

LHD[®]

LOAD HANDLING DEVICES



LHD Group main products



SEOJIN

(주)G&S서진

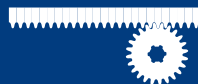
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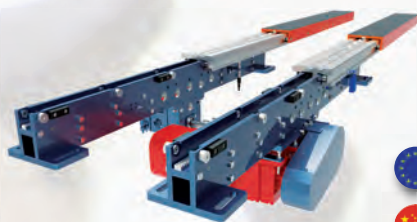
2020-PR-05



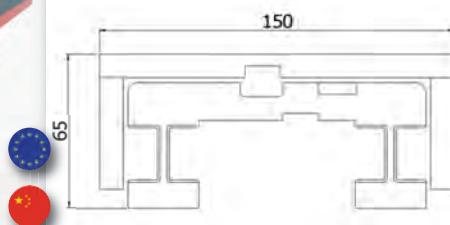


PALLET
WAREHOUSES

ARES 65 W150



Technical details



Description

The strength of the ARES 65 W150 is its load capacity of 400 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.

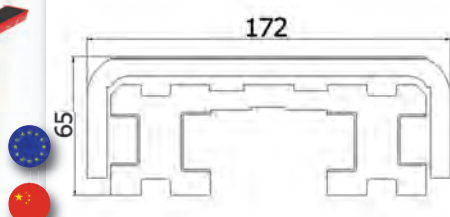
min. length	600 mm	max. payload	600 kg
max. length	2000 mm	max. acceleration	1 m/s ²
min. stroke	650 mm	max. speed	45 m/min
max. stroke	2100 mm		

PAPER AND
STEEL COILS

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.

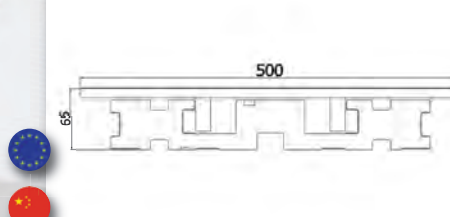
min. length	750 mm	max. payload	1500 kg
max. length	2000 mm	max. acceleration	1 m/s ²
min. stroke	770 mm	max. speed	45 m/min
max. stroke	2100 mm		

AUTOMOTIVE AND
SPECIAL LOADS

ARES 65 K



Technical details



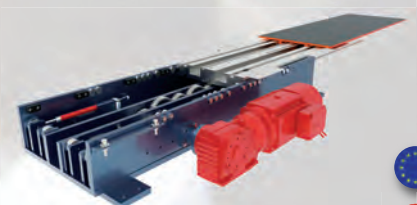
Description

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.

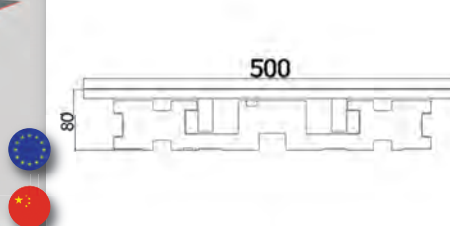
min. length	1200 mm	max. payload	1500 kg
max. length	2000 mm	max. acceleration	1 m/s ²
min. stroke	1300 mm	max. speed	45 m/min
max. stroke	2100 mm		

CARTON LOADERS
AND MINILoads

ARES 80 K



Technical details



Description

The ARES 80 K relies upon the same design as the 65 K, but with a middle slide thickness increased by 15 mm, which allows the handling of heavier loads (up to 2.000 Kg).

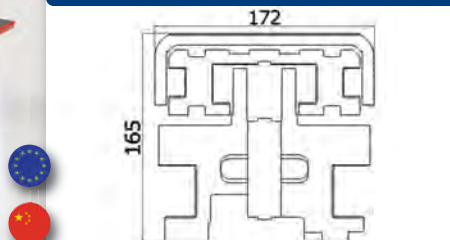
min. length	1200 mm	max. payload	2000 kg
max. length	2000 mm	max. acceleration	1 m/s ²
min. stroke	1300 mm	max. speed	45 m/min
max. stroke	2100 mm		

PUSH
& PULL

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.

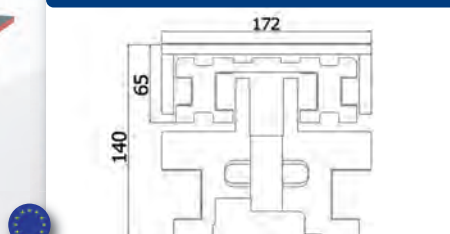
min. length	1000 mm	max. payload	1200 kg
max. length	1500 mm	max. acceleration	1 m/s ²
min. stroke	1900 mm	max. speed	45 m/min
max. stroke	3000 mm		

LIFTING
UNITS

ZEUS 65-140



Technical details

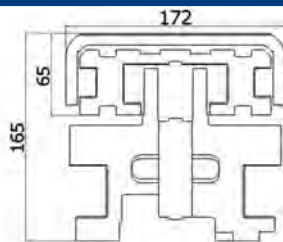


Description

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/ toughness ratio. It offers excellent performances in the work cycles, making the depth shift quicker.

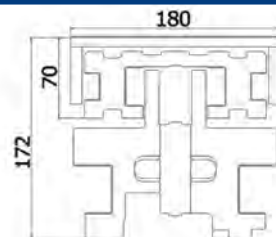
min. length	1000 mm	max. payload	600 kg
max. length	1500 mm	max. acceleration	1 m/s ²
min. stroke	1900 mm	max. speed	45 m/min
max. stroke	3000 mm		

TRANSFER
UNITS

**ZEUS 65-165****Technical details****Description**

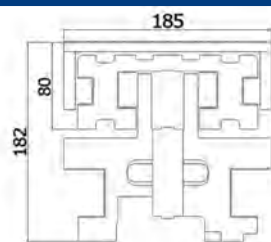
The ZEUS 65-165 has small size, high operating speed and small bending when picking up/laying down loads, with independently-operated engines. The upper slides are made of a single bent piece to increase the rigidity, and the ends are arrow-shaped to fit more easily under the pallet.

min. length	1000 mm	max. payload	1200 kg
max. length	1500 mm	max. acceleration	1 m/s ²
min. stroke	1900 mm	max. speed	45 m/min
max. stroke	3000 mm		

ZEUS 70-172**Technical details****Description**

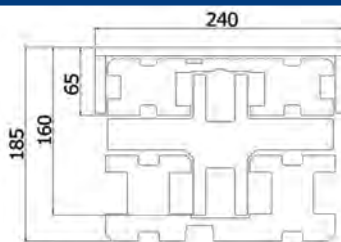
It's an enhanced version of the ZEUS 65-165. The 70-172 keeps all the peculiar features of the smaller sister, but with a higher load capacity. It's particularly fit for storage plants within bigger production facilities. Its shape allows attaining the highest moment of inertia of all telescopic forks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

min. length	1000 mm	max. payload	1500 kg
max. length	1500 mm	max. acceleration	1 m/s ²
min. stroke	1900 mm	max. speed	45 m/min
max. stroke	3000 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 2.000 Kg).

min. length	1000 mm	max. payload	2000 kg
max. length	1500 mm	max. acceleration	1 m/s ²
min. stroke	1900 mm	max. speed	45 m/min
max. stroke	3000 mm		

CRONOS 185**Technical details****Description**

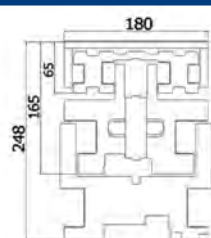
Little sister of the more powerful CRONOS 248, the CRONOS 185 finds its application in the handling of pallets in triple depth. Simpler and easier than the 248, it perfectly fulfills the needs of those customer who need to move medium loads with long strokes for picking and laying.

min. length	1300 mm	max. payload	1000 kg
max. length	1600 mm	max. acceleration	1 m/s ²
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/s ²
min. stroke	3000 mm	max. speed	45 m/min
max. stroke	3700 mm		

CRONOS 165-248**Technical details****Description**

Same as a normal CRONOS 248, but with a twin drive (2 motors and 2 independent gear trains) allowing to operate the double and the triple depth separately, carrying out a double-depth stroke with only 165 mm thickness of its moving elements.

min. length	1300 mm	max. payload	1200 kg
max. length	1600 mm	max. acceleration	1 m/s ²
min. stroke	3000 mm	max. speed	45 m/min
max. stroke	3700 mm		

PALLET
WAREHOUSESPAPER AND
STEEL COILSAUTOMOTIVE AND
SPECIAL LOADSCARTON LOADERS
AND MINILoadsPUSH
& PULLLIFTING
UNITSTRANSFER
UNITS



PALLET
WAREHOUSES

PAPER AND
STEEL COILS

AUTOMOTIVE AND
SPECIAL LOADS

CARTON LOADERS
AND MINILoads

PUSH
& PULL

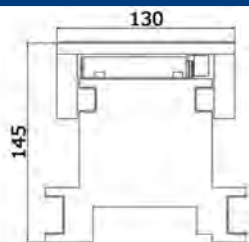
LIFTING
UNITS

TRANSFER
UNITS

HEPHAESTUS



Technical details



Description

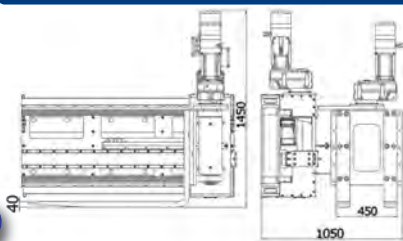
This machine can handle loads up to 1000 kg with a low deflection, despite its thickness of just 55 mm. The peculiar arrangement of its gear train allows to cover the middle slide completely, making the HEPHAESTUS particularly recommended for "dirty" working environments (e.g. sand molded casting).

min. length	1000 mm	max. payload	1000 kg
max. length	1500 mm	max. acceleration	1 m/s ²
min. stroke	1100 mm	max. speed	45 m/min
max. stroke	1600 mm		

CERBERUS X1



Technical details



Description

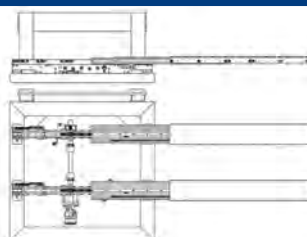
The CERBERUS X1 allows handling pallets with a load capacity up to 1.500 Kg. The rotation and translation speed is as fast as 30m/min. Thanks to this system, the pallets can be set down and picked up even rotated by 90° compared to the standard position on shelves. Both movements can be carried out simultaneously.

min. length	1700 mm	max. payload	1500 kg
max. length	2000 mm	max. acceleration	1 m/s ²
min. stroke	1350 mm	max. speed	25 m/min
max. stroke	1650 mm		

SPHINX



Technical details



Description

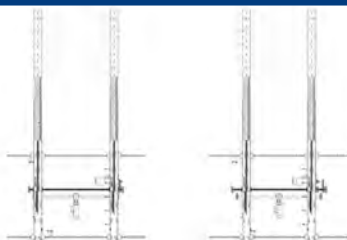
The SPHINX is a moving carriage, designed to be installed on the vertical mast of forklift trucks, allowing them to act as a stacker crane on wheels; this way, a forklift can pick up and lay down pallets laterally in a warehouse, making it possible to operate in narrower aisles.

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

VARIAXIS



Technical details



Description

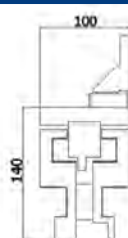
It's possible to handle different kinds of load units by installing the fork set on a VARIAXIS. It's a relatively simple system that makes the stocking operation more flexible. A motor operates a system of screws with recirculating balls and prismatic rails; it's possible to shift only one fork, or both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

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

ARES 140 SLV



Technical details



Description

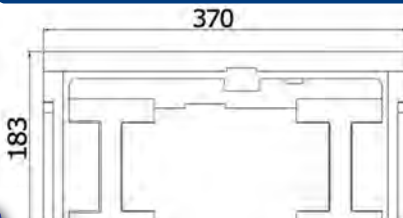
Smaller sister of the ATHENA 220 SLV, in this type of telescopic fork the high moment of inertia totally lies in its arm thickness rather than in its width. It's designed to pass through particularly narrow openings, although it can handle notably heavy loads, such as big metal or paper coils, with low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

min. length	900 mm	max. payload	1500 kg
max. length	1400 mm	max. acceleration	1 m/s ²
min. stroke	1000 mm	max. speed	45 m/min
max. stroke	1500 mm		

ATHENA 183



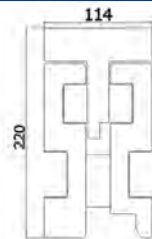
Technical details



Description

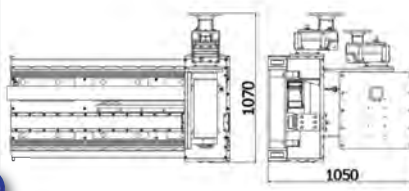
This model of the heavy-duty ATHENA series is particularly suitable for handling heavy loads with long strokes and low bending. In its version with inclined slides is expressly designed to handle big size coils.

min. length	1500 mm	max. payload	5000 kg
max. length	3000 mm	max. acceleration	1 m/s ²
min. stroke	1600 mm	max. speed	45 m/min
max. stroke	3200 mm		

**ATHENA 220 SLV****Technical details****Description**

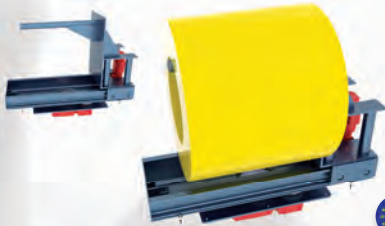
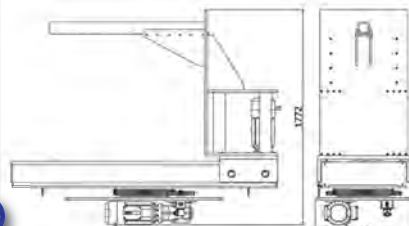
Bigger sister of the ARES 140 SLV, in this type of telescopic fork the high moment of inertia totally lies in its arm thickness rather than in its width. It's designed to pass through particularly narrow openings, although it can handle notably heavy loads, such as big metal or paper coils, with low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

min. length	1300 mm	max. payload	7000 kg
max. length	2900 mm	max. acceleration	1 m/s ²
min. stroke	1400 mm	max. speed	45 m/min
max. stroke	3000 mm		

CERBERUS X2**Technical details****Description**

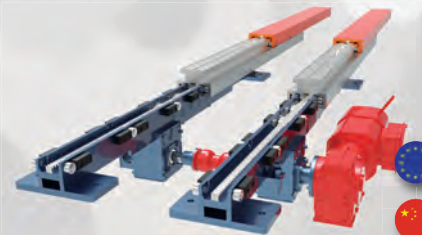
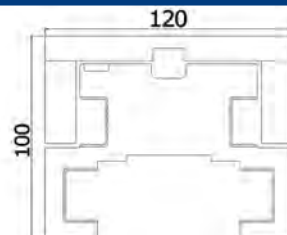
The CERBERUS X2 is designed to handle coils, up to 1.500 Kg heavy. The rotation and translation speed is as fast as 30m/min. Thanks to this system, the coils can be set down and picked up even rotated by 90° compared to the standard position on shelves. Both movements can be carried out simultaneously.

min. length	1700 mm	max. payload	1500 kg
max. length	2000 mm	max. acceleration	1 m/s ²
min. stroke	1350 mm	max. speed	25 m/min
max. stroke	1650 mm		

CERBERUS X3**Technical details****Description**

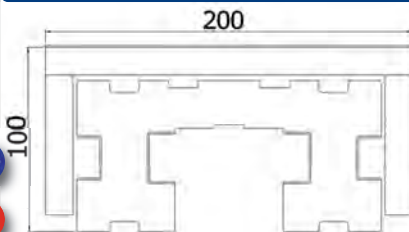
The CERBERUS X3 is a single-sided sideshift suitable for picking up pallets or coils on all sides. It is equipped with a rotary table for a 360° storage. Its carrying capacity is as high as 2.500 Kg.

min. length	1600 mm	max. payload	2500 kg
max. length	2300 mm	max. acceleration	1 m/s ²
min. stroke	1100 mm	max. speed	25 m/min
max. stroke	1800 mm		

ARES 100**Technical details****Description**

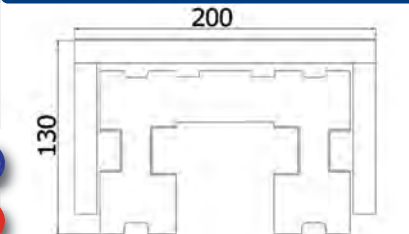
It's a very versatile and useful telescopic fork, entirely operated by racks and pinions, to pass through narrower openings other forks don't fit in. Although its limited thickness, the ARES 100 benefits from an outstanding carrying capacity resulting in a high moment of inertia, a small bending and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

min. length	900 mm	max. payload	600 kg
max. length	1900 mm	max. acceleration	1 m/s ²
min. stroke	1000 mm	max. speed	45 m/min
max. stroke	2000 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.

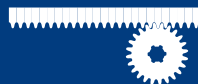
min. length	900 mm	max. payload	2000 kg
max. length	2200 mm	max. acceleration	1 m/s ²
min. stroke	950 mm	max. speed	45 m/min
max. stroke	2300 mm		

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 toughness it preserves good operating speed and working paces. It's available both with racks and pinions and with chains.

min. length	1100 mm	max. payload	3000 kg
max. length	2500 mm	max. acceleration	1 m/s ²
min. stroke	1200 mm	max. speed	45 m/min
max. stroke	2600 mm		

**PALLET
WAREHOUSES****PAPER AND
STEEL COILS****AUTOMOTIVE AND
SPECIAL LOADS****CARTON LOADERS
AND MINILoads****PUSH
& PULL****LIFTING
UNITS****TRANSFER
UNITS**

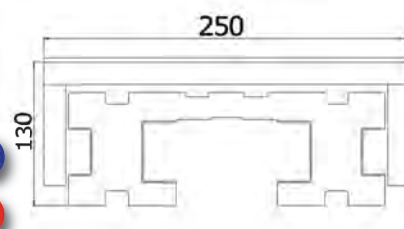


PALLET
WAREHOUSES

ATHENA 130 W250



Technical details



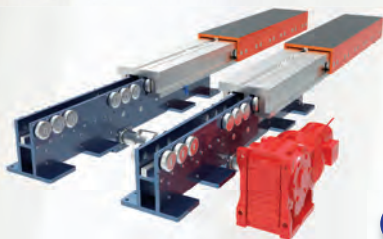
Description

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 toughness, repeatability and fatigue stress are required. As for the transmission, it's available both with racks and pinions and with chains.

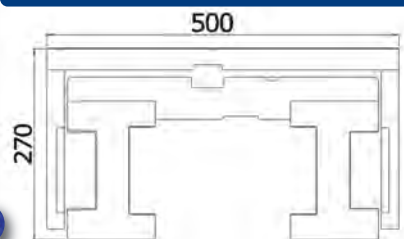
min. length	1100 mm	max. payload	2500 kg
max. length	2500 mm	max. acceleration	1 m/s ²
min. stroke	1200 mm	max. speed	45 m/min
max. stroke	2600 mm		

PAPER AND
STEEL COILS

ATHENA 270



Technical details



Description

It's a very strong, tough and performing telescopic fork. Thanks to its tough 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.

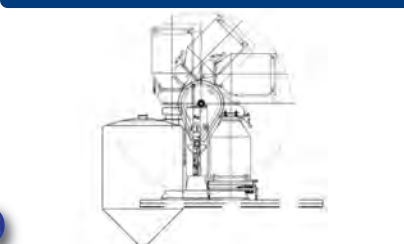
min. length	1300 mm	max. payload	20000 kg
max. length	2900 mm	max. acceleration	1 m/s ²
min. stroke	1400 mm	max. speed	45 m/min
max. stroke	3000 mm		

AUTOMOTIVE AND
SPECIAL LOADS

GOLIATH



Technical details



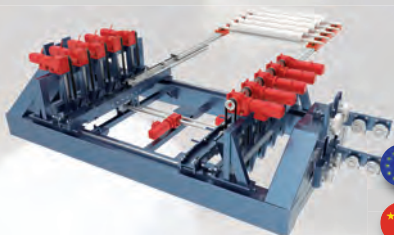
Description

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.

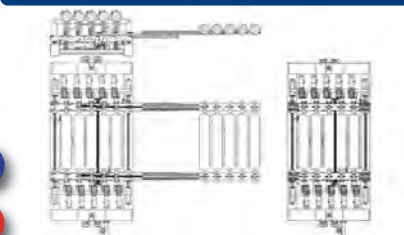
minimum hopper height above ground	1000 mm	tilting angle	180°
maximum hopper height above ground	1700 mm	max. payload	1600 kg

CARTON LOADERS
AND MINILOADS

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.

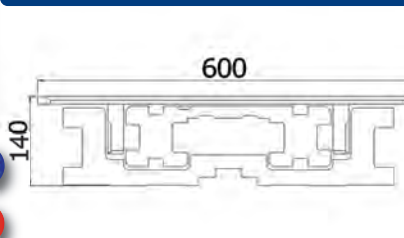
load units q.ty	up to 5	max. payload	1000 kg
max. vertical stroke	450 mm	max. acceleration	0,5 m/s ²
		max. speed	10 m/min

PUSH
& PULL

CYCLOPS



Technical details



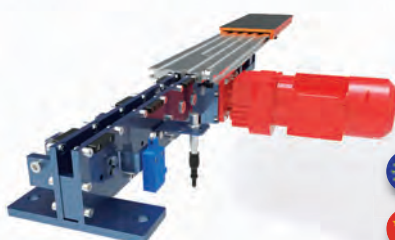
Description

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.

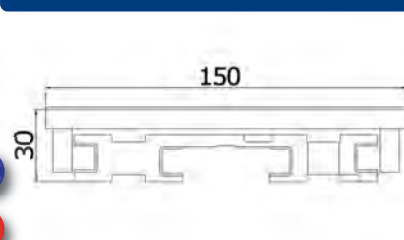
min. length	1300 mm	max. payload	2000 kg
max. length	2000 mm	max. acceleration	1 m/s ²
min. stroke	2650 mm	max. speed	45 m/min
max. stroke	3900 mm		

LIFTING
UNITS

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	30 kg
max. length	900 mm	max. acceleration	1 m/s ²
min. stroke	700 mm	max. speed	45 m/min
max. stroke	1000 mm		

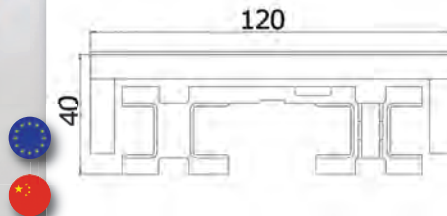
TRANSFER
UNITS



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.

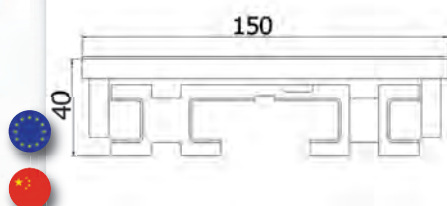
min. length	650 mm	max. payload	80 kg
max. length	1450 mm	max. acceleration	1 m/s ²
min. stroke	750 mm	max. speed	45 m/min
max. stroke	1550 mm		

PALLET
WAREHOUSES

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.

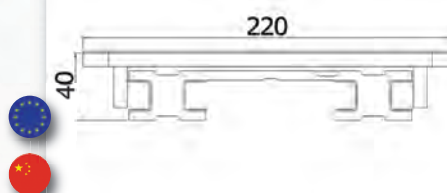
min. length	650 mm	max. payload	100 kg
max. length	1450 mm	max. acceleration	1 m/s ²
min. stroke	750 mm	max. speed	45 m/min
max. stroke	1550 mm		

PAPER AND
STEEL COILS

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-performances mini-load plants.

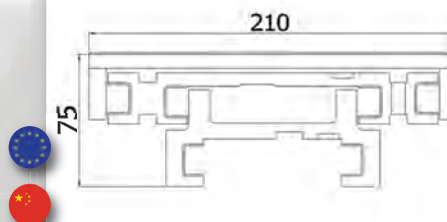
min. length	650 mm	max. payload	100 kg
max. length	1450 mm	max. acceleration	1 m/s ²
min. stroke	750 mm	max. speed	45 m/min
max. stroke	1550 mm		

AUTOMOTIVE AND
SPECIAL LOADS

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.

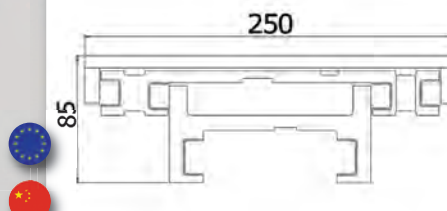
min. length	650 mm	max. payload	100 kg
max. length	1200 mm	max. acceleration	1 m/s ²
min. stroke	1300 mm	max. speed	45 m/min
max. stroke	2400 mm		

CARTON LOADERS
AND MINILoadS

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.

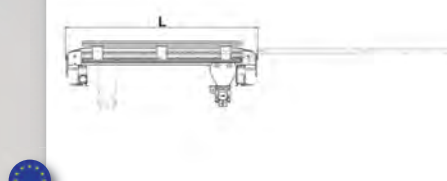
min. length	650 mm	max. payload	150 kg
max. length	1200 mm	max. acceleration	1 m/s ²
min. stroke	1300 mm	max. speed	45 m/min
max. stroke	2400 mm		

PUSH
& PULL

PHOEBUS X1



Technical details

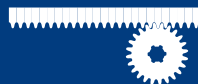


Description

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).

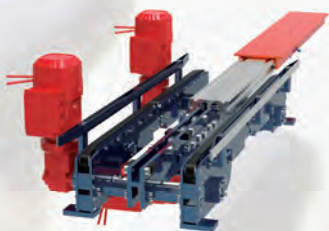
min. length	420 mm	max. payload	50 kg
max. length	1250 mm	max. acceleration	1 m/s ²
		max. speed	45 m/min

LIFTING
UNITSTRANSFER
UNITS

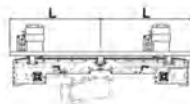


PALLET
WAREHOUSES

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).

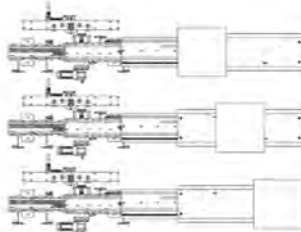
min. length	420 mm	max. payload	2x50 kg
max. length	1250 mm	max. acceleration	1 m/s ²
		max. speed	45 m/min

PAPER AND
STEEL COILS

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.

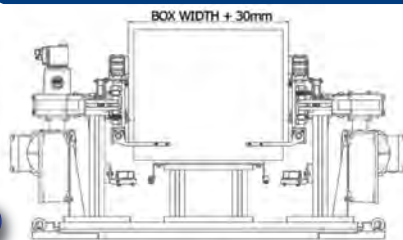
min. length	650 mm	max. payload	100 kg
max. length	1200 mm	max. acceleration	1 m/s ²
min. stroke	1300 mm	max. speed	45 m/min
max. stroke	2400 mm		

AUTOMOTIVE AND
SPECIAL LOADS

ARACHNE X4



Technical details



Description

The ARACHNE X4 can carry out the handling of one 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.

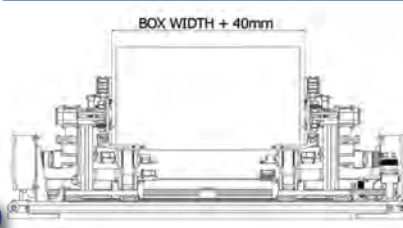
min. length	750 mm	max. payload	50 kg
max. length	1200 mm	max. acceleration	1 m/s ²
min. stroke	850 mm	max. speed	45 m/min
max. stroke	1300 mm		

CARTON LOADERS
AND MINLOADS

ARACHNE X6



Technical details



Description

The ARACHNE X6 can carry out the handling of two 50 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.

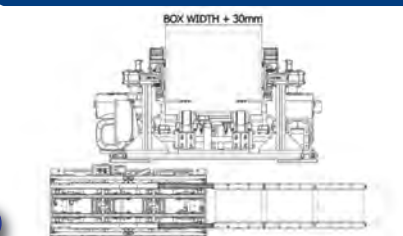
min. length	800 mm	max. payload	2x50 kg
max. length	1550 mm	max. acceleration	1 m/s ²
min. stroke	900 mm	max. speed	45 m/min
max. stroke	1650 mm		

PUSH
& PULL

ARACHNE X8



Technical details



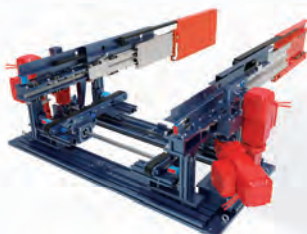
Description

The ARACHNE X8 can carry out the handling of three 50 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.

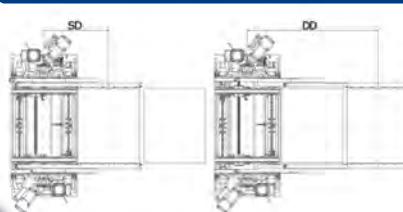
min. length	1800 mm	max. payload	3x50 kg
max. length	2600 mm	max. acceleration	1 m/s ²
min. stroke	1900 mm	max. speed	45 m/min
max. stroke	2700 mm		

LIFTING
UNITS

ARACHNE XX4



Technical details



Description

The ARACHNE XX4 can carry out the handling of one 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	750 mm	max. payload	50 kg
max. length	1000 mm	max. acceleration	1 m/s ²
min. stroke	1400 mm	max. speed	45 m/min
max. stroke	2000 mm		

TRANSFER
UNITS



ARACHNE X6C



PATENTED

Technical details



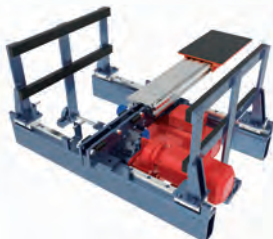
Description

It's a particular version of the ARACHNE X6, whose dragging fingers are designed to be powered by batteries or capacitors, which makes it suitable for small battery-powered shuttles; the cable carrier is no longer needed, which allows to reduce the required vertical space.

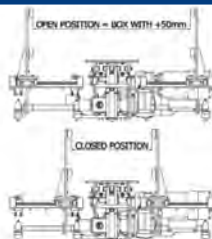
min. length	1200 mm	max. payload	2x50 kg
max. length	1550 mm	max. acceleration	1 m/s ²
min. stroke	1300 mm	max. speed	45 m/min
max. stroke	1650 mm		

PALLET
WAREHOUSES

GRYPHON



Technical details



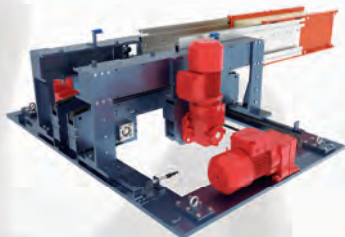
Description

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.

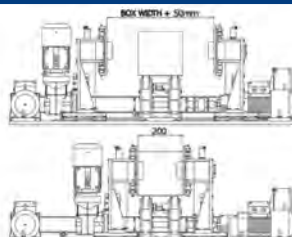
max. length	1000 mm	max. speed	2 m/min
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PAPER AND
STEEL COILS

KARKINOS



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.

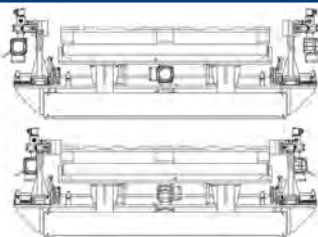
min. length	1200 mm	max. payload	300 kg
max. length	1550 mm	max. acceleration	1 m/s ²
min. stroke	1250 mm	max. speed	45 m/min
max. stroke	1600 mm		

AUTOMOTIVE AND
SPECIAL LOADS

KARKINOS R



Technical details



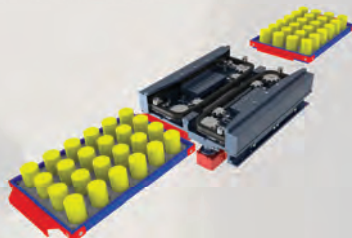
Description

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.

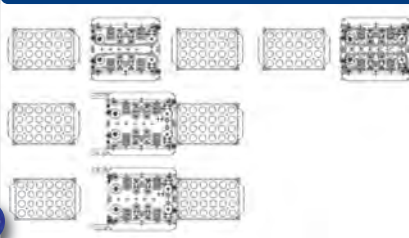
max. length	2500 mm	max. payload in	
max. stroke	1450 mm	push/pull mode	1300 kg
		max. acceleration	1 m/s ²
		max. speed	45 m/min

CARTON LOADERS
AND MINILoads

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.

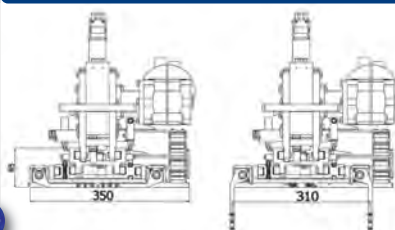
min. length	785 mm	max. payload	100 kg
max. length	1385 mm	max. acceleration	1 m/s ²
min. stroke	865 mm	max. speed	45 m/min
max. stroke	1465 mm		

LIFTING
UNITS

ARACHNE Z4



Technical details

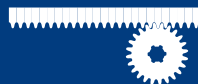


Description

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/s ²
min. stroke	1450 mm	max. speed	45 m/min
max. stroke	2000 mm		

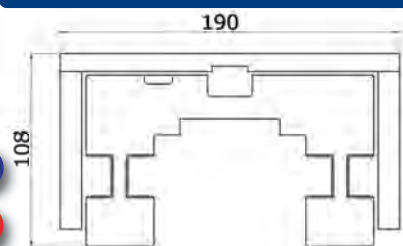
TRANSFER
UNITS

PALLET
WAREHOUSES

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	
max. length	2600 mm	push/pull mode	4000 kg
min. stroke	1100 mm	max. acceleration	1 m/s ²
max. stroke	2700 mm	max. speed	45 m/min

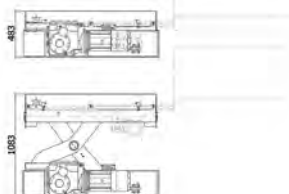
PAPER AND
STEEL COILS

TITAN



PATENTED

Technical details



Description

The TITAN is a new concept of scissor lift: all of the now-existing machines of this kind need the centre 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 whose centre of gravity is located outside the footprint of the device.

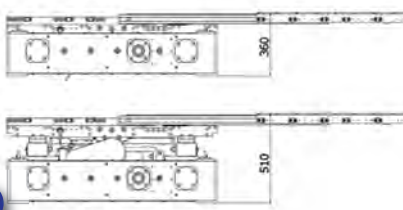
maximum		max. payload	2000 kg
vertical stroke	1000 mm	lifting time	10 s

AUTOMOTIVE AND
SPECIAL LOADS

ATLAS X1



Technical details



Description

To ensure efficiency, an accurate, reliable, maintenance-free and powerful system is needed. Hence, our Lift 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.

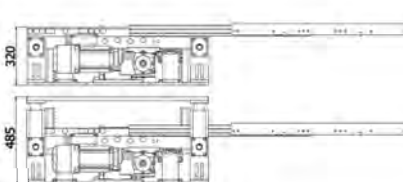
minimum		max. payload	1000 kg
vertical stroke	60 mm	lifting time	5 s
maximum			
vertical stroke	150 mm		

CARTON LOADERS
AND MINILoads

ATLAS X2



Technical details



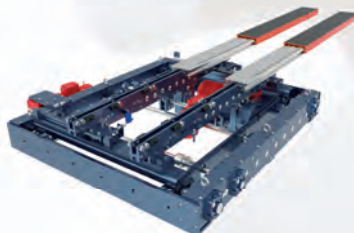
Description

To ensure efficiency, an accurate, reliable, maintenance-free and powerful system is needed. Hence, our Lift 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.

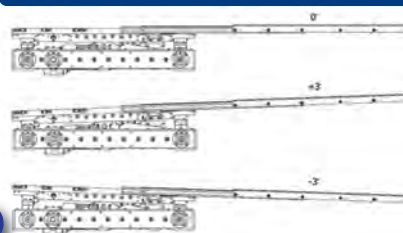
minimum		max. payload	2000 kg
vertical stroke	60 mm	lifting time	10 s
maximum			
vertical stroke	180 mm		

PUSH
& PULL

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.

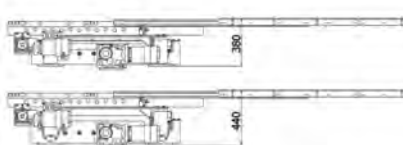
maximum		max. payload	1200 kg
tilting angle	+/- 3°	lifting time	10 s

LIFTING
UNITS

GEMINI X1



Technical details



Description

It's a narrow-body version of our ATLAS Lift, meant to operate with telescopic monoforks, and driven through eccentric cams.

minimum		max. payload	750 kg
vertical stroke	60 mm	lifting time	6 s
maximum			
vertical stroke	100 mm		

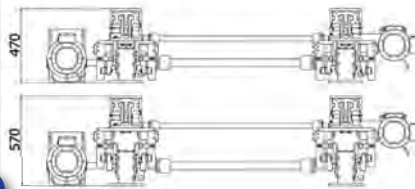
TRANSFER
UNITS



GEMINI X2



Technical details



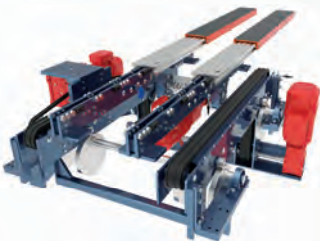
Description

It's simply the twin-body version of our GEMINI X1 Lift, meant to operate with couples of telescopic forks, and driven through eccentric cams, with a considerably lighter structure compared to the ATLAS series.

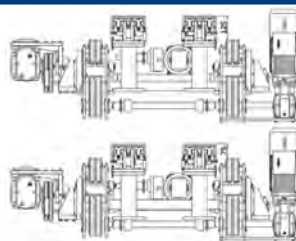
minimum vertical stroke	60 mm	max. payload	1500 kg
maximum vertical stroke	100 mm	lifting time	6 s
		axis distance	2000 mm

PALLET
WAREHOUSES

APOLLO



Technical details



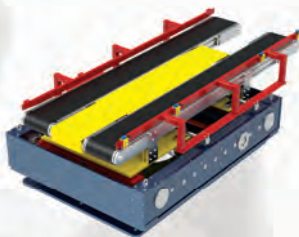
Description

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.

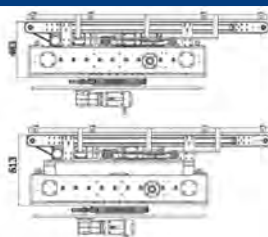
min. length	1000 mm	max. payload	1500 kg
max. length	1700 mm	max. speed	25 m/min
maximum vertical stroke	60 mm		

PAPER AND
STEEL COILS

ARGOS



Technical details



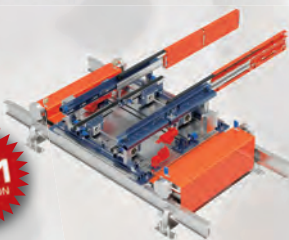
Description

The ARGOS system is a transfer unit operating by means of belts. It's equipped with a lifting device to adapt to the various loading and unloading levels. As optional device, a rotary table that allows the 360° unloading is available. The load capacity is as high as 100 Kg. ARGOS is suitable to operate on shuttles.

max. stroke	130 mm	max. payload	100 kg
swinging range	+/-180°		

AUTOMOTIVE AND
SPECIAL LOADS

MERCURY



Technical details



Description

The MERCURY is autonomous and independent, noiseless, clean, lubrication-free and needs low maintenance; it's possible to add shuttles or rails to extend the system in a modular way. It's meant to be combined with ARACHNE system, or otherwise with ATLAS, GEMINI or TITAN lifting devices.

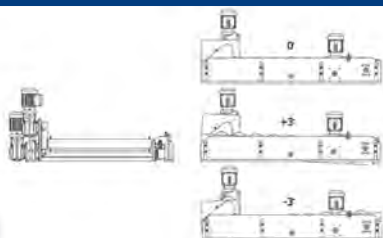
min. length	1200 mm	max. payload	1200 kg
max. length	2000 mm	max. acceleration	1 m/s²
min. stroke	1300 mm	max. speed	45 m/min
max. stroke	2100 mm		

CARTON LOADERS
AND MINILoads

HEMERA



Technical details



Description

This system is meant to be installed on stacker cranes and shuttles, and allows unloading the pallets by gravity, thanks to its motorised roller conveyor and a tilting movement of the frame by -3° or +3°.

maximum tilting angle	+/- 3°	max. payload	1000 kg
		tilting time	3 s

PUSH
& PULL

SISYPHUS



Technical details



Description

The SISYPHUS system allows horizontal or vertical carousel-like operations. It allows to have a buffer stock of available pieces or to store pieces for production. The accumulation of carriages takes place in the lower or upper part; the SISYPHUS system can be floor-mounted or hanging.

min. length	2000 mm	max. payload	100 kg
max. length	12000 mm	min. speed	7 m/min
		max. speed	15 m/min

LIFTING
UNITS

TRANSFER
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LHD
LOAD HANDLING DEVICES



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