

CEM 7 Series vertical order picker

Technical data in line with VDI 2198

as at: 01/2012

		Identification				
		1.1	1.2	1.3	1.4	1.5
	Manufacturer (abbreviation)	Icem	Icem	Icem	Icem	Icem
	Manufacturer's type designation	CEM 7/255	CEM 7/355	CEM 7/455	CEM 7/493	CEM 7/530
	Drive	electric	electric	electric	electric	electric
	Type of operation	order picker	order picker	order picker	order picker	order picker
	Load capacity/rated load	Q (t)	7.0 ⁽¹⁾	7.0 ⁽¹⁾	7.0 ⁽¹⁾	7.0 ⁽¹⁾
	Load centre distance	c (mm)	400	400	400	400
	Load distance, centre of drive axle to fork	x (mm)	167	167	167	167
	Wheelbase	y (mm)	1267	1267	1267	1267
		Weights				
	Service weight incl. battery (see line 6.5)	kg	2010	2100	2190	2230
	Axle loading, laden front/rear	kg	782/1928	822/1978	872/2018	902/2028
	Axle loading, unladen front/rear	kg	1095/915	1135/965	1185/1005	1215/1015
		Wheels Chass.				
	Tyres		PU	PU	PU	PU
	Tyre size, front	mm	Ø 320	Ø 320	Ø 320	Ø 320
	Tyre size, rear	mm	Ø 250	Ø 250	Ø 250	Ø 250
	Wheels, number front/rear (x = driven wheels)		1x/2	1x/2	1x/2	1x/2
	Track width, rear	b ₁₁ (mm)	840	840	840	840
		Basic dimensions				
	Closed mast height	h ₁ (mm)	2270	2305	2805	2995
	Lift height	h ₃ (mm)	2260	3260	4260	4640
	Height, mast extended	h ₄ (mm)	4530	5530	6530	6910
	Cab height	h ₆ (mm)	2270	2270	2270	2270
	Standing height	h ₇ (mm)	290	290	290	290
	Height of wheel arms	h ₈ (mm)	250	250	250	250
	Additional lift	h ₉ (mm)	840	840	840	840
	Standing height, elevated	h ₁₂ (mm)	2550	3550	4550	4930
	Lowered height	h ₁₃ (mm)	70	70	70	70
	Overall length	l ₁ (mm)	2520	2520	2520	2520
	Length to face of forks	l ₂ (mm)	1720	1720	1720	1720
	Overall width	b ₁ (mm)	960	960	960	960
	Fork dimensions	s/e/l (mm)	40/100/800	40/100/800	40/100/800	40/100/800
	Width over forks	b ₅ (mm)	560	560	560	560
	Width across guide rolls	b ₆ (mm)	1040 ⁽²⁾	1040 ⁽²⁾	1040 ⁽²⁾	1040 ⁽²⁾
	Ground clearance, centre of wheelbase	m ₂ (mm)	70	70	70	70
	Aisle width for pallets 1200x1000 (b ₁₂ xl ₆)	Ast (mm)	1400	1400	1400	1400
	Aisle width for pallets 800x1200 (b ₁₂ xl ₆)	Ast (mm)	1160	1160	1160	1160
	Aisle width for pallets 1200x800 (b ₁₂ xl ₆)	Ast (mm)	1400	1400	1400	1400
	Aisle width for pallets 1200x1000 (b ₁₂ xl ₆)	Ast ₃ (mm)	2947 ⁽³⁾	2947 ⁽³⁾	2947 ⁽³⁾	2947 ⁽³⁾
	Aisle width for pallets 800x1200 (b ₁₂ xl ₆)	Ast ₃ (mm)	3147 ⁽⁴⁾	3147 ⁽⁴⁾	3147 ⁽⁴⁾	3147 ⁽⁴⁾
	Aisle width for pallets 1200x800 (b ₁₂ xl ₆)	Ast ₃ (mm)	2747 ⁽⁵⁾	2747 ⁽⁵⁾	2747 ⁽⁵⁾	2747 ⁽⁵⁾
	Turning radius	Wa (mm)	1580	1580	1580	1580
		h ₃ +h ₉ (mm)	3100	4100	5100	5480
	Orderpicking height	h ₁₂ +1600 (mm)	4150	5150	6150	6530
		Perf. data				
	Travel speed, laden/unladen	km/h	7.0/7.0	7.0/7.0	7.0/7.0	7.0/7.0
	Lift speed, laden/unladen	m/s	0.17/0.21	0.17/0.21	0.17/0.21	0.17/0.21
	Lowering speed, laden/unladen	m/s	0.30/0.26	0.30/0.26	0.30/0.26	0.30/0.26
	Service brake		electronic	electronic	electronic	electronic
		Electric eng.				
	Drive motor rating S ₂ 60min	kW	2	2	2	2
	Lift motor rating at S ₃ 10%	kW	4	4	4	4
	Battery voltage, nominal capacity K ₅	V/Ah	24/500	24/500	24/500	24/500
	Battery weight	kg	390	390	390	390
	Type of drive control		AC	AC	AC	AC
	Sound level at driver's ear according to EN 12 053	dB (A)	70	70	70	70
	Steering		electric	electric	electric	electric

(1) data applies to c (mm) 500 and 600 too

(2) measures upon request

(3) diagonal to VDI: +145 mm

(4) diagonal to VDI: +57 mm

(5) diagonal to VDI: +171 mm

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