

# CROSS-P Series electronic 4-way forklift truck with reach mast and sit-on operator

## Technical data in line with VDI 2198

as at: 04/2012

			Icem	Icem	
			<b>CROSS-P 16/312</b>	<b>CROSS-P 20/312</b>	
Identification	1.1	Manufacturer (abbreviation)	Icem	Icem	
	1.2	Manufacturer's type designation	<b>CROSS-P 16/312</b>	<b>CROSS-P 20/312</b>	
	1.3	Drive	electric	electric	
	1.4	Type of operation	seat	seat	
	1.5	Load capacity/rated load Q (t)	1.6	2.0	
	1.6	Load centre distance with l = 800/1000/1200 c (mm)	400/500/600	400/500/600	
	1.8	Load distance, centre of drive axle to fork with l = 800/1000/1200 x (mm)	665/865/1065	665/865/1065	
		Mast pushed forward x <sub>1</sub> (mm)	205	205	
	1.9	Wheelbase with l = 800/1000/1200 y (mm)	1250/1450/1650	1250/1450/1650	
Weights	2.1	Service weight incl. battery (see line 6.5)	2990 <sup>(1)(2)</sup>	3000 <sup>(1)(2)</sup>	
			3180 <sup>(1)(2)</sup>	3000 <sup>(1)(2)</sup>	
			3370 <sup>(1)(2)</sup>	3000 <sup>(1)(2)</sup>	
	2.4	Axle loading, laden front/rear mast advanced	900/3690 <sup>(1)(2)</sup>	710/4280 <sup>(1)(2)</sup>	830/4170 <sup>(1)(2)</sup>
			960/3820 <sup>(1)(2)</sup>	770/4410 <sup>(1)(2)</sup>	680/4320 <sup>(1)(2)</sup>
			1020/3950 <sup>(1)(2)</sup>	830/4540 <sup>(1)(2)</sup>	580/4420 <sup>(1)(2)</sup>
	2.5	Axle loading, laden front/rear mast retracted	2700/1890 <sup>(1)(2)</sup>	2790/2200 <sup>(1)(2)</sup>	2940/2060 <sup>(1)(2)</sup>
			2860/1920 <sup>(1)(2)</sup>	2960/2220 <sup>(1)(2)</sup>	2950/2050 <sup>(1)(2)</sup>
			3010/1960 <sup>(1)(2)</sup>	3120/2550 <sup>(1)(2)</sup>	2970/2030 <sup>(1)(2)</sup>
Wheels, Chass.	3.1	Tyres	SE/PU	SE/PU	
	3.2	Tyre size, front mm	Ø 450	Ø 450	
	3.3	Tyre size, rear mm	Ø 200	Ø 200	
	3.5	Wheels, number front/rear (x = driven wheels)	1x/2	1x/2	
	3.7	Track width, rear b <sub>11</sub> (mm)	1790	1790	
Basic dimensions	4.1	Tilt of fork carriage forward/backward Ba/Bi (°)	1.5/4.5	1.5/4.5	
	4.2	Closed mast height h <sub>1</sub> (mm)	2115 <sup>(1)</sup>	2115 <sup>(1)</sup>	
	4.3	Free lift h <sub>2</sub> (mm)	70 <sup>(1)</sup>	70 <sup>(1)</sup>	
	4.4	Lift height h <sub>3</sub> (mm)	3075 <sup>(1)</sup>	3075 <sup>(1)</sup>	
	4.5	Height, mast extended h <sub>4</sub> (mm)	3645 <sup>(1)(2)</sup>	3645 <sup>(1)(2)</sup>	
	4.7	Height of overhead guard (cabin) h <sub>6</sub> (mm)	2060	2060	
	4.8	Seat height h <sub>7</sub> (mm)	1020	1020	
	4.10	Height of wheel arms h <sub>8</sub> (mm)	300	300	
	4.15	Lowered height h <sub>13</sub> (mm)	45	45	
	4.19	Overall length with l = 800/1000/1200 l <sub>1</sub> (mm)	1605/1805/2005	1605/1805/2005	
	4.20	Length to face of forks l <sub>2</sub> (mm)	805	805	
	4.21	Overall width b <sub>2</sub> /b <sub>1</sub> (mm)	2200/2620	2200/2620	
	4.22	Fork dimensions s/e/l (mm)	35x130x800/1000/1200	40x130x800/1000/1200	
	4.23	Fork carriage ISO 2328, class/type A, B	2/A <sup>(2)</sup>	2/A <sup>(2)</sup>	
	4.24	Fork-carriage width b <sub>3</sub> (mm)	1200 <sup>(2)</sup>	1200 <sup>(2)</sup>	
	4.25	Width over forks min/max b <sub>5</sub> (mm)	260/1200 <sup>(2)</sup>	260/1200 <sup>(2)</sup>	
	4.26	Distance between wheel arms b <sub>4</sub> (mm)	1275	1275	
4.28	Reach distance with l = 800/1000/1200 l <sub>4</sub> (mm)	870/1070/1270	870/1070/1270		
4.32	Ground clearance, centre of wheelbase m <sub>2</sub> (mm)	70	70		
4.35	Aisle width for l = 800/1000/1200 Ast (mm)	1905/2105/2305	1905/2105/2305		
4.35	Turning radius with l = 800/1000/1200 Wa (mm)	2410/2530/2660	2410/2530/2660		
4.37	Length across wheel arms with l = 800/1000/1200 l <sub>7</sub> (mm)	1605/1805/2005	1605/1805/2005		
Perform. data	5.1	Travel speed, laden/unladen km/h	6.2/6.3	6.2/6.3	
	5.2	Lift speed, laden/unladen m/s	0.11/0.16	0.10/0.16	
	5.3	Lowering speed, laden/unladen m/s	0.30/0.20	0.30/0.20	
	5.4	Reaching speed, laden/unladen m/s	0.1	0.1	
	5.8	Max. gradient performance, laden/unladen %	-	-	
	5.10	Service brake	electronic	electronic	
Electric eng.	6.1	Drive motor rating S <sub>2</sub> 60min kW	3.5	3.5	
	6.2	Lift motor rating at S <sub>3</sub> 10% kW	4	4	
	6.4	Battery voltage, nominal capacity K <sub>5</sub> V/Ah	24/625	24/625	
	6.5	Battery weight kg	450	450	
8.1	Type of drive control	AC	AC		
8.4	Sound level at driver's ear according to EN 12 053 dB (A)	70	70		

(1) Data referring to standard configuration with h = 3120 mm duplex mast. Other configurations available in "Mast table".

(2) Data referring to standard configuration with 1200 mm-wide fork carrier plate. Other configurations available in "Mast table".

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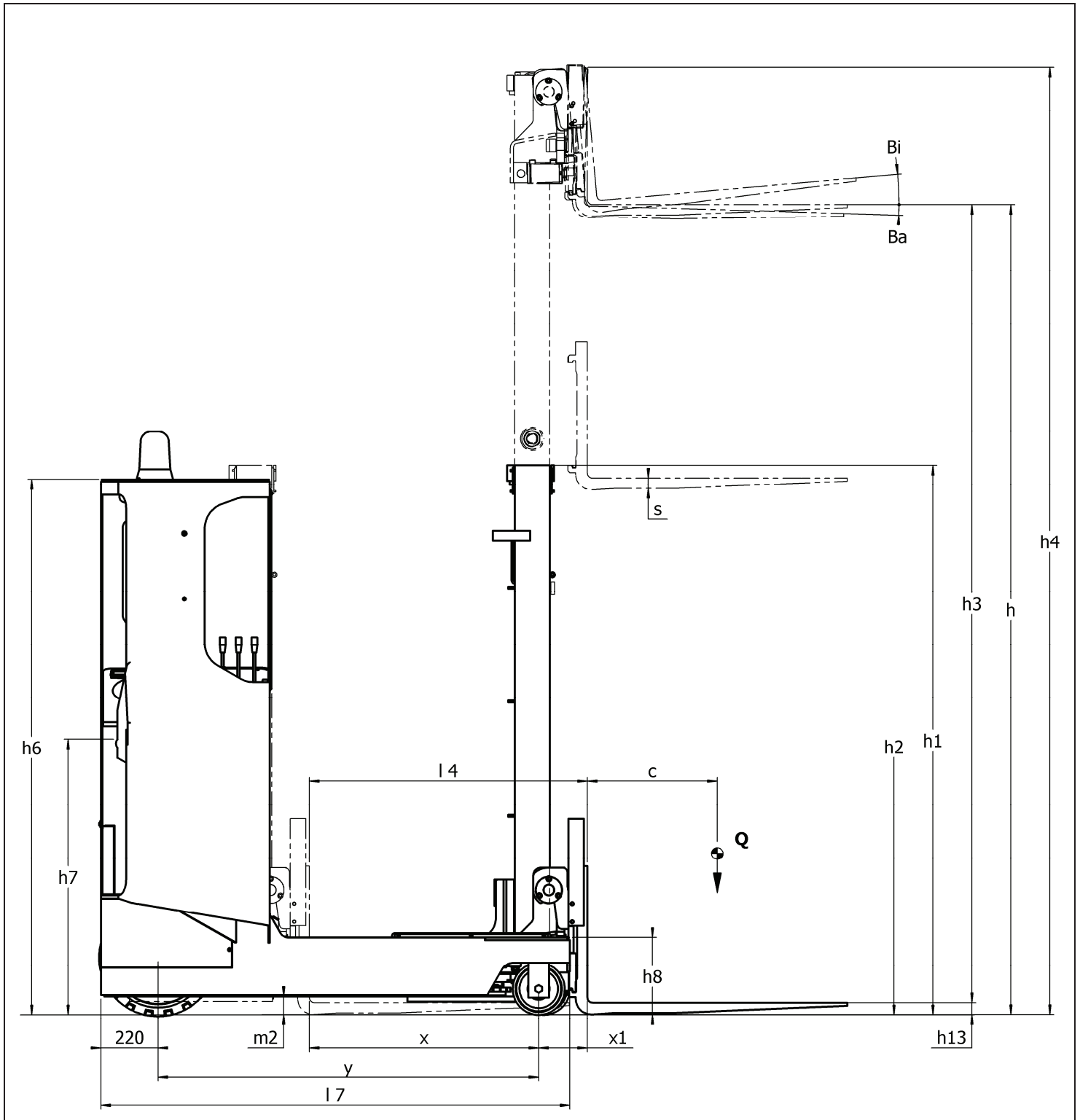
**Mast table**

Type	h (mm)	4.4 h <sub>3</sub> (mm)	4.2 h <sub>1</sub> (mm)	4.3 h <sub>2</sub> (mm) with b <sub>3</sub> /b <sub>3</sub> opt.	4.5 h <sub>4</sub> (mm) with b <sub>3</sub> - b <sub>3</sub> opt.	4.23 Class / Type with b <sub>3</sub> - b <sub>3</sub> opt.	4.24 b <sub>3</sub> /b <sub>3</sub> opt. (mm)	4.25 b <sub>5</sub> /b <sub>5</sub> opt. (mm)
<b>DUPLEX</b>	3120	3075	2115	70/70	3645/3865	2/A - 2/custom	1200/2880	1200/2800
	3320	3275	2215		3845/4065			
	3520	3475	2315		4045/4265			
	3720	3675	2415		4245/4465			
	3920	3875	2515		4445/4665			
	4120	4075	2615		4645/4865			
<b>DUPLEX GAL</b>	3120	3075	2115	1545/1325	3645/3865	2/A - 2/custom	1200/2880	1200/2800
	3320	3275	2215	1645/1425	3845/4065			
	3520	3475	2315	1745/1525	4045/4265			
	3720	3675	2415	1845/1625	4245/4465			
	3920	3875	2515	1945/1725	4445/4665			
	4120	4075	2615	2045/1825	4645/4865			
<b>TRIPLEX</b>	4060	4015	1915	-	4585/4805	2/A - 2/custom	1200/2880	1200/2800
	4360	4315	2015		4885/5105			
	4660	4615	2115		5185/5405			
	4960	4915	2215		5485/5705			
	5260	5215	2315		5785/6005			
	5560	5515	2415		6085/6305			
<b>TRIPLEX GAL</b>	4060	4015	1915	1345/1125	4585/4805	2/A - 2/custom	1200/2880	1200/2800
	4360	4315	2015	1445/1225	4885/5105			
	4660	4615	2115	1545/1325	5185/5405			
	4960	4915	2215	1645/1425	5485/5705			
	5260	5215	2315	1745/1525	5785/6005			
	5560	5515	2415	1845/1625	6085/6305			

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This specification sheet according to VDI regulation 2198 only provides technical values for the standard truck. Non-standard tyres, different masts, additional equipments, etc., could produce other values. Right reserved for technical changes and improvements.

