

TECHNICAL DATA : SMV 4/5 ECC 100 DS

LIFTING DATA			
Lift capacity / Load center	kg / mm	10 000 / 1 220	
Stacking height (of 9'6" / 8'6" containers)		5 (2 + 4) / 6 (2 + 5)	
Lifting speed, unloaded / at rated load	m/s	0,68 / 0,61	
Lowering speed, unloaded / at rated load	m/s	0,6 / 0,6	
DRIVING DATA			
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	%	33 / 24	
Towing (power ability) at rated load at 0 km/h/at 2 km/h	kN	153 / 120	
SERVICE WEIGHT / AXLE PRESSURE			
Service weight	kg	37 200	
Axle pressure front at LC1, unloaded / at rated load	kg	22 900 / 38 500	
Axle pressure rear at LC2, unloaded / at rated load	kg	14 300 / 8 700	
ENGINE (electronic controlled)			
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	
TRANSMISSION (electronic controlled)			
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	
DRIVE AXLE & BRAKE SYSTEM			
Drive axle make / model name		Kessler D81	
Drive axle type / drive axle width	/ mm	Differential + hub reduction / 4 100	
Driving 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)	14.00 x 24" (PR 24) / 14.00 x 24" (PR 24)	
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	18 / 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 584LB	
Spreader type / capacity		Sidelift telescopic / 20-40 ft containers	
Spreader locking type / No. of containers		2 x side hooks + 2 x side clamps / 2	
Sideshift stroke	mm	± 300	
Pile Slope type / pile slope stroke (side tilt)	/ Deg	Mechanical MPS / ± 2,2)	
OTHERS			
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
NORMS & STANDARDS			
Machine Directive in Europe	2006 / 42 / EC		Yes
Stability of Industrial Trucks	ISO 1074		Yes
Safety of Industrial trucks	EN ISO 3691-1		Yes

