

# Jungheinrich High Rack Stacker Capacity 3300 lb

## ETX ac 150



- **Highly efficient 3-phase AC motors**
- **Energy reclamation during braking and lowering**
- **Ergonomic rotating seat**
- **Swivelling forks for load pick-up direct from the floor**
- **Lift heights up to 43 ft**

The ETX ac range of trucks permit storage and retrieval of pallets and other loading aids in purpose built racking installations. With a choice of either mechanical or inductive guidance, the ETX ac requires only a minimum of working aisle width.

**Operator compartment:** The spacious rotating operator compartment ensures fatigue-free operation. The seat is adjustable to operator's body weight and size. The operating console with integrated armrest can be adjusted according to height and distance to seat. All operating elements are easily reached. Integrated into the central operator console is a large display which provides the operator with important truck parameters and conditions in the form of symbols.

**Load Handling Device:** The swivelling forks pick up loads direct from the floor, either sideways or from the front. All normal loading aids may be used. As standard, the forks can be moved to the required stacking position (left or right) by means of manually controlled overriding swivel and/or reach movement. Automatic synchronisation is available as an option. All fork movements are sensitively regulated via the engine speed and have adjustable cushioning during starting and reaching end positions. The ETX ac can also be supplied with telescopic forks.

**Drive:** Powerful 3-phase ac motor with 7.0 kW (60 min minimum rating) performance. High constant thermo-stability. Two years warranty.

**Drive Control:** Stepless, sensitive control of travel speed by means of MOSFET impulse control. The travel speed is controlled via the accelerator pedal. Regenerative braking is applied as soon as the foot comes off the accelerator pedal and the reclaimed energy is fed back into the battery or into other consuming components.

**Wheels:** Drive wheel dia. 15.75" x 6.3", load wheels up to load axle width 51" dia. 15" x 5.7". From load axle width 53" dia. 15" x 7.6". Drive wheel with Vulkollan, load wheels with Tractotan tyres.

**Brake:** The regenerative motor brake serves as operating brake and is easy on the truck. In addition, hydraulic-mechanically operated load wheel brakes can be activated via foot pedal. Their braking power is tailored automatically to suit the lift height selected. As parking brake, an electro-magnetic spring pressure brake acts upon the drive wheel. In case of an emergency stop, all three wheels are activated simultaneously.

**Steering:** Easy to operate electric steering. Automatic straight ahead wheel alignment when truck is switched on.

**Hydraulics:** Pump unit with powerful 21 kW 3-phase ac motor (S3 25 %). All hydraulic movements are sensitively controlled via MOSFET impulse control. During lowering of the forks, the lift motor is switched over to regenerative operation and the reclaimed energy is fed back into the battery or other consuming components.

**Mast:** 2-stage or 3-stage masts with full free lift. Excellent bending strength. Mast cylinders are arranged on the outside to ensure superb visibility through the mast.

**Battery:** 80 V/700 Ah. 72 Volt system on request.

**Easy Servicing:** All components are easily accessible via simple opening of rear cover. An integrated diagnostics system provides fast fault detection and removal. Several performance parameters are immediately controllable and adjustable via PC due to most up-to-date Bus technology.

**Options:** Inductive guidance, application tailored truck and load pick-up device dimensions and types.

**Safety:** The truck conforms to current EU regulation **CE** for fork lift trucks.



ISO-9001, ISO-14001 -  
Certification of Quality and  
Environment Management.

# JUNGHEINRICH

## Performance Data

Referring to a truck with rail guidance and 2- stage mast  $h_3 = 216.5$  inch

Capacity at $c = 24''$ LC		1500 kg	3300 lb
Travel speed	without load	10.5 km/h	6.5 mph
	with load	10.5 km/h	6.5 mph
Lift speed	without load	0.46 m/s	90.6 ft/min
	with load	0.45 m/s	88.6 ft/min
Lowering speed	without load	0.48 m/s	94.5 ft/min
	with load	0.48 m/s	94.5 ft/min
Service weight incl. 700 Ah battery		approx.7530 kg	16600lb
Battery compartment size and weight		1072 x 870 x 880 mm (1863 kg)	
		42.2 x 34.25 x 34.6'' (4108 lb)	

## Technical Data

Truck dimensions relating to max. pallet size 48 x 48" and 2-stage mast (further dimensions on request)

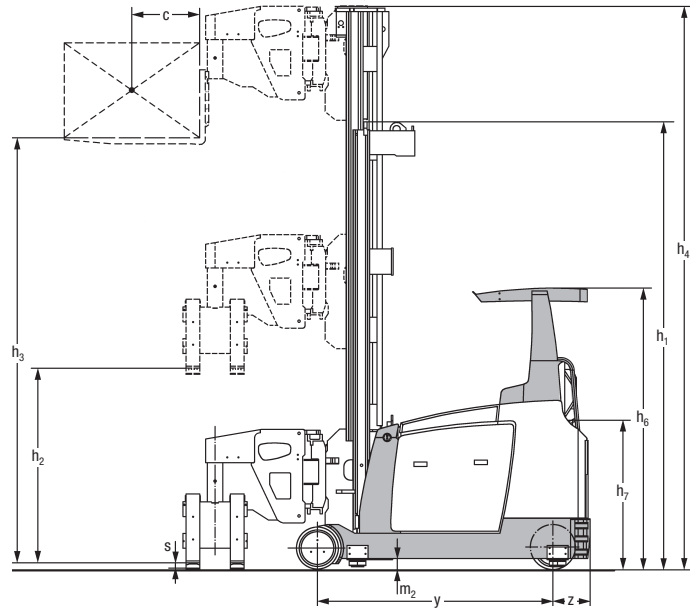
	mm	inch
$c$ — Load centre	600	24.0
$y$ — Wheelbase	2094	82.4
$z$ — Rear edge truck - drive axle	332	13.1
$h_1$ — Closed mast height	see table	see table
$h_2$ — Free lift	see table	see table
$h_3$ — Lift	see table	see table
$h_4$ — Extended mast height	see table	see table
$h_6$ — Height of overhead load guard	2461	96.9
$h_7$ — Seat height	1280	50.4
$l$ — Fork length	1200	47.2
$s$ — Fork thickness	50	2.0
$e$ — Fork width	120	4.7
$l_1$ — Total length without load	3780	148.8
$l_2$ — Length incl. back of forks	3475	136.8
$l_6$ — Stacking-in depth	1220	48.0
$l_8$ — Pivot point load wheel axle	914	36.0
$b_1$ — Chassis width	1210	47.6
$b_2$ — Width over load wheel axle	1450	57.1
$b_5$ — Width over forks	845	33.3
$b_6$ — Width over guide rollers	1650	65.0
$b_7$ — Reach	1310	51.6
$b_{12}$ — Pallet width	1220	48.0
$A_{st}$ — Working aisle width rail guided	see table	see table
$W_a$ — Turning radius	2460	96.9
$m_2$ — Ground clearance centre wheelbase	90	3.5

## Working Aisle Widths

	mm	inch
Pallet size (lengthwise)	1016 x 1220	40 x 48
Insertion depth	1220	48.0
$A_{st}$ - Aisle width, rail-guided	1650	65.0
$A_{st}$ - Aisle width, wire-guided	1720	67.7
$A_{st_3}$ - Transfer aisle (8" clearance) *	3970	156.3
Pallet size (crosswise)	1220 x 1016	48 x 40
Insertion depth	1016	40.0
$A_{st}$ - Aisle width, rail-guided	1420	55.9
$A_{st}$ - Aisle width, wire-guided	1520	59.8
$A_{st_3}$ - Transfer aisle (8" clearance) *	4190	165.0

\* practical transfer aisle width +20" (+500 mm) with rail-guidance  
 \* practical transfer aisle width +40" (+1000 mm) with wire-guidance

Right reserved to carry out modifications and technical improvements.



## Standard mast types

Two-stage masts ZT			Three-stage masts DZ			
$h_3$	$h_1$	$h_4$	$h_3$	$h_1$	$h_4$	$h_2$
inch	inch	inch	inch	inch	inch	inch
118.1	105.1	167.3	236.2	126.0	285.4	76.8
128.0	110.0	177.2	255.9	133.9	305.1	84.6
137.8	115.0	187.0	275.6	141.7	324.8	92.5
147.6	119.9	196.9	295.3	149.6	344.5	100.4
157.5	124.8	206.7	315.0	157.5	364.2	108.3
167.3	129.7	216.5	334.6	165.4	383.9	116.1
177.2	134.6	226.4	354.3	173.2	403.5	124.0
187.0	139.6	236.2	374.0	181.1	423.2	131.9
196.9	144.5	246.1	393.7	187.0	442.9	137.8
206.7	149.4	255.9	413.4	194.9	462.6	145.7
216.5	154.3	265.7	433.1	200.8	482.3	151.6
226.4	159.3	275.6	452.8	208.7	502.0	159.4
236.2	164.2	285.4	472.4	214.6	521.7	165.4
246.1	169.1	295.3	492.1	222.4	541.3	173.2
255.9	174.0	305.1	511.8	228.3	561.0	179.1
265.7	178.9	315.0				
275.6	185.8	324.8				
285.4	190.7	334.6				
295.3	195.7	344.5				
305.1	200.6	354.3				
315.0	205.5	364.2				
324.8	210.4	374.0				
334.6	215.4	383.9				
344.5	220.3	393.7				
354.3	225.2	403.5				

