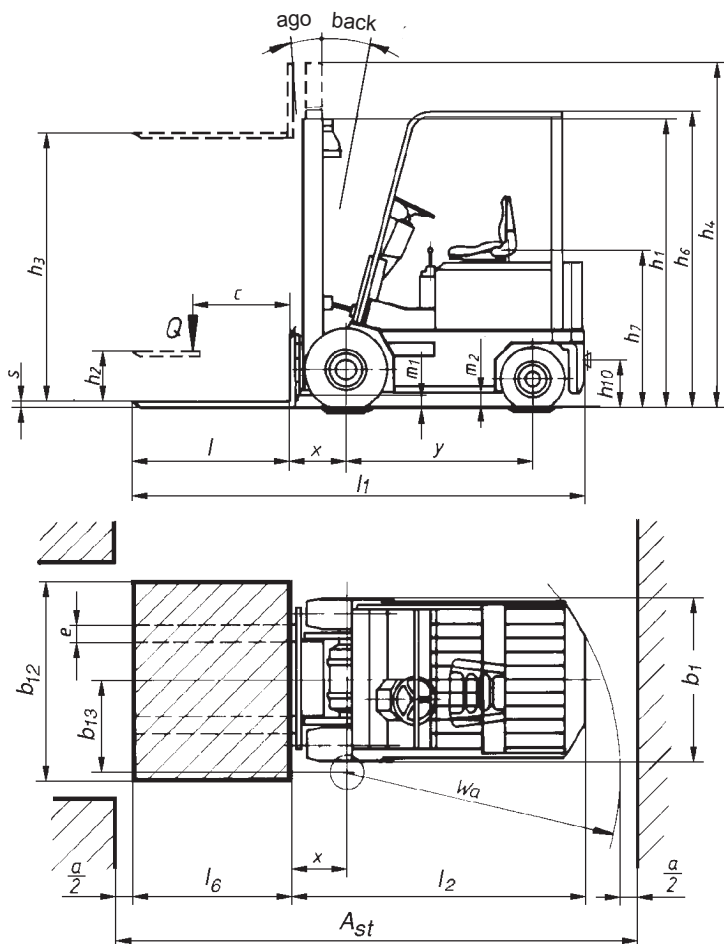




Electric Fork Lift Truck

Explosion-proof, three-phase current techn.

EFG



- $A_{st} = W_a + x + l_6 + a$
- A_{st} = Aisle width between stacks
- a = Safety distance = 200 mm
- l_6 = Pallet width (e.g. 800 or 1000 mm)
- b_{12} = Pallet length (e.g. 1200 mm)

EFG 25-40XE2 / ..H2 / ..ST
Technical Data



Technical Data

(in accord. with VDI 2198)

Electric Fork Lift Truck (four-wheeled version)

EFG 25-40XE2/..H2/..ST; explosion-proof, three-phase current technology

Explosion protection: the devices are tested and approved by the Physikalisch Technische Bundesanstalt (PTB) (Physical-Technical Federal Institute) for use in areas at risk of explosion according to the following protection classes****: Gas explosion protection - suitable for use in explosive areas, zones 1 and 2 according to BetrSichV within explosion sub-groups IIA and IIB or IIB + H2 and temperature classes T1 to T4 and 120°C; Dust explosion protection: - suitable for use in explosive areas, zones 21 and 22 according to BetrSichV at surface temperatures of maximum 115°C.

Description		MIAG	MIAG	MIAG	MIAG	
1.1	Manufacturer (Make [abbreviation])	MIAG	MIAG	MIAG	MIAG	
1.2	Type designation of the manufacturer	EFG 25XE2 ..	EFG 30XE2 ..	EFG 35XE2 ..	EFG 40XE2 ..	
1.3	Drive Battery, Diesel, Petrol, fuel gas, mains current	Battery	Battery	Battery	Battery	
1.4	Operation Hand, Pedestrian, stand-on, driver-seated	Driver seated	Driver seated	Driver seated	Driver seated	
1.5	Carrying capacity / Load	Q (t)	2,5	3,0	3,5	4,0
1.6	Load centre	c (mm)	500	500	500	500
1.8	Load distance , mast lowered	x (mm)	445	430	470	470
1.9	Wheel base	y (mm)	1630	1820	1890	1890
Weights						
2.1	Dead weight	kg	4400	4850	5750	6250
2.2	Axle load laden front/rear	kg	6060 / 840	7170 / 680	8300 / 950	9000 / 1250
2.3	Axle load unladen front/rear	kg	2100 / 2300	2650 / 2200	3000 / 2750	2950 / 3300
Wheels, Chassis						
3.1	Tyres Pneumatic, Solid, Vulcollan	Sup.cush./Pneum.	Sup.cush./Pneum.	Sup.cush./Pneum.	Sup.cush./Pneum.	
3.2	Dimension in front	23x9-10 / 20PR	23x9-10 / 20PR	27x10-12	27x10-12	
3.3	Dimension at the rear	18x7-8 / 14 PR	18x7-8 / 14 PR	21x8-9	21x8-9	
3.5	Wheels number front / rear, x=driven	2x / 2	2x / 2	2x / 2	2x / 2	
3.6	Truck width front	b_{10} (mm)	940	940	1225	1225
3.7	Truck width rear	b_{11} (mm)	926	926	926	926
Base dimensions ***						
4.1	Mast tilt /fork carriage, ago / back	Degree	3 / 6	3 / 6	3 / 6	3 / 6
4.2	Height of mast, lowered	h_1 (mm)	2175	2188	2380	2380
4.3	Free lift	h_2 (mm)	150	140	150	150
4.4	Lift at double mast	h_3 (mm)	2900	3165	2900	2900
4.5	Height of mast, raised	h_4 (mm)	3625	3785	3760	3760
4.7	Height above overhead guard (cabin)	h_6 (mm)	2200	2200	2420	2420
4.8	Seat height (seat load)	h_7 (mm)	1140	1140	1300	1300
4.12	Height coupling	h_{10} (mm)	435	435	435	435
4.19	Length total (without forks)	l_1 (mm)	3430	3650	3760	3810
4.20	Length including shank (retired)	l_2 (mm)	2430	2650	2760	2810
4.21	Width total	b_1/b_2 (mm)	1160	1160	1235	1235
4.22	Fork dimensions	$s/e/l$ (mm)	48/128/1000	58/128/1000	58/128/1000	58/128/1000
4.23	Fork carriage according to DIN 15173 / ISO 2328, A/ B		A	A	A	A
4.24	Fork carriage width	b_3 (mm)	1100	1050	1050	1050
4.31	Ground clearance with load under lifting frame	m_1 (mm)	125	140	150	150
4.32	Ground clearance centre wheel base (lowest point)	m_2 (mm)	110	110	130	130
4.33	Aisle width for pallets 1000x1200 cross	A_{st} (mm)	3875	4085	4200	4245
4.34	Aisle width for pallets 800x1200 cross	A_{st} (mm)	3675	3890	4000	4045
4.35	Turning radius	W_a (mm)	2230	2450	2525	2570
4.36	min. fulcrum distance	b_{13} (mm)	640	735	765	880
Performance						
5.1	Speed travel laden / unladen	km / h	13 / 14	10 / 11	8 / 9,5	8 / 9,5
5.2	Speed lift laden / unladen	m / s	0,20 / 0,23	0,20 / 0,23	0,19 / 0,23	0,18 / 0,23
5.3	Speed lower laden / unladen	m / s	0,35 / 0,22	0,35 / 0,22	0,35 / 0,22	0,35 / 0,22
5.5	draw-bar pull laden / unladen(outside expl.-proof area)	N	-	-	-	-
5.6	max. draw-bar pull laden/unladen (outs. expl.-proof area)	N	12000/10000	12000/10000	12000/10000	12000/10000
5.7	Climbing capacity with / without load	%	11 / 15	11 / 15	6 / 13	5 / 12
5.8	Max. gradeability laden / unladen	%	on application	on application	on application	on application
5.9	Acceleration period laden / unladen	s	5 / 4	5 / 3	5 / 3,5	5 / 3
5.10	Service brake		electrical	electrical	electrical	electrical
E-Motor						
6.1	Traction motor, output / 1 hour rating	kW	8	8	8	8
6.2	Lift motor, output / 1 hour rating	kW	8	8	8	8
6.3	Battery according to DIN 43531 / 35 / 36, A / B / C, no		no	no	no	no
6.4	Battery voltage / Capacity K_s	V / Ah	80 / 400	80 / 480	80 / 750	80 / 750
6.5	Battery weight	kg	1060	1260	1740	1740
Others						
8.1	Motor control type		pulse	pulse	pulse	pulse
8.2	Working pressure for attachments	bar	max. 200	max. 200	max. 180	max. 180
8.3	Oil quantity for attachments	l / min	48	32	32	32
8.4	Sound level at driver ' s ear to EN12053	dB (A)	64	64	64	64
8.5	Coupling, Kind / Type DIN		SK3	SK3	SK3	SK3

* statements for design with SV mast (without integrated side shift) with basic equipment
 ** from 3500 mm lift height reduction of carrying capacity to 80 %
 *** with mast design in series, further designs on request
 **** depending on device version