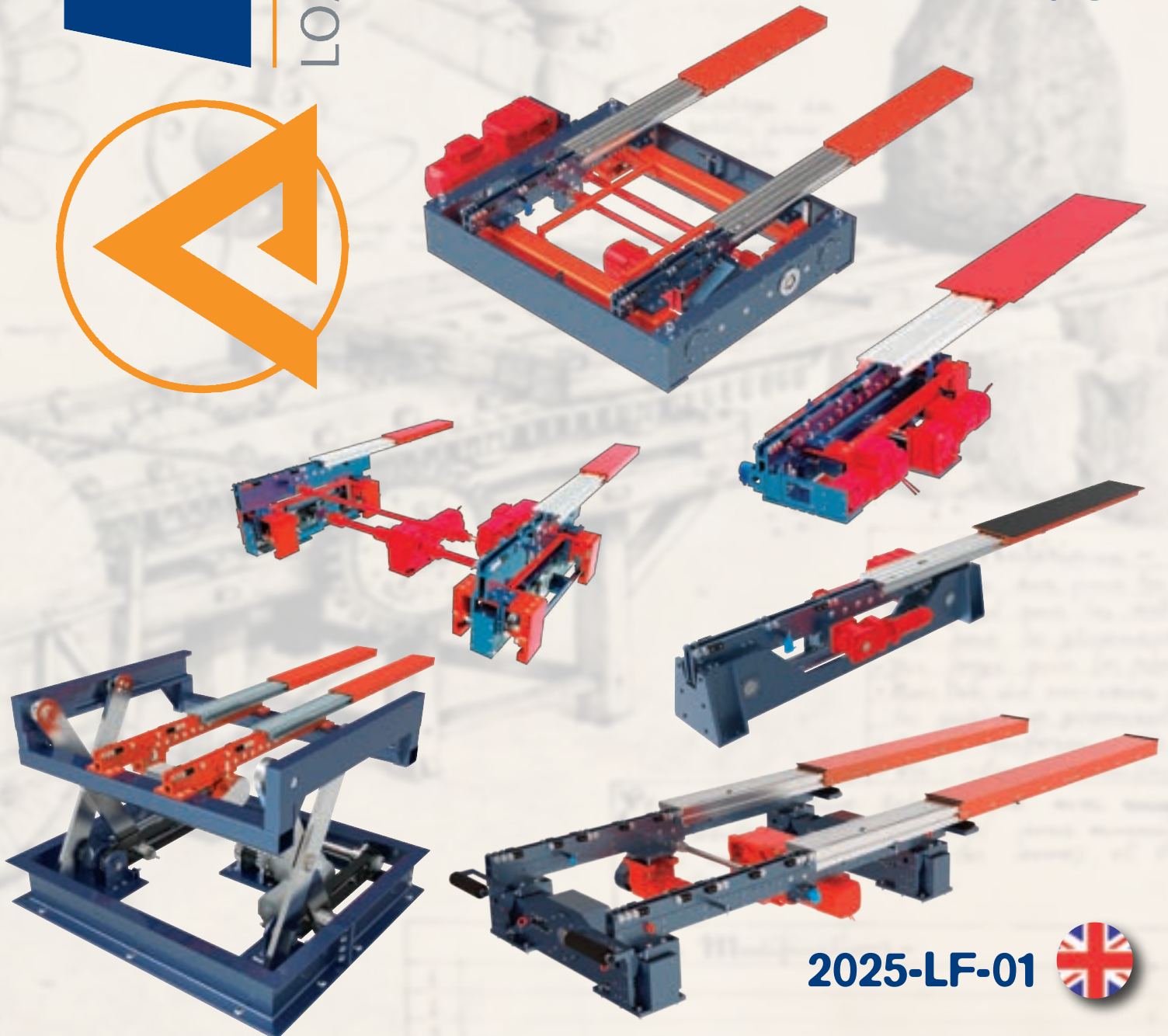




LHD[®]

LOAD HANDLING DEVICES

ATLAS, GEMINI, TITAN, AND ARCHIMEDES LIFTS



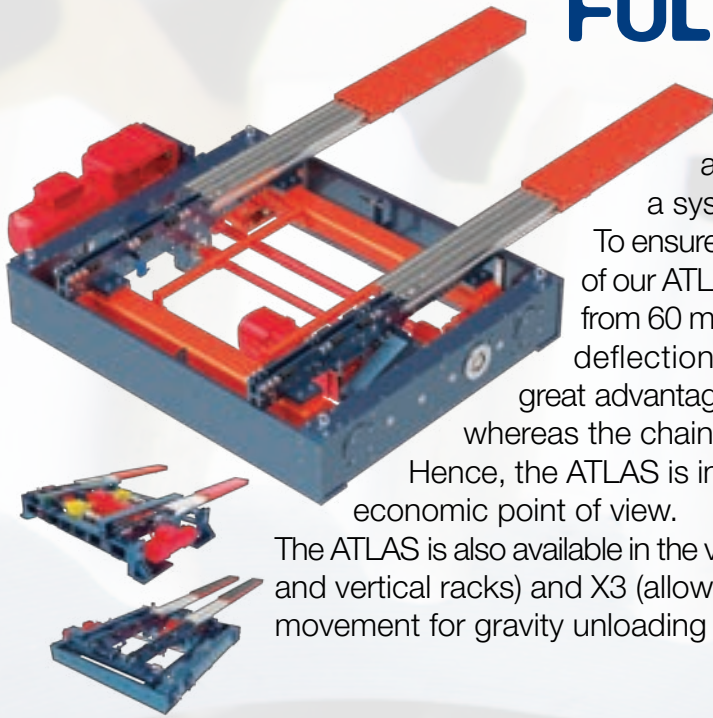
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ATLAS X1/X2/X3

FULL-BODY GEAR LIFT



The ATLAS is an essential complementary equipment in logistics and automation industry, since it allows adding an extra Y-axis on shuttles, AGVs and wherever a system to lift or lay down the load is needed.

To ensure efficiency, power, reliability, and precision, the movement of our ATLAS is entirely gear-driven. This system, with a lifting stroke from 60 mm to 120 mm, allows lifting elevate loads with a negligible deflection, a guaranteed coplanarity within 0.5 mm, and the great advantage of a close-to-zero maintenance on-board the ATLAS, whereas the chain-driven ones need constant adjustments.

Hence, the ATLAS is indeed a winning equipment, both from a technical and economic point of view.

The ATLAS is also available in the versions X2 (with lifting movement occurring through gears and vertical racks) and X3 (allowing a $\pm 3^\circ$ tilting movement for gravity unloading systems).

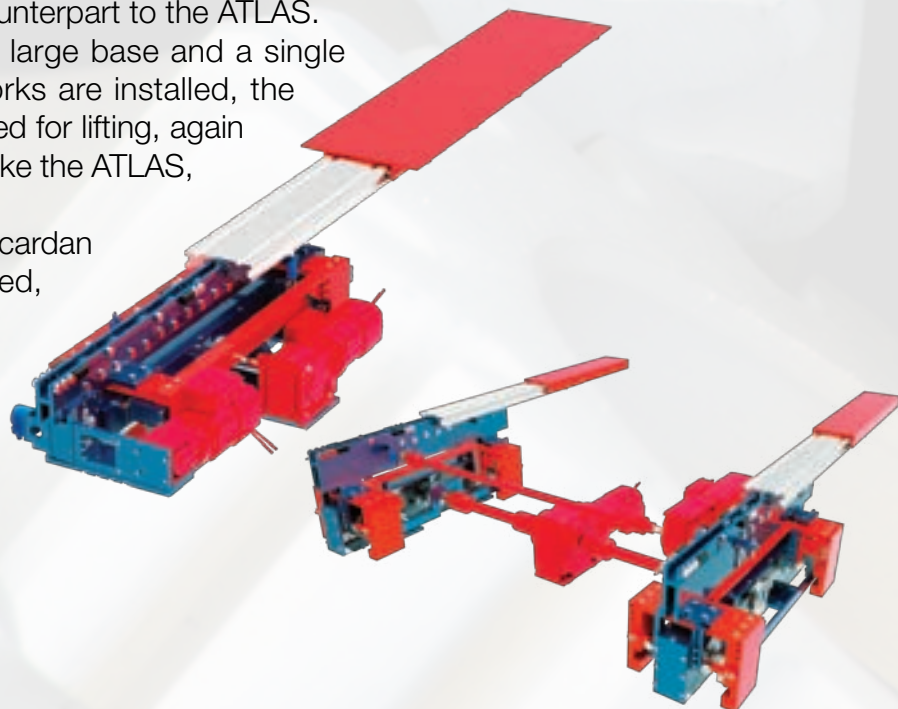
Q	MAX. LOAD (KG)	LH1	LIFTING STROKE VERSION X1 (MM)	LH2	LIFTING STROKE VERSION X2 (MM)	LT	LIFTING TIME (SEC)
	2000		120		180		5

GEMINI X1/X2

SINGLE/TWIN-BODY GEAR LIFT

The GEMINI is the narrow-body counterpart to the ATLAS. Unlike the latter, which includes a large base and a single mobile frame on which the two forks are installed, the GEMINI in the X1 version is designed for lifting, again by means of gears and eccentrics like the ATLAS, a single fork.

By connecting two GEMINI X1 via cardan shaft, the GEMINI X2 is obtained, which like the ATLAS is suitable for lifting a pair of forks but with a great weight saving, especially in cases where the forks are installed at a long distance from each other.



Q1	MAX. LOAD VERSION X1 (KG)	Q2	MAX. LOAD VERSION X2 (KG)	LH	LIFTING STROKE (MM)	LT	LIFTING TIME (SEC)
	600		1200		120		5

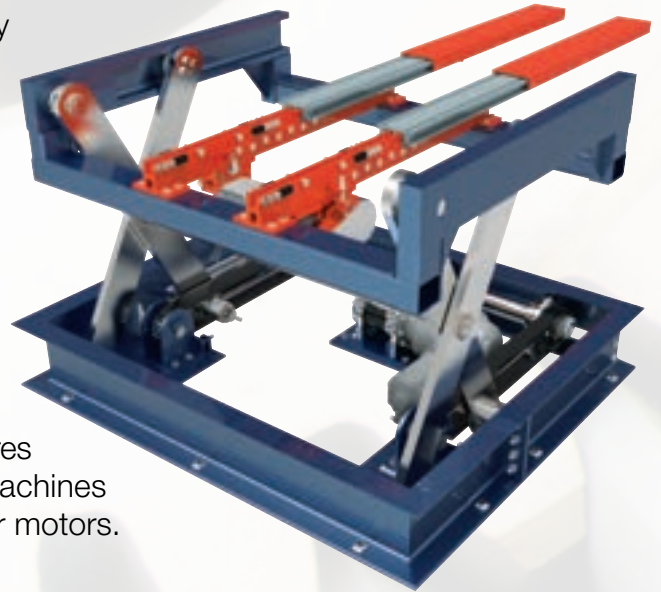


TITAN SCISSOR LIFT

Our TITAN is the king of LHD's lifting devices. Just like its smaller brothers, the TITAN is fully electrically driven; this device allows users to raise loads up to 1800 kg with a vertical stroke of up to 1000 mm, way more than the average 150 mm of the ATLAS, GEMINI and ARCHIMEDES series.

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 payloads whose centre of gravity is located outside the footprint of the device. Thanks to its patented solution, TITAN requires

half the torque other machines need, hence smaller gear motors.



Q	MAX. LOAD (KG)	LH	LIFTING STROKE (MM)	LT	LIFTING TIME (SEC)
	1800 (SD) 1000 (DD)		1000		10

ARCHIMEDES X1/X2 SINGLE/TWIN-BODY TIE-ROD LIFT

The ARCHIMEDES is LHD's response to the growing need of powerful and precise equipments, with contained size and weight at the same time. ARCHIMEDES is a leverage system (hence its name) which is able to lift significant loads with remarkable repeatability and precision, and most importantly with extreme position accuracy, while remaining in very small and perfectly manageable dimensions. Just like the GEMINI series, ARCHIMEDES comes in the single-body (X1) and in the twin-body (X2) versions, and nothing prevents us from considering the X3 or higher versions for fork batteries. Not using chains nor gears for lifting, ARCHIMEDES is an exceptional piece of equipment also from a maintenance point of view, since it is practically free from the need of periodic adjustments and lubrication. ARCHIMEDES is also remarkable for its very low level of noise emissions during operation.



Q1	MAX. LOAD VERSION X1 (KG)	Q2	MAX. LOAD VERSION X2 (KG)	LH	LIFTING STROKE (MM)	LT	LIFTING TIME (SEC)
	600 (SD) 200 (DD)		5000 (SD) 1500 (DD)		150		6



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