

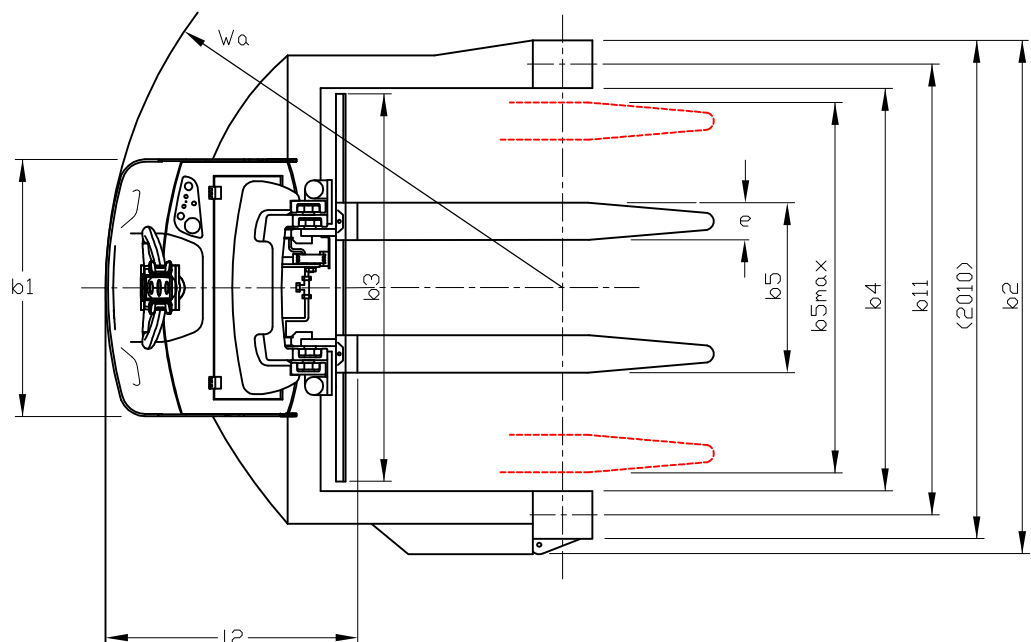
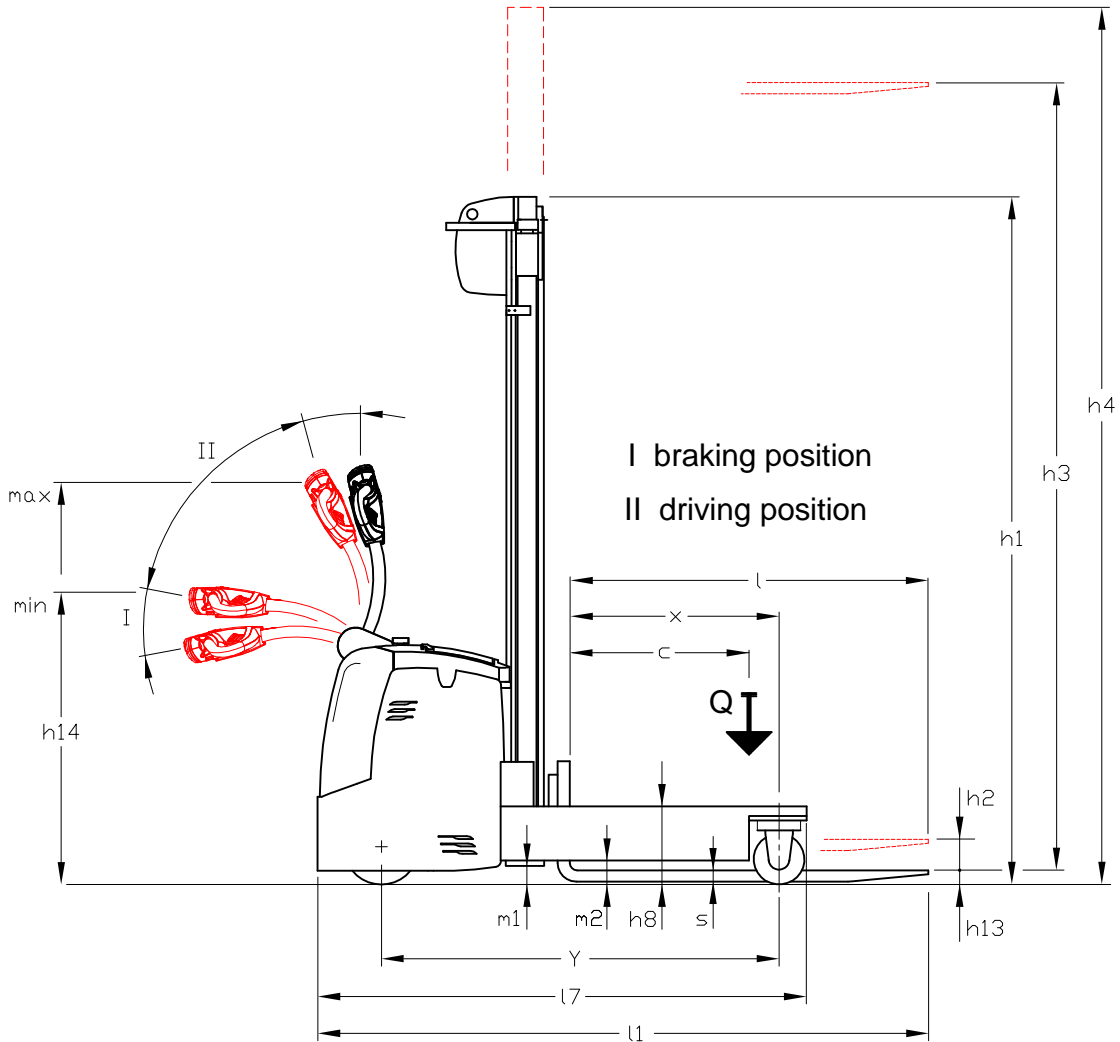
<b>Алматы</b> (7273)495-231	<b>Калининград</b> (4012)72-03-81	<b>Омск</b> (3812)21-46-40	<b>Сыктывкар</b> (8212)25-95-17
<b>Ангарск</b> (3955)60-70-56	<b>Калуга</b> (4842)92-23-67	<b>Орел</b> (4862)44-53-42	<b>Тамбов</b> (4752)50-40-97
<b>Архангельск</b> (8182)63-90-72	<b>Кемерово</b> (3842)65-04-62	<b>Орбург</b> (3532)37-68-04	<b>Тверь</b> (4822)63-31-35
<b>Астрахань</b> (8512)99-46-04	<b>Киров</b> (8332)68-02-04	<b>Пенза</b> (8412)22-31-16	<b>Тольятти</b> (8482)63-91-07
<b>Барнаул</b> (3852)73-04-60	<b>Коломна</b> (4966)23-41-49	<b>Петрозаводск</b> (8142)55-98-37	<b>Томск</b> (3822)98-41-53
<b>Белгород</b> (4722)40-23-64	<b>Кострома</b> (4942)77-07-48	<b>Псков</b> (8112)59-10-37	<b>Тула</b> (4872)33-79-87
<b>Благовещенск</b> (4162)22-76-07	<b>Краснодар</b> (861)203-40-90	<b>Пермь</b> (342)205-81-47	<b>Тюмень</b> (3452)66-21-18
<b>Брянск</b> (4832)59-03-52	<b>Красноярск</b> (391)204-63-61	<b>Ростов-на-Дону</b> (863)308-18-15	<b>Ульяновск</b> (8422)24-23-59
<b>Владивосток</b> (423)249-28-31	<b>Курск</b> (4712)77-13-04	<b>Рязань</b> (4912)46-61-64	<b>Улан-Удэ</b> (3012)59-97-51
<b>Владикавказ</b> (8672)28-90-48	<b>Курган</b> (3522)50-90-47	<b>Самара</b> (846)206-03-16	<b>Уфа</b> (347)229-48-12
<b>Владимир</b> (4922)49-43-18	<b>Липецк</b> (4742)52-20-81	<b>Саранск</b> (8342)22-96-24	<b>Хабаровск</b> (4212)92-98-04
<b>Волгоград</b> (844)278-03-48	<b>Магнитогорск</b> (3519)55-03-13	<b>Санкт-Петербург</b> (812)309-46-40	<b>Чебоксары</b> (8352)28-53-07
<b>Вологда</b> (8172)26-41-59	<b>Москва</b> (495)268-04-70	<b>Саратов</b> (845)249-38-78	<b>Челябинск</b> (351)202-03-61
<b>Воронеж</b> (473)204-51-73	<b>Мурманск</b> (8152)59-64-93	<b>Севастополь</b> (8692)22-31-93	<b>Череповец</b> (8202)49-02-64
<b>Екатеринбург</b> (343)384-55-89	<b>Набережные Челны</b> (8552)20-53-41	<b>Симферополь</b> (3652)67-13-56	<b>Чита</b> (3022)38-34-83
<b>Иваново</b> (4932)77-34-06	<b>Нижний Новгород</b> (831)429-08-12	<b>Смоленск</b> (4812)29-41-54	<b>Якутск</b> (4112)23-90-97
<b>Ижевск</b> (3412)26-03-58	<b>Новокузнецк</b> (3843)20-46-81	<b>Сочи</b> (862)225-72-31	<b>Ярославль</b> (4852)69-52-93
<b>Иркутск</b> (395)279-98-46	<b>Новоябрьск</b> (3496)41-32-12	<b>Ставрополь</b> (8652)20-65-13	
<b>Казань</b> (843)206-01-48	<b>Новосибирск</b> (383)227-86-73	<b>Сургут</b> (3462)77-98-35	
	<b>Киргизия</b> (996)312-96-26-47	<b>Россия</b> (495)268-04-70	<b>Казахстан</b> (772)734-952-31

## Electric Pedestrian Pallet Stacker KMSac.4W 16xxxx DT

Type sheet for industrial Trucks according to VDI 2198

Characteristics	1.1	Manufacturer	Veni and Co Ltd			
			162940 DT	163410 DT	163818 DT	
1.2	Model designation					
1.3	Power unit		Battery			
1.4	Operation		Pedestrian			
1.5	Load capacity	Q (kg)	1600			
1.51	Residual capacity	Qres -	-	-	-	
	$h_3+h_{13} = - / 3200^* / 3200^{**} \text{ mm}$	- (kg)	-	1600*	1600**	
	$h_3+h_{13} = 3000 / 3470^* / 3878^{**} \text{ mm}$	- (kg)	1600	1500*	1300**	
1.6	Load center	c (mm)	600			
1.8	Axle center to fork face	x (mm)	760			
1.9	Wheel-base	y (mm)	1450			
2.1	Service weight	(kg)	1260	1285	1320	
Wheels/tyres	3.1	Tyres front/rear (Polyurethane/PU, Vulkollan/VU)	VU/VU			
	3.2	Tyre size, front (drive) wheel	D 254x100			
	3.3	Tyre size, rear (load) wheel	D 150x50 Twin			
	3.4	Support wheel - 2 pcs.	-			
	3.5	Wheels, number front (drive)/ rear (load) (x=driven)	1x/4			
	3.6	Track width, front	b <sub>10</sub> (mm)	-		
	3.7	Track width, rear	b <sub>11</sub> (mm)	1130-1530-1830		
Dimensions	4.2	Height, mast lowered	h <sub>1</sub> (mm)	2070	2305	2509
	4.3	Free lift	h <sub>2</sub> (mm)	105		
	4.4	Lift	h <sub>3</sub> (mm)	2940	3410	3818
	4.5	Height, mast extended	h <sub>4</sub> (mm)	3490	3960	4368
	4.9	Height of tiller in drive position min/max	h <sub>14</sub> (mm)	1320/1500		
	4.10	Height of wheel arms	h <sub>8</sub> (mm)	280		
	4.15	Height lowered	h <sub>13</sub> (mm)	60		
	4.151	Height forks lifted	h <sub>3</sub> +h <sub>13</sub> (mm)	3000	3470	3878
	4.19	Overall length	l <sub>1</sub> (mm)	2087		
	4.20	Length to fork face	l <sub>2</sub> (mm)	887		
	4.21	Overall width front	b <sub>1</sub> (mm)	866		
		Overall width rear	b <sub>2</sub> (mm)	1395-1795-2095		
	4.22	Fork dimensions	s/e/l (mm)	45/120/1200		
	4.23	Fork carriage ISO 2328	-	Class2B		
	4.24	Fork carriage width	b <sub>3</sub> (mm)	900-1300-1600		
	4.25	Overall forks width min/max	b <sub>5</sub> (mm)	300/860-1260-1560		
	4.26	Distance between wheel arms	b <sub>4</sub> (mm)	950-1350-1650		
4.31	Ground clearance, below mast	m <sub>1</sub> (mm)	60			
4.32	Ground clearance, center of wheelbase	m <sub>2</sub> (mm)	80			
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)	1647			
4.37	Length across wheel arms	l <sub>7</sub> (mm)	1792			
Performance	5.1	Travel speed, with/without load	(km/h)	5.4/6.0		
	5.2	Lifting speed, with/without load	(m/s)	0.140/0.220		
	5.3	Lowering speed, with/without load	(m/s)	0.215/0.230		
	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)	2.9		
	6.2	Lift motor, rating S3 15%	(kW)	3.2		
	6.4	Battery voltage/rated capacity C5	(V/Ah)	24/315		
Other	8.1	Type of drive control		Pulse controller COMBI AC/300A		

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<b>Архангельск</b> (8182)63-90-72	<b>Кемерово</b> (3842)65-04-62	<b>Оренбург</b> (3532)37-68-04	<b>Тверь</b> (4822)63-31-35
<b>Астрахань</b> (8512)99-46-04	<b>Киров</b> (8332)68-02-04	<b>Пенза</b> (8412)22-31-16	<b>Тольятти</b> (8482)63-91-07
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<b>Вологда</b> (8172)26-41-59	<b>Москва</b> (495)268-04-70	<b>Севастополь</b> (8692)22-31-93	<b>Челябинск</b> (351)202-03-61
<b>Воронеж</b> (473)204-51-73	<b>Мурманск</b> (8152)59-64-93	<b>Симферополь</b> (3652)67-13-56	<b>Череповец</b> (8202)49-02-64
<b>Екатеринбург</b> (343)384-55-89	<b>Набережные Челны</b> (8552)20-53-41	<b>Смоленск</b> (4812)29-41-54	<b>Чита</b> (3022)38-34-83
<b>Иваново</b> (4932)77-34-06	<b>Нижний Новгород</b> (831)429-08-12	<b>Сочи</b> (862)225-72-31	<b>Якутск</b> (4112)23-90-97
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<b>Иркутск</b> (395)279-98-46	<b>Ноябрьск</b> (3496)41-32-12	<b>Сургут</b> (3462)77-98-35	
<b>Казань</b> (843)206-01-48	<b>Новосибирск</b> (383)227-86-73		
	<b>Киргизия</b> (996)312-96-26-47	<b>Россия</b> (495)268-04-70	<b>Казахстан</b> (772)734-952-31

## 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 “b<sub>4</sub>=950mm” - Standard (1350 and 1650mm - Optional)
- Specific Load wheels;
- Fork carriage class 2B, ISO 2328, Carriage width “b<sub>3</sub>=900mm” - Standard (1300 and 1600 – Optional)
- Forged forks 45/120/1200mm, manually adjustable Overall forks width “b<sub>5</sub>= 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**:
  - “b<sub>4</sub>=1350mm” plus 186 € -
  - “b<sub>4</sub>=1650mm” plus 247 € -
- Maintenance-free batteries by request -