



Electric Pedestrian Pallet Stacker KMS.AC 2000/3,5

Standard equipment:

- Heavy-duty application
- Max. travel speed - 6,0 km/h
- Capacity - 2000 kg
- Lifting height - 3,5 m
- AC drive motor - 1,3 kW:
 - Maintenance free
 - External Encoder
 - Low noise level
- DC pump motor - 3,2 kW
- Speed control by pulse controller COMBI AC/250A including 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/240Ah C5 (wet Pb Acid batteries)
- High frequency/HF automatic On-board Charger 24V/30A 1 ph.
- EMERGENCY Switch
- Multifunctional Digital Indicator displaying:
 - Battery's state of charge
 - Hour meter
 - Alarms
 - 3 factory preselected Driving Modes (SPD HI / SPD MID / SPD LO)
 - 3 factory preselected Lifting/Lowering Modes (HYD SFT / HYD MID / HYD HRD)
- Proportional hydraulics for smooth, step less Lifting/Lowering speed control
- Rollers and wheels - Polyurethane. Load side - Tandem rollers as standard
- Two castor wheels (left and right Driver side) and Spring loaded Drive Wheel in the middle
- CREEP SPEED function - travelling in restricted areas with Tiller-arm in upright position
- Automatic Travel speed reduction when forks raised 600 mm and more
- Two-stage Clear-View mast with side cylinders
- Virtually maintenance-free Drive-wheel unit:
 - Modern AC traction motor in vertical position
 - High efficient gear box /gears in oil bath - no oil change required for life
 - High quality Traction wheel with Polyurethane, 93° Shore A tyre (other tyres available on request)
 - High quality Electromagnetic Brake with environment-friendly friction lining

Optional equipment:

- Batteries with higher capacity:
 - 24V 3PzS/315 Ah C5, incl. charger 24V/45A 1 ph.
 - 24V 3PzS/375 Ah C5, incl. charger 24V/45A 1 ph.
- Automatically foldable stand-on Platform, mid driver-side
- Manually foldable Side-protection arms
- Authorised access with PIN Code management
- Traction motor AC 1,5 kW
- Package EPS/Electric Powered Steering (including - EPS Transmission 1,3 kW + Mechanical Interface + Steering Controller + Sensors + Wiring + Integration)
Note: EPS is a system to provide FATIGUE-FREE (thus driver-friendly) and safe steering by means of electrical front-axle steering and Curve control
- Package HS for travel speed 10,0 km/h (including Automatically foldable stand-on Platform, Manually foldable Side-protection arms, Package EPS with Transmission 2,9 kW)
- Initial lift
- Sideways battery removal in a multi-shift applications (roller bed)
- Trolley for batteries side removal (with roller beds for 2 batteries)
- Straddle legs incl. Fork carriage ISO/FEM Class 2B and forks 40/100/1200mm
- Freezer application (working in cold storage rooms with temperature up to -25°C)
- Maintenance-free batteries HAWKER (GEL or NexSys)
- Li-Ion maintenance-free batteries MIDAC

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Type sheet for industrial Trucks according to VDI 2198

Characteristics	1.1	Manufacturer			VENI	
	1.2	Manufacturer's type designation			KMS.AC 2000/3,5	
	1.3	Power unit			Battery	
	1.4	Operation			Pedestrian	
	1.5	Load capacity	Q	(kg)	2000	
	1.51	Residual capacity	Qres	-	-	-
				$h_3+h_{13} = 2000$ mm	(kg)	2000
				$h_3+h_{13} = 3500$ mm	(kg)	1200
	1.6	Load centre	c	(mm)	600	
	1.8	Axle centre to fork face	x	(mm)	700	
1.9	Wheelbase	y	(mm)	1360		
Weight	2.1	Service weight incl. battery		(kg)	1170	
Wheels/tyres	3.1	Tyres front/rear (Polyurethane/PU, Vulkollan/VU)			PU/VU	
	3.2	Tyre size, front		(mm)	D 230x70	
	3.3	Tyre size, rear		(mm)	D 85x80	
	3.4	Support wheels		(mm)	D 125x50 Twin	
	3.5	Wheels, number front / rear (x=driven)		(mm)	1x+2/4	
	3.6	Track width, front	b₁₀	(mm)	810	
	3.7	Track width, rear	b₁₁	(mm)	387	
Dimensions	4.2	Height, mast lowered	h₁	(mm)	2320	
	4.3	Free lift	h₂	(mm)	100	
	4.4	Lift	h₃	(mm)	3410	
	4.5	Height, mast extended	h₄	(mm)	3975	
	4.9	Height of tiller in drive position min./max.	h₁₄	(mm)	1200/1310	
	4.15	Fork height, lowered	h₁₃	(mm)	90	
	4.151	Fork height, lifted	h₃+h₁₃	(mm)	3500	
	4.19	Overall length	l₁	(mm)	2000	
	4.20	Length to fork face	l₂	(mm)	850	
	4.21	Overall width	b₁	(mm)	1080	
	4.22	Fork dimensions	s/e/l	(mm)	60/195/1150	
	4.25	Overall forks width	b₅	(mm)	570	
	4.32	Ground clearance, centre of wheelbase	m₂	(mm)	30	
4.34	Aisle width with pallet 800x1200 mm along forks	Ast	(mm)	2390		
4.35	Turning radius	Wa	(mm)	1550		
Performance	5.1	Travel speed, with/ without load		(km/h)	5.2/6.0	
	5.2	Lifting speed, with/ without load		(m/s)	0.108/0.184	
	5.3	Lowering speed, with/ without load		(m/s)	0.178/0.190	
	5.8	Maximum gradeability, with/ without load		(%)	4/15	
	5.10	Service brake			Electromagnetic	
Drive	6.1	Drive motor, rating S2 60 min		(kW)	1.3	
	6.2	Lift motor rating S3 15%		(kW)	3.2	
	6.4	Battery voltage/ rated capacity C5		(V/Ah)	24/240	
Others	8.1	Type of drive control			Pulse controller COMBI AC/250A	

