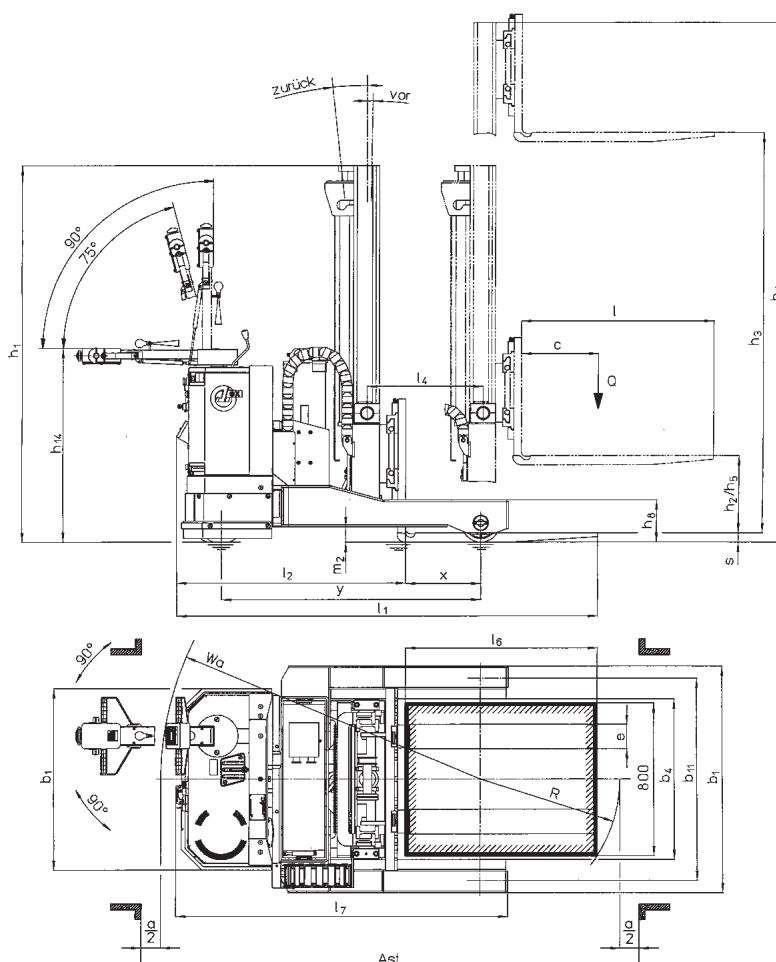


Pedestrian Reach Truck
Explosion-proof

EGM



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

EGM 10-15XE2/ ..H2 / ..ST

Technical Data

MIAG Fahrzeugbau GmbH
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Technical Data

(in accord. with VDI 2198)

Pedestrian reach truck

EGM 10-15XE2 /..H2 /..ST, electronic, explosion-proof

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

1.1	Manufacturer (Make [abbreviation])		MIAG	MIAG	MIAG	
1.2	Type designation of the manufacturer		EGM 10XE2 ..	EGM 12XE2 ..	EGM 15XE2 ..	
1.3	Drive Battery, Diesel, Petrol, fuel gas, mains current		Battery	Battery	Battery	
1.4	Operation Hand, Pedestrian, stand-on, driver-seated		Pedestrian	Pedestrian	Pedestrian	
1.5	Carrying capacity / Load	Q (t)	1,0	1,2	1,5	
1.6	Load centre	c (mm)	400	400	400	
1.8	Load distance, mast lowered	x (mm)	389	389	389	
1.9	Wheel base	y (mm)	1343	1343	1343	

Weights

2.1	Dead weight including battery 360 Ah	kg	1930	1950	1980	
2.2	Axle load laden front/rear	kg	1060 / 1870	1100 / 2050	1150 / 2330	
2.3	Axle load unladen front/rear	kg	1190 / 740	1200 / 750	1210 / 770	

Wheels, Chassis

3.1	Tyres Pneumatic, Solid, Vulcollan		Solid / Vul.	Solid / Vul.	Solid / Vul.	
3.2	Dimension in front		Ø 260 x 85	Ø 260 x 85	Ø 260 x 85	
3.3	Dimension at the rear		Ø 200 x 80	Ø 200 x 80	Ø 200 x 80	
3.4	Additional wheels (dimensions)		Ø 160 x 50	Ø 160 x 50	Ø 160 x 50	
3.5	Wheels number front / rear, x=driven		2, 1x / 2	2, 1x / 2	2, 1x / 2	
3.6	Truck width front	b ₁₀ (mm)	583	583	583	
3.7	Truck width rear	b ₁₁ (mm)	1055	1055	1055	

Base dimensions

4.1	Mast tilt /fork carriage, ago / back	Degrees	1° / 6°	1° / 6°	1° / 6°	
4.2	Height of mast, lowered	h ₁ (mm)	2015	2015	2015	
4.3	Free lift	h ₂ (mm)	60	60	60	
4.4	Lift at double mast **	h ₃ (mm)	2500	2500	2500	
4.5	Height of mast, raised	h ₄ (mm)	3260	3260	3260	
4.9	Height of tiller arm (in drive position) min. / max.	h ₁₄ (mm)	1013	1013	1013	
4.10	Height of arms	h ₈ (mm)	220	220	220	
4.19	Length total (without forks)	l ₁ (mm)	2187	2187	2187	
4.20	Length including shank (retired)	l ₂ (mm)	1187	1187	1187	
4.21	Width total	b ₁ (mm)	1182	1182	1182	
4.22	Fork dimensions	s/e / l (mm)	48/128/1000	48/128/1000	48/128/1000	
4.23	Fork carriage according to DIN 15173 / ISO 2328, A/ B		-	-	-	
4.25	Forkoutside distance max. / min.	b ₅ (mm)				
4.26	Width between Reach legs, inside	b ₄ (mm)	840	840	840	
4.28	Feed	l ₄ (mm)	600	600	600	
4.31	Ground clearance with load under lifting frame	m ₁ (mm)				
4.32	Ground clearance centre wheel base (lowest point)	m ₂ (mm)	80	80	80	
4.34	Aisle width for pallets 800x1200 along *	A _{st} (mm)	2584	2584	2584	
4.35	Turning radius *	W _a (mm)	1654	1654	1654	
4.37	Length over arms	l ₇ (mm)	1720	1720	1720	

Performance

5.1	Speed travel laden / unladen	km / h	4,3 / 4,5	4,3 / 4,5	4,3 / 4,5	
5.2	Speed lift laden / unladen	m / s	0,07 / 0,16	0,06 / 0,14	0,05 / 0,12	
5.3	Speed lower laden / unladen	m / s	0,3 / 0,2	0,3 / 0,2	0,4 / 0,2	
5.7	Climbing capacity with / without load	%	6 / 10	5 / 10	4 / 10	
5.8	Max. gradeability laden / unladen	%	-	-	-	
5.10	Service brake		electrical	electrical	electrical	

E-Motor

6.1	Traction- / Lift motor, output / 1 hour rating	kW	2,7	2,7	2,7	
6.2						
6.3	Battery according to DIN 43531 / 35 / 36, A / B / C, no		no	no	no	
6.4	Battery voltage / Capacity K _s	V / Ah	24 / 240, 270, 315, 345, 375			
6.5	Battery weight	kg	min. 310			
6.6						

Others

8.1	Motor control type		Pulse	Pulse	Pulse	

* in accordance with FEM 4.005

** from 3300 mm lift height reduction of carrying capacity to 80 %

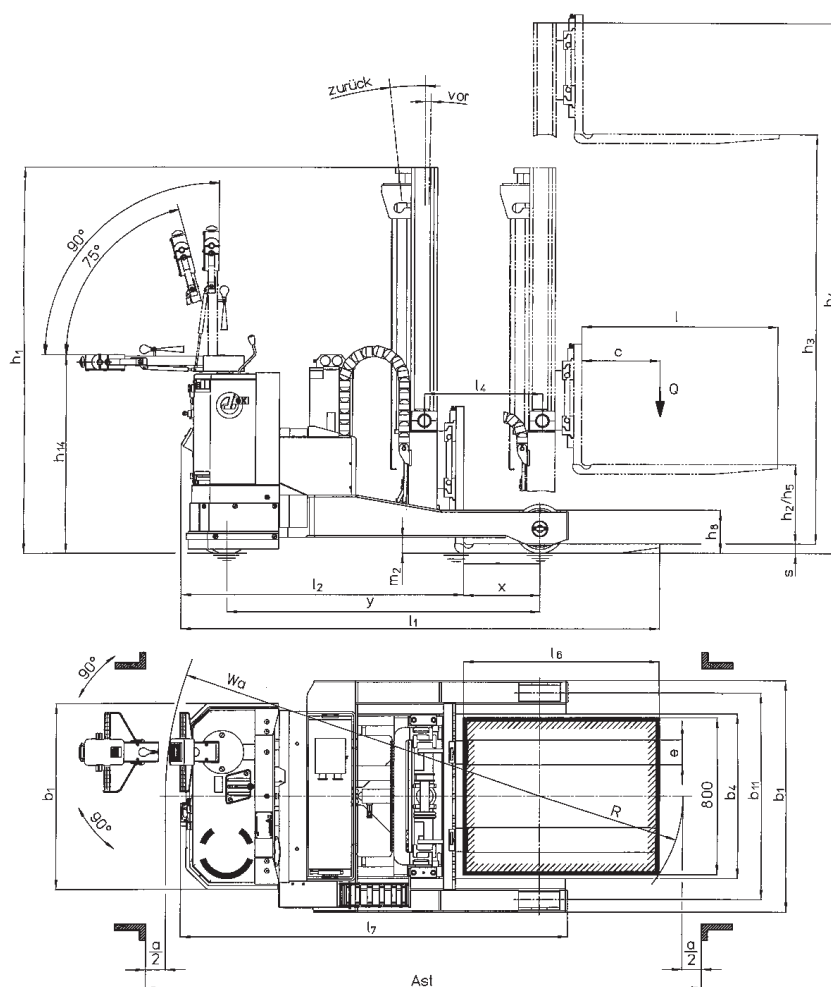
*** with mast design in series, further designs on request

**** depending on device version

Subject to changes without notice / 25.11.11

Pedestrian Reach Truck
Explosion-proof

EGM



$$A_{st} = W_a + R + a$$

$$A_{st} = \text{Aisle width between stacks}$$

$$a = \text{Safety distance} = 200 \text{ mm}$$

$$b_{12} = \text{Pallet width } 800 \text{ mm}$$

$$l_6 = \text{Pallet length (e.g. } 1000 \text{ mm)}$$

EGM 18-20XE2/ ..H2 / ..ST

Technical Data

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Technical Data

(in accord. with VDI 2198)

Pedestrian reach truck

EGM 18-20XE2 /..H2 /..ST, electronic, explosion-proof

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

1.1	Manufacturer (Make [abbreviation])		MIAG	MIAG		
1.2	Type designation of the manufacturer		EGM 18XE2 ..	EGM 20XE2 ..		
1.3	Drive Battery, Diesel, Petrol, fuel gas, mains current		Battery	Battery		
1.4	Operation Hand, Pedestrian, stand-on, driver-seated		Pedestrian	Pedestrian		
1.5	Carrying capacity / Load	Q (t)	1,8	2,0		
1.6	Load centre	c (mm)	400/500	400		
1.8	Load distance, mast lowered	x (mm)	389	389		
1.9	Wheel base	y (mm)	1589	1589		

Weights

2.1	Dead weight including battery 360 Ah	kg	2800	3050		
2.2	Axle load laden front/rear	kg	1680 / 2900	1720 / 3330		
2.3	Axle load unladen front/rear	kg	1700 / 1140	1880 / 1170		

Wheels, Chassis

3.1	Tyres Pneumatic, Solid, Vulcollan		Solid / Vul.	Solid / Vul.		
3.2	Dimension in front		Ø 260 x 85	Ø 260 x 85		
3.3	Dimension at the rear		Ø 250 x 80	Ø 250 x 80		
3.4	Additional wheels (dimensions)		Ø 160 x 50	Ø 160 x 50		
3.5	Wheels number front / rear, x=driven		2, 1x / 2	2, 1x / 2		
3.6	Truck width front	b ₁₀ (mm)	583	583		
3.7	Truck width rear	b ₁₁ (mm)	1055	1055		

Base dimensions

4.1	Mast tilt /fork carriage, ago / back	Degrees	1° / 6°	1° / 6°		
4.2	Height of mast, lowered	h ₁ (mm)	2015	2015		
4.3	Free lift	h ₂ (mm)	60	60		
4.4	Lift at double mast **	h ₃ (mm)	2500	2500		
4.5	Height of mast, raised	h ₄ (mm)	3260	3260		
4.9	Height of tiller arm (in drive position) min. / max.	h ₁₄ (mm)	1013	1013		
4.10	Height of arms	h ₈ (mm)	220	220		
4.19	Length total (without forks)	l ₁ (mm)	2433	2433		
4.20	Length including shank (retired)	l ₂ (mm)	1433	1433		
4.21	Width total	b ₁ (mm)	1182	1182		
4.22	Fork dimensions	s/e / l (mm)	48/128/1000	48/128/1000		
4.23	Fork carriage according to DIN 15173 / ISO 2328, A/ B		-	-		
4.25	Forkoutside distance max. / min.	b ₅ (mm)				
4.26	Width between Reach legs, inside	b ₄ (mm)	840	840		
4.28	Feed	l ₄ (mm)	600	600		
4.31	Ground clearance with load under lifting frame	m ₁ (mm)				
4.32	Ground clearance centre wheel base (lowest point)	m ₂ (mm)	80	80		
4.34	Aisle width for pallets 800x1200 along *	A _{st} (mm)	2827	2827		
4.35	Turning radius *	W _a (mm)	1897	1897		
4.37	Length over arms	l ₇ (mm)	1967	1967		

Performance

5.1	Speed travel laden / unladen	km / h	4,3 / 4,5	4,3 / 4,5		
5.2	Speed lift laden / unladen	m / s	0,05 / 0,12	0,04 / 0,12		
5.3	Speed lower laden / unladen	m / s	0,4 / 0,2	0,5 / 0,2		
5.7	Climbing capacity with / without load	%	3/10	3/10		
5.8	Max. gradeability laden / unladen	%	-	-		
5.10	Service brake		electrical	electrical		

E-Motor

6.1	Traction- / Lift motor, output / 1 hour rating	kW	2,7	2,7		
6.2						
6.3	Battery according to DIN 43531 / 35 / 36, A / B / C, no		no	no		
6.4	Battery voltage / Capacity K _s	V / Ah	24 / 240, 270, 315, 345, 375			
6.5	Battery weight	kg	min. 310			
6.6						

Others

8.1	Motor control type		Pulse	Pulse		

* in accordance with FEM 4.005

** from 3300 mm lift height reduction of carrying capacity to 80 %

*** with mast design in series, further designs on request

**** depending on device version