

TECHNICAL DATA : SMV 7/8 ECB 90

LIFTING DATA			
Lift capacity / Load center	kg / mm	9000 / 1220	
Stacking height (of 9'6" / 8'6" containers)		7 / 8	
Lifting speed, unloaded / at rated load	m/s	0.73 / 0.63	
Lowering speed, unloaded / at rated load	m/s	0.60 / 0.60	
DRIVING DATA			
Drive speed forward, unloaded / at rated load	km/h	30 / 30	
Drive speed reverse, unloaded / at rated load	km/h	30 / 30	
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	
SERVICE WEIGHT / AXLE PRESSURE			
Service weight	kg	39800	
Axle pressure front, unloaded / at rated load	kg	26200 / 40100	
Axle pressure rear, unloaded / at rated load	kg	13600 / 8700	
ENGINE (electronic controlled)			
Engine make / model name		Volvo TAD-722-VE/HT	
Emission approval EU / US		St II / Tier 2	
Monitoring / emission controlled / CanBus		Yes / yes / yes	
Fuel/type of engine/intercooler		Diesel / 4-stroke / yes	
Power ISO 3046 / at speed	kW / rpm	180 / 2300	
Torque ISO 3046 / at speed	Nm / rpm	1050 / 1400	
Displacement / No. of cylinders / Type	L / /	7.2 / 6-cylinder / Inline	
Fuel consumption, normal drive	L/h	10 – 12	
Alternator, type/power / capacity	/ W / Amp	AC / 1540 / 55	
Starting battery, voltage/capacity	V / Ah	2 x 12 / 88	
TRANSMISSION (electronic controlled)			
Transmission make / model name		Dana TE-17300	
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		3 / 3	
DRIVE AXLE & BRAKE SYSTEM			
Drive axle make / model name		Kessler D81	
Drive axle type / drive axle width	/ mm	Differential + hub reduction / 4060	
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	
STEER AXLE & STEER SYSTEM			
Steer axle type / steering system		Double acting cylinder / hydraulic servo assisted	
WHEELS			
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	
HYDRAULIC SYSTEM			
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	22 / 15	
TANK VOLUMES			
Diesel tank volume	L	400	
Hydraulic tank volume	L	430	
LIFT EQUIPMENT & SPREADER			
Lift mast model / mast type / design		Duplex standard / 2-stage / free visibility	
Spreader make / model name		ELME 588	
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 - 225)	
OTHERS			
Noise level (inside Cab / Lm)	DIN 45635	dB(A)	70
Noise level (inside Cab/ LpAZ)	EN 12053	dB(A)	75
Noise level (outside at 7 m/ Lwa)	2000/14/E	dB(A)	110
NORMS & STANDARDS			
Machine Directive in Europe	98 / 37 EC		Yes
Stability of Industrial Trucks	ISO 1074		Yes
Safety of Industrial trucks	EN 1551		Yes

