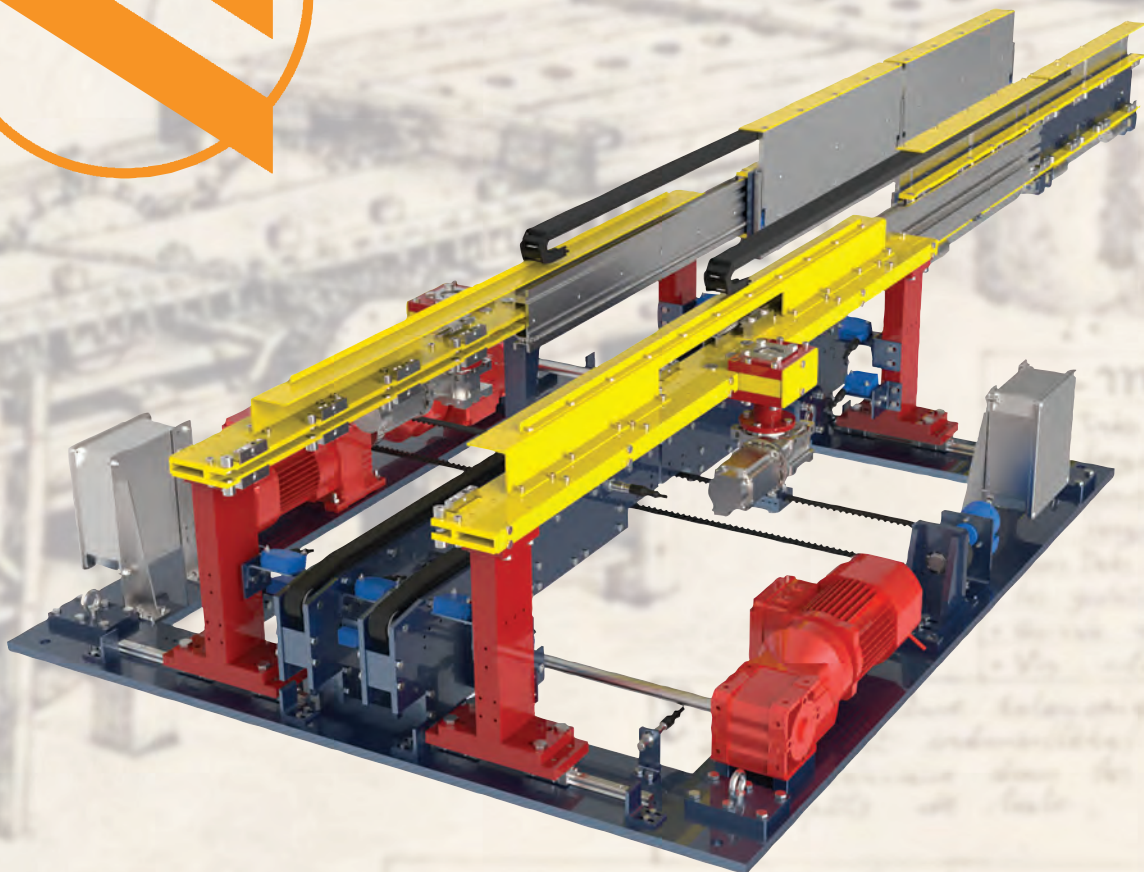


LHD[®]

LOAD HANDLING DEVICES



ARACHNE

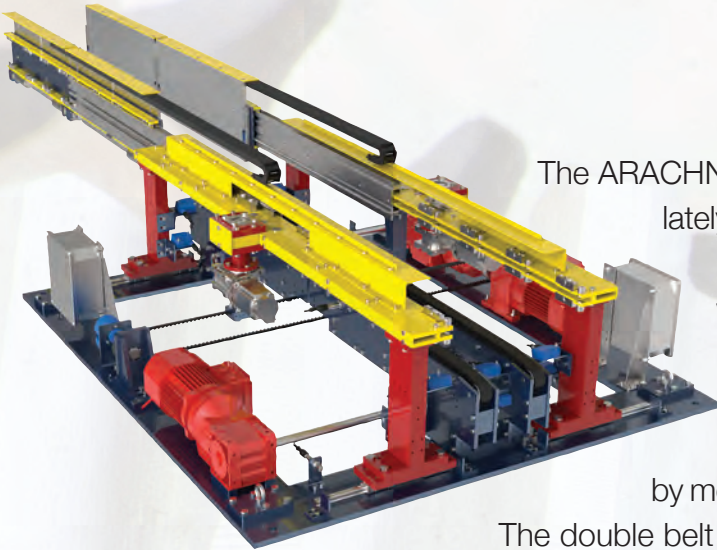


2020-AC-01





ARACHNE

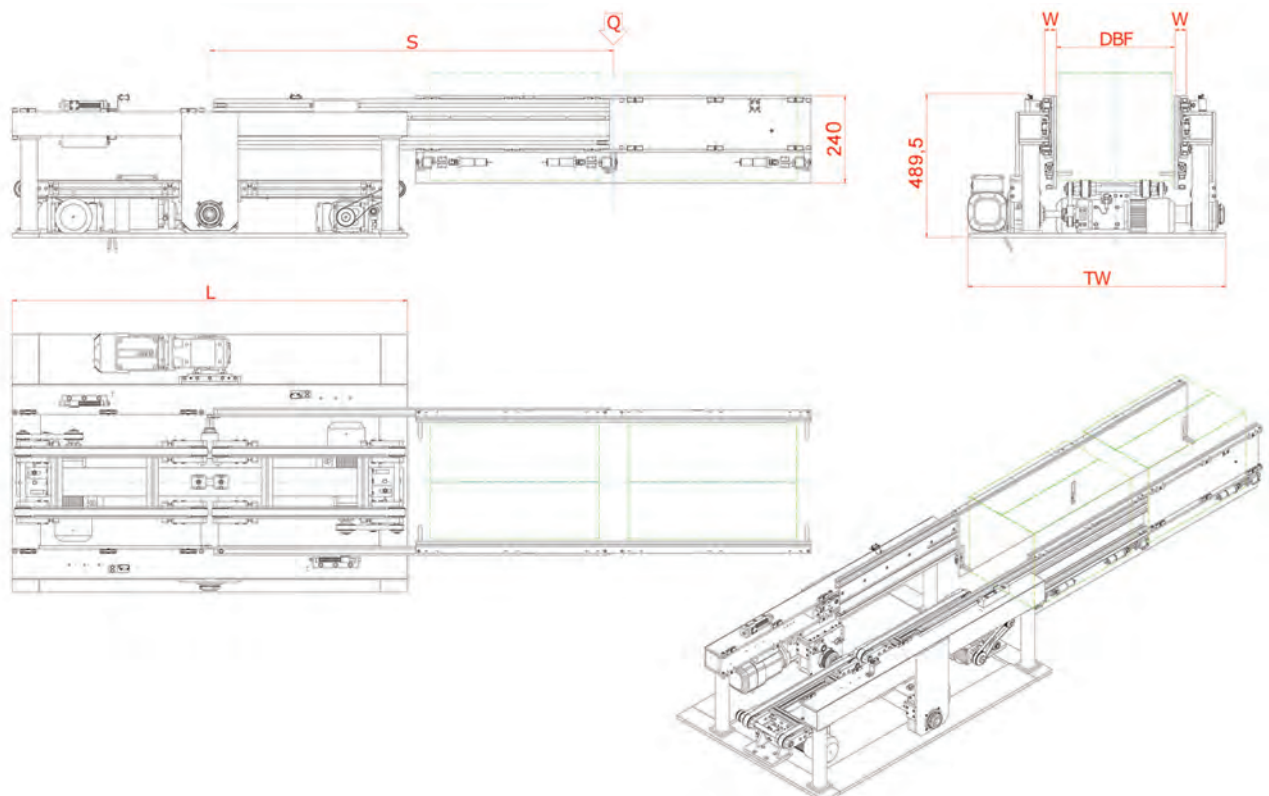


The ARACHNE is an interesting latest generation equipment, being lately introduced. The ARACHNE can carry out the handling of one plastic box (or carton) about as big as 600x400 mm with 50 Kg weight, in simple or in double depth, 2 or even 3 of these boxes in single depth (in X6 and X8 versions, with 6 and 8 fingers respectively). 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.

The double belt system onboard the X6 version can handle two boxes at once. With a thickness of its telescopic arms of only 50 mm, ARACHNE allows reducing the spaces between the boxes in the cells, thus reducing the width of the whole shelf.

MODEL	Q LOAD (KG)	L SYSTEM LENGTH (M/M)	S STROKE (M/M)	W ARM WIDTH (M/M)	DBF DISTANCE BETWEEN ARMS (M/M)
X4	50	750	750	50	
X6	2x50	1350	1400	50	min. 220
X8	3x50	1975	2025	70	max. 800
XX4	50	700	1375	98	

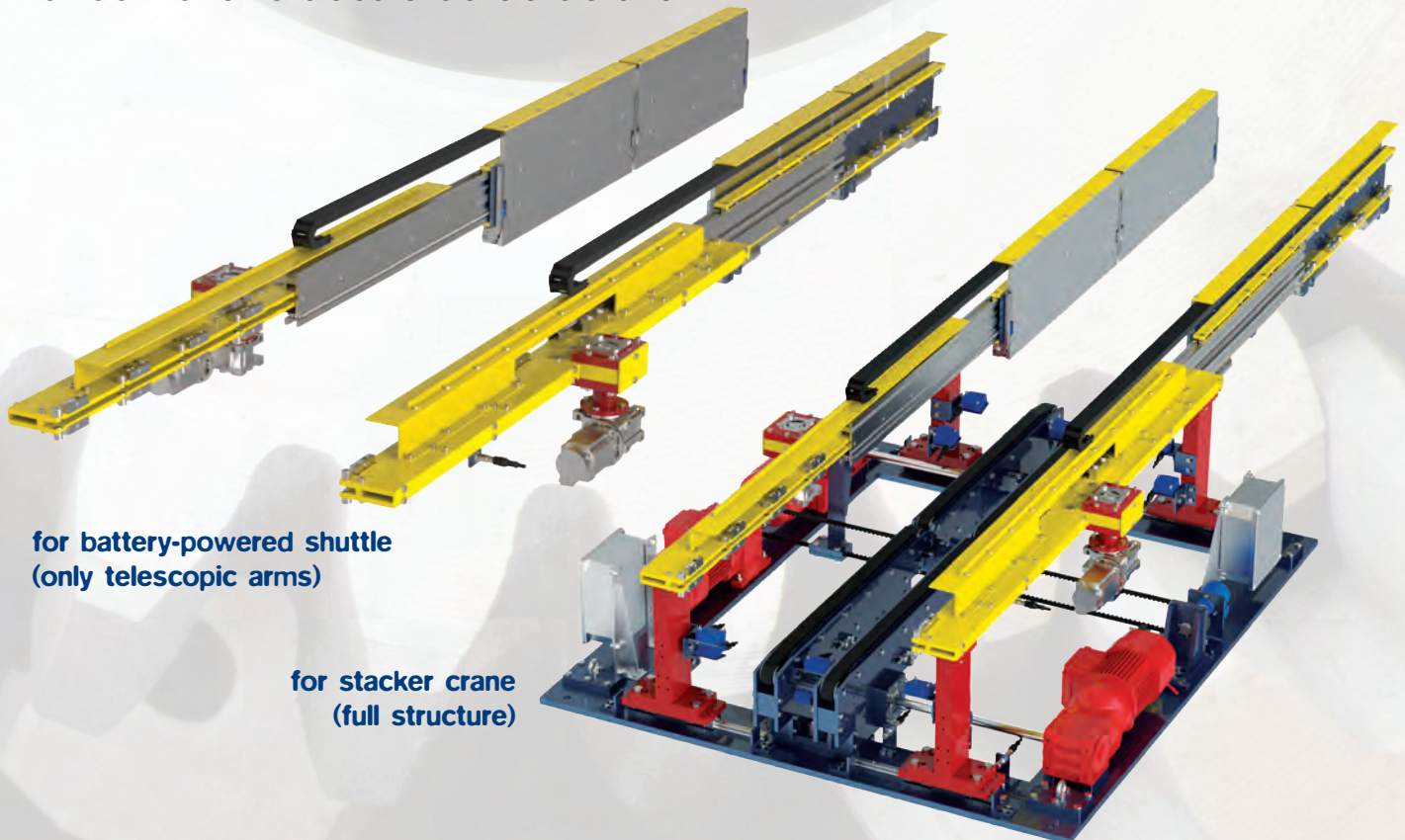
Thanks to its particularly light structure, the ARACHNE can attain remarkable work speeds. In comparison with similar equipments on market, it's certainly more performing, slender, and per se simpler. This makes it easy as for maintenance and certainly competitive.





DIFFERENT STRUCTURES AVAILABLE

The ARACHNE can be produced in two different versions as regards the base structure, allowing to install it on either a stacker crane or a shuttle.

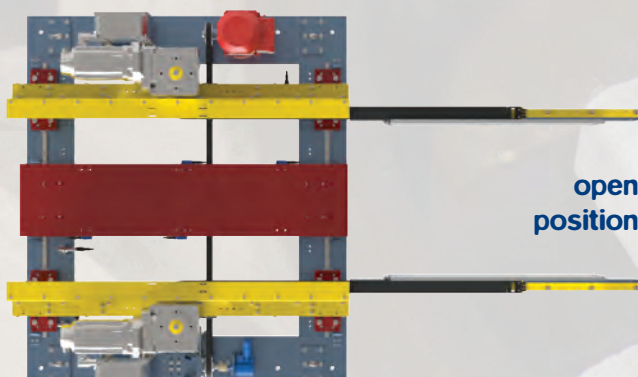


**for battery-powered shuttle
(only telescopic arms)**

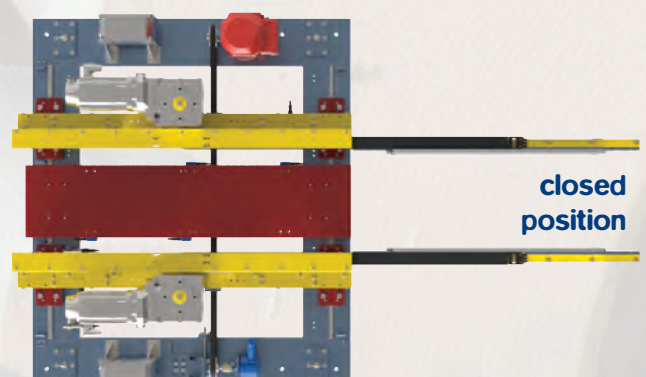
**for stacker crane
(full structure)**

VARIAXIS AVAILABLE

An Axis Distance Adjustment System (VariAxis) is available on the ARACHNE, allowing to handle boxes of different size in the same warehouse (more than 500 mm width difference manageable)



**open
position**



**closed
position**



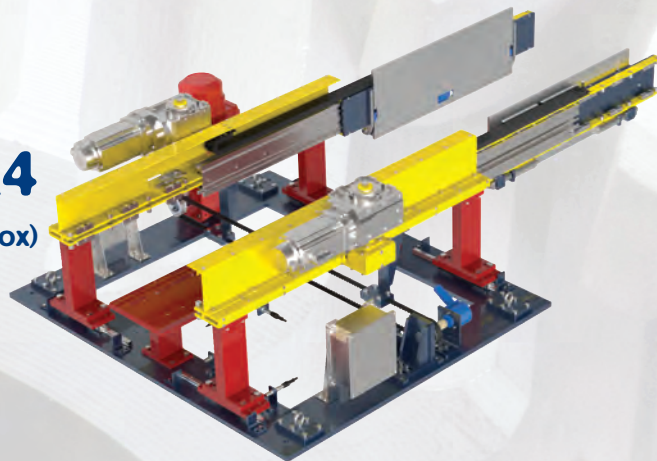
DIFFERENT PICK-UP VERSIONS AVAILABLE (handling depths)

The ARACHNE is also available in 3 different versions, as regards the management of different storing depths in the warehouse:

- **X4**, with 2 sliding elements per arm (single depth) and 4 fingers to handle 1 box;
- **X6**, with 2 sliding elements per arm (single depth) and 6 fingers to handle 2 boxes;
- **XX4**, with 3 sliding elements per arm (double depth) and 4 fingers to handle 1 box.

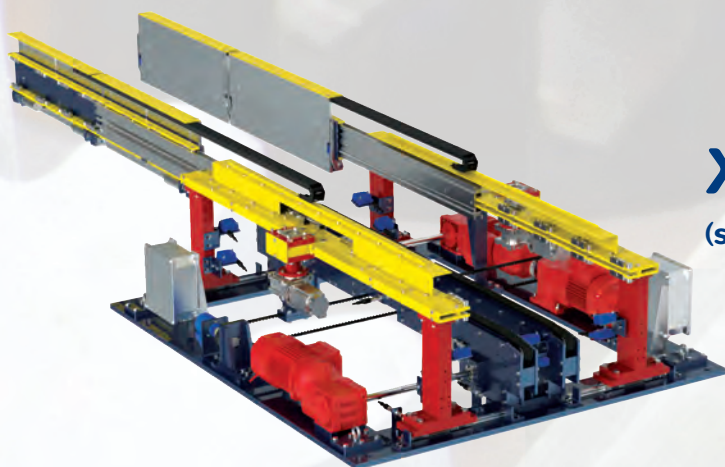
X4

(single depth, 4 fingers, 1 box)



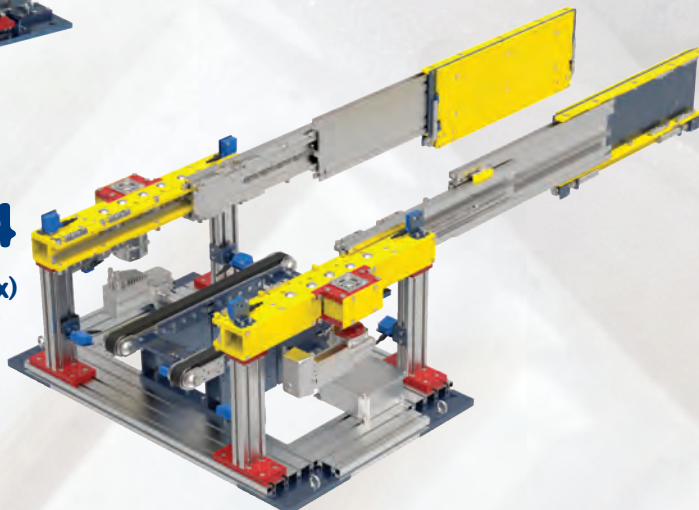
X6

(single depth, 6 fingers, 2 boxes)



XX4

(double depth, 4 fingers, 1 box)

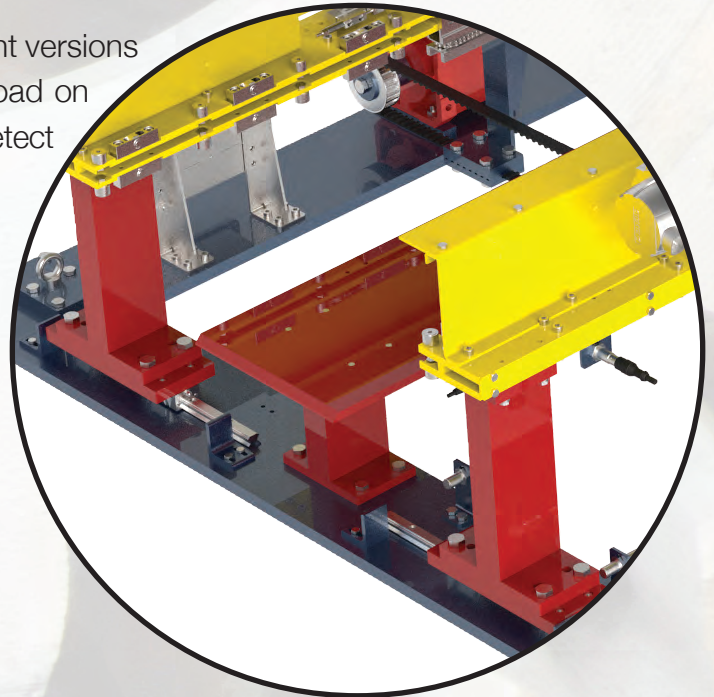




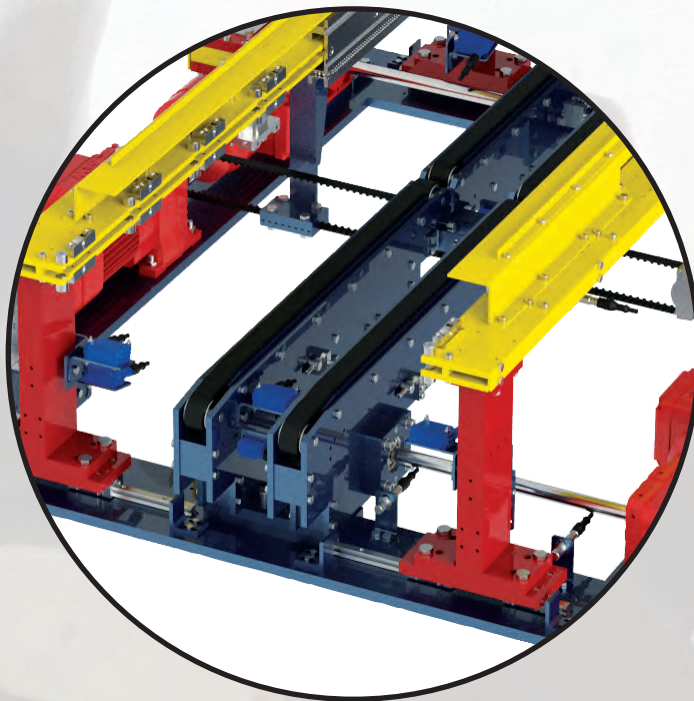
DIFFERENT LOAD SUPPORTS AVAILABLE (on-board features)

Furthermore, the ARACHNE is available in 3 different versions as regards the type of support that receives the load on board, all of them including a group of sensors to detect the presence of the load itself:

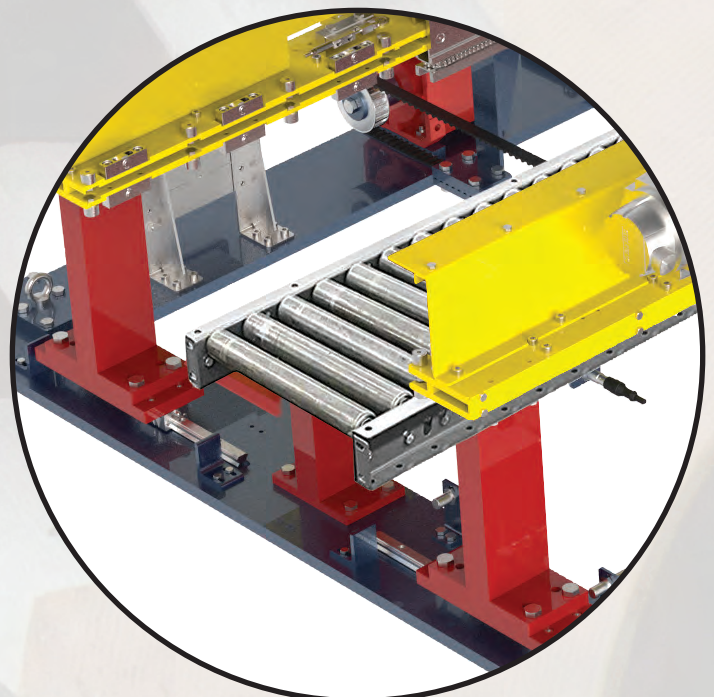
smooth sheet
metal cradle



single/double
belt conveyor



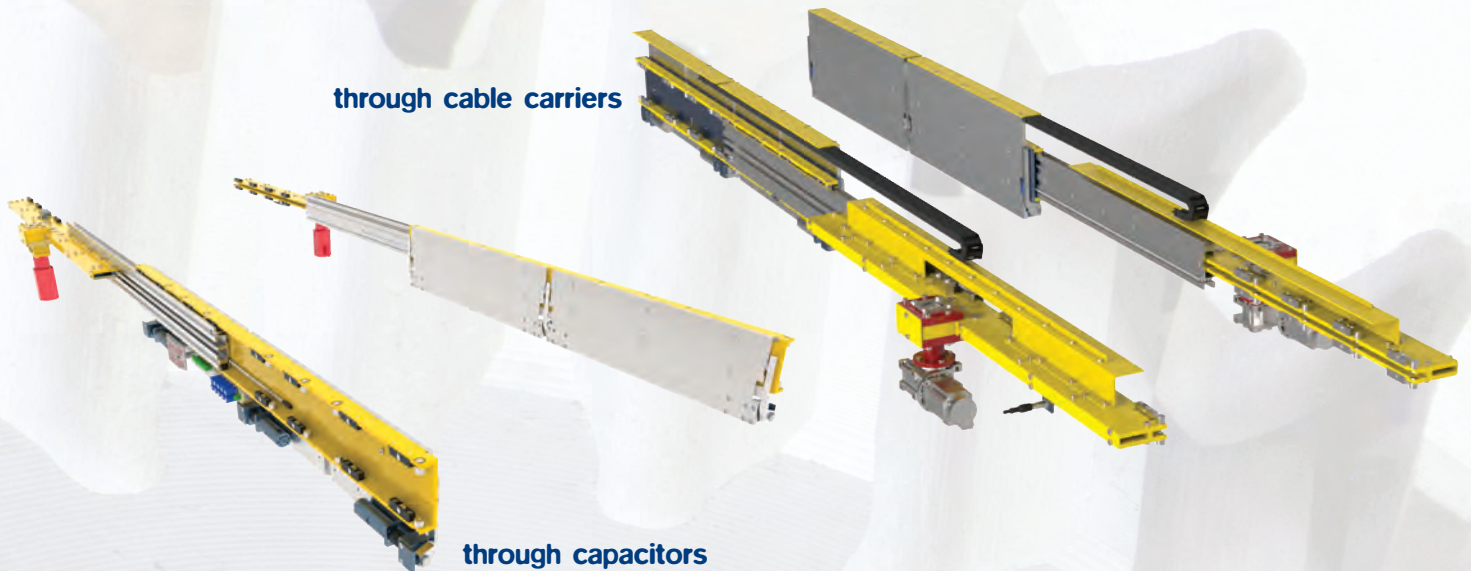
single/double
roller conveyor





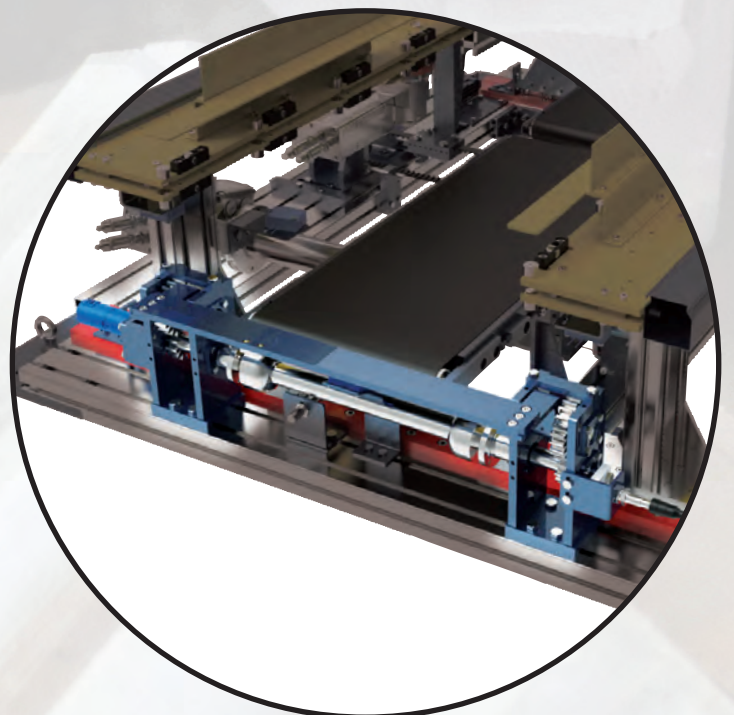
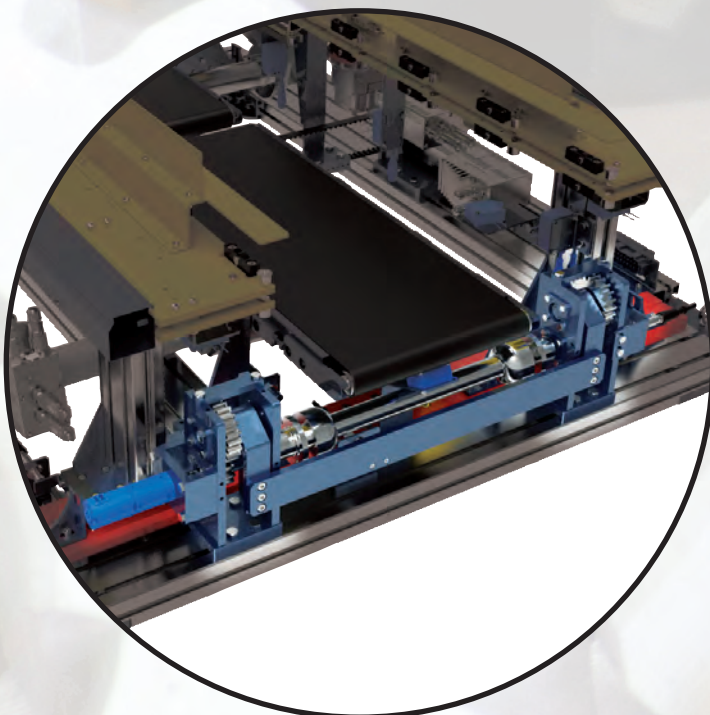
TWO POWER TRANSMISSION SYSTEMS (power supply to the fingers)

through cable carriers



through capacitors

OPTIONAL DRAWBRIDGES (for a continuous sliding surface)





ONE OR TWO LOAD UNITS AT ONCE





THE MOTORS ON THE ARACHNE

MINI MOTOR MCEDBS 55/50

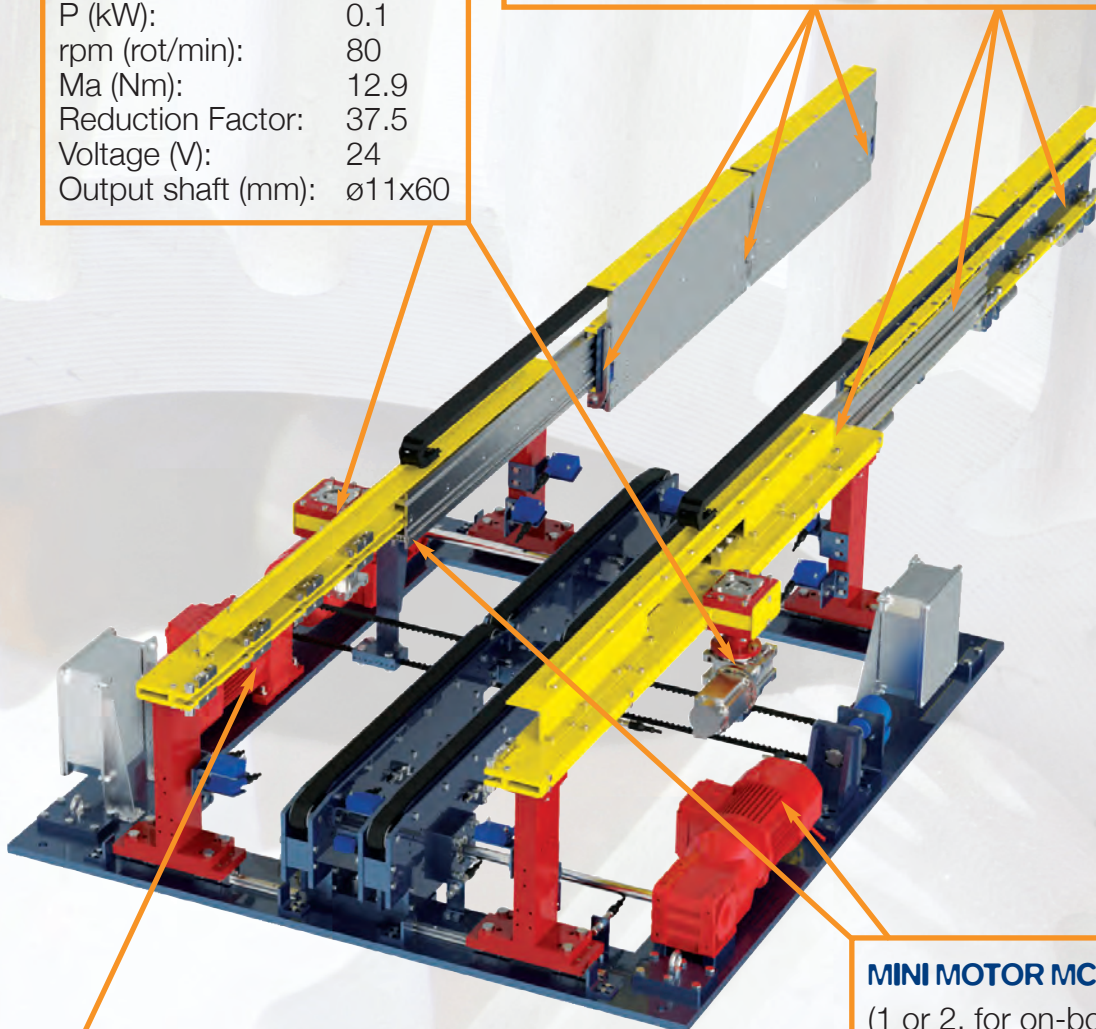
(2, for telescopic stroke)

P (kW):	0.1
rpm (rot/min):	80
Ma (Nm):	12.9
Reduction Factor:	37.5
Voltage (V):	24
Output shaft (mm):	ø11x60

DUNKERMOTOREN BG32x10 KI + PLG32 RR91

(4 or 6, for pivoting fingers)

P (kW):	0.0106	Reduction Factor:	91.12
rpm (rot/min):	43	Voltage (V):	24
Ma (Nm):	1.7	Output shaft (mm):	ø6x17



MINI MOTOR DBSE 55/100

(1, for VariAxis)

P (kW):	0.05
rpm (rot/min):	61
Ma (Nm):	33.2
Reduction Factor:	49
Voltage (V):	48
Output shaft (mm):	ø14x31

MINI MOTOR MCEDBS 55/50

(1 or 2, for on-board conveyor)

P (kW):	0.05
rpm (rot/min):	150
Ma (Nm):	4.7
Reduction Factor:	20
Voltage (V):	24
Output shaft (mm):	ø11 hollow



THE SENSORS ON THE ARACHNE

SICK WTT12L-B2562

(8, laser, for free space between boxes)

SICK IQ04-1B5PSKW2S

(4 or 6, inductive, to check fingers position)

SICK WS-WE2F-F410

(4, laser, for dynamic positioning of the load)

SICK WTB8-P2231

(2 or 4, photocell, for box presence on conveyor)

SICK WL8-P2231

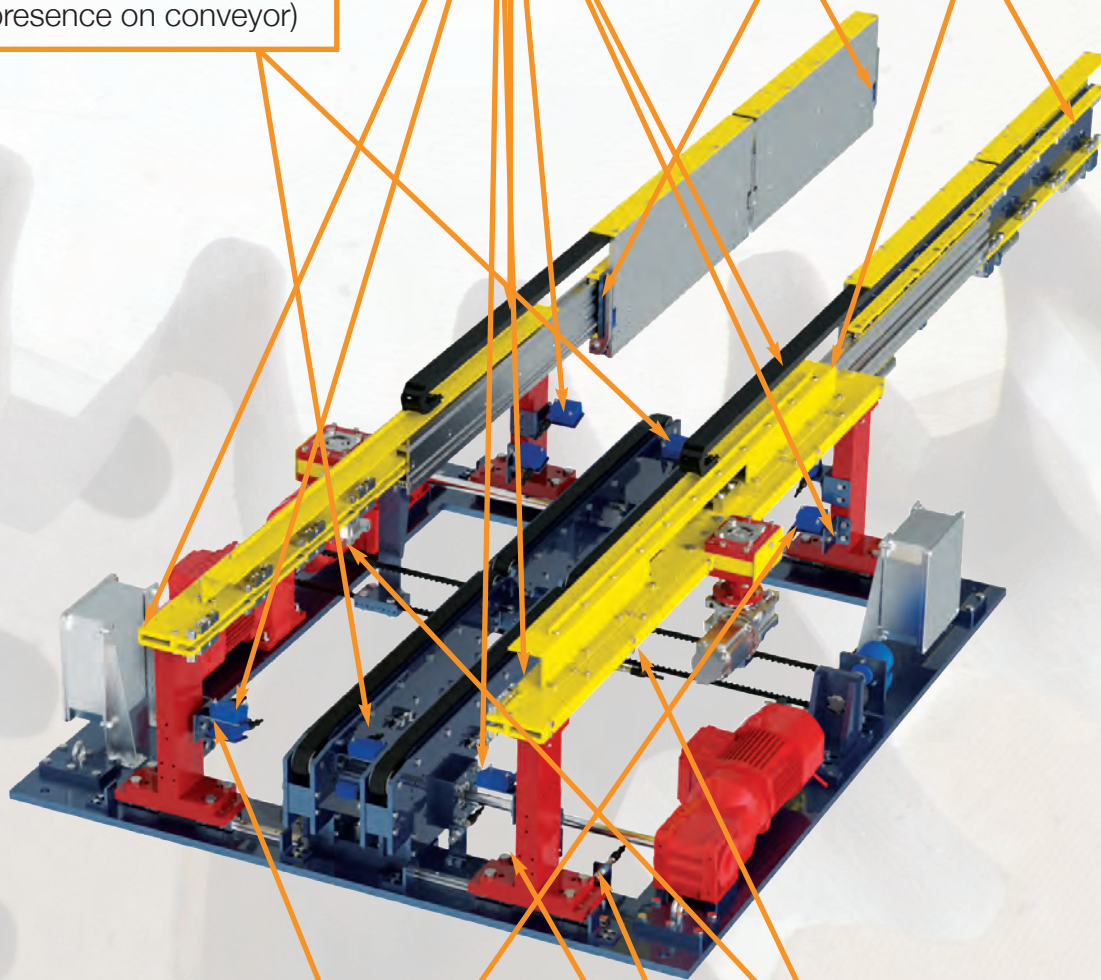
(2, photocell, for centre position)

SICK WTT12L-B2548

(2, laser, for storage location)

SICK IME12-04BPSZC0S

(2, inductives, for VariAxis)

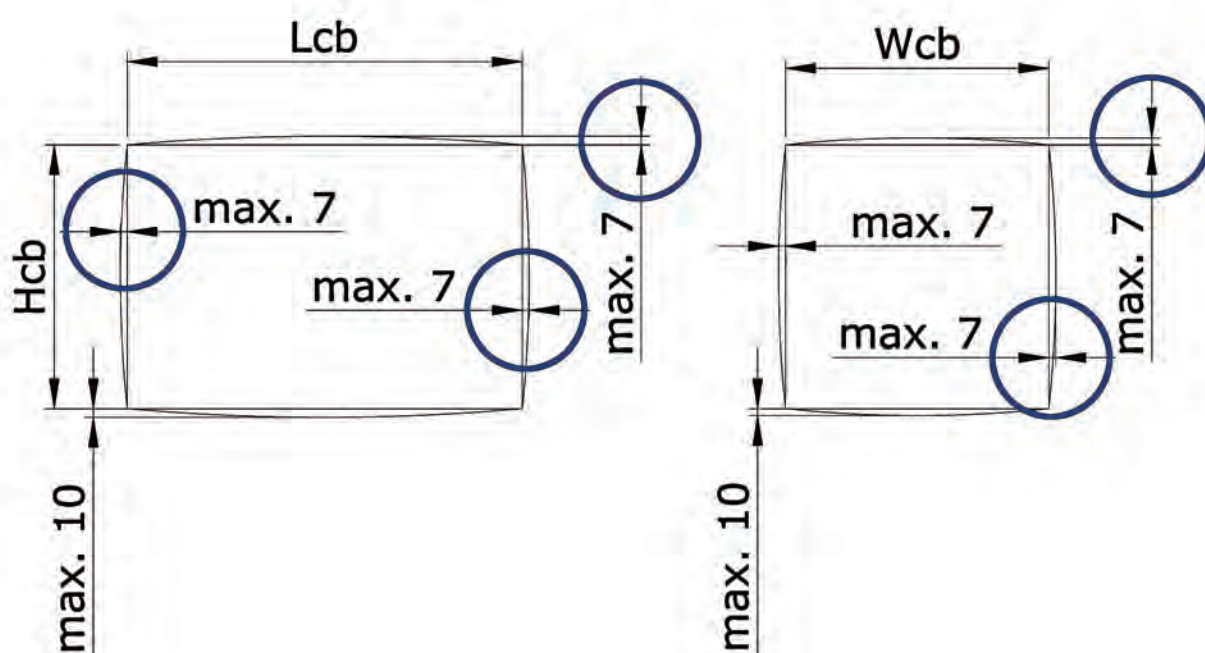




CLEARANCES AND TOLERANCES (on load units and on shelves)

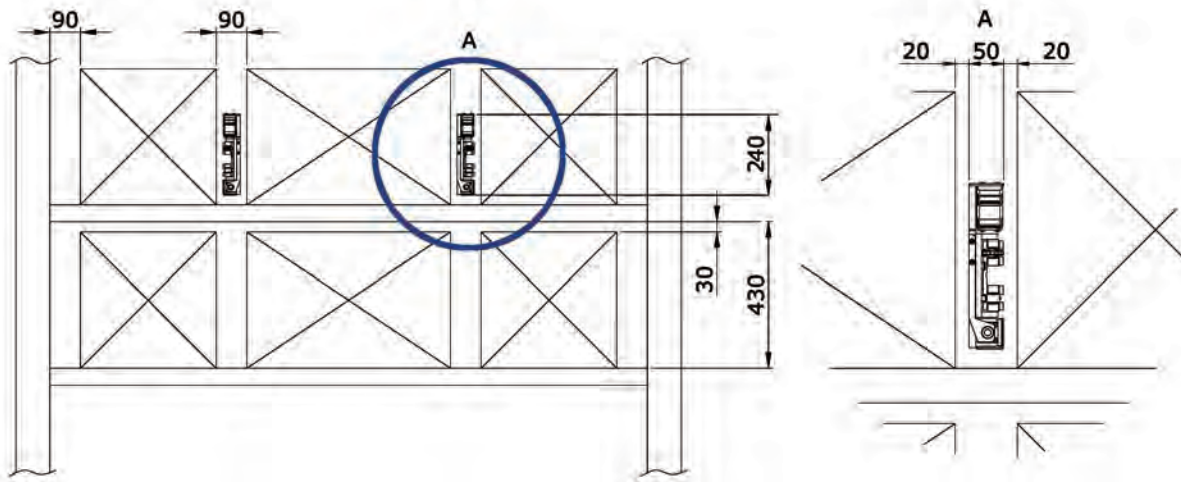
The ARACHNE can handle a certain tolerance in terms of **the bulge the carton load units are prone to (picture 1)**; within these limits, this device allows to save space in the warehouse by **reducing the side clearance between load units on the shelf (picture 2)**. The only limit the customer will have to take into account, is that ARACHNE can manage **multiple widths of load units in the same warehouse, but not at the same time (picture 3)**.

1

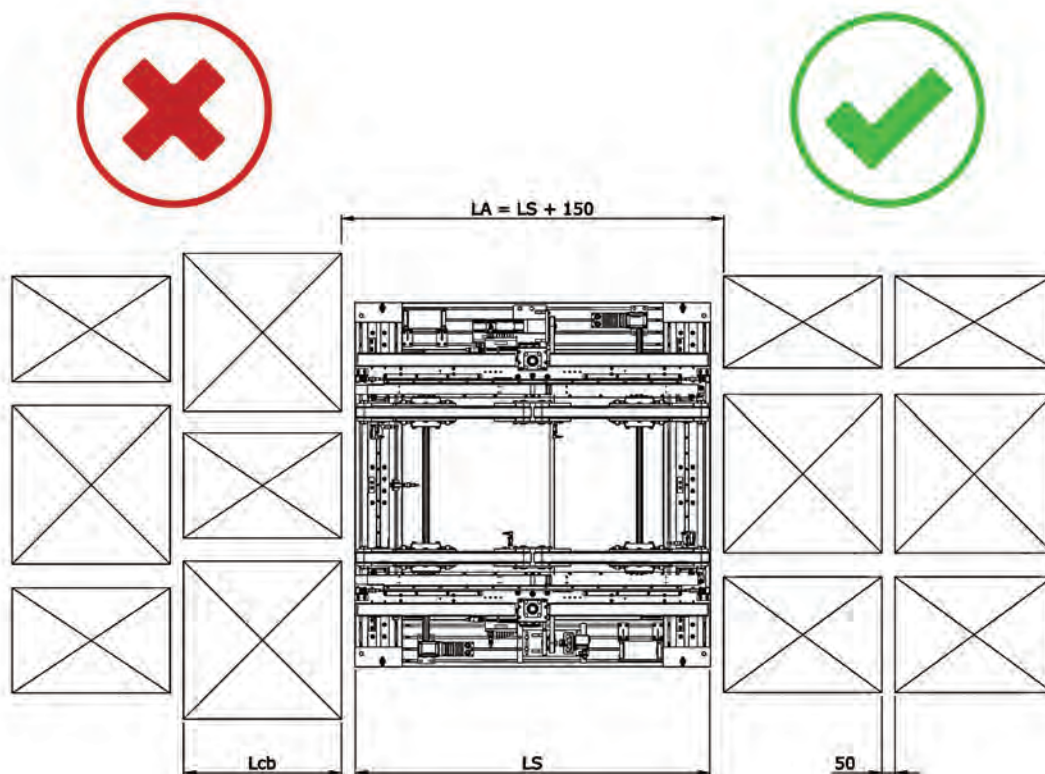




2



3





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LHD
LOAD HANDLING DEVICES



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