

CROSS Series electronic 4-way forklift truck

Technical data in line with VDI 2198

as at: 10/2011

			Icem	Icem
			CROSS 16/312	CROSS 20/312
Identification	1.1	Manufacturer (abbreviation)	Icem	Icem
	1.2	Manufacturer's type designation	CROSS 16/312	CROSS 20/312
	1.3	Drive	electric	electric
	1.4	Type of operation	pedestrian	pedestrian
	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 ₁ (mm)	205
	1.9	Wheelbase with l = 800/1000/1200 y (mm)	1205/1405/1605	1205/1405/1605
Weights	2.1	Service weight incl. battery (see line 6.5)	with l = 800 kg 2700 ⁽¹⁾⁽²⁾	3000 ⁽¹⁾⁽²⁾
		with l = 1000 kg 2850 ⁽¹⁾⁽²⁾	3000 ⁽¹⁾⁽²⁾	
		with l = 1200 kg 3000 ⁽¹⁾⁽²⁾	3000 ⁽¹⁾⁽²⁾	
	2.4	Axle loading, laden front/rear mast advanced	with l = 800 kg 720/3580 ⁽¹⁾⁽²⁾	830/4170 ⁽¹⁾⁽²⁾
			with l = 1000 kg 730/3720 ⁽¹⁾⁽²⁾	680/4320 ⁽¹⁾⁽²⁾
	2.5	Axle loading, laden front/rear mast retracted	with l = 1200 kg 770/3830 ⁽¹⁾⁽²⁾	580/4420 ⁽¹⁾⁽²⁾
with l = 800 kg 2550/1750 ⁽¹⁾⁽²⁾			2940/2060 ⁽¹⁾⁽²⁾	
with l = 1000 kg 2710/1740 ⁽¹⁾⁽²⁾			2950/2050 ⁽¹⁾⁽²⁾	
Wheels, Chass.	3.1	Tyres	PU	PU
	3.2	Tyre size, front mm	Ø 300	Ø 300
	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 ₁₁ (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 ₁ (mm)	2115 ⁽¹⁾	2115 ⁽¹⁾
	4.3	Free lift h ₂ (mm)	70 ⁽¹⁾	70 ⁽¹⁾
	4.4	Lift height h ₃ (mm)	3075 ⁽¹⁾	3075 ⁽¹⁾
	4.5	Height, mast extended h ₄ (mm)	3645 ⁽¹⁾⁽²⁾	3645 ⁽¹⁾⁽²⁾
	4.9	Height of tiller in drive position min./max. h ₁₄ (mm)	1100/1450	1100/1450
	4.10	Height of wheel arms h ₈ (mm)	300	300
	4.15	Lowered height h ₁₃ (mm)	45	45
	4.19	Overall length with l = 800/1000/1200 l ₁ (mm)	1580/1780/1980	1580/1780/1980
	4.20	Length to face of forks l ₂ (mm)	780	780
	4.21	Overall width b ₁ (mm)	2100	2100
	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 ⁽²⁾	2/A ⁽²⁾
	4.24	Fork-carriage width b ₃ (mm)	1200 ⁽²⁾	1200 ⁽²⁾
	4.25	Width over forks min/max b ₅ (mm)	260/1200 ⁽²⁾	260/1200 ⁽²⁾
4.26	Distance between wheel arms b ₄ (mm)	1275	1275	
4.28	Reach distance with l = 800/1000/1200 l ₄ (mm)	870/1070/1270	870/1070/1270	
4.32	Ground clearance, centre of wheelbase m ₂ (mm)	70	70	
Perform. data	5.1	Travel speed, laden/unladen km/h	4.8/5.5	4.5/5.5
	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 %	-	-
Electric eng.	5.10	Service brake	electronic	electronic
	6.1	Drive motor rating S ₂ 60min kW	2	2
	6.2	Lift motor rating at S ₃ 10% kW	4	4
	6.4	Battery voltage, nominal capacity K ₅ V/Ah	24/500	24/500
	6.5	Battery weight kg	390	390
8.1	Type of drive control	SEPEX	SEPEX	
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 ₃ (mm)	4.2 h ₁ (mm)	4.3 h ₂ (mm) with b ₃ /b ₃ opt.	4.5 h ₄ (mm) with b ₃ - b ₃ opt.	4.23 Class / Type with b ₃ - b ₃ opt.	4.24 b ₃ /b ₃ opt. (mm)	4.25 b ₅ /b ₅ opt. (mm)
DUPLEX	3120	3075	2115	70/70	3645/3865	2/A - 2/custom	1200/2630-2880	1200/2550-2800
	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			
DUPLEX GAL	3120	3075	2115	1545/1325	3645/3865	2/A - 2/custom	1200/2630-2880	1200/2550-2800
	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			
TRIPLEX	4060	4015	1915	-	4585/4805	2/A - 2/custom	1200/2630-2880	1200/2550-2800
	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			
TRIPLEX GAL	4060	4015	1915	1345/1125	4585/4805	2/A - 2/custom	1200/2630-2880	1200/2550-2800
	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			



