



Material Handling Solutions



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Our Products



Manipulator
Max. Capacity: 80Kg



Manipulator
Max. Capacity: 500Kg



Lift/Rotate Column
Max. Capacity: 60 Tons



AGV / Motorised Trolley - Platform
Max. Capacity: 1000 Tons



Company Registration Number in England: 07511246



1. Material Handling Solutions

At Balbus (UK) Limited, we pride ourselves with ability to provide innovative solutions to meet material handling requirements of various industries with diverse applications.

Our expertise, deep rooted in our wealth of experience and knowledge, covers:

- Industrial manipulator (intelligent weightless load handling equipment) with load lifting capacity of up **500Kg**.
- Motorised gantry with load lifting capacity of up **2,00Kg**.
- Lift and rotate device with load lifting capacity of up **60,000Kg**.
- AGV (Automated Guided Vehicle) with load capacity of up **100 Tons**.
- Motorised trolley/platform with load capacity of up **1000 Tons**.
- **IECEX/ATEX Compliance** available on request.
- Bespoke end-effectors for industrial manipulators, lift/rotate device, motorised gantry and all jibs.
- Bespoke mechanism or clamp device for AGV and motorised trolley/platform.
- Bespoke end-effectors for industrial robot application in Sheet metal, Spraying, food packaging and more.
- Installation, training and maintenance service.
- 3D mechanical design and FEA service.

LionGrip® - Intelligent weightless load handling



Fixed to floor



Extended vertical column

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2. Industrial Manipulator – LionGrip® Intelligent weightless load handling

LionGrip® - Intelligent weightless load handling

Strong and versatile rigid articulated arm manipulator smartly designed to operate like operator's arm.

Incredibly light to move as it takes the weight off the product being handled, making the whole process of load handling completely free of strain.

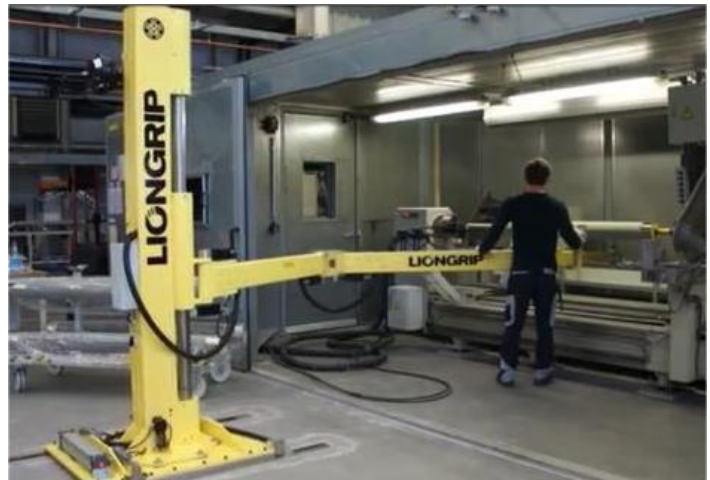
- Maximum radius: 4M and 400° covering area
- **Maximum lifting capacity: 500 kg**
- Vertical lift height: 2M
- Configurations: Column on fix to floor base, extended vertical column and on floor tracks.
- Fast and easy manoeuvrability
- Easier interchange tooling head.
- Air pressure supply: 6 bar
- Electricity supply: 110-230V AC

Note:

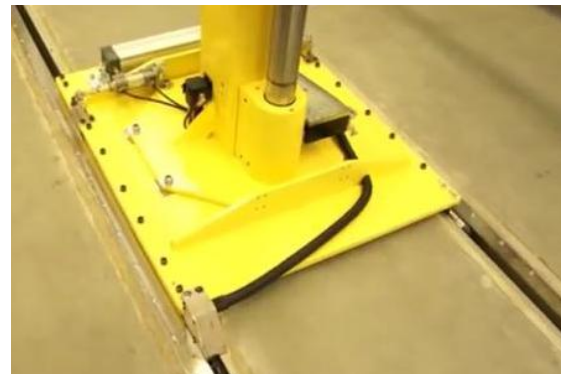
Using floor tracks provides extensive work area. This doubles the radius and increases the work span accordingly.

3. Our Bespoke End Effectors

- Vacuum
- Magnets
- Pneumatic grippers and mandrel
- Forks and pantograph clamps



Floor mounted tracks configuration

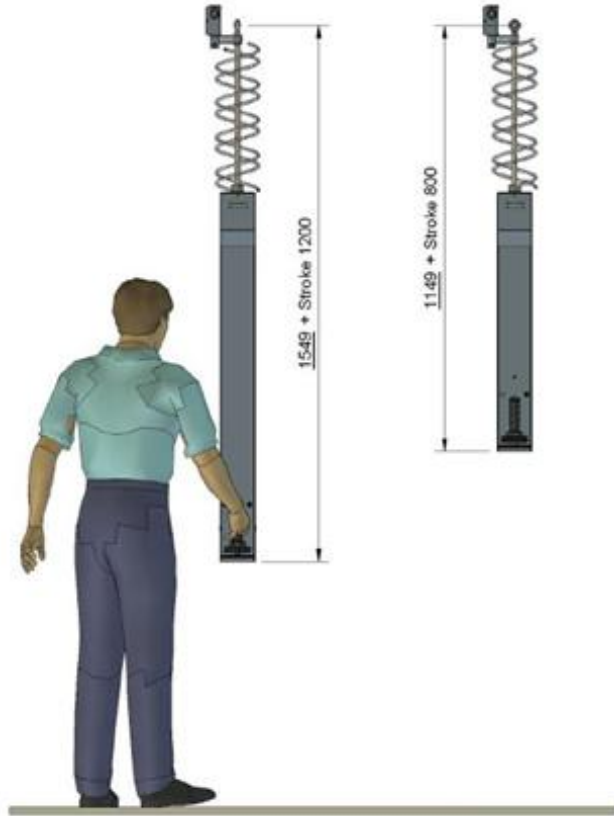


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3. Industrial Manipulator – AirHandle Intelligent weightless load handling

AirHandle Cylinder Lift - AHS



AirHandle Cylinder Lift AHS

Model AHS-150-8 / AHS-150-10 / AHS-150-12

Strong and versatile wire rope weightless load manipulator ideal for various applications. It could be mounted on a column jib or overhead tracks. A vast choice of configurations for this manipulator, which include mounted of jib, uni-directional and bi-directional overhead rails.

- Maximum radius: As per customer requirement.
- **Maximum lifting capacity: 150 kg**
- Vertical lift height: 800 / 1000 / 1200 mm
- Air-driven lifting wire rope
- Fast and easy manoeuvrability
- Easier interchange tooling head.
- Air pressure supply: 6 bar
- Electricity supply: 110-230V AC

AirHandle AHR



AirHandle Jib Crane AHC

Model AHC-80

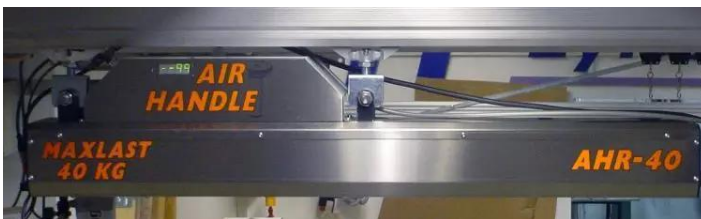
Strong and versatile wire rope weightless load manipulator ideal for various applications.

- Maximum radius: 3M and 360° covering area
- **Maximum lifting capacity: 80 kg**
- Vertical lift height: 2M
- Air-driven lifting wire rope
- Fast and easy manoeuvrability
- Easier interchange tooling head.
- Air pressure supply: 6 bar
- Electricity supply: 110-230V AC

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Industrial Manipulator – AirHandle Intelligent weightless load handling

AirHandle - AHR

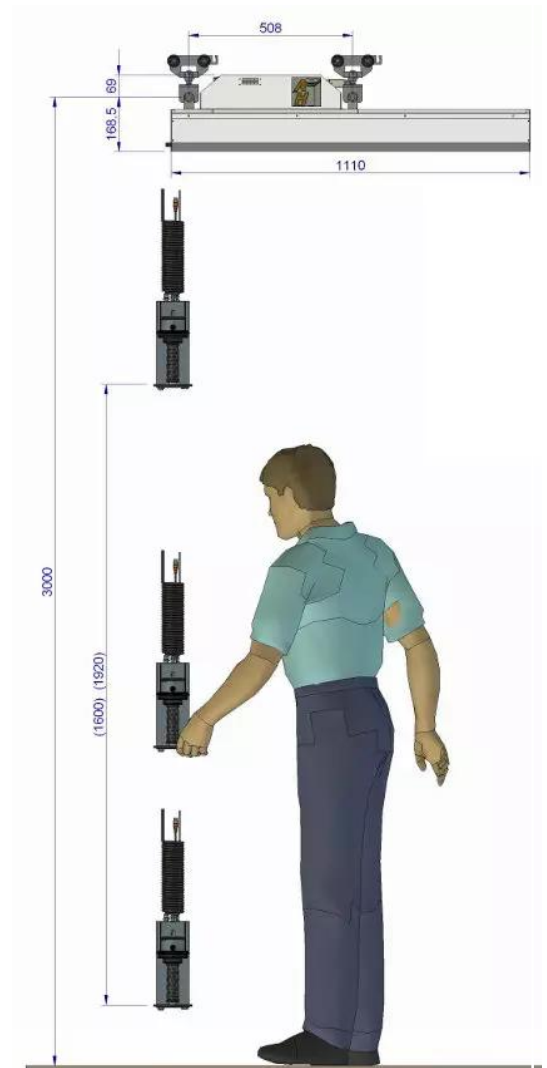


AirHandle AHR

Model AHR-40 / AHR-60

Strong and versatile wire rope weightless load manipulator ideal for various applications.

- Maximum radius: As per customer requirement.
- **Maximum lifting capacity: 40 kg / 60 kg**
- Vertical lift height: 1920 mm / 1600 mm
- Air-driven lifting wire rope
- Fast and easy manoeuvrability
- Easier interchange tooling head.
- Air pressure supply: 6 bar
- Electricity supply: 110-230V AC



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4. Motorised Gantry Crane



Motorized gantry crane - 2000Kg with 5m span 5m and 4m height.

Steel welded gantry crane comprises of the following:

- 2 powered non swivel polyurethane wheels and 2 polyurethane caster wheels
- Electrical equipment with low voltage control 48V
- Power supply cable mounted on overhead track
- Drop down control box for total control of all the movements
- Motor SEW with inverter
- 2 Speeds 20 and 5m/min
- Powered bi-directional movements (gantry moves in all directions through its swivel drive wheels)
- 4 obstacle detectors



5. Hywema Lifting & Rotating Device



HDV MONO

Lifting and rotating device suitable for rotating assembly station or welding activity.

-Lifting Capacity: Up to 10,000 Kg

- $\pm 1,5$ mm lifting tolerance
- $\pm 1^\circ$ rotating tolerance
- SPS control / programmable positions
- Mobile or stationary application
- Conform to European machine guideline 2006/42/EG
- Declaration of conformity
- CE Mark



HDV SHD MONO

Lifting and rotating device suitable for rotating assembly station or welding activity.

-Lifting Capacity: Up to 30,000 Kg

- $\pm 1,5$ mm lifting tolerance
- $\pm 1^\circ$ rotating tolerance
- SPS control / programmable positions
- Mobile or stationary application
- Conform to European machine guideline 2006/42/EG
- Declaration of conformity
- CE Mark

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HDV DUO

Lifting and rotating device suitable for rotating assembly station, welding activity, die tool, mould tool and more.

***Lifting Capacity: Up to 60,000 Kg**

*** $\pm 1,5$ mm lifting tolerance**

*** $\pm 1^\circ$ rotating tolerance**

***SPS control / programmable positions**

***Mobile or stationary application**

***Conform to European machine guideline 2006/42/EG**

***Declaration of conformity**

***CE Mark**



Lift/Rotate Equipment with bespoke mobile carriage.



Lift/Rotate Equipment with bespoke fixed to floor carriage.

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6. AGV / Motorised Trolley-Platform



Morello AGV, a vehicle on wheels for **automated material handling** applications in various industries. Our AGV comes as fully autonomous, operator guided, on rail tracks or pneumatic tyre.

- **Capacity: from 2 up to over 1,000 Tons**
- Steering: standard and multi-directional (90°, diagonal/crab, carousel/360°, front and/or rear, round a point)
- Power supply: battery (induction or featuring diesel generator upon request)
- Traction motors and steering motors: AC
- Type of wheels: rubber or polyurethane and /or rail tracks
- Dimensions: upon request
- Speed: upon request (from 1.2 km/h up to 3 km/h)
- Lifting stroke: upon request (from 50 mm)
- Battery autonomy: upon request (from 1,500 m up to over 15,000 m)
- Command: touch panel on board, notebook at each station, fixed pulpits, customer management and more options
- Operational environment: both indoor and outdoor
- ATEX compliance: upon request (Zone 2, dust and gas)



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Foundry - Forging - Casting

Morello rail transfer cart solutions



Company Registration Number in England: 07511246



Heavy Duty - Mines & Construction Sites



IECEX / ATEX compliance for use in hazardous environment

Essential at the Oil & Gas industry, chemical industry, mines, painting rooms and any other explosive environment.

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7. Company

BALBUS (UK) LIMITED is a tooling design and engineering company specialising in design and manufacturing of materials handling / lifting equipment, lifting attachments / end effectors for manipulators and robots.

The company is the UK distributor for two Swedish engineering companies:

- **Hofpartner AB**
- **Air Handle AB**

Hofpartner AB is the manufacturer of LIONGRIP weightless equipment. They developed, patented and manufacture LIONGRIP. The equipment is sold world-wide.

All design and manufacture of liongrip are done at state of the art facilities in stunning forest and Vänern lake side in Amal, Sweden.

Air Handle AB design and manufacture of AIRHANDLE lifting equipment dedicated to light load.

AirHandle lifting equipment comes in two different configurations: fix to floor and overhead rail.

All AirHandle have articulated arms, but the end-effectors are attached through wire cable.

Balbus (UK) Limited distributes other products such as:

- **German HYWEMA** lift/rotate equipment
- **French Comege** motorised mobile gantry
- **Italian Morello** AGV/motorised trolley-platform

Over the years we continue to supply attachments and lifting equipment to customers in the UK and Sweden thanks to our quality customer service and products of reputable stands.