

DEUTRUCK



THE EMX RANGE

*Bestehen Sie auf Qualität!
Insist on quality!
Insistez sur la qualité!
Insista sobre la calidad!*

DEUTRUCK

Innovative. Economic. Reliable.

Specific solutions for different material handling

Order pickers of EMX range do fulfil your demand.

The modular concept enables us to suggest you a solution amongst the most economic on the market.

Developed for the use in narrow aisles of 1.000mm, having a capacity of up to 2 tons at a height of exceeding 17m.

We are able to suggest you a narrow aisles truck meeting your requirements. A comfortable cabin for a maximum of comfort to the operator.



Compare by yourself!

We are delighted to be able to meet your expectations.

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7 different capacities all in AC technology



EMX 110

Capacity : 1.100 kg
Lifting height up to 9m
Two-stage or triplex mast
48V or 80V

EMX 135

Capacity: 1.350 kg
Lifting height up to 12m
Two-stage or triplex mast
80V

EMX 150 XL

Capacity: 1.500 kg
Lifting height up to 17m
Two-stage or triplex mast
80V

EMX 200*

Capacity: 2.000 kg
Lifting height up to 15m
Two stage or triplex mast
80V

EMX 120

Capacity : 1.200 kg
Lifting height up to 10m
Two-stage or triplex mast
48V or 80V

EMX 150

Capacity: 1.500 kg
Lifting height up to 15m
Two-stage or triplex mast
48V or 80V

*** for intensive applications**

EMX 130

Capacity : 1.300 kg
Lifting height up to 10m
Two-stage or triplex mast
48V or 80V

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Ergonomics and comfort

A comfortable working place is important for an efficient work

Our trucks are equipped with comfortable seat adjustable for the comfort of the operator. The instrument panel is displaced whilst working. The page barriers are moveable horizontally for a better handling of the load by the operator



Options :

- Foldable seat ear suspended
- Lighting

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Levers for each taste



Ball handle

4 types of operation



Push button



Individual levers, individual by Joystick



Multifonction lever



Operation levers close to the seat

Options :

- Access by PIN code
- Maintenance indicator
- CAN Bus connection for additional application
- Height and position indicator
-

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Strong.Light.Economic

Optimised by computer for a best result

The conception allows to reduce dimension and weight improving torsional rigidity.

Options:

- Special lowered height
- Full free lift



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Multiple solutions for different loads

Telescopic forks allowing operation in narrow aisles.

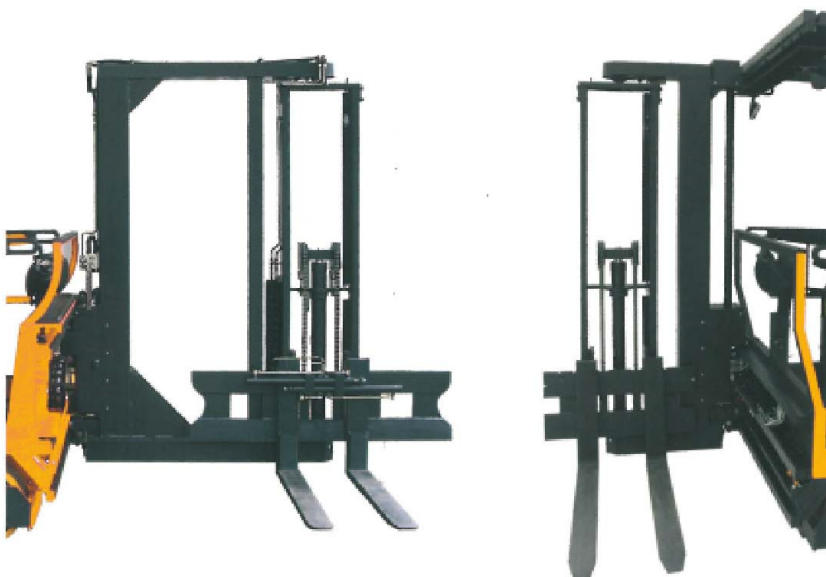
Option:

Additional lift height by two stage or full free lift mast.

Pivoting mast is an accessory for heavy duty work.

Options:

- Fork positioning and side shifting
- Fork carriage with weighing system
- Strong pushing forks for stacking double deep
- Automatic stacking



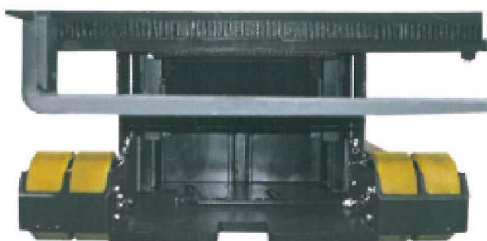
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Straight. Large. High

**The dimensions of our machines are
in accordance with your request**

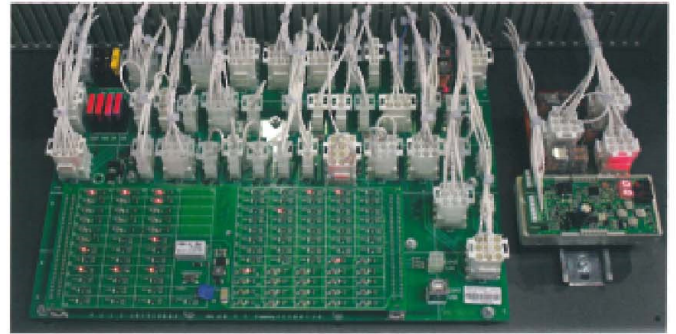
We do not have problems with length or width.
The width of the chassis may be independent of
the width of the cabin.

Twin load wheels are lowering
the pressure to the ground.



Accelerating technology: Intelligent, sturdy - protected

The whole range EMX 110 up to EMX 2000 includes AC technology. The model EMX 110 and EMX 130 are available as 48V and 80V machine. Due to the high efficiency and reduced weight the EMX range is more economic in energy and is content with smaller battery.



Extraordinary :

- Progressive AC technology
- Fast diagnostic without tools
- Electronic speed control, easy accessible
- No software restriction

Options :

- Controller GSG2 for linear speed
- Warehouse pilot (navigation)
- Automatically guided vehicle
-



Motor compartment protected by strong steel maintenance doors.

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Order Picking and Narrow Aisle Truck

		EMX 110	EMX 120	EMX 130	EMX 135
Load capacity	Q	1.100 kg	1.200 kg	1300 kg	1.350 kg
Load centre	C	600 mm	600 mm	600 mm	600 mm
Power supply		Electrical	Electrical	Electrical	Electrical
Operator type		Stand-on/Rider seated	Stand-on/Rider seated	Stand-on/Rider seated	Stand-on/Rider seated
Tyres		Polyurethan	Polyurethan	Polyurethan	Polyurethan
Number of wheels, drive/load side (x = driven)		1x/2	1x/2	1x/2	1x/2
Lowered platform height	h8	400 mm	400 mm	400 mm	400 mm
Inside height of cabin		2.130 mm	2.130 mm	2.130 mm	2.130 mm
Lift height	h3G+s	see table	see table	see table	see table
Supplementary lift	h2	1.900 mm	1.900 mm	1.900 mm	1.900 mm
Picking height	h9	h12 + 1600 mm	h12 + 1600 mm	h12 + 1600 mm	h12 + 1600 mm
Fork dimensions		40/120 mm	40/120 mm	40/120 mm	40/120 mm
Fork length		800 – 1.300 mm	800 – 1.300 mm	800 – 1.300 mm	800 – 1.300 mm
Width across forks (fork carrier width 580/850 mm)	B3	530/505 – 795 mm	530/505 – 795 mm	530/505 – 795 mm	530/505 – 795 mm
Height of fork, low position	s	80 mm	80 mm	80 mm	80 mm
Overall length with fork carrier width 850 mm	L	3.275 – 3.365 – 3.465 mm	3.335 – 3.425 – 3.525 mm	3.400 – 3.490 – 3.590 mm	3.375 – 3.465 – 3.565 mm
Overall length with fork carrier width 580 mm	L	3.140 – 3.230 – 3.330 mm	3.200 – 3.290 – 3.390 mm	3.265 – 3.355 – 3.455 mm	3.240 – 3.330 – 3.430 mm
Support boom length (standard)	M1S	460 – 550 – 650 mm	460 – 550 – 650 mm	460 – 550 – 650 mm	460 – 550 – 650 mm
Overhang	X/X1	355/255 mm	355/255 mm	355/255 mm	365/255 mm
Overall width	B	1.000 – 1.700 mm	1.200 – 1.700 mm	1.200 – 1.700 mm	1.200 – 1.700 mm
Height of mast retracted	h1	see table	see table	see table	see table
Height of cabin extended	h6	see table	see table	see table	see table
Height of mast extended	h4	see table	see table	see table	see table
Turning radius	Wa	2.080 mm	2.145 mm	2.210 mm	2.170 mm
Aisle width	Ast	1.200 -2.000 mm	1.400 – 2.000 mm	1.400 – 2.000 mm	1.400 – 2.000 mm
Travel speed laden/unladen		12,0/12,0 km/h	12,0/12,0 km/h	12,0/12,0 km/h	12,0/12,0 km/h
Lift speed laden/unladen		0,32/0,40 m/s	0,31/0,40 m/s	0,52/0,56 m/s	0,49/0,52 m/s
Lowering speed laden/unladen		0,45/0,45 m/s	0,45/0,45 m/s	0,45/0,45 m/s	0,45/0,45 m/s
Reach speed laden/unladen (adjustable)		max. 0,45/0,45 m/s	max. 0,45/0,45 m/s	max. 0,45/0,45 m/s	max. 0,45/0,45 m/s
Weight including battery		4.900 – 5.600 kg	4.950 – 5.800 kg	5.050 – 5.900 kg	5.800 – 6.900 kg
Axle load with load, drive side/load side		1.600/4.400; 1.850/4.850 kg	1.650/4.500; 1.900/5.100 kg	1.700/4.650; 2.000/5.200 kg	1.800/5.300; 2.050/6.150 kg
Axle load without load, drive side/load side		2.100/2.800; 2.400/3.200 kg	2.150/2.800; 2.450/3.350 kg	2.250/2.800; 2.550/3.350 kg	2.400/3.400; 2.700/4.200 kg
Tyres, number, drive side/load side		1/2	1/2	1/2	1/2
Tyres dimension drive side		343/140 mm	343/140 mm	343/140 mm	343/140 mm
Tyres dimension load side		343/140 mm	343/140 mm	343/140 mm	377/178 mm
Wheel base	y	1.780 mm	1.845 mm	1910 mm	1.880 mm
Ground clearance	m2	40 mm	40 mm	40 mm	40 mm
Operating brake		electro-magnetic	electro-magnetic	electro-magnetic	electro-magnetic
Parking brake		dead man's brake	dead man's brake	dead man's brake	dead man's brake
Battery		DIN 43531 B	DIN 43531 B	DIN 43536 A	DIN 43536 A
Battery voltage/capacity		48 Volt/775 Ah	48 Volt/930 Ah	80 Volt/620 Ah	80 Volt/ 465 Ah
Battery weight		1.118 kg	1.309 kg	1.558 kg	1.238 kg
Drive motor		5,0 kW	5,0 kW	7,0 kW	7,0 kW
Lift motor		12,5 kW	12,5 kW	21,0 kW	21,0 kW
Drive/lift control		AC-Control	AC-Control	AC-Control	AC-Control

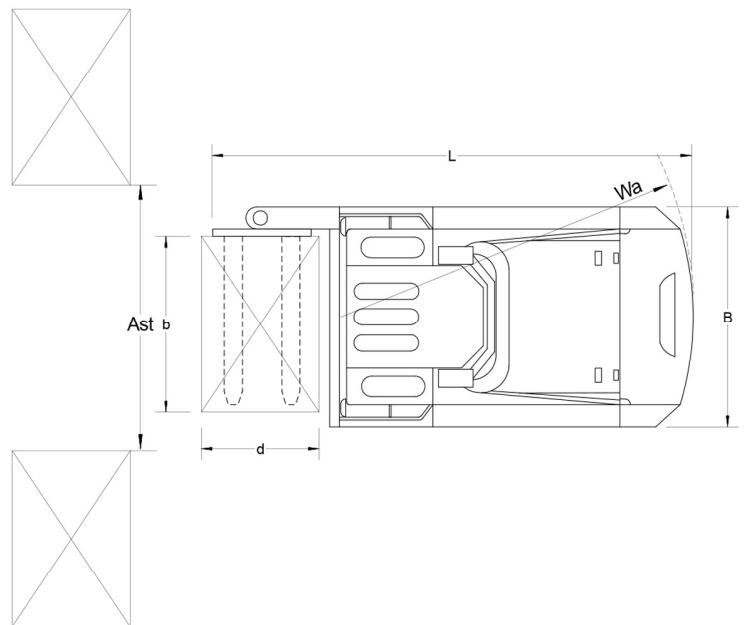
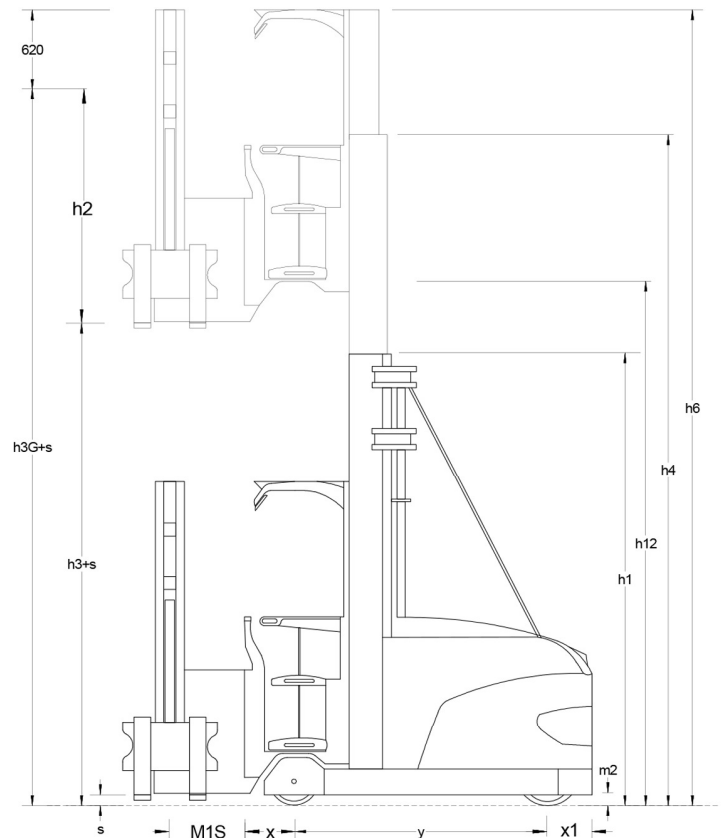
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EMX 150

EMX 150 XL

EMX 200

1.500 kg	1.500 kg	2.000 kg
600 mm	600 mm	600 mm
Electrical	Electrical	Electrical
Stand-on/Rider seated	Stand-on/Rider seated	Stand-on/Rider seated
Polyurethan	Polyurethan	Polyurethan
1×/2	1×/2	1×/2
400 mm	400 mm	400 mm
2.130 mm	2.130 mm	1.930 mm
see table	see table	see table
1.900 mm	1.900 mm	1.500 mm
h12 + 1600 mm	h12 + 1600 mm	h12 + 1600 mm
40/120 mm	40/120 mm	40/120 mm
800 – 1.300 mm	800 – 1.300 mm	800 – 1.300 mm
530/505 – 795 mm	530/505 – 795 mm	240 – 795 mm
80 mm	80 mm	80 mm
3.650 – 3.740 – 3.840 mm	3.650 – 3.740 – 3.840 mm	3.740 – 3.840 mm
3.515 – 3.605 – 3.705 mm	3.515 – 3.605 – 3.705 mm	3.605 – 3.705 mm
460 – 550 – 650 mm	460 – 550 – 650 mm	550 – 650 mm
360/270 mm	360/270 mm	360/270 mm
1.200 – 1.700 mm	1.600 – 1.900 mm	1.200 – 1.700 mm
see table	see table	see table
see table	see table	see table
see table	see table	see table
2.445 mm	2.445 mm	2.445 mm
1.400 – 2.000 mm	1.800 – 2.100 mm	1.400 – 2.000 mm
12,0/12,0 km/h	12,0/12,0 km/h	12,0/12,0 km/h
0,48/0,52 m/s	0,42/0,45 m/s	0,45/0,54 m/s
0,45/0,45 m/s	0,45/0,45 m/s	0,45/0,45 m/s
max. 0,45/0,45 m/s	max. 0,45/0,45 m/s	0,20/0,20 m/s
7.100 – 8.700 kg	8.900 – 9.400 kg	7.400 – 8.900 kg
2.300/6.300; 2.950/7.250 kg	3.000/7.400; 3.100/7.800 kg	2.100/7.300; 2.700/8.200 kg
2.900/4.200; 3.550/5150 kg	3.500/5.400; 3.700/5.700 kg	3.000/4.400; 3.400/5.400 kg
1/2	1/2	1/2
381/152 mm	381/152 mm	381/152 mm
377/178 mm	377/178 mm	377/178 mm
2.140 mm	2.140 mm	2.140 mm
40 mm	40 mm	40 mm
electro-magnetic	electro-magnetic	electro-magnetic
dead man's brake	dead man's brake	dead man's brake
DIN 43536 A	DIN 43536 A	DIN 43536 A
80 Volt/ 775 Ah	80 Volt/ 775 Ah	80 Volt/775 Ah
1.862 kg	1.862 kg	1.862 kg
7,0 kW	7,0 kW	7,0 kW
21,0 kW	28,0 kW	28,0 kW
AC-Control	AC-Control	AC-Control



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Table 1: Build and lift heights of duplex lift mast with swivel fork, Supplementary lift 1.900 mm or 2.300 mm

Total lift height with 1.900 mm suppl. lift	Total lift height with 2.300 mm suppl. lift	Cabin lift height	Raised platform height	Extended height cabin**	Closed height EMX 110 to 130 two-stage-mast*	Closed height EMX 135/150 two-stage-mast*	Closed height EMX 150 XL two-stage-mast	Closed height EMX 200 two-stage-mast***
h3G + s mm	h3G + s mm	h3 + s mm	h12 mm	h6 mm	h1 mm	h1 mm	h1 mm	h1 mm
4.400	4.800	2.500	2.820	5.020	2.600	-	-	-
4.900	5.300	3.000	3.320	5.520	2.745	-	-	-
5.400	5.800	3.500	3.820	6.020	2.995	2.920	-	3.170
5.900	6.300	4.000	4.320	6.520	3.245	3.170	-	3.420
6.400	6.800	4.500	4.820	7.020	3.495	3.420	-	3.670
6.900	7.300	5.000	5.320	7.520	3.745	3.670	-	3.920
7.400	7.800	5.500	5.820	8.020	3.995	3.920	-	4.170
7.900	8.300	6.000	6.320	8.520	4.245	4.170	-	4.420
8.400	8.800	6.500	6.820	9.020	4.495	4.420	-	4.670
8.900	9.300	7.000	7.320	9.520	4.745	4.670	-	4.920
9.400	9.800	7.500	7.820	10.020	4.995	4.920	-	5.170
9.900	10.300	8.000	8.320	10.520	5.245	5.170	-	5.420
10.400	10.800	8.500	8.820	11.020	-	5.420	-	5.670
10.900	11.300	9.000	9.320	11.520	-	5.670	-	5.920
11.400	11.800	9.500	9.820	12.020	-	5.920	-	6.170
11.900	12.300	10.000	10.320	12.520	-	6.170	-	6.420
12.400	12.800	10.500	10.820	13.020	-	6.420	-	6.670
12.900	13.300	11.000	11.320	13.520	-	6.670	-	6.920
13.400	13.800	11.500	11.820	14.020	-	6.920	-	7.170
13.900	14.300	12.000	12.320	14.520	-	7.170	7.420	-
14.400	14.800	12.500	12.820	15.020	-	-	7.670	-
14.900	15.300	13.000	13.320	15.520	-	-	7.920	-
15.400	15.800	13.500	13.820	16.020	-	-	8.170	-
15.900	16.300	14.000	14.320	16.520	-	-	8.420	-

*EMX 110 maximum closed height 4.745 mm; *EMX 135 maximum closed height 6.170 mm; other closed/lift heights on request.

**Extended height with 2.300 mm suppl. lift + 600 mm; **EMX 200 reduced total lift heights, supplementary lift = 1.500 mm; other heights on request.

Table 2: Build and lift heights of triplex lift mast with swivel fork, Supplementary lift 1.900 mm or 2.300 mm

Total lift height with 1900 mm suppl. lift	Total lift height with 2300 mm suppl. lift	Cabin lift height	Raised platform height	Extended height cabin**	Closed height EMX 110 to 130 three-stage-mast*	Closed height EMX 135/150 three-stage-mast	Closed height EMX 150 XL three-stage-mast
h3G + s mm	h3G + s mm	h3 + s mm	h6 mm	h6 mm	h1 mm	h1 mm	h1 mm
5.650	6.050	3.750	4.070	6.270	2.600	-	-
6.400	6.800	4.500	4.820	7.020	2.745	-	-
7.150	7.550	5.250	5.570	7.770	2.995	2.920	-
7.900	8.300	6.000	6.320	8.520	3.245	3.170	-
8.650	9.050	6.750	7.070	9.270	3.495	3.420	-
9.400	9.800	7.500	7.820	10.020	3.745	3.670	-
10.150	10.550	8.250	8.570	10.770	3.995	3.920	-
10.900	11.300	9.000	9.320	11.520	-	4.170	-
11.650	12.050	9.750	10.070	12.270	-	4.420	-
12.400	12.800	10.500	10.820	13.020	-	4.670	4.920
13.150	13.550	11.250	11.570	13.770	-	4.920	5.170
13.900	14.300	12.000	12.320	14.520	-	5.170	5.420
14.650	15.050	12.750	13.070	15.270	-	5.420	5.670
15.400	15.800	13.500	13.820	16.020	-	-	5.920
16.150	16.550	14.250	14.570	16.770	-	-	6.170

*EMX 110 maximum closed height 3.495 mm; **extended height with 2.300 mm suppl. lift + 400 mm; other closed/lift heights on request.

The overall length with triplex mast: EMX 110/120/130 is 35 mm longer; EMX 135/150 is 125 mm longer; EMX 135 closed height > 4.170 mm same length as EMX 150

Table 3: Aisle width depending on load/pallet dimensions

Load dimension		Distance between loads**	Boom length	EMX 110 Transfer aisle width*	EMX 120/130 Transfer aisle width*	EMX 135 Transfer aisle width*	EMX 150/200 Transfer aisle width*
depth	width						
b	d	Asf	M1S				
mm	mm	mm	mm	mm	mm	mm	mm
1.240	835	1.700	460	3.480	3.530	3.595	3.820
1.200	800	1.650	460	3.460	3.510	3.575	3.800
1.200	1.000	1.650	550	3.540	3.600	3.655	3.890
1.200	1.200	1.650	650	3.630	3.690	3.745	3.980
1.000	800	1.450	460	3.380	3.440	3.495	3.730
1.000	1.000	1.450	550	3.460	3.520	3.585	3.820
1.000	1.200	1.450	650	3.560	3.610	3.675	3.910
800	800	1.400	460	3.360	3.420	3.485	3.710
800	1.000	1.400	550	3.450	3.500	3.565	3.800
800	1.200	1.400	650	3.540	3.600	3.655	3.900
835	1.240	1.400	650	3.540	3.600	3.655	3.900

*Transfer aisle width without load and 580 mm fork carriage width, with mechanical guidance + 300 mm; with wire guidance + 800 mm recommended.

Aisle width for mechanical guidance and duplex mast; Reduced truck lengths on request. ** EMX 200 + 50mm

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