



Medium/high level order picker **EKS 412s**

Lift height: 5000-12500 mm / Capacity: 0-1200 kg

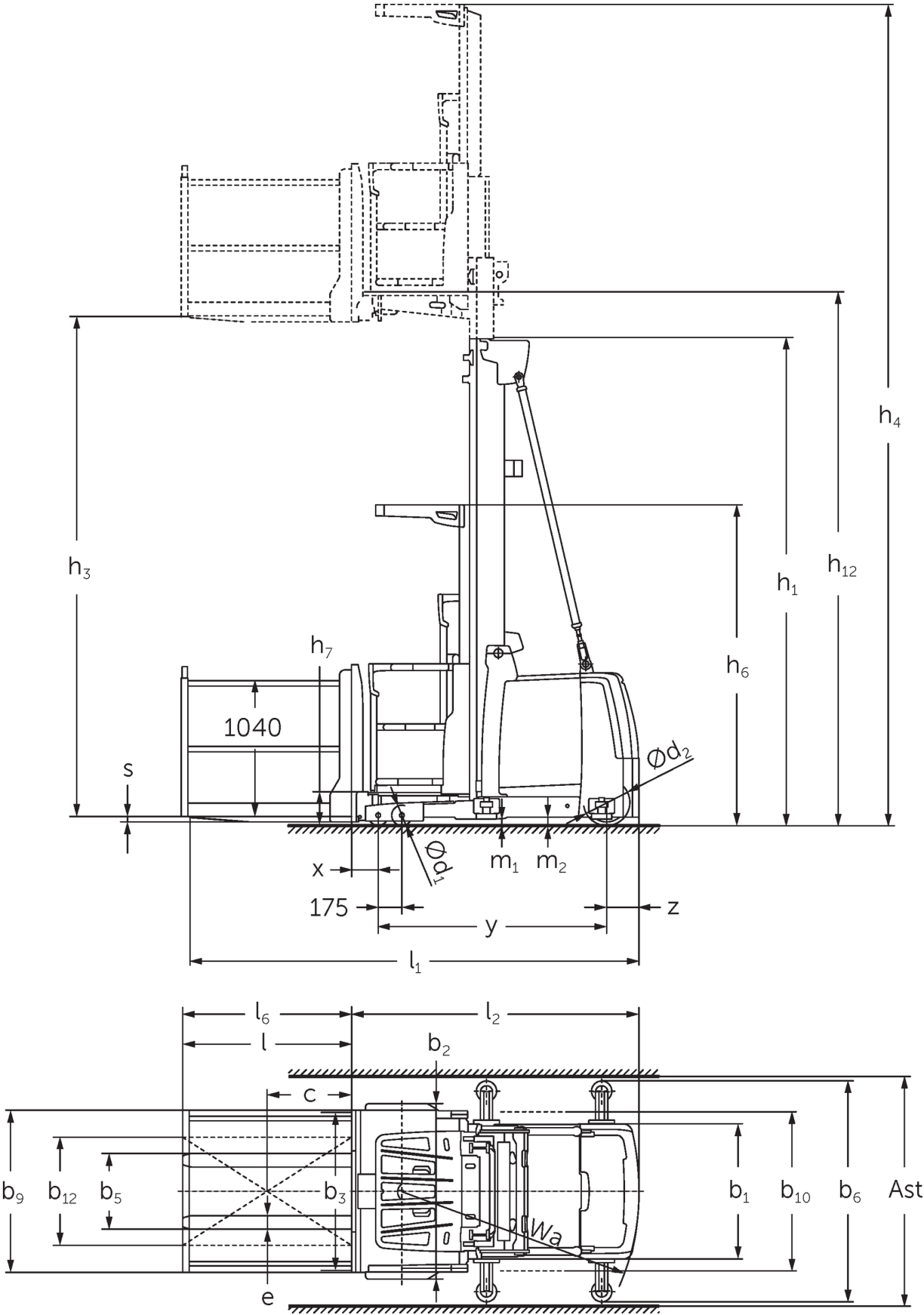
The extremely powerful and efficient medium and high-level order picker EKS 412s allow for maximum performance in narrow-aisle applications, especially in order picking heights higher than 14 metres thanks to its extended lift mast portfolio.

The synchronous reluctance motor combined with 48-V control technology increase efficiency while reducing energy loss. If required, individual power modules take

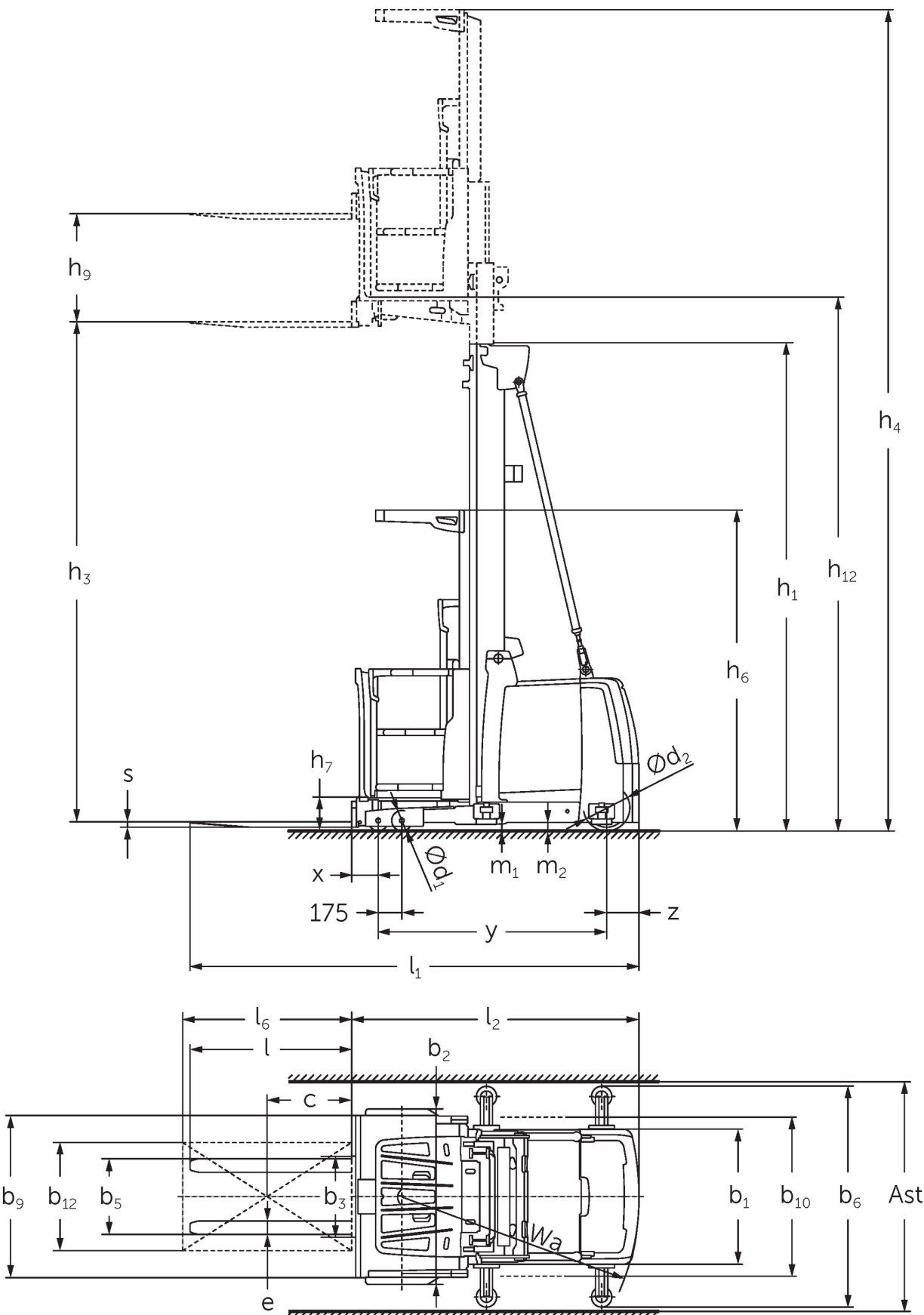
speed and load capacity to the highest level. In addition, optional assistance and personal protection systems enhance warehouse safety.

A sophisticated operating concept facilitates the easy interplay of operator and machine, while the truck's seamless integration in existing warehouse management systems using warehouseNAVIGATION and RFID technology improves goods throughput by up to 25 %.

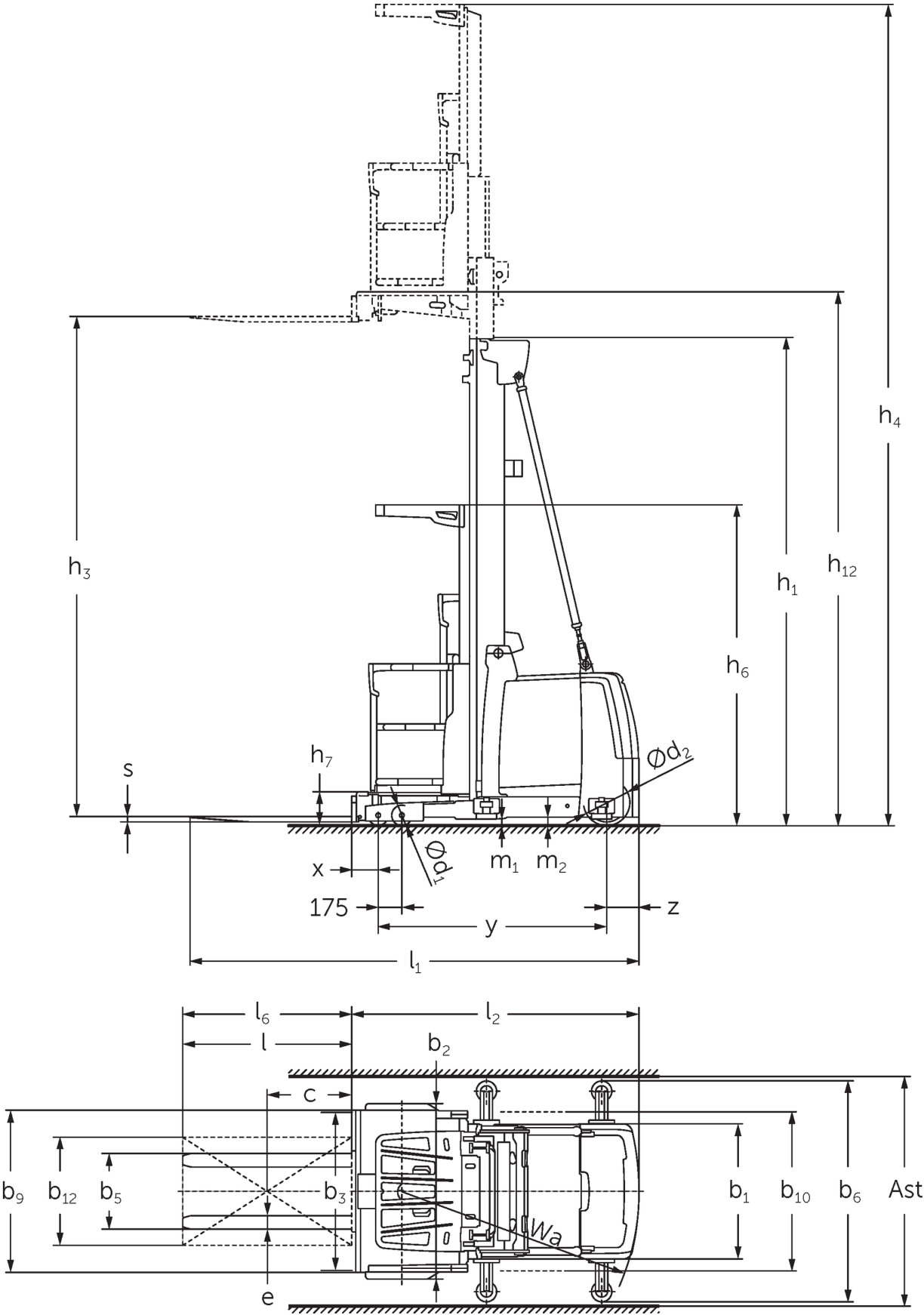
EKS 412s



EKS 412s



EKS 412s



EKS 412s

EKS 412s Z_SF, EKS 412s Z_I, EKS 412s L_SF, EKS 412s L_I, EKS 412s O_SF, EKS 412s O_I	Lift (h3)	Retracted mast height (h1)	Free lift (h2)	Extended mast height (h4)	Tilt of mast forwards/backwards	Tilt of fork carriage forwards/backwards
Duplex mast ZT	4250 mm	2950 mm		6620 mm		
	5000 mm	3330 mm		7370 mm		
	5500 mm	3600 mm		7870 mm		
	6000 mm	3850 mm		8370 mm		
	6500 mm	4125 mm		8870 mm		
	7500 mm	4650 mm		9870 mm		
	8500 mm	5150 mm		10870 mm		
Triplex mast DT	5500 mm	2610 mm		7870 mm		
	6000 mm	2780 mm		8370 mm		
	6500 mm	2940 mm		8870 mm		
	7000 mm	3110 mm		9370 mm		
	7500 mm	3275 mm		9870 mm		
	8000 mm	3440 mm		10370 mm		
	8500 mm	3610 mm		10870 mm		
	9000 mm	3810 mm		11370 mm		
	9500 mm	3980 mm		11870 mm		
	10500 mm	4410 mm		12870 mm		
	11500 mm	4810 mm		13870 mm		
	12500 mm	5210 mm		14870 mm		

VDI table

Stand-on: 10/2019

Characteristic	1.1	Manufacturer (abbreviated description)		Jungheinrich			
	1.2	Manufacturer's type designation		EKS 412s			
	1.3	Drive		Electric			
	1.4	Operation		Order pickers			
	1.5	Capacity/load	Q	kg	1.200		
	1.6	Load centre distance	c	mm	400		
	1.8	Load distance, centre of drive axle to fork	x	mm	155	145	
	1.9	Wheelbase	y	mm	1.690		
Weights	2.1.1	Service weight (incl. battery)		kg	3.650	3.850	3.590
	2.2	Axle load laden front/rear		kg	3.575 / 1.160	3.825 / 1.110	3.515 / 1.160
	2.3	Axle load unladen front/rear		kg	1.840 / 1.810	2.090 / 1.760	1.780 / 1.810
Wheels/ suspension system	3.1	Tyres		PUR			
	3.2	Tyre size, front		Ø 150 x 100			
	3.3	Tyre size, rear		Ø 343 x 114			
	3.5	Wheels, number front/back (x=driven)		4 / 1 x			
Basic dimensions	4.2	Retracted mast height (h1)	h ₁	mm	3.330		
	4.4	Lift (h3)	h ₃	mm	5.000		
	4.5	Extended mast height (h4)	h ₄	mm	7.370		
	4.7	Height of overhead guard (cab)	h ₆	mm	2.370		
	4.8.1	Stand height	h ₇	mm	245		
	4.14	Stand height, elevated		mm	5.245		
	4.19	Overall length	l ₁	mm	3.285	3.330	3.275
	4.20	Length including fork shank	l ₂	mm	2.085	2.075	
	4.21	Overall width	b ₁ /b ₂	mm	1.000		
	4.22	Fork dimensions	s/e/l	mm	40 / 100 / 1.200	50 / 100 / 1.250	50 / 100 / 1.200
	4.25	Width across forks (dimension 1), WaF	b ₅	mm	560		
	4.31	Ground clearance laden under mast	m ₁	mm	50		
	4.35	Turning radius	W _a	mm	1.930		
	4.38	Order picking height		mm	6.845		
Performance data	5.1	Travel speed laden/unladen		km/h	12 / 12		
	5.2	Lift speed laden/unladen		m/s	0.50 / 0.50		
	5.3	Lowering speed laden/unladen		m/s	0.50 / 0.40		
	5.10	Service brake			regenerative		
	5.11	Parking brake			Electric sprung-loaded		
E-motor/ Electronics	6.1	Drive motor, performance S2 60 min		kW	6.5		
	6.2	Lift motor, performance with S3		kW	12		
	6.4	Battery voltage / nominal capacity		V / Ah	48 / 620		
	6.5	Battery weight		kg	935		
Miscellaneous	8.1	Type of drive control			AC synchronous reluctance		
	10.5	Steering version			electric		
	10.7	Sound level as per EN12053, operator's ear		dB (A)	67		

- In accordance with VDI Guideline 2198 this data sheet provides details of the standard truck only. Non-standard tyres, different masts, optional equipment, etc. may result in different values.

The German production facilities in
Norderstedt, Moosburg and Landsberg
are certified.

ISO 9001
ISO 14001

Jungheinrich fork lift trucks meet
European safety requirements.



 **JUNGHEINRICH**