

Electric Pedestrian Pallet Stacker KMSac.4W 16xxxx DT

Type sheet for industrial Trucks according to **VDI 2198**

		Veni and Co Ltd			
		162940 DT	163410 DT	163818 DT	
Characteristics	1.1	Manufacturer			
	1.2	Model designation			
	1.3	Power unit	Battery		
	1.4	Operation	Pedestrian		
	1.5	Load capacity	Q	(kg)	
	1.51	Residual capacity	Qres	-	
		$h_3+h_{13} = - / 3200^* / 3200^{**}$ mm	-	(kg)	
		$h_3+h_{13} = 3000 / 3470^* / 3878^{**}$ mm	-	(kg)	
	1.6	Load center	c	(mm)	
1.8	Axle center to fork face	x	(mm)		
1.9	Wheel-base	y	(mm)		
2.1	Service weight		(kg)		
Wheels/tyres	3.1	Tyres front/rear (Polyurethane/PU, Vulkollan/VU)	VU/VU		
	3.2	Tyre size, front (drive) wheel	(mm)		
	3.3	Tyre size, rear (load) wheel	D 254x100		
	3.4	Suport wheel - 2 pcs.	(mm)		
	3.5	Wheels, number front (drive)/ rear (load) (x=driven)	(mm)		
	3.6	Track width, front	b_{10}	(mm)	
	3.7	Track width, rear	b_{11}	(mm)	
Dimensions	4.2	Height, mast lowered	h_1	(mm)	
	4.3	Free lift	h_2	(mm)	
	4.4	Lift	h_3	(mm)	
	4.5	Height, mast extended	h_4	(mm)	
	4.9	Height of tiller in drive position min/max	h_{14}	(mm)	
	4.10	Height of wheel arms	h_8	(mm)	
	4.15	Height lowered	h_{13}	(mm)	
	4.151	Height forks lifted	h_3+h_{13}	(mm)	
	4.19	Overall length	l_1	(mm)	
	4.20	Length to fork face	l_2	(mm)	
	4.21	Overall width front	b_1	(mm)	
		Overall width rear	b_2	(mm)	
	4.22	Fork dimensions	s/e/l	(mm)	
	4.23	Fork carriage ISO 2328	-	-	
	4.24	Fork carriage width	b_3	(mm)	
	4.25	Overall forks width min/max	b_5	(mm)	
	4.26	Distance between wheel arms	b_4	(mm)	
4.31	Ground clearance, below mast	m_1	(mm)		
4.32	Ground clearance, center of wheelbase	m_2	(mm)		
4.34	Aisle width for pallets 800x1200mm along forks	Ast	(mm)		
	Aisle width for pallets 800x1200mm across forks	Ast	(mm)		
4.35	Turning radius	Wa	(mm)		
4.37	Length across wheel arms	l_7	(mm)		
Performance	5.1	Travel speed, with/without load		(km/h)	
	5.2	Lifting speed, with/without load		(m/s)	
	5.3	Lowering speed, with/without load		(m/s)	
	5.8	Maximum climbing ability, with/without load, rating 5 min		(%)	
	5.10	Service brake		Electromagnetic, regenerative	
Drive	6.1	Drive motor, rating S2 60 min		(kW)	
	6.2	Lift motor, rating S3 15%		(kW)	
	6.4	Battery voltage/rated capacity C5		(V/Ah)	
Other	8.1	Type of drive control		Pulse controller	
				COMBI AC/300A	

Electric Pedestrian Pallet 4-way Stacker KMSac 16xxxx DT

Standard equipment:

- Mid to Heavy-duty application
- Max. travel speed - 6,0 km/h
- Nominal capacity – 1600 kg
- **Modern AC technology** - for high speed, high torque, quiet and smooth running;
 - AC Drive motor - **2,9 kW**;
 - AC Steering motor - **0,4 kW**.
- **DC pump motor – 3,2 kW**;
- Electronics - modern **CANBUS-architecture** requiring less wiring, giving better reliability, providing easy and fast diagnostics;
- **Electric Powered progressive Steering**;
- Speed control by **Pulse controller COMBI AC/300A**:
 - smooth and gently running Forward/Backward;
 - smooth, step-less Lifting/Lowering;
 - regenerative braking with energy reclamation to the battery.
- Electronics - modern **CANBUS-architecture** requiring less wiring, giving better reliability, providing easy and fast diagnostics;
- Horn
- Automatic Braking:
 - EMERGENCY and PARKING electromagnetic brake
 - REGENERATIVE Braking when releasing Accelerator in a neutral position or reversing the travel direction
- Traction battery **24V 3PzS/315 Ah C5 / wet Pb Acid batteries**:
- High frequency/HF automatic on-board charger **24V/45A 1ph.**:
- EMERGENCY Switch
- Multifunction Digital Indicator displaying:
 - Battery's state of charge
 - Hour meter
 - Alarms
- **Proportional hydraulics for smooth, step less Lifting/Lowering speed control**
- **External Battery-charging Indicator**;
- Spring loaded Drive wheel;
- Traction wheel – VULKOLLAN tire 254x100mm;
- Support / Load wheels – VULKOLLAN tire;
- **CREEP SPEED** function – travelling in restricted areas with Tiller-arm in upright position
- Automatic Travel speed reduction when forks raised 1200 mm and more
- Robust Two-stage clear view mast / Duplex Telescopic
- Low-maintenance Drive-wheel unit:
 - Modern AC traction motor in vertical position
 - High efficient gear box /gears in oil bath - oil change required after 2000 working hours
 - High quality Traction wheel with VULKOLLAN, 93° Shore A tyre (other tyres available on request)
 - High quality Electromagnetic Brake with environment-friendly friction lining

Specific standard equipment:

- **Chassis design – Straddle legs**
- **Distance between the wheel arms “b4=950mm” - Standard (1350 and 1650mm - Optional)**
- **Specific Load wheels**;
- **Fork carriage class 2B, ISO 2328, Carriage width “b3=900mm” - Standard (1300 and 1600 – Optional)**
- **Forged forks 45/120/1200mm, manually adjustable Overall forks width “b5= from 300 to 860” – Standard (1260 and 1560mm).**

Optional Equipment

- | | | | |
|---|--|------------|---|
| • Batteries with higher capacity: | | | |
| - 375 Ah C5, incl. charger 24V/45A | | plus 145 € | - |
| - 420 Ah C5, incl. external charger 24V/60A | | plus 553 € | - |
| • Authorized access with PIN-Code management | | plus 174 € | - |
| • Full Free-lift mast | | plus 380 € | - |
| • Optional Straddle legs distance: | | | |
| - “b4=1350mm” | | plus 186 € | - |
| - “b4=1650mm” | | plus 247 € | - |
| • Maintenance-free batteries | | by request | - |