

## TECHNICAL DATA : SMV 7/8 ECC 90

<b>LIFTING DATA</b>			
Lift capacity / Load center	kg / mm	9 000 / 1 220	
Stacking height (of 9'6" / 8'6" containers)		7 / 8	
Lifting speed, unloaded / at rated load	m/s	0,68 / 0,61	
Lowering speed, unloaded / at rated load	m/s	0,6 / 0,6	
<b>DRIVING DATA</b>			
Drive speed forward, unloaded / at rated load	km/h	25 / 25	
Drive speed reverse, unloaded / at rated load	km/h	25 / 25	
Incline (driving ability) at rated load at 0 km/h/at 2 km/h	%	37 / 28	
Towing (power ability) at rated load at 0 km/h/at 2 km/h	kN	168 / 133	
<b>SERVICE WEIGHT / AXLE PRESSURE</b>			
Service weight	kg	38 400	
Axle pressure front, unloaded / at rated load	kg	24 500 / 38 300	
Axle pressure rear, unloaded / at rated load	kg	13 900 / 9 100	
<b>ENGINE (electronic controlled)</b>			
Engine make / model name		Volvo TAD-871-VE	
Emission approval EU / US		Stage 4 / Tier 4f	
Monitoring / emission controlled / CanBus		Yes / yes / yes	
Fuel/type of engine/intercooler		Diesel / 4-stroke / yes	
Power ISO 3046 / max speed	kW / rpm	185 / 2 200	
Torque ISO 3046 / at speed	Nm / rpm	1 160 / 1 500	
Displacement / No. of cylinders / Type	L / /	7,7 / 6 / Inline	
Fuel consumption, normal drive	L/h	10 - 12	
Alternator, type/power / capacity	/ W / Amp	AC / 3 080 / 110	
Starting battery, voltage/capacity	V / Ah	2 x 12 / 140	
<b>TRANSMISSION (electronic controlled)</b>			
Transmission make / model name		ZF 4WG-191-B	
Monitoring / reverse protection / CanBus		Yes / yes / yes	
Clutch, type		Torque converter	
Transmission type / type of shift gear		Softshift - Powershift / Automatic	
No. of gears, forward/reverse		4 / 3	
<b>DRIVE AXLE &amp; BRAKE SYSTEM</b>			
Drive axle make / model name		Kessler D81	
Drive axle type / drive axle width	/ mm	Differential + hub reduction / 4 060	
Service brake system, type / affected wheels		Oil cooled Wet Disc Brakes / drive wheels	
Parking brake system, type / affected wheels		Dry disc brake / spring release / drive wheels	
<b>STEER AXLE &amp; STEER SYSTEM</b>			
Steer axle type / steering system		Double acting cylinder / hydraulic servo assisted	
<b>WHEELS</b>			
Number of wheels, front + rear / type (*driven)		4*+2/pneumatic	
Tire pressure front / rear	MPa	0,9 / 0,9	
Tire dimensions (Ply rating) front / rear	Inch (No)	12.00 x 24" (PR 20) / 12.00 x 24" (PR 20)	
Rim dimension front / rear	Inch	10.00 x 24"/HD / 10.00 x 24"/HD	
<b>HYDRAULIC SYSTEM</b>			
Hydraulic pump make / model name		Parker & Hannifin / P2-series	
Hydraulic system / pump type		Load sensing system / variable piston pump	
Power-on-demand / Low energy		Yes / yes	
Hydraulic oil pressure mast / spreader	MPa / MPa	18 / 15	
<b>TANK VOLUMES</b>			
Diesel tank volume	L	400	
Hydraulic tank volume	L	430	
<b>LIFT EQUIPMENT &amp; SPREADER</b>			
Lift mast model / mast type / design		Duplex standard / 2-stage / free visibility	
Spreader make / model name		ELME 588TB	
Spreader type / capacity		Sidelift telescopic / 20-40 ft containers	
Spreader locking type / No. of containers		2 x top twist locks / 1	
Sideshift stroke	mm	± 300	
Pile Slope type / pile slope stroke (side tilt)	/ mm	Mechanical MPS / 0 - 200)	
<b>OTHERS</b>			
Noise level (inside Cab / Lm)	DIN 45635	dB(A)	68
Noise level (inside Cab/ LpAZ)	EN 12053	dB(A)	75
Noise level (outside at 7 m/ Lwa)	2005/88/EC	dB(A)	110
<b>NORMS &amp; STANDARDS</b>			
Machine Directive in Europe	2006 / 42 / EC		Yes
Stability of Industrial Trucks	ISO 1074		Yes
Safety of Industrial trucks	EN ISO 3691-1		Yes

