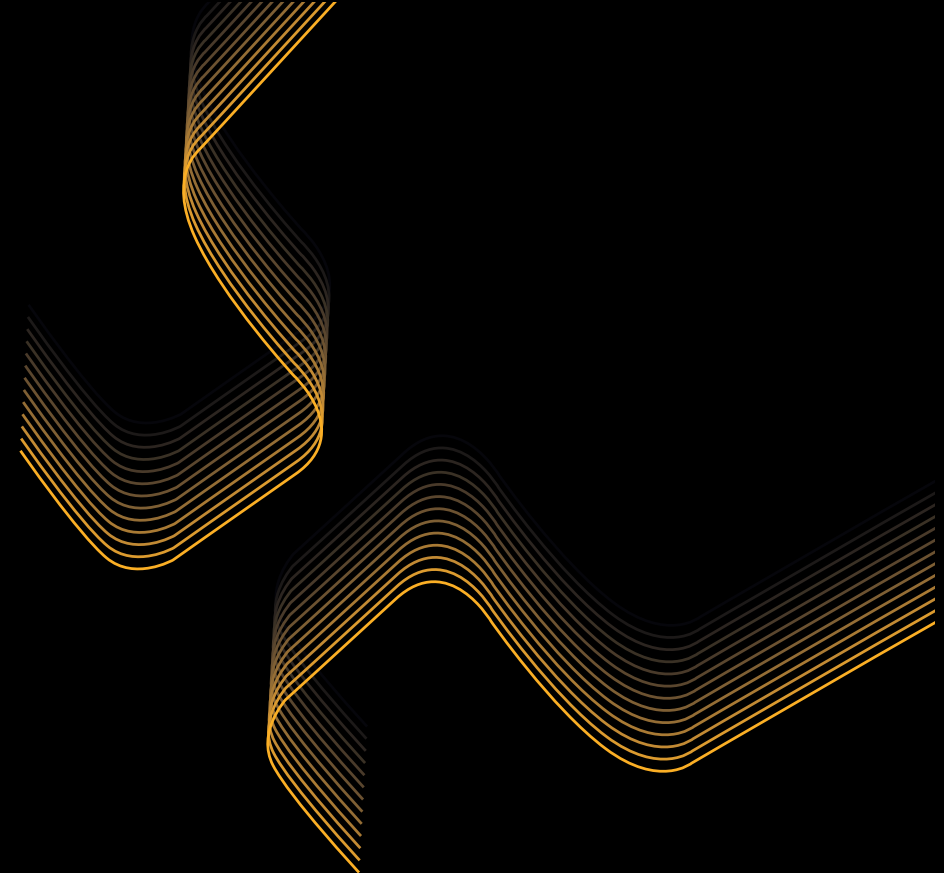
Gas bottles



LIFTS ALL *Weightless Handling*
DALE LIFTING
CRANE TECHNOLOGY

DALELIFTING

CRANE  TECHNOLOGY



DALELIFTING CRANE TECHNOLOGY

is a division of:

DALE Lifting and Handling Specialists

2 Kelbrook Road, off Stainburn Road
Parkhouse Street Industrial Estate
Manchester M11 2QA

Tel: 0161 223 1990 Fax: 0161 223 6767

Email: info@dale-lifting.co.uk

Website: dlhonline.co.uk/cranes