XE 12 - 20
Technical data

designed to work

OM PIMESPO

LIFT MAST SPECIFICATIONS

				Standard (Simplex)					Duplex				Triplex					
XE 12³-XE 15³ **XE 15³H-XE 15** **XE 15H** Rollers Fork Carriage (*)	Lift Height	h_3	mm	3330	3630	4030	4530	5030	2975	3275	3575	3975	4470	4770	5220	5770	6370	6970
	Minimum Overall Height	h_1	mm	2210	2360	2560	2810	3060	1960	2110	2260	2460	2010	2110	2260	2510	2710	2910
	Maximum Overall Height	h_4	mm	3905	4205	4605	5105	5605	3550	3850	4150	4550	5045	5345	5795	6345	6945	7545
	Free Lift	h_2	mm	150	150	150	150	150	1405	1555	1705	1905	1455	1555	1705	1955	2155	2355
XE 18³-XE 18 6 Rollers Fork Carriage	Lift Height	h_3	mm	3330	3630	4030	4530	5030	2975	3275	3575	3975	4470	4770	5220	5770	6370	6970
	Minimum Overall Height	h_1	mm	2210	2360	2560	2810	3060	2010	2160	2310	2510	2060	2160	2310	2560	2760	2960
	Maximum Overall Height	h_4	mm	3973	4273	4673	5173	5673	3643	3943	4243	4643	5138	5438	5888	6438	7038	7638
	Free Lift	h_2	mm	150	150	150	150	150	1362	1512	1662	1862	1412	1512	1662	1912	2112	2312
XE 20³-XE 20 6 Rollers Fork Carriage	Lift Height	h_3	mm	3350	3650	4050	4550	5050	2970	3270	3570	3970	4465	4765	5215	5665	6265	6865
	Minimum Overall Height	h_1	mm	2260	2410	2610	2860	3110	2010	2160	2310	2510	2060	2160	2310	2460	2660	2860
	Maximum Overall Height	h_4	mm	4046	4346	4746	5246	5746	3646	3946	4246	4646	5156	5456	5906	6356	6956	7556
	Free Lift	h_2	mm	150	150	150	150	150	1445	1595	1745	1945	1495	1595	1745	1895	2095	2295

(*) with optional fork carriage (6 rollers)

h4 = h4 + 68 mm (SX)

h4 = h4 + 43 mm (DX-TX)
h2 = h2 - 43 mm (DX-TX)

WHEELS

Type	Superelastic		Pneumatic		Vulkolan / Superelastic	
	Front	Rear	Front	Rear	Front (Vulkolan)	Rear (SE)
XE 15 **XE 15 H**	18x7-8 (SX-DX-TX)	15x4.5-8	18x7-8/16 (SX-DX)	15x4.5-8/12	18x5x121/8'(SX-DX-TX)	15x4.5-8
						(S.E white)
XE 18	18x7-8 (SX-DX)	15x4.5-8	18x7-8/16 (SX-DX)	15x4.5-8/12	18x5x121/8'(SX-DX-TX)	15x4.5-8
	200/50-10 (TX)	15x4.5-8				(S.E white)
XE 20	200/50-10	140/55-9			18x5x12 1/8" (SX-DX-TX)	140/55-9
						(S.E white)

RUOTE

Tipo	Superelastic		Pneumatic		Vulkolan / Superelastic	
	Front	Rear	Front	Rear	Front (Vulkolan)	Rear (SE)
XE 12³ **XE 15³**	18x7-8 (SX-DX-TX)	15x4.5-8	18x7-8/16 (SX-DX)	15x4.5-8/12	18x5x12 1/8' (SX-DX-TX)	15x4.5-8
						(S.E white)
XE 18³	18x7-8 (SX-DX)	15x4.5-8	18x7-8/16 (SX-DX)	15x4.5-8/12	18x5x12 1/8'	15x4.5-8
	200/50-10 (TX)	15x4.5-8				(S.E white)
XE 20³	200/50-10	140/55-9			18x5x12 1/8" (SX-DX-TX)	140/55-9
						(S.E white)

XE 12 - 20 Technical Data

VDI 2198

Specification	1.1	**Manufacturer**		OM PIMESPO	OM PIMESPO	OM PIMESPO
	1.2	**Model designation**		XE 12[3]	XE 15[3]	XE 15
	1.3	**Type of drive: Electric - Diesel - Petrol - GPL - Network Power (Electric)**		Electric	Electric	Electric
	1.4	**Operation Type: Hand - Stand on - Driver seated**		Driver Seated	Driver Seated	Driver Seated
	1.5	**Load Capacity**	Q (t)	1.2	1.5	1.5
	1.6	**Load Baricenter Distance**	c (mm)	500	500	500
	1.8	**Distance from axle centre to fork face**	x (mm)	365 [3) 4)]	365 [3) 4)]	365 [3) 4)]
	1.9	**Wheel Base**	y (mm)	1152	1260	1280
Weight	2.1	**Service Weight**	kg	2620	2875	2852
	2.2	**Axle Weight with rated load** front / rear	kg	3323 / 497	3842 / 533	3809 / 543
	2.3	**Axle Weight without load** front / rear	kg	1222 / 1398	1313 / 1562	1295 /1557
Wheels and tyres	3.1	**Tyres SE = superelastic - PN = pneus**		SE / SE [1)]	SE / SE [1)]	SE / SE [1)]
	3.2	**Front tyres size**		18x7-8 [1)]	18x7-8 [1)]	18x7-8 [1)]
	3.3	**Rear tyres size**		15x4.5-8 [1)]	15x4.5-8 [1)]	15x4.5-8 [1)]
	3.5	**Tyres number front / rear (x = drive)**		2x / 2	2x / 2	2x / 2
	3.6	**Front track width**	b10 (mm)	932 [8)]	932 [8)]	932 [8)]
	3.7	**Rear track width**	b11 (mm)	168	168	874
Dimensions and overall Sizes	4.1	**Lifting assembly tilting** forward/backward	Grad	3° / 9° [2)]	3° / 9° [2)]	3° / 9° [2)]
	4.2	**Mast minimum overall height**	h1 (mm)	2210 [5)]	2210 [5)]	2210 [5)]
	4.3	**Free height**	h2 (mm)	150	150	150
	4.4	**Lift height**	h3 (mm)	3330	3330	3330
	4.5	**Mast maximum overall height**	h4 (mm)	3905 [14)]	3905 [14)]	3905 [13)]
	4.7	**Overheadguard height**	h6 (mm)	2024	2024	2024
	4.8	**Seat Height**	h7 (mm)	939	939	939
	4.12	**Drawbar height**	h10 (mm)	523	523	523
	4.19	**Overall Length**	l1 (mm)	2726 [3) 4)]	2834 [3) 4)]	2910 [3) 4)]
	4.20	**Overall Length including fork arms spessore forche**	l2 (mm)	1726 [3) 4)]	1834 [3) 4)]	1910 [3) 4)]
	4.21	**Overall width**	b1/b2 (mm)	1067 [9)]	1067 [9)]	1067 [9)]
	4.22	**Fork arms dimension**	s/e/l (mm)	40/80/1000	40/80/1000	40/80/1000
	4.23	**Fork carriage in compliance with DIN 15173 Classe / Form A, B**		2A	2A	2A
	4.24	**Fork carriage width**	b3 (mm)	1040 [10)]	1040 [10)]	1040 [10)]
	4.31	**Mast ground clearance (with load)**	m1 (mm)	95 [6)]	95 [6)]	95 [6)]
	4.32	**Chassis ground clearance (with load) [middle of the chassis]**	m2 (mm)	104	104	104
	4.33	**Aisle width with pallet 1000x1200 and fork arm pitch 1200**	Ast (mm)	3052 [3) 4)]	3160 [3) 4)]	3325 [3) 4)]
	4.34	**Aisle width with pallet 800x1200 and fork arm pitch 800**	Ast (mm)	3176 [3) 4)]	3284 [3) 4)]	3525 [3) 4)]
	4.35	**Turning radius**	Wa (mm)	1361	1469	1760
	4.36	**Turning point minimum distance from the truck center line**	b13 (mm)	-	-	596
Performance	5.1	**Drive speed** with / without load	km/h	14 / 14	14 / 14	14 / 14
	5.2	**Lifting speed** with / without load	m/s	0.41 / 0.58	0.38 / 0.58	0.38 / 0.58
	5.3	**Lowering speed** with / without load	m/s	0.55 / 0.50	0.55 / 0.50	0.55 / 0.50
	5.5	**Drawbar pull tractive effort (S2 60 min)** with / without load	N	2390 / 2320	2320 / 2270	2330 / 2280
	5.6	**Drawbar pull tractive effort (S2 5 min)** with / without load	N	6060 / 5860	6020 / 5810	6030 / 5810
	5.7	**Gradeability (S2 30 min)** with / without load	%	7.2 / 10.1	6.1 / 9.0	6.2 / 9.1
	5.8	**Maximum gradeability (S2 5 min)** with / without load	%	16 / 22.5	13.8 / 20.3	13.9 / 20.
	5.9	**Acceleration time (10 m)** with / without load	s	4.5 / 4.2	4.6 / 4.2	4.6 / 4.2
	5.10	**Service brake**		Electric/Mechanic	Electric/Mechanic	Electric/Mechanic
Engine	6.1	**Drive motor, power S2 60 min**	kW	4 x 2	4 x 2	4 x 2
	6.2	**Lifting motor, power S3 15%**	kW	9	9	9
	6.3	**Battery in compliance with DIN 43531/35/36 A, B, C, NO**		43531A	43531A	43531A
	6.4	**Voltage, Battery Capacity K5**	V / Ah	48 / 360 [11)]	48 / 48012	48 / 480 [11)]
	6.5	**Battery weight**	kg	590 [11)]	780 [12)]	780 [11)]
	6.6	**Power consumption according to VDI cycle**	kWh/h	-	-	-
Others	8.1	**Drive control type**		Chopper	Chopper	Chopper
	8.2	**Service pressure for attachments**	bar	154 [7)]	180 [7)]	180 [7)]
	8.3	**Oil flow rate for attachment (max available)**	l/min	25	25	25
	8.4	**Noise at operator's ear**	dB (A)	69	69	69,8
	8.5	**Drawbar, Modell / Type DIN**		-	-	-

XE 12[3] XE 15[3] XE 15[3]H XE 18[3] XE 20[3]

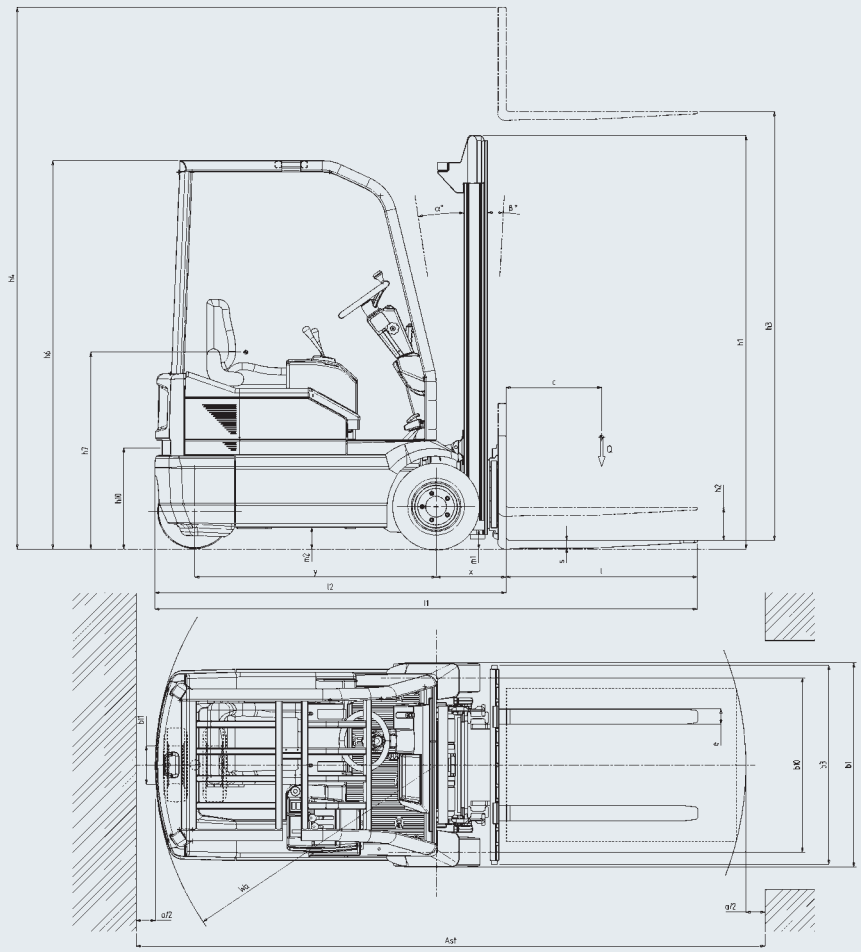
1) For alternative tyres see table
2) Standard mast with $h_3 \geq 4530$ mm 3° / 5°
All Duplex e Triplex 3° / 5°
3) With side shift + 17 mm
4) With Triplex masts + 20 mm (+22mm per XE 20)
5) With free lift 150 mm
6) For all configuration
7) XE 12[3]: 183 bar (DX) - 174 bar (TX); XE 15[3]: 210 bar (DX) - 200 bar (TX);
XE 18[3]: 235 bar (DX) - 230 bar (TX); XE 20: 220 bar (DX) - 225 bar (TX)
8) 945 mm with wheels 200/50-10 and 875mm with wheels 18x5x12 1/8" (vulkolan)
9) 1150.5 mm with wheels 200/50-10 and 1002mm with wheels 18x5x12 1/8" (vulkolan)
10) with integrated sideshift = 980 mm
11) battery optional (capacity/weight): 300Ah / 549±5%Kg; 345Ah / 580±5%Kg; 375Ah / 590±5%Kg.
12) battery optional (capacity/weight): 400Ah / 709±5%Kg; 460Ah / 765±5%Kg; 500Ah / 780±5%Kg.
13) battery optional (capacity/weight): 575Ah / 915±5%Kg; 625Ah / 930±5%Kg.
14) 4 rollers fork plate: 3905mm - 6 rollers fork plate: 3973mm
15) 6 rollers fork plate:

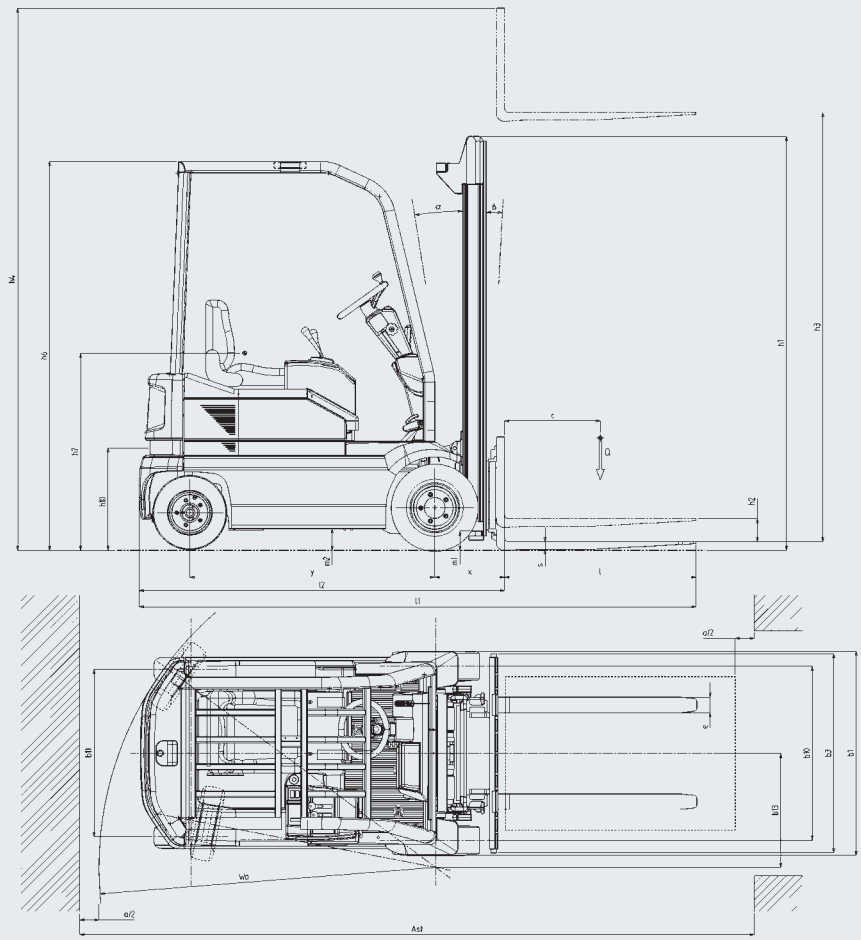
OM PIMESPO	OM PIMESPO	OM PIMESPO	OM PIMESPO	OM PIMESPO	OM PIMESPO
XE 15[3] H	XE 15 H	XE 18[3]	XE 18	XE 20[3]	XE 20
Electric	Electric	Electric	Electric	Electric	Electric
Driver Seated	Driver Seated	Driver Seated	Driver Seated	Driver Seated	Driver Seated
1.5	1.5	1.8	1.8	2.0	2.0
500	500	500	500	500	500
365 [3) 4)]	365 [3) 4)]	370 [3) 4)]	370 [3) 4)]	380 [3) 4)]	380 [3) 4)]
1260	1280	1368	1388	1513	1498
3047	3065	3067	3045	3240	3250
3935 / 612	3903 / 662	4369 / 498	4337 / 508	4746 / 494	4727 / 523
1406 / 1641	1389 / 1676	1431 / 1636	1416 / 1629	1582 / 1658	1552 / 1698
SE / SE [1)]	SE / SE [1)]	SE / SE [1)]	SE / SE [1)]	SE / SE [1)]	SE / SE [1)]
18x7-8 [1)]	18x7-8 [1)]	18x7-8 [1)]	18x7-8 [1)]	200/50-10	200/50-10
15x4.5-8 [1)]	15x4.5-8 [1)]	15x4.5-8 [1)]	15x4.5-8 [1)]	140/55-9	140/55-9
2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2
932 [8)]	932 [8)]	932 [8)]	932 [8)]	945	945
168	874	168	874	176	873
3° / 9° [2)]	3° / 9° [2)]	3° / 9° [2)]	3° / 9° [2)]	3° / 9° [2)]	3° / 9° [2)]
2210 [5)]	2210 [5)]	2210 [5)]	2210 [5)]	2260 [5)]	2260 [5)]
150	150	150	150	150	150
3330	3330	3330	3330	3350	3350
3905 [14)]	3905 [13)]	3973	3973	4046 [15)]	4046 [14)]
2139	2139	2024	2024	2024	2024
1054	1054	939	939	939	939
523	523	523	523	523	523
2834 [3) 4)]	2910 [3) 4)]	2947 [3) 4)]	3018 [3) 4)]	3102 [3) 4)]	3143 [3) 4)]
1834 [3) 4)]	1910 [3) 4)]	1947 [3) 4)]	2018 [3) 4)]	2102 [3) 4)]	2143 [3) 4)]
1067 [9)]	1067 [9)]	1067 [9)]	1067 [9)]	1150	1150
40/80/1000	40/80/1000	45/100/1000	45/100/1000	45/100/1000	45/100/1000
2A	2A	2A	2A	2A	2A
1040 [10)]	1040 [10)]	1040 [10)]	1040 [10)]	1040 [10)]	1040 [10)]
95 [6)]	95 [6)]	95 [6)]	95 [6)]	95 [6)]	95 [6)]
104	104	104	104	104	104
3160 [3) 4)]	3325 [3) 4)]	3268 [3) 4)]	3443 [3) 4)]	3427 [3) 4)]	3578 [3) 4)]
3284 [3) 4)]	3525 [3) 4)]	3392 [3) 4)]	3643 [3) 4)]	3552 [3) 4)]	3778 [3) 4)]
1469	1760	1577	1878	1722	1998
-	596	-	646	-	696
14 / 14	14 / 14	14 / 14	14 / 14	14 / 14	14 / 14
0.38 / 0.58	0.38 / 0.58	0.35 / 0.58	0.35 / 0.58	0,34 / 0,48	0,34 / 0,48
0.55 / 0.50	0.55 / 0.50	0.55 / 0.50	0.55 / 0.50	0,45/ 0,39	0,45/ 0,39
2300 / 2240	2300 / 2240	2280 / 2240	2290 / 2240	2240 / 2215	2240 / 2215
6000 / 5790	600 / 5780	6020 / 5780	6020 / 5790	5990 / 5776	5990 / 5776
5.9 / 8.4	5.8 / 8.4	5.4 / 8.3	5.5 / 8.4	5,0 / 7,8	5,0 / 7,8
13.3 / 19.1	13.2 / 19.0	12.4 / 18.9	12.5 / 19.0	11,5 / 17,8	11,5 / 17,8
4.6 / 4.2	4.6 / 4.2	4.6 / 4.2	4.6 / 4.2	4.8 / 4.4	4.8 / 4.4
Electric/Mechanic	Electric/Mechanic	Electric/Mechanic	Electric/Mechanic	Electric/Mechanic	Electric/Mechanic
4 x 2	4 x 2	4 x 2	4 x 2	4 x 2	4 x 2
9	9	9	9	9	9
43531A	43531A	43531A	43531A	43531A	43531A
48 / 640	48 / 640	48 / 600[13)]	48 / 600[12)]	48 / 750	48 / 750
970	970	930[13)]	930[12)]	1055	1055
-	-	-	-		4,7
Chopper	Chopper	Chopper	Chopper	Chopper	Chopper
180 [7)]	180 [7)]	213 [7)]	213 [7)]	207 [7)]	207 [7)]
25	25	25	25	25	25
69	69,8	69	69,8	69	69
-	-	-	-	-	-

XE 15 XE 15H XE 18 XE 20

1) For alternative tyres see table
2) Standard mast with $h_3 \geq 4530$ mm 3° / 5°
All Duplex e Triplex 3° / 5°
3) With side shift + 17 mm
4) With Triplex masts + 20 mm (+22mm per XE 20)
5) With free lift 150 mm
6) For all configuration
7) XE 15: 210 bar (DX) - 200 bar (TX) ; XE 18: 235 bar (DX) - 230 bar (TX);
XE 20: 220 bar (DX) - 225 bar (TX)
8) 945 mm with wheels 200/50-10 and 875mm with wheels 18x5x12 1/8" (vulkolan)
9) 1150.5 mm with wheels 200/50-10 and 1002mm with wheels 18x5x12 1/8" (vulkolan)
10) with integrated sideshift = 980 mm
11) battery optional (capacity/weight): 400Ah / 709±5%Kg; 460Ah / 765±5%Kg; 500Ah / 780±5%Kg.
12) battery optional (capacity/weight): 575Ah / 915±5%Kg; 625Ah / 930±5%Kg
13) 4 rollers fork plate: 3905mm - 6 rollers fork plate: 3973mm
14) 6 rollers fork plate

Sefty Distance = 200mm





OM PIMESPO

XE 12 - 20
Counterbalanced fork lift truck

A new **chassis** developed using the latest F.E.M. (Finite Elements Method) calculation methods provides greater rigidity and stability, resulting in a compact truck which improves on the performance of previous trucks but still maintains the residual load capacities.

Traction is obtained with two 48V-4 kW separately excited motors (SEM) that provide excellent torque driving on the front axle. The regenerative braking system is activated when the accelerator pedal is released, and together with the front axle brakes, provides a greater level of performance and driving comfort.

A completely updated electronic system using **MOSFET and CANBUS technology transmits** data more quickly and responds more precisely to the controls, rendering the truck more responsive during all functions. In addition, the "check control" system will immediately diagnose any malfunction.
Our customer service department can program all the customizable parameters of the machine in accordance with the customer's requirements.

The new three- and four-wheel **steering axles** have improved the stability and precision of the truck. A potentiometer located on the steering axle recognizes the turning radius, and, if this curve is tight, the electronic system automatically prevents an increase of traction speed providing a greater measure of safety for the operator.

The operator cab has been designed to enable all operator movements, as have the MSG12 seat, power-assisted steering, and hydraulic levers to the side of the operator. The optional Joystick single lever control enables the operator to control the traction and lift functions easily, resulting in a greater level of comfort. All these features lead to an improved cost/benefits ratio and greater productivity.

A powerful 48V, 9 kW **lift motor** provides high rates of lift speed. The electronic system optimizes energy consumption, thus improving productivity.

The 48V DIN **batteries** have capacities from 300 to 750 Ah. The XE153H and XE15H truck types are not only compact, but also have a high level of autonomy.

The new, optimized profiles of the **masts** and new fork carriage assembly provide improved visibility and torsional rigidity, together with a high residual load capacity and lower maintenance costs. Simplex, Duplex, Triplex with heights up to 6900 mm are available.

Options: manual reversing control, integral side shift, joystick single lever control, MSG20 seat, fabric, heated and anti static seats, work lights, rotating beacon, headlights, non-marking tyres, solid tyres. Various operator cab safety devicesand many other options are available for a wide range of customizations.

OM PIMESPO's philosophy for all its products is to place safety first when a truck is in operation.

A Linde Group Company

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