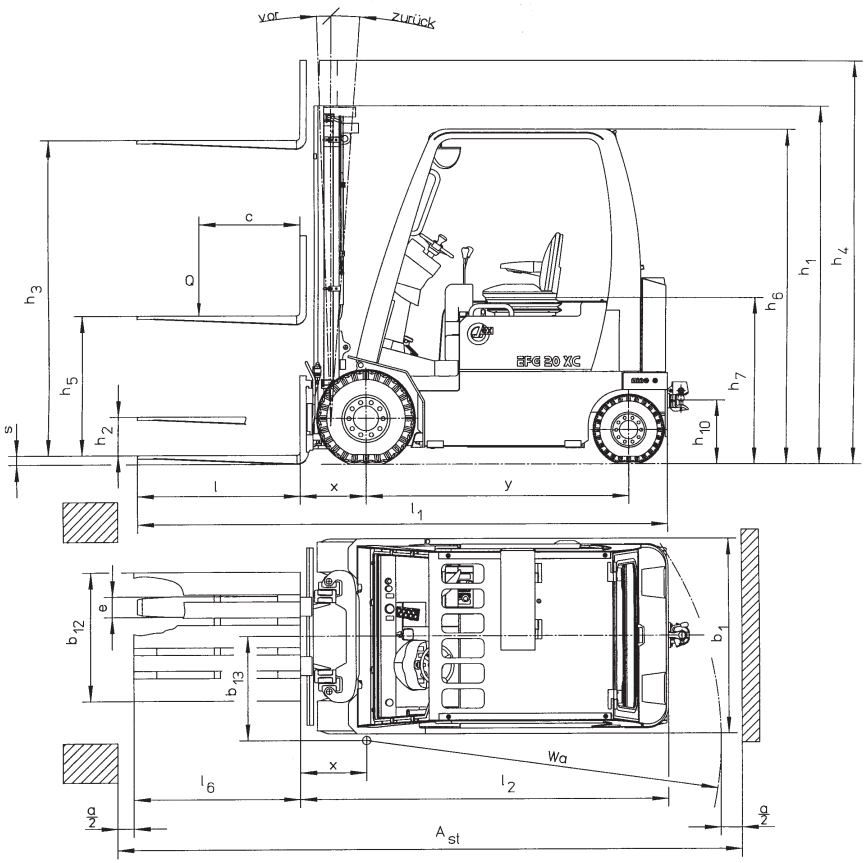
The specialist in Ex-industrial lift trucks
and innovative transport systems

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 12-25XC / ..H2 / ..ST
Technical Data

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Technical Data
(in accord. with VDI 2198)

Electric Fork Lift Truck (four-wheeled version)
EFG 12-25XC/..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; Dust explosion protection: - suitable for use in explosive areas, zones 21 and 22 according to BetrSichV at surface temperatures of maximum 130°C.

Description							
1.1	Manufacturer (Make [abbreviation])			MIAG	MIAG	MIAG	MIAG
1.2	Type designation of the manufacturer			EFG 12XC..	EFG 16XC..	EFG 20XC..	EFG 25XC..
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)	1,2	1,6	2,0	2,5
1.6	Load centre	c	(mm)	500	500	500	500
1.8	Load distance , mast lowered	x	(mm)	407*-468	407*-468	407*-468	407*-468
1.9	Wheel base	y	(mm)	1620	1620	1620	1620
Weights ****							
2.1	Dead weight	kg		3650	3810	4070	4380
2.2	Axle load laden front/rear	kg		3950 / 900	4590 / 820	5250 / 820	6080 / 800
2.3	Axle load unladen front/rear	kg		2110 / 1540	2110 / 1700	2140 / 1930	2180 / 2200
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	23x9-10/20PR	23x9-10/20PR
3.3	Dimension at the rear			18x7-8 /14 PR	18x7-8 /14 PR	18x7-8 /14 PR	18x7-8 /14 PR
3.5	Wheels number front / rear, x=driven			2x / 2	2x / 2	2x / 2	2x / 2
3.6	Truck width front	b_{10}	(mm)	986	986	986	986
3.7	Truck width rear	b_{11}	(mm)	944	944	944	944
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)	2075	2075	2075	2075
4.3	Free lift	h_2	(mm)	150	150	150	150
4.4	Lift at double mast	h_3	(mm)	2700	2700	2700	2700
4.5	Height of mast, raised	h_4	(mm)	3425	3425	3425	3425
4.7	Height above overhead guard (cabin)	h_6	(mm)	2090	2090	2090	2090
4.8	Seat height (seat load)	h_7	(mm)	1030	1030	1030	1030
4.12	Height coupling	h_{10}	(mm)	405	405	405	405
4.19	Length total	l_1	(mm)	3267	3267	3267	3267
4.20	Length including shank	l_2	(mm)	2267	2267	2267	2267
4.21	Width total	b_1 / b_2	(mm)	1210	1210	1210	1210
4.22	Fork dimensions	$s/e/l$	(mm)	48/128/1000	48/128/1000	48/128/1000	48/128/1000
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	1100	1100	1100
4.31	Ground clearance with load under lifting frame	m_1	(mm)	125	125	125	125
4.32	Ground clearence centre wheel base (lowest point)	m_2	(mm)	110	110	110	110
4.33	Aisle width for pallets 1000x1200 cross	A_{st}	(mm)	3795	3795	3795	3795
4.34	Aisle width for pallets 800x1200 cross	A_{st}	(mm)	3595	3595	3595	3595
4.35	Turning radius	W_a	(mm)	2185	2185	2185	2185
4.36	min. fulcrum distance	b_{13}	(mm)	645	645	645	645
Performance							
5.1	Speed travel laden / unladen	km / h		18 / 18	17 / 18	16 / 18	15 / 18
5.2	Speed lift laden / unladen	m / s		0,26 / 0,28	0,26 / 0,28	0,25 / 0,28	0,24 / 0,28
5.3	Speed lower laden / unladen	m / s		0,28 / 0,20	0,30 / 0,20	0,32 / 0,20	0,36 / 0,20
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	%		15 / 15	14 / 15	13 / 15	12 / 15
5.8	Max. gradeability laden / unladen	%		-	-	-	-
5.9	Acceleration period laden / unladen	s		5 / 5	6 / 5	7 / 6	8 / 6
5.10	Service brake			electr. / hydr.	electr. / hydr.	electr. / hydr.	electr. / hydr.
E-Motor							
6.1	Traction motor, output / 1 hour rating	kW		7	7	7	7
6.2	Lift motor, output / 1 hour rating	kW		5	5	5	5
6.3	Battery according to DIN 43531 / 35 / 36, A / B / C, no			no	no	no	no
6.4	Battery voltage / Capacity K_5	V / Ah		80 / 345-375	80 / 345-375	80 / 345-375	80 / 345-375
6.5	Battery weight	kg		930-1000	930-1000	930-1000	930-1000
Others							
8.1	Motor control type			pulse	pulse	pulse	pulse
8.2	Working pressure for attachments	bar		max. 200	max. 200	max. 200	max. 200
8.3	Oil quantity for attachments	l / min		max. 50	max. 50	max. 50	max. 50
8.4	Sound level at driver´s ear to EN12053	dB (A)		-	-	-	-
8.5	Coupling, Kind / Type DIN			243 A	243 A	243 A	243 A

* statements for design with SV mast (without integrated side shift) with basic equipment
** from 3500 mm lift height reduction of carrying capacity to80 %
*** with mast design in series, further designs on request
**** depending on device version