

## TECHNICAL DATA: SMV 4531 TC5 HLT

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LIFTING DATA		45 000 / 04 000 / 40 000
Lift capacities (at load center LC1 / LC2 / LC3)	kg	45 000 / 31 000 / 16 000
Lift capacities (at load center LC1 / LC2 / LC3 at max lifting height)	kg	45 000 / 31 000 / 16 000
Load centers (LC1 / LC2 / LC3)	mm	2 000 / 3 850 / 6 350
Lifting speed, unloaded / at 40 % load / at rated load	m/s	0,38 / 0,35 / 0,23
Lowering speed, unloaded / at rated load	m/s	0,35 / 0,4
DRIVING DATA	luna /la	04 / 00
Drive speed forward, unloaded / at rated load	km/h	24 / 22
Drive speed reverse, unloaded / at rated load	km/h	24 / 22
Incline (driving ability) at rated load at 0 km/h/at 2 km/h	%	20/12
Towing (power ability) at rated load at 0 km/h/at 2 km/h	kN	120 / 120
SERVICE WEIGHT / AXLE PRESSURE	l.m	74 900
Service weight	kg	71 800
Axle pressure front at load center LC1, unloaded / at rated load	kg	37 500 / 102 200
Axle pressure front at load center LC2, unloaded / at rated load  Axle pressure rear at load center LC1, unloaded / at rated load	kg	42 000 / 95 500 34 300 / 14 600
Axle pressure rear at load center LC1, unloaded / at rated load  Axle pressure rear at load center LC2, unloaded / at rated load	kg kg	29 800 / 7 300
Axle pressure in driving position, front/rear (at rated load)	kg	93 100 / 23 700
DIESEL ENGINE POWERED GENSET (CAN bus controlled)	Ng	93 100 / 23 700
Engine make / model name		Volvo TAD 873 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	235 / 2 200
Torque ISO 3046 / at speed	Nm / rpm	1300 / 1310
Displacement / No. of cylinders / type	L Kill / Ipill	7,7 / 6 / Inline
Fuel consumption, normal driving	L/h	10-12
Generator, type/power / voltage	/ kW / V	Permanent magnet, direct drive, oil cooled / 250 / 700
Starting battery, voltage/capacity	V / Ah	2 x 12 / 140
ENERGY STORAGE (CAN bus controlled)	. , / / 111	,
Type		Super capacitor, 6×130 V modules
Functional principle		Produced energy from Genset, and recovered from Braking
l and on an principle		or Lowering is utilized by any machine function as required
Energy storage capacity / Power capacity	kWh / kW	1,0 / 300
Cooling	KWIII / KW	Forced air (inherent cooling fans)
DRIVE AXLE & BRAKE SYSTEM		t area and (initial area area)
Electric drive motor make / type		BAE Systems E-axle / asynchronous AC motor, oil cooled
Drive motor power / tractive effort		200 / 109
Drive axle make / model name	kW / kNm	Kessler / R102
Driving brake system, type / affected wheels	,	Wet disc brake / spring release / drive wheels
Parking brake system, type / affected wheels		Wet disc brake / spring release / drive wheels
STEER AXLE & STEER SYSTEM		The transfer of the state of th
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	1,0 / 1,0
Tire dimensions (Ply rating) front / rear	Inch (No)	18.00 x 25" (PR 40) / 18.00 x 25" (PR 40)
Rim dimension front / rear		13.00 x 25" / 13.00 x 25"
INVENTURE OVER LAND.	Inch	
HYDRAULIC SYSTEM (CAN bus controlled)	Inch	
HYDRAULIC SYSTEM (CAN bus controlled) Hydraulic pump make / model name	Inch	Parker Hannifin / E-Pump
	Inch	Parker Hannifin / E-Pump Load sensing system / piston pump/hydraulic motor –
Hydraulic pump make / model name	Inch	
Hydraulic pump make / model name	Inch	Load sensing system / piston pump/hydraulic motor -
Hydraulic pump make / model name	Inch	Load sensing system / piston pump/hydraulic motor – direct drive by electric motor/generator (x2 – boom lifting / boom extension) Load sensing regenerative system / piston pump – direct
Hydraulic pump make / model name	Inch	Load sensing system / piston pump/hydraulic motor – direct drive by electric motor/generator (×2 – boom lifting / boom extension) Load sensing regenerative system / piston pump – direct drive by electric motor (×2 – boom boost / steering-
Hydraulic pump make / model name Hydraulic system / pump types	Inch	Load sensing system / piston pump/hydraulic motor – direct drive by electric motor/generator (×2 – boom lifting / boom extension) Load sensing regenerative system / piston pump – direct drive by electric motor (×2 – boom boost / steering-spreader-hyd. brakes)
Hydraulic pump make / model name Hydraulic system / pump types  Power-on-demand / Low energy / Separate oil tanks		Load sensing system / piston pump/hydraulic motor – direct drive by electric motor/generator (×2 – boom lifting / boom extension) Load sensing regenerative system / piston pump – direct drive by electric motor (×2 – boom boost / steering-spreader-hyd. brakes) Yes / yes / hydraulics & brakes
Hydraulic pump make / model name Hydraulic system / pump types  Power-on-demand / Low energy / Separate oil tanks Nominal hydraulic oil pressure boom / spreader	Inch  MPa / MPa	Load sensing system / piston pump/hydraulic motor – direct drive by electric motor/generator (×2 – boom lifting / boom extension) Load sensing regenerative system / piston pump – direct drive by electric motor (×2 – boom boost / steering-spreader-hyd. brakes)
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Power-on-demand / Low energy / Separate oil tanks Nominal hydraulic oil pressure boom / spreader TANK VOLUMES Diesel tank volume Hydraulic tank volume LIFT EQUIPMENT & SPREADER Spreader make / type Spreader functions Spreader locking containers / lifting eyes Sideshift stroke / rotation / pile slope type (pile slope stroke) OTHERS Safety, Monitoring & overload system / programmable / colour Manual sliding cabin / stroke Noise level (inside Cab / Lm) DIN 45635	MPa / MPa  L L  mm / deg /  / mm dB(A)	Load sensing system / piston pump/hydraulic motor – direct drive by electric motor/generator (×2 – boom lifting / boom extension) Load sensing regenerative system / piston pump – direct drive by electric motor (×2 – boom boost / steering-spreader-hyd. brakes) Yes / yes / hydraulics & brakes 24 / 15  650 850  ELME 817-MPS / Toplift (container) 20-40 ft containers 4 x top twist locks / 4 x in corners ± 800 / +195:-105 / Manual MPS / (± 2,0)  Electronic system EMC / yes / yes Yes / 1 800 66
Power-on-demand / Low energy / Separate oil tanks Nominal hydraulic oil pressure boom / spreader  TANK VOLUMES Diesel tank volume Hydraulic tank volume Hydraulic tank volume LIFF EQUIPMENT & SPREADER Spreader functions Spreader functions Spreader functions Spreader locking containers / lifting eyes Sideshift stroke / rotation / pile slope type (pile slope stroke)  OTHERS Safety, Monitoring & overload system / programmable / colour Manual sliding cabin / stroke Noise level (inside Cab / Lm) Noise level (inside Cab / LpAZ) EN 12053	MPa / MPa  L L  mm / deg /  / mm dB(A) dB(A) dB(A)	Load sensing system / piston pump/hydraulic motor – direct drive by electric motor/generator (×2 – boom lifting / boom extension) Load sensing regenerative system / piston pump – direct drive by electric motor (×2 – boom boost / steering-spreader-hyd. brakes) Yes / yes / hydraulics & brakes 24 / 15  650 850  ELME 817-MPS / Toplift (container) 20-40 ft containers 4 x top twist locks / 4 x in corners ± 800 / +195: -105 / Manual MPS / (± 2,0)  Electronic system EMC / yes / yes Yes / 1 800 66 75
Power-on-demand / Low energy / Separate oil tanks Nominal hydraulic oil pressure boom / spreader  TANK VOLUMES Diesel tank volume Hydraulic tank volume Hydraulic tank volume  LIFT EQUIPMENT & SPREADER Spreader make / type Spreader functions Spreader locking containers / lifting eyes Sideshift stroke / rotation / pile slope type (pile slope stroke)  OTHERS Safety, Monitoring & overload system / programmable / colour Manual sliding cabin / stroke Noise level (inside Cab / Lm) Noise level (inside Cab / LpAZ) Noise level (outside at 7 m/ Lwa)  Power-on-demand Separate oil tanks Spreader Spreader Spreader Spreader functions Spreader func	MPa / MPa  L L  mm / deg /  / mm dB(A)	Load sensing system / piston pump/hydraulic motor – direct drive by electric motor/generator (×2 – boom lifting / boom extension) Load sensing regenerative system / piston pump – direct drive by electric motor (×2 – boom boost / steering-spreader-hyd. brakes) Yes / yes / hydraulics & brakes 24 / 15  650 850  ELME 817-MPS / Toplift (container) 20-40 ft containers 4 x top twist locks / 4 x in corners ± 800 / +195:-105 / Manual MPS / (± 2,0)  Electronic system EMC / yes / yes Yes / 1 800 66
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Hydraulic pump make / model name Hydraulic system / pump types  Power-on-demand / Low energy / Separate oil tanks Nominal hydraulic oil pressure boom / spreader  TANK VOLUMES Diesel tank volume Hydraulic tank volume Hydraulic tank volume Hydraulic tank volume  LIFT EQUIPMENT & SPREADER Spreader functions Spreader functions Spreader locking containers / lifting eyes Sideshift stroke / rotation / pile slope type (pile slope stroke)  OTHERS Safety, Monitoring & overload system / programmable / colour Manual sliding cabin / stroke Noise level (inside Cab / Lm) Noise level (inside Cab / LpAZ) Noise level (inside Cab / LpAZ) EN 12053 Noise level (outside at 7 m / Lwa) 2000/14/EC  NORMS & STANDARDS (including sub-ordinate ones) Machine Directive in Europe EMC directive 2006:42-EC EMC directive 2006:95:EC Safety of Industrial trucks – reach stackers ISO EN 3691-2	MPa / MPa  L L  mm / deg /  / mm dB(A) dB(A) dB(A)	Load sensing system / piston pump/hydraulic motor – direct drive by electric motor/generator (×2 – boom lifting / boom extension) Load sensing regenerative system / piston pump – direct drive by electric motor (×2 – boom boost / steering-spreader-hyd. brakes) Yes / yes / hydraulics & brakes 24 / 15 650 850  ELME 817-MPS / Toplift (container) 20-40 ft containers 4 x top twist locks / 4 x in corners ± 800 / +195: -105 / Manual MPS / (± 2,0)  Electronic system EMC / yes / yes Yes / 1 800 66 75 111  Yes, CE marked for compliance
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