LHD®

LOAD HANDLING DEVICES - USA

LHD Group
main products

ARES 65 W150

Technical details

Description

The strength of the ARES 65 W150 is its load capacity of 300 kg on each fork, with only 150 mm width of the upper slide. The standard version has a transmission system with racks and pinions. Just like every LHD telescopic fork, the ARES 65 W150 can be supplied in the monofork, pair or battery arrangement.

min. length	700 mm	max. payload	600 kg
max. length	2000 mm	max. acceleration	1 m/s²
min. stroke	800 mm	max. speed	45 m/min
max. stroke	2100 mm		

ARES 65

Technical details

Description

Typical telescopic fork for automated warehouses, designed to move 800x1200 europallets. The upper slides are made of a single bent piece to increase the rigidity, and the ends are arrow-shaped to fit more easily under the pallet. As for the transmission, both chains and racks-and-pinions systems are available.

min. length	400 mm	max. payload	1200 kg
max. length	2000 mm	max. acceleration	1 m/s²
min. stroke	445 mm	max. speed	45 m/min
max. stroke	2100 mm		

ARES 65 K

Technical details

Description

The ARES 65 K is a particular wide-body telescopic monofork, which finds application where the load unit to move is else than a normal pallet (heavy boxes or closed pallets); in this case the load unit must be placed on special stands or L-profile to allow the fork to entry.

min. length	1200 mm	max. payload	1000 kg
max. length	2000 mm	max. acceleration	1 m/s²
min. stroke	1300 mm	max. speed	45 m/min
max. stroke	2100 mm		

ARES 85 K

Technical details

Description

The ARES 85 K relies upon the same design as the 65 K, but with a middle slide thickness increased by 20 mm, which allows the handling of heavier loads (up to 1.750 kg).

min. length	1200 mm	max. payload	1750 kg
max. length	2000 mm	max. acceleration	1 m/s²
min. stroke	1300 mm	max. speed	45 m/min
max. stroke	2100 mm		

ZEUS 165

Technical details

Description

Typical double-depth telescopic fork for europallets. It's a single-engined fork, so the required space when operating is constant.
The upper slides are made of a single bent piece to increase the rigidity, and the ends are arrow-shaped to fit more easily under the pallet.

min. length	1000 mm	max. payload	1200 kg
max. length	1500 mm	max. acceleration	1 m/s²
min. stroke	1900 mm	max. speed	45 m/min
max. stroke	3000 mm		

ZEUS 65-140

Technical details

Description

This is a double-engined, double-depth telescopic fork; in this model, each stroke is operated independently by an engine. Despite its small size, this fork can rely upon a remarkable strength and an outstanding size/ thoughness ratio. It offers excellent performances in the work cycles, making the depth shift quicker.

min. length	1100 mm	max. payload	500 kg
max. length	1500 mm	max. acceleration	1 m/s²
min. stroke	2000 mm	max. speed	45 m/min
max. stroke	3000 mm		

ZEUS 65-165

Technical details

Description

The ZEUS 65-165 has small size, high operating speed and small bending when picking up/laying down loads, with independently-operated engines. The upper slides are made of a single bent piece to increase the rigidity, and the ends are arrow-shaped to fit more easily under the pallet.

min. length	**1100 mm**	**max. payload**	**1200 kg**
max. length	**1500 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**2000 mm**	**max. speed**	**45 m/min**
max. stroke	**3000 mm**		

ZEUS 70-172

Technical details

Description

It's an enhanced version of the ZEUS 65-165. The 70-172 keeps all the peculiar features of the smaller sister, but with a higher load capacity. It's particularly fit for storage plants within bigger production facilities. Its shape allows attaining the highest moment of inertia of all telescopic forks currently on the market.

min. length	**1100 mm**	**max. payload**	**1300 kg**
max. length	**1800 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**2400 mm**	**max. speed**	**45 m/min**
max. stroke	**3300 mm**		

ZEUS 80-182

Technical details

Description

This is an even stronger version of the ZEUS 70-172. It keeps all the peculiar features of the twin-engined ZEUS series, but with an even higher carrying capacity (up to 1.600 kg).

min. length	**1100 mm**	**max. payload**	**1600 kg**
max. length	**1800 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**2400 mm**	**max. speed**	**45 m/min**
max. stroke	**3300 mm**		

CRONOS 185

Technical details

Description

Little sister of the more powerful CRONOS 248, the CRONOS 185 finds its application in the handling of pallets in triple depth. Simpler and easier than the 248, it perfectly fulfills the needs of those customer who need to move medium loads with long strokes for picking and laying.

min. length	**1300 mm**	**max. payload**	**1000 kg**
max. length	**1600 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**3000 mm**	**max. speed**	**45 m/min**
max. stroke	**3700 mm**		

CRONOS 248

Technical details

Description

With its overall thickness of 248 mm, this equipment represents the solution to borderline cases in the sector of the linear handling. It finds application where a normal double-depth telescopic fork would be beyond the stroke limit, or where an even smaller bending, all other parameters being equal, is needed.

min. length	**1300 mm**	**max. payload**	**1200 kg**
max. length	**1600 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**3000 mm**	**max. speed**	**45 m/min**
max. stroke	**3700 mm**		

CRONOS G3

Technical details

Description

CRONOS G3 relies upon LHD's patented plug-and-play triple drive (3 motors and 3 independent gear trains) to operate in all 3 depths separately, keeping a thickness of the sliding elements of only 65 mm for the single-depth stroke, and 165 mm for the double-depth stroke (optionally, with 5 mm more thickness).

std. length	**1700 mm**	**max. payload**	**1200 kg**
std. TD stroke	**4150 mm**	**max. accel.**	**1,5 m/s²**
		max. speed	**100 m/min**

HEPHAESTUS

Technical details

Description

This machine can handle loads up to 800 kg with a low deflection, despite its thickness of just 55 mm. The peculiar arrangement of its gear train allows to cover the middle slide completely, making the HEPHAESTUS particularly recommended for "dirty" working environments (e.g. sand molded casting).

min. length	**1000 mm**	**max. payload**	**800 kg**
max. length	**1500 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**1100 mm**	**max. speed**	**45 m/min**
max. stroke	**1600 mm**		

CERBERUS X1

Technical details

Description

The CERBERUS X1 allows handling pallets with a load capacity up to 1.500 kg. The rotation and translation speed is as fast as 30m/min. Thanks to this system, the pallets can be set down and picked up even rotated by 90° compared to the standard position on shelves. Both movements can be carried out simultaneously.

min. length	**1700 mm**	**max. payload**	**1500 kg**
max. length	**2000 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**1350 mm**	**max. speed**	**25 m/min**
max. stroke	**1650 mm**		

SPHINX

Technical details

Description

The SPHINX is a moving carriage, designed to be installed on the vertical mast of forklift trucks, allowing them to act as a stacker crane on wheels; this way, a forklift can pick up and lay down pallets laterally in a warehouse, making it possible to operate in narrower aisles.

min. length	**1000 mm**	**max. payload**	**1500 kg**
max. length	**1500 mm**		

VARIAXIS

Technical details

Description

It's possible to handle different kinds of load units by installing the fork set on a VARIAXIS. It's a relatively simple system that makes the stocking operation more flexible. A motor operates a system of screws with recirculating balls and prismatic rails; it's possible to shift only one fork, or both of them symmetrically.

max. adjustment range	**2000 mm**	**max. payload**	**2000 kg**
mobile forks	**1 or 2**	**max. adjustment speed**	**10 m/min**

ARES 140 SLV

Technical details

Description

Smaller sister of the ATHENA 220 SLV, in this type of telescopic fork the high moment of inertia totally lies in its arm thickness rather than in its width. It's designed to pass through particularly narrow openings, although it can handle notably heavy loads, such as big metal or paper coils, with low bending and long life cycle.

min. length	**1000 mm**	**max. payload**	**1600 kg**
max. length	**1900 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**1100 mm**	**max. speed**	**45 m/min**
max. stroke	**12000 mm**		

ATHENA 183

Technical details

Description

This model of the heavy-duty ATHENA series is particularly suitable for handling heavy loads with long strokes and low bending. In its version with inclined slides is expressly designed to handle big size coils.

min. length	**1500 mm**	**max. payload**	**5000 kg**
max. length	**3000 mm**	**max. acceler.**	**0,5 m/s²**
min. stroke	**1600 mm**	**max. speed**	**30 m/min**
max. stroke	**3200 mm**		

ATHENA 220 SLV

Technical details

Description

Bigger sister of the ARES 140 SLV, in this type of telescopic fork the high moment of inertia totally lies in its arm thickness rather than in its width. It's designed to pass through particularly narrow openings, although it can handle notably heavy loads, such as big metal or paper coils, with low bending and long life cycle.

min. length	**1300 mm**	**max. payload**	**4000 kg**
max. length	**2900 mm**	**max. acceler.**	**0,5 m/s²**
min. stroke	**1400 mm**	**max. speed**	**30 m/min**
max. stroke	**3000 mm**		

CERBERUS X2

Technical details

Description

The CERBERUS X2 is designed to handle coils, up to 1.500 kg heavy. The rotation and translation speed is as fast as 30m/min. Both movements can be carried out simultaneously.

min. length	**1700 mm**	**max. payload**	**1500 kg**
max. length	**2000 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**1350 mm**	**max. speed**	**25 m/min**
max. stroke	**1650 mm**		

CERBERUS X3

Technical details

Description

The CERBERUS X3 is a single-sided sideshift suitable for picking up pallets or coils on all sides. It is equipped with a rotary table for a 360° storage. Its carrying capacity is as high as 2.500 kg.

min. length	**1600 mm**	**max. payload**	**2500 kg**
max. length	**2300 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**1100 mm**	**max. speed**	**25 m/min**
max. stroke	**1800 mm**		

ARES 100

Technical details

Description

It's a very versatile and useful telescopic fork, entirely operated by racks and pinions, to pass through narrower openings other forks don't fit in. Although its limited thickness, the ARES 100 benefits from an outstanding carrying capacity resulting in a high moment of inertia, a small bending and a high speed.

min. length	**1000 mm**	**max. payload**	**800 kg**
max. length	**2000 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**1100 mm**	**max. speed**	**45 m/min**
max. stroke	**2100 mm**		

ATHENA 100

Technical details

Description

This is the smaller product of the ATHENA heavy series. Its strong structure allows remarkable lengths and strokes. Its ultimate application field is the automotive industry; it's also suitable for the sectors of wood (panels), paper (rolls) and steel (coils). It's available both with racks-and-pinions and with chain transmission.

min. length	**900 mm**	**max. payload**	**2000 kg**
max. length	**2200 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**950 mm**	**max. speed**	**45 m/min**
max. stroke	**2300 mm**		

ATHENA 130

Technical details

Description

Intermediate fork of the ATHENA series, it's a versatile and safe device equipment, with a remarkably small bending. It's the most used fork of this series, because despite its thoughness it preserves good operating speed and working paces. It's available both with racks and pinions and with chains.

min. length	**1500 mm**	**max. payload**	**2500 kg**
max. length	**2200 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**1600 mm**	**max. speed**	**45 m/min**
max. stroke	**2300 mm**		

ATHENA 130 W250

Technical details

Description

This ATHENA for special applications allows handling heavy loads with long strokes and small bending. Not suitable for high speeds and accelerations, it works at its best where thoughness, repeatability and fatigue stress are required. As for the transmission, it's available both with racks and pinions and with chains.

min. length	**1100 mm**	**max. payload**	**4000 kg**
max. length	**2500 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**1200 mm**	**max. speed**	**45 m/min**
max. stroke	**2600 mm**		

ATHENA 270

Technical details

Description

It's a very strong, though and performing telescopic fork. Thanks to its though structure, the ATHENA 270 has a very small bending, even when carrying heavy loads. It's particularly suitable for the handling of car bodies and chassis within the automotive sector.

min. length	**1300 mm**	**max. payload**	**20000 kg**
max. length	**2900 mm**	**max. acceler.**	**0,5 m/s²**
min. stroke	**1400 mm**	**max. speed**	**20 m/min**
max. stroke	**3000 mm**		

GOLIATH

Technical details

Description

Our GOLIATH, also known by its nickname Tipper, is indeed designed to tip over, by means of its pivoting framework, big hoppers in plants for chemical or food industry, to pour the contents into chemical reactors, autoclaves and such appliances.

minimum hopper height above ground	**1000 mm**	**tipping angle**	**180°**
		max. payload	**1600 kg**
maximum hopper height above ground	**1700 mm**		

HERMES

Technical details

Description

The HERMES, operating jointly with telescopic forks for special loads, allows the operator to cherry-pick the desired items from a multiple storage, with an on-board selection system that lifts the items to keep while the telescopic forks put back down the remaining units. Also available for miniload boxes.

load units q.ty	**up to 5**	**max. u. payload**	**300 kg**
max. vertical stroke	**450 mm**	**max. acceleration**	**0,5 m/s²**
		max. speed	**10 m/min**

CYCLOPS

Technical details

Description

The strong points of this monofork are its high moment of inertia and its relatively small size. With only 140 mm thickness, it can pick up a 2000 kg load in double depth alone, despite the small bending and the high work pace it can reach. It's very useful for all those tasks where there's no room for a typical pair of forks.

min. length	**1300 mm**	**max. payload**	**2000 kg**
max. length	**2000 mm**	**max. acceler.**	**0,5 m/s²**
min. stroke	**2650 mm**	**max. speed**	**30 m/min**
max. stroke	**3900 mm**		

ARES 30

Technical details

Description

The ARES 30 fork is designed to handle loads with limited weight, especially where a good size/load ratio is required. Chains and pulleys provide the movement of the top element. This light series of telescopic fork achieves remarkable performances as for top speed and acceleration.

min. length	**600 mm**	**max. payload**	**15 kg**
max. length	**900 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**700 mm**	**max. speed**	**45 m/min**
max. stroke	**1000 mm**		

ARES 40 W120

Technical details

Description

The ARES 40 W120 fork is designed to handle loads with limited weight, especially where a good size/load ratio is required. Chains and pulleys provide the movement of the top element. This light series of telescopic fork achieves remarkable performances as for top speed and acceleration.

min. length	**650 mm**	**max. payload**	**80 kg**
max. length	**1250 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**750 mm**	**max. speed**	**45 m/min**
max. stroke	**1350 mm**		

ARES 40 W150

Technical details

Description

The ARES 40 W150 fork is designed to handle loads with limited weight, especially where a good size/load ratio is required. Chains and pulleys provide the movement of the top element. This light series of telescopic fork achieves remarkable performances as for top speed and acceleration.

min. length	**650 mm**	**max. payload**	**100 kg**
max. length	**1350 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**750 mm**	**max. speed**	**45 m/min**
max. stroke	**1450 mm**		

ARES 40 W220

Technical details

Description

It's the most important fork within the ARES miniload series, meant for unusual, bulky and heavy loads. It's driven through a chains/gears compound, to reach remarkable top speeds and accelerations. The wider top plate (with grip pad) allows carrying the load safely and firmly, in high-performaces mini-load plants.

min. length	**650 mm**	**max. payload**	**120 kg**
max. length	**1450 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**750 mm**	**max. speed**	**45 m/min**
max. stroke	**1550 mm**		

ZEUS 75

Technical details

Description

Being the double-depth version of the ARES 40, the ZEUS 75 is fit for those applications where a small space of the slides is required. The steel/aluminium fixed body reduces the overall weight. The ZEUS 75 is recommended as single fork with a larger plate on top, to handle small carton or plastic boxes.

min. length	**700 mm**	**max. payload**	**100 kg**
max. length	**1200 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**1300 mm**	**max. speed**	**45 m/min**
max. stroke	**2400 mm**		

ZEUS 85

Technical details

Description

Being the thicker version of the ZEUS 75, the ZEUS 85 is fit for those applications where a small space of the slides is required. The steel/aluminium fixed body reduces the overall weight. The ZEUS 85 is recommended as single fork with a larger plate on top, to handle small carton or plastic boxes.

min. length	**700 mm**	**max. payload**	**120 kg**
max. length	**1200 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**1300 mm**	**max. speed**	**45 m/min**
max. stroke	**2400 mm**		

PHOEBUS X1

Technical details

Description

Designed for backing up the telescopic forks, the side belt conveyor allows moving the loads onboard simultaneously. The fork set can pick up the load from the shelf, and then the PHOEBUS can lay it down in the unloading bay with no need of telescopic stroke. The X1 version has 1 pair of side belts (for single depth).

min. length	**420 mm**	**max. payload**	**50 kg**
max. length	**1250 mm**	**max. acceleration**	**1 m/s²**
		max. speed	**45 m/min**

PHOEBUS X2

Technical details

Description

Designed for backing up the telescopic forks, the side belt conveyor allows moving the loads onboard simultaneously. The fork set can pick up the load from the shelf, and then the PHOEBUS can lay it down in the unloading bay with no need of telescopic stroke. The X2 version has 2 pairs of side belts (for double depth).

min. length	**420 mm**	**max. payload**	**2x50 kg**
max. length	**1250 mm**	**max. acceleration**	**1 m/s²**
		max. speed	**45 m/min**

MEDUSA

Technical details

Description

The MEDUSA is essentially a double-depth telescopic fork (usually in a monofork arrangement) equipped with a further moving plate that can shift along the top slide, regardless the position of the fork, allowing to change the position of a load unit that sits on the upper slide according to customer needs, with no need of side belts.

min. length	**650 mm**	**max. payload**	**100 kg**
max. length	**1200 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**1300 mm**	**max. speed**	**45 m/min**
max. stroke	**2400 mm**		

ARACHNE X4

Technical details

Description

The ARACHNE X4 can carry out the handling of 1 50 kg heavy plastic box (or carton) about as big as 600x400 mm in single depth; in the picking phase, two telescopic arms reach the load on the shelf and, by means of small pivoting fingers, drag it onboard the shuttle. Its light structure allows high work speeds.

min. length	**700 mm**	**max. payload**	**50 kg**
max. length	**1200 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**850 mm**	**max. speed**	**45 m/min**
max. stroke	**1300 mm**		

ARACHNE X6

Technical details

Description

The ARACHNE X6 can carry out the handling of 2 50 kg heavy plastic boxes (or cartons) about as big as 600x400 mm in single depth; in the picking phase, two telescopic arms reach the load on the shelf and, by means of small pivoting fingers, drag it onboard the shuttle. Its light structure allows high work speeds.

min. length	**900 mm**	**max. payload**	**2x50 kg**
max. length	**1350 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**1000 mm**	**max. speed**	**45 m/min**
max. stroke	**1450 mm**		

ARACHNE X8

Technical details

Description

The ARACHNE X8 can simultaneously handle 3 600x400 mm plastic or cardboard boxes, weighing up to 40 kg each in single depth; during the picking phase, two telescopic arms reach the load on the shelf and, by means of small mobile fingers, drag it onto the shuttle.

min. length	**1300 mm**	**max. payload**	**3x40 kg**
max. length	**2015 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**1375 mm**	**max. speed**	**45 m/min**
max. stroke	**2070 mm**		

ARACHNE X10

Technical details

Description

The ARACHNE X10 can simultaneously handle 4 300x400-mm plastic or cardboard boxes, or 2 600x400-mm boxes, with an overall load of 100 kg; during the picking phase, two telescopic arms reach the load on the shelf and, by means of small mobile fingers, drag it onto the shuttle.

min. length	**1550 mm**	**max. payload**	**4x25 kg**
max. length	**2015 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**1605 mm**	**max. speed**	**45 m/min**
max. stroke	**2070 mm**		

ARACHNE XX4

Technical details

Description

The ARACHNE XX4 can carry out the handling of 1 50 kg heavy plastic box (or carton) about as big as 600x400 mm in double depth; in the picking phase, two telescopic arms reach the load on the shelf and, by means of small pivoting fingers, drag it onboard the shuttle. Its light structure allows high work speeds.

min. length	700 mm	max. payload	50 kg
max. length	1300 mm	max. acceleration	1 m/s²
min. stroke	1400 mm	max. speed	45 m/min
max. stroke	2400 mm		

ARACHNE XX6

Technical details

Description

The ARACHNE XX6 can carry out the handling of 2 30 kg heavy plastic boxes (or cartons) about as big as 600x400 mm in double depth; in the picking phase, two telescopic arms reach the load on the shelf and, by means of small pivoting fingers, drag it onboard the shuttle. Its light structure allows high work speeds.

min. length	800 mm	max. payload	2x30 kg
max. length	1350 mm	max. acceleration	1 m/s²
min. stroke	1400 mm	max. speed	45 m/min
max. stroke	2450 mm		

ARACHNE XXX6

Technical details

Description

The ARACHNE XXX6 can carry out the handling of 2 30 kg heavy plastic boxes (or cartons) about as big as 600x400 mm in triple depth; in the picking phase, two telescopic arms reach the load on the shelf and, by means of small pivoting fingers, drag it onboard the shuttle. Its light structure allows high work speeds.

min. length	800 mm	max. payload	2x30 kg
max. length	1350 mm	max. acceleration	1 m/s²
min. stroke	1700 mm	max. speed	45 m/min
max. stroke	2885 mm		

ARACHNE Z4

Technical details

Description

The ARACHNE Z4 consists of a telescopic monofork operating upside down, whose last element includes small pivoting fingers, designed to drag light loads, such as carton or plastic boxes, on idle roller conveyors or similar surfaces, in a push/pull operation. With its light structure, it can attain remarkable work speeds.

min. length	850 mm	max. payload	50 kg
max. length	1000 mm	max. acceleration	1 m/s²
min. stroke	1450 mm	max. speed	45 m/min
max. stroke	2000 mm		

KARKINOS X

Technical details

Description

The KARKINOS is the best solution for handling plastic boxes or cartons in single depth, with high speed and reliability. It doesn't require much maintenance and it's easy to operate. With no mobile dragging "fingers", it can handle the load in a very simple way through a clamping movement.

min. length	600 mm	max. payload	100 kg
max. length	1200 mm	max. acceleration	1 m/s²
min. stroke	700 mm	max. speed	45 m/min
max. stroke	1300 mm		

KARKINOS XX

Technical details

Description

The KARKINOS XX is the double-depth version of the KARKINOS X, to handle up to 4 plastic boxes or cartons per side (2 at once).

min. length	600 mm	max. payload	100 kg
max. length	1200 mm	max. acceleration	1 m/s²
min. stroke	1100 mm	max. speed	45 m/min
max. stroke	2200 mm		

KARKINOS R

Technical details

Description

The KARKINOS R allows handling pallets or trays in single depth along an idle roller conveyor, with high speed and reliability. It's easy to operate and it doesn't require much maintenance. With no mobile dragging "fingers", it can handle the load in a very simple way.

max. length	**2500 mm**	**max. payload in push/pull mode**	**1300 kg**
max. stroke	**1450 mm**	**max. acceleration**	**1 m/s²**
		max. speed	**45 m/min**

KHARON

Technical details

Description

This equipment carries out its operation by means of two cams ("fingers") moving along one or two chain loops that enable the picking. The KHARON allows picking up and laying down in automated warehouses so-called "trays", through appropriately shaped edges on both sides of these containers.

min. length	**785 mm**	**max. payload**	**100 kg**
max. length	**1385 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**865 mm**	**max. speed**	**45 m/min**
max. stroke	**1465 mm**		

GRYPHON

Technical details

Description

Operating jointly with telescopic forks for miniload (usually monoforks), the GRYPHON can help to keep load units aligned and stable in the moving phases, especially in case of light but voluminous carton boxes, preventing misalignments on the shelves that could result in collisions.

max. length	**1000 mm**	**max. speed**	**2 m/min**

PEGASUS

Technical details

Description

When it comes to push/pull the load, PEGASUS is the right solution. It's a single-depth telescopic fork with internal double gear train transmission, to handle up to 4.000 kg in push/pull mode. Just like normal telescopic forks, it can also be used to lift the load, the capacity depending on the thickness.

min. length	**1000 mm**	**max. payload in push/pull mode**	**4000 kg**
max. length	**2600 mm**	**max. acceleration**	**1 m/s²**
min. stroke	**1100 mm**	**max. speed**	**45 m/min**
max. stroke	**2700 mm**		

TITAN

Technical details

Description

The TITAN is a new concept of electrically operated scissor lift: all of the now-existing machines of this kind need the center of gravity of the load to fall within their footprint. Conversely, this remarkably robust and sturdy equipment has been specifically designed to lift heavy loads in a cantilever mode.

maximum vertical stroke	**1000 mm**	**max. payload**	**1800 kg**
		lifting time	**10 s**

ATLAS X1

Technical details

Description

To ensure efficiency, an accurate, reliable, maintenance-free and powerful system is needed. Hence, our ATLAS X1 is entirely gear-driven - unlike our competitors' ones, relying on chains - with a single-body chassis and a lifting movement carried out through eccentric cams.

minimum vertical stroke	**60 mm**	**max. payload**	**2000 kg**
		lifting time	**5 s**
maximum vertical stroke	**120 mm**		

ATLAS X2

Technical details

Description

To ensure efficiency, an accurate, reliable, maintenance-free and powerful system is needed. Hence, our ATLAS X2 is entirely gear-driven - unlike our competitors' ones, relying on chains - with a single-body chassis and a lifting movement carried out through gears and racks.

minimum vertical stroke	**60 mm**	**max. payload**	**2000 kg**
maximum vertical stroke	**180 mm**	**lifting time**	**8 s**

ATLAS X3

Technical details

Description

This specific version of the ATLAS Lift allows adding a tilting movement by -3° or +3°, useful in some applications with gravity ramps, such as gravity flow racking.

maximum tilting angle	**+/- 3°**	**max. payload**	**1200 kg**
		tilting time	**6 s**

GEMINI X1/X2

Technical details

Description

It's a narrow-body version of our ATLAS Lift, driven through eccentric cams. The GEMINI X1 is meant to provide the lifiting movement of monoforks, whereas the X2 version can be integrated to couples of telescopic forks, allowing for a considerably lighter structure compared to the ATLAS series.

minimum vertical stroke	**60 mm**	**max. payload (X2)**	**1200 kg**
maximum vertical stroke	**120 mm**	**lifting time**	**5 s**

ARCHIMEDES X1/X2

Technical details

Description

ARCHIMEDES X1 and X2 are leverage lift systems which are able to lift significant loads with repeatability and accuracy. Not using chains nor gears for lifting, they are exceptional pieces of equipment as regards the close-to-zero maintenance needed and the very low operating noise level.

minimum vertical stroke	**60 mm**	**max. payload (X2)**	**5000 kg**
maximum vertical stroke	**150 mm**	**lifting time**	**10 s**

HEMERA

Technical details

Description

The HEMERA is an additional system that can be added to telescopic forks, to allow for a complete rotation on a vertical axis (typically by 180°, but potentially by any angle required by the customer's system arrangement), and whose dimensions depend on the fork model, size, and calculated payload.

max. payload	**1700 kg**	**180° rotation time**	**5 s**

APOLLO

Technical details

Description

The APOLLO is a compound system (telescopic forks + conveyor), meant to improve the functionality of the handling device. With closed forks, the conveyor lifts, handling the pallet separately. It allows to reduce the cycle times within the automated warehouses, and to improve the positioning of the load on the shelf.

min. length	**1000 mm**	**max. payload**	**1500 kg**
max. length	**1700 mm**	**max. speed**	**25 m/min**
maximum vertical stroke	**60 mm**		

CARLSON-DIMOND & WRIGHT, INC.

CDWdrives (LHD-USA) is the North American integrator and official service center for LHD, a global leader in specialized telescopic forks and advanced load-handling systems.

From standard pallet and carton handling to fully customized applications, LHD solutions are engineered for high-performance automation environments where precision and repeatability are critical.

We deliver proven, real-world solutions backed by dedicated North American service and support—helping you confidently launch new automation initiatives, upgrade existing load-handling systems, or implement advanced storage strategies.

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