

# ATLET ERGO SIT-ON STACKER

**XJN / XSN**

ERGONOMIC SIT-ON STACKER FOR INTERNAL TRANSPORT AND STACKING  
IN WAREHOUSES, STORES AND PRODUCTION OPERATIONS



**ATLET**

# ATLET ERGO SIT-DOWN STACKER - WHEN WAREHOUSE ECONOMY AND DRIVER COMFORT ARE VITAL

## THE RIDER STACKER CONCEPT

The following background information gives an insight to the thinking behind the Atlet ERGO sit-on stacker:

Atlet launched the revolutionary rider stacker back in 1961. A truck that combined economical storage and efficient handling. The rider stacker was built in order to slim down warehouse aisles to 2 metres with a maximum racking height of around 6 metres.

Six metres is the ideal storage height from the point of view of warehouse building/volume, handling time for raising and lowering, and the driver's ability to leave or retrieve a pallet on the top shelf (pallet positions above 4 metres). Handling cycles and traffic density are in most cases optimised in a warehouse that uses rider stackers. The compact external dimensions of the rider stacker also make it the ideal solution for handling and storage in confined production areas. Atlet builds rider stackers for both standing and sitting drivers: ERGO stand-on stackers and ERGO sit-on stackers.

The Atlet ERGO sit-on stacker is designed for operations where travel distances are up to around 100 metres and the running time (truck time) is up to 5 hours/day. For longer travel distances and handling times it may be advisable to choose a reach truck. But a reach truck costs between 25% and 50% more to buy and the handling result is often the same.

The following table gives a rough idea of pallet-position costs and degree of utilisation for the three types of trucks concerned.

Atlet ERGO sit-down stackers combine cost-effective warehouse operations with a high ergonomic standard and a low LCC.

	ATLET STAND-ON STACKER	ATLET SIT-ON STACKER	ATLET REACH TRUCK
<b>aisle width</b>	<b>2.20</b>	<b>2.40</b>	<b>2.60</b>
<b>NUMBER OF PALLET/M<sup>2</sup></b>	<b>2.55</b>	<b>2.45</b>	<b>2.35</b>
<b>NUMBER OF PALLET/1000 M<sup>2</sup></b>	<b>2550</b>	<b>2450</b>	<b>2350</b>
<b>COST/PALLET POSITION%</b>	<b>100</b>	<b>105</b>	<b>110</b>

## EVALUATE THE FLEXIBILITY, COMPACT DIMENSIONS AND HIGH ERGONOMIC STANDARD

From a driving point of view an Atlet ERGO sit-down stacker is like an Atlet reach truck. The mini steering wheel is standard and gives the most efficient and ergonomic driving style. The speed control pedal, brake and "auto-plug braking" are the same as on reach trucks.

Energy recovery when braking and load-dependent electronic brake compensation (ELBC) are also features common to both.

A proportional valve for the hydraulic system is also standard, and the computerised, AC gear motor gives a similar performance. The truck computer gives PIN control, monitoring, statistics, truck management etc.

## 1.6 - 2.0 TONNES

When handling and storage operation are limited to lifting 1600 kg up to 6.30 metres or 2000 kg up to 5.40 metres, then the Atlet ERGO sit-on stacker is definitely an option. Add the high ergonomic standard and adaptable performance, and the choice is an easy one.

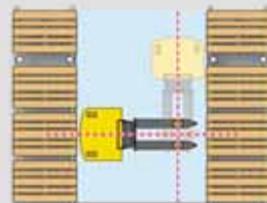
## ADJUSTABLE PERFORMANCE FOR SAFER DRIVING AND ECONOMIC OPERATION

Improved performance gives more efficient and speedy handling.

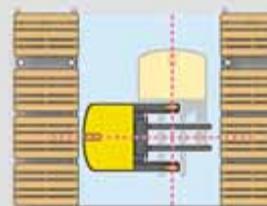
But along with this there is a responsibility to adjust and utilise the truck capabilities correctly. A safe working environment must always be the objective. Atlet ERGO trucks have therefore been equipped with a comprehensive series of programmable settings which permit adjustment and limitation to suit the layout of the premises, queuing frequency, nature of the goods, experience and capacity of the driver and other important parameters.

### COMPARISON OF AISLE WIDTH REQUIREMENT:

*The compact dimensions of the ERGO sit-on stacker allow both denser storage and narrower truck aisles (two-way traffic) compared with the reach truck.*



ATLET SIT-ON STACKER



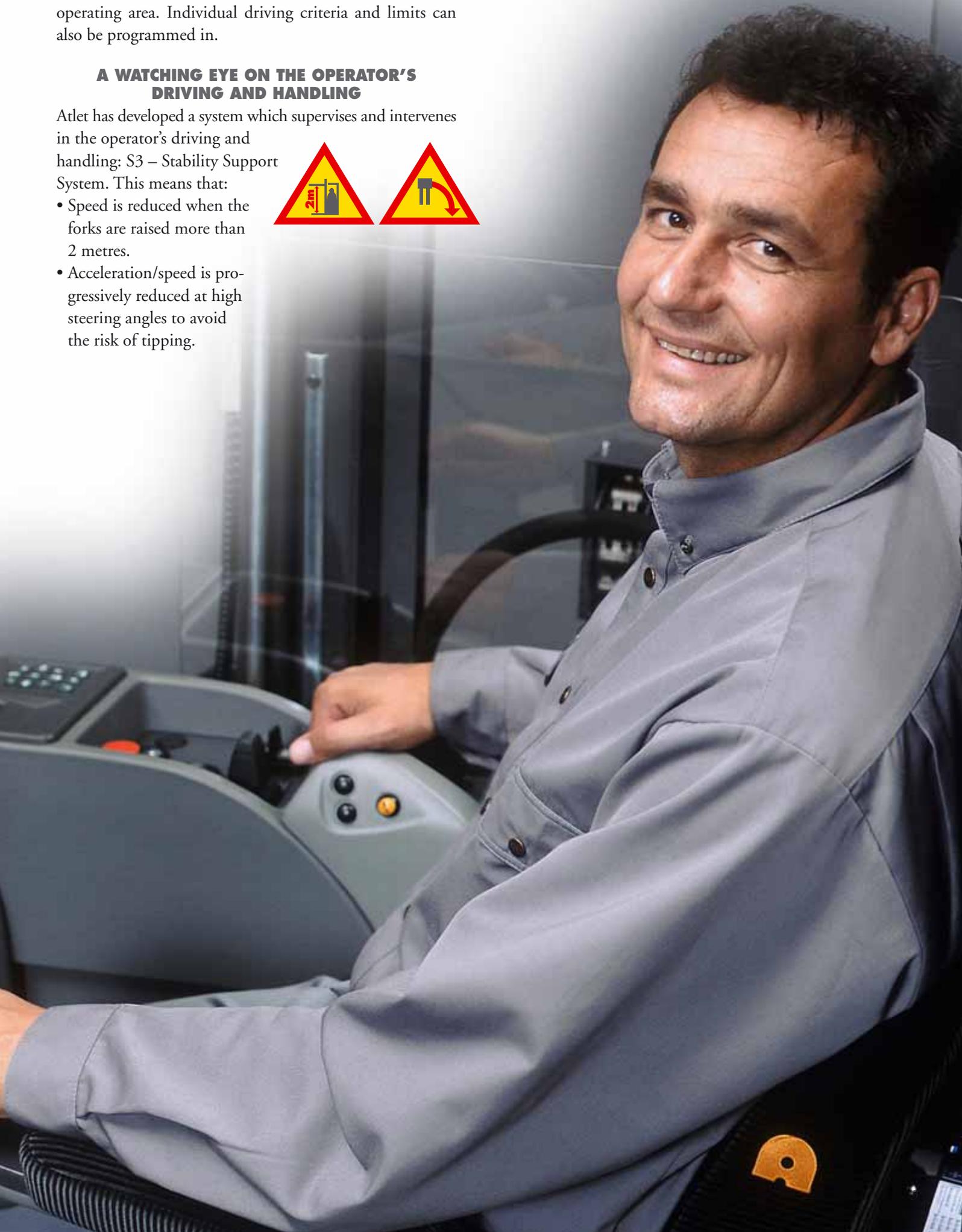
REACH TRUCK

To prevent accidents or incidents the truck computer offers a choice of four user categories to correspond to the driver's qualifications and also the degree of risk within the operating area. Individual driving criteria and limits can also be programmed in.

### **A WATCHING EYE ON THE OPERATOR'S DRIVING AND HANDLING**

Atlet has developed a system which supervises and intervenes in the operator's driving and handling: S3 – Stability Support System. This means that:

- Speed is reduced when the forks are raised more than 2 metres.
- Acceleration/speed is progressively reduced at high steering angles to avoid the risk of tipping.



## ERGONOMIC ADJUSTMENT

Make use of the many options to personalise the ergonomic driving environment! Atlet ERGO stackers are designed for this.

- Mini steering wheel with adjustable armrest.
- The armrest control can be angled from 0–10°.
- The seat is adjustable in all positions with compensation for the weight of the driver.
- The floor and the pedals can be raised from 350 mm to 430 mm.



## ERGONOMIC ARMREST AND HANDREST

Adjusting the height of the armrest enables the driver to avoid strain injury to the shoulders and neck. That's how important it is.

## FINGERTIP CONTROLS

The lifting/lowering function is very responsive, thanks to the proportional valve and short fingertip levers.



## MINI STEERING WHEEL AS STANDARD – MIDI OPTIONAL

The electric servo makes steering and manoeuvring quick and precise, and the mini steering wheel with the adjustable armrest gives the optimum ergonomic position. The armrest can be angled and turned to suit the driver's individual style. The wheel can be adjusted for height, angle and steering ratio.

## ROOM FOR FULLY GROWN DRIVER

The Atlet ERGO sit-on stacker has compact external dimensions but with its smart design it has a spacious driving position.

The comfortable seat has a vertical adjustment of no less than 100 mm, and the rake, sitting position and springing are also adjustable. Dirt-repellent and fire-resistant plush fabric.

Tall drivers have no problem – it is 2110 mm up to the overhead guard.

The step into the cab is only 350 mm high at the lowest floor level and 430 mm at maximum floor elevation. Choose between easy boarding and alighting or a high seating position with a good view.

## ANGLED FLOOR AND PEDALS

A correct, relaxed driving position helps to avoid strain injuries. That is why the Atlet ERGO sit-on stacker is highly adaptable. The floor can be raised no less than 80 mm and is angled to give the best possible driving position. The pedals are placed as in a car. Brake pedal in the centre and speed/forward/reverse on the right.

## UNIQUE ELECTRONICS

Atlet has taken the lead in truck electronics for controlling functions and performance.

The S3 – Stability Support System – monitors and if necessary intervenes in the operator's driving and handling.

Truck Fleet Management system measures handling efficiency (optional).

Communication display for truck performance such as fault indications and other information.

PIN codes for 100 drivers or IDs.

Hours-run meter and battery indicator.





# FLEXIBLE AND RELIABLE COMFORT FOR ALL ENVIRONMENTS

## THE TRUCK FOR TRANSPORT AND STACKING IN WAREHOUSES, STORE AND PRODUCTION WORKSHOPS

Small, versatile and with a high capacity. Unique comfort and ergonomics. These features make the Atlet ERGO sit-on stacker a winner in most warehouse and production environments. The aisle width requirement is as low as 2.4 metres. A 2.4 metre aisle also allows trucks to pass. The lift height is 6.3 metres for 1600 kg and 5.4 metres for 2000 kg. The lift speed is a very quick 0.3 metres/sec.

### 24 VOLT AC MOTOR AND SMART HYDRAULICS

The Atlet ERGO sit-on stacker is a power pack that can accelerate from 0 to 10 km/h in 4 seconds (in a forward direction). This is comparable to the quick reach trucks. The performance comes from a CAN-operating AC drive motor which gives an output of 2.4 kW as standard.

The motor also works as a retarding brake, which at the same time generates energy for the battery. The gear-driven transmission is hard-wearing and efficient.

The motor performance is easily programmable to suit different operating and environmental conditions.

A proportional valve for the hydraulic system gives high precision and flexibility to the raising/lowering movements. There is a choice of lift motors – DC 4.5 kW or DC 7.6 kW.

**Atlet S3** – Stability Support System – monitors driving and handling and intervenes in extreme situations.

The truck is very service-friendly with components easily accessible.

Daily inspection and charging are simple with the new charging plug and battery catch.

Service requirement, battery status and running log are easily read off on the truck display.

### LARGER STABILITY BASE FOR HIGH LIFTS

Atlet's versatile rider stackers (Atlet ERGO sit-on and stand-on stackers), with their small external dimensions and very high capacity, have revolutionised goods handling. Adapted for handling in narrower aisles and with the most cost-effective storage height (6 metres), the rider stackers are the best choice. The concession is that the stability base has to be enlarged for lift heights of over 4 metres, which in practice account for only a small part of the handling time.

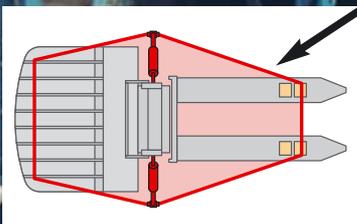
Outriggers increase the stability base by 50%, giving an extremely stable truck.

### DOUBLE PALLETS - TWICE THE HANDLING EFFICIENCY

With straddle lift (optional) the truck can be loaded with two pallets – one pallet on the straddles and one pallet on the forks.

Handling cycles can thus be made more efficient and truck utilisation can be increased.

This option also facilitates empty-pallet handling.



# ATLET ERGO SIT-ON STACKER

Atlet builds the largest range of stackers on the market, with four basic models and two models with telescopic forks.

\*Telescopic forks facilitate dense storage in double-depth racking (two pallets deep).

A large selection of battery capacities enables the truck to be adjusted to different operating conditions.

In the cold-store version the chassis is specially treated and motors, electronics and batteries are protected against moisture.

Side stabilisers are an option that enables heavy loads to be handled at heights above 4 metres.

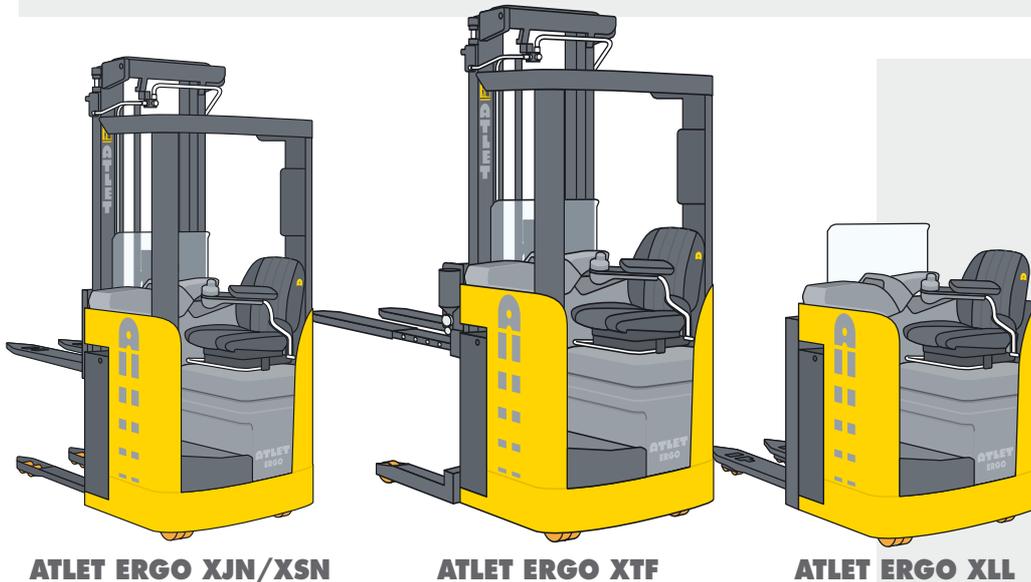
Atlet supplies a series of different forks: laterally adjustable, fork extensions and specially designed forks for particular requirements.

The straddles are available in a wide-track version for marine pallets, closed pallets etc.

The table below gives general guidance on the models and the equipment.

Detailed specifications may be seen on Atlet's website [www.atlet.se](http://www.atlet.se)

MODEL	CAPACITY kg (max)	LIFT HEIGHT mm (max)	AISLE WIDTH mm	BATTERY Ah (max)	COLD STORE	STRADDLE LIFT	STABILISERS	TELESCOPIC FORKS
160 XJN	1600	6300	2400	450		✓	✓	
160 XSN	1600	6300	2500	750	✓		✓	
200 XJN	2000	6400	2450	450	✓		✓	
200 XSN	2000	6300	2550	750	✓		✓	
100 XTF* (XJN)	1000	5700	2520	750				✓
100 XTF* (XSN)	1000	6300	2620	450				✓



The Atlet ERGO XLL is intended for convenient and frequent movement of materials and pallet goods. It can be driven easily onto a lorry platform. The forks can be raised 200 mm and can be adapted for specific applications and for different kinds of load carrier. The straddles can be lifted. The Atlet ERGO XLL has the Ergo stacker's high ergonomic standard, driver safety and comfort.

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