



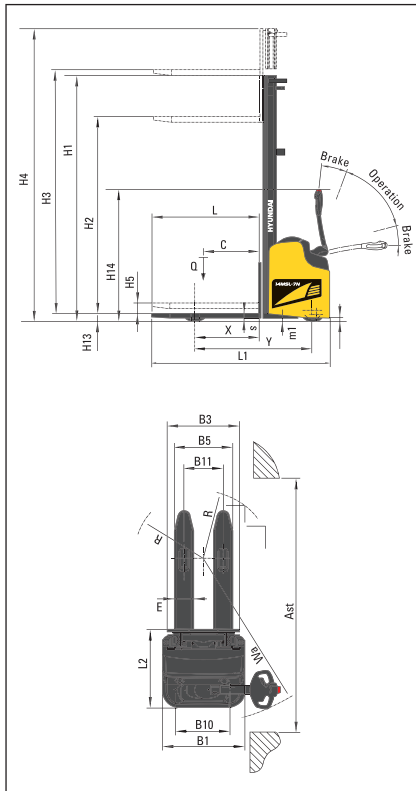
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# 12MSL-7N 14MS(L)-7N 16MS(L)-7N

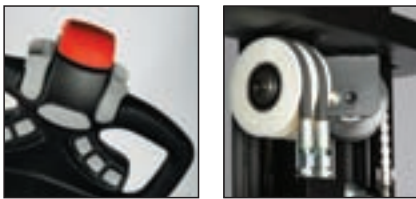
WAREHOUSE EQUIPMENT Electric stacker

 **HYUNDAI**  
HEAVY INDUSTRIES EUROPE  
[www.hyundai.eu](http://www.hyundai.eu)

## DIMENSIONS



## DETAIL



## MAST SPECIFICATIONS

14-16 MS-7N Mast Ref. dimensions in mm	Lift Height		Overall Height		Residual capacity	
	Max h3	Free lift h2	Lowered h1	Extended h4	14MS-7N	16MS-7N
Simplex	S 15	1505	1505	1930	1944	1400 1600
	S 17	1755	1755	2180	2194	1400 1600
Duplex	D 29	2935	-	1930	3374	1350 1400
	D 34	3435	-	2180	3874	1100 1150
	D 38	3835	-	2380	4274	900 950
Free lift duplex	D 43	4335	-	2630	4774	770 820
	DLL 29	2930	1505	1930	3369	1350 1400
	DLL 34	3430	1755	2180	3869	1100 1150
	DLL 38	3830	1955	2380	4269	850 900
	DLL 43	4330	2205	2630	4769	720 770
Triplex	T 42	4255	-	1989	4776	750 800
	T 48	4855	-	2189	5376	550 600
Free lift triplex	TLL 42	4245	1465	1889	4701	700 750
	TLL 47	4725	1625	2049	5181	550 550

12-14-16 MSL-7N Mast Ref. dimensions in mm	Lift Height		Overall Height		Residual capacity		
	Max h3	Free lift h2	Lowered h1	Extended h4	12 MSL-7N	14 MSL-7N	16 MSL-7N
Simplex	S 15	1506	1506	1953	1960	1200	1400 1600
	S 17	1756	1756	2203	2210	1200	1400 1600
Duplex	D 29	2936	-	1953	3390	1200	1300 1350
	D 34	3436	-	2203	3890	1050	1050 1100
	D 38	3836	-	2403	4290	800	800 850
Free lift duplex	D 43	4336	-	2653	4790	650	670 720
	DLL 29	2931	1506	1953	3385	1200	1250 1300
	DLL 34	3431	1756	2203	3885	1050	1000 1050
	DLL 38	3831	1956	2403	4285	*	750 800
	DLL 43	4331	2206	2653	4785	*	620 670
Triplex	T 42	4256	-	2011	4799	650	720 720
	T 48	4856	-	2211	5399	*	500 520
Free lift triplex	TLL 42	4246	1466	1911	4723	650	670 670
	TLL 47	4726	1626	2071	5203	*	470 500

\* Not available on this model

**HYUNDAI**  
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MATERIAL HANDLING

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## SPECIFICATIONS

Identification		12 MSL - 7N	14 MS(L) - 7N	16 MS(L) - 7N	
1.1	Manufacturer	Hyundai	Hyundai	Hyundai	
1.2	Type	12MSL-7N	14MS-7N / 14MSL-7N	16MS-7N / 16MSL-7N	
1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas, manual	Battery	Battery	Battery	
1.4	Type of operation: hand, pedestrian, standing, seated, order-picker	Pedestrian	Pedestrian	Pedestrian	
1.5	Load capacity (standard)	1200 kg	1400	1600	
1.6	Load center distance	C mm	600	600	
1.8	Load distance, fork face to track wheels (raised position)	X mm	855 / 815	687 - 848 / 808*	687 - 848 / 808*
1.9	Wheelbase (drive axle to track wheels) raised / lowered	Y mm	1492/1452	1250 - 1492 / 1452*	1250 - 1492 / 1452*
Weights					
2.1	Service weight	kg	1251	1092 / 1283	1092 / 1283
2.2	Axle loading, loaded front / rear	kg	1133 / 1318	1037 / 1453 - 1189* / 1493*	1064 / 1680 - 1216* / 1660*
2.3	Axle loading, unloaded front / rear	kg	973 / 278	851 / 240 - 1003* / 80*	851 / 240 - 1003* / 280*
Wheels					
3.1	Tires		Polyurethane	Polyurethane	Polyurethane
3.2	Tires size, front	mm	1 x (230 x 75)	1 x (230 x 75)	1 x (230 x 75)
3.3	Tires size, rear	mm	4 x (82 x 68)	4 x (82 x 68)	4 x (82 x 68)
3.4	Outrigger dimensions	mm	1 x (140 x 60)	1 x (140 x 60)	1 x (140 x 60)
3.5	Wheels, number front / rear (X = driven wheels)		1 x 1/4	1 x 1/4	1 x 1/4
3.6	Track width, front	B10 mm	529	529	529
3.7	Track width, rear	B11 mm	380	380	380
Basic dimensions					
4.2	Mast height (lowered)	h1 mm	1953	1930 - 1953*	1930 - 1953*
4.3	Free lift	h2 mm	see mast specifications		
4.4	Lift height (standard)	h3 mm	see mast specifications		
4.5	Height with mast raised	h4 mm	see mast specifications		
4.6	Initial lift	h5 mm	0 - 110*	0 - 110*	0 - 110*
4.9	Height of tiller in drive position (max)	h14 mm	750/1250	750 / 1250	750 / 1250
4.15	Height of forks (lowered)	h13 mm	84	85 - 86	85 - 86
4.19	Overall length	L1 mm	2024	1910 / 2035**	1910 / 2035**
4.20	Length to face of forks	L2 mm	834	761 / 846**	761 / 846**
4.21	Overall width	B1 mm	800	800	800
4.22	Fork dimensions L x W x T	S x E x L mm	60 x 185 x 1190	60 x 185 x 1150 - 60 x 185 x 1190*	60 x 185 x 1150 - 60 x 185 x 1190*
4.24	Fork carriage width	B3 mm	700	700	700
4.25	Width over forks	B5 mm	565	565	565
4.31	Ground clearance, under mast	m1 mm	30	30	30
4.32	Ground clearance, centre of wheelbase	m2 mm	-	-	-
4.33	Aisle width for pallets 1000 x 1200 crossways (L x W)	Ast mm	2653	2464 - 2653**	2464 - 2653**
4.34	Aisle width for pallets 800 x 1200 lengthways (W x L)	Ast mm	2587	2438 - 2567**	2438 - 2567**
4.35	Turning radius	Wa mm	1834	1588 - 1834*	1588 - 1834*
Performance data					
5.1	Travel speed, loaded / unloaded	km / h	6 / 6	6 / 6	6 / 6
5.2	Lift speed, loaded / unloaded	mm / s	180 / 300	160 / 300	140 / 300
5.3	Lowering speed, loaded / unloaded	mm / s	270 / 220	280 / 220	290 / 220
5.8	Max. Gradient performance, loaded / unloaded	%	7 / 10	7 / 10	7 / 10
5.10	Service brake		Electromagnetic	Electromagnetic	Electromagnetic
5.11	Parking brake		Handle release	Handle release	Handle release
Drive unit					
6.1	Drive motor rating (S2 60 min)	kW	1,5	1,5	1,5
6.2	Lift motor rating at S3 10%	kW	3	3	3
6.3	Battery acc. To DIN43531 / 35 / 36, A, B, C		DIN43535-B	DIN43535-B	DIN43535-B
6.4	Battery voltage / nominal capacity	V / Ah	24 / 180 - 300	24 / 180 - 300 (375)**	24 / 180 - 300 (375)**
6.5	Battery weight (+/- 5%)	kg	160 - 250	160 - 250 (325)**	160 - 250(325)**
Other details					
8.1	Type of drive control		Variator AC	Variator AC	Variator AC
8.4	Sound level at driver's ear (driving)	dB (A)	65	65	65

\* Only for models with initial lift

\*\* Battery with long chassis, add 80mm

PLEASE CONTACT