

# Autopilot Stacker truck 1.6 ton

**BT staxio**

*AUTOPILOT*

SAE160S



# Autopilot stacker truck

Specifications						SAE160
Identification	1.1	Manufacturer				BT
	1.2	Model				SAE160
	1.3	Drive				Electric
	1.4	Operator type				Pedestrian
	1.5	Load capacity/rated load	Q	kg		1600
	1.6	Load centre	c	mm		600
	1.8	Load distance, centre of support arm wheel to face of forks	x	mm		751
	1.9	Wheelbase	y	mm		1510/1581
	Weight	2.1	Service weight		kg	
2.2		Axle load, with load, drive/ castor /support arm/wheel		kg		410/970/1910
2.3		Axle load, without load, drive/ castor /support arm/wheel		kg		420/800/470
Wheels	3.1	Drive/support arm wheel				Powerfriction/Vulkollan ®/Vulkollan ® <sup>1)</sup>
	3.2	Wheel size, front		mm		Ø 214
	3.3	Wheel size, rear		mm		Ø 125x50
	3.4	Additional wheels (dimensions)		mm		Ø 85x75
	3.5	Wheels, number front/rear (x=driven wheels)				1x+2/2
	3.6	Track width, front	b <sub>10</sub>	mm		387
	3.7	Track width, rear	b <sub>11</sub>	mm		640
Dimensions	4.2	Height, mast lowered	h <sub>1</sub>	mm		1745
	4.4	Lift	h <sub>3</sub>	mm		2260 <sup>1)</sup>
		Lift height	h <sub>23</sub>	mm		2350
	4.5	Height, mast extended	h <sub>4</sub>	mm		2900
	4.9	Height of tiller in drive position, min./max.	h <sub>14</sub>	mm		1435/1560
		Height with scanner	h <sub>20</sub>	mm		2374
		Height scanner eye	h <sub>21</sub>	mm		2342
	4.15	Height, fork lowered	h <sub>13</sub>	mm		90
	4.19	Overall length	l <sub>1</sub>	mm		See table Battery dependent dimensions
	4.20	Length to face of forks	l <sub>2</sub>	mm		See table Battery dependent dimensions
	4.21	Overall width	b <sub>1</sub>	mm		790/910 <sup>2)</sup>
	4.22	Fork dimensions	s/e/l	mm		70/180/1200 <sup>1)</sup>
	4.25	Width over forks	b <sub>5</sub>	mm		550
	4.26	Distance between support arms	b <sub>4</sub>	mm		259
	4.31	Ground clearance, with load, below mast	m <sub>1</sub>	mm		24
4.32	Ground clearance, centre of wheelbase	m <sub>2</sub>	mm		24	
4.35	Turning radius	W <sub>e</sub>	mm		1886/1957	
Performance data	5.1	Travel speed, with/without load				
		Manual mode		km/h		6,0/6,0
	Automatic mode		km/h		5,4/5,4	
	5.2	Lift speed, with/without load		m/s		0,15/0,31
	5.3	Lowering speed, with/without load		m/s		0,40/0,39
5.8	Max. gradeability, with/without load <sup>2)</sup>		%		12/10	
5.10	Service brake				Electromagnetic	
Electric motor	6.1	Drive motor rating S2 60 min		kW		1,7
	6.2	Lift motor rating at S3 10%		kW		3,0
	6.4	Battery voltage/nominal capacity K <sub>5</sub>		V/Ah		24/430-600
	6.5	Battery weight		kg		307-370/414-516
Others	8.1	Type of drive control				BT Powerdrive
	8.4	Sound level at the driver's ear according to EN 12 053		dB (A)		

1) Other alternatives available.

2) 910 mm including side sensor.

3) Measured according to company standard.

Truck performance and dimensions are nominal and subject to tolerances.  
Specifications are subject to change without notice.

## Battery dependent dimensions

# BT autopilot

Dimensions, mm		Battery compartment		SAE160 Duplex Tele mast		SAE160 Simplex mast	
				Large	X-Large	Large	X-Large
1.9	Wheelbase	y	mm	1510	1581	1510	1581
4.19	Overall length without platform	$l_1$	mm	2335/2735	2406/2806		
4.20	Length to face of forks without platform	$l_2$	mm	1135	1206		
4.35	Turning radius without platform	$W_a$	mm	1886	1957		
6.4	Battery voltage, nominal capacity K5		V/Ah	24/430	24/600	24/425-430	24/559-602
6.5	Battery weight, min.-max.		kg	307-370	414-516	307-370	414-516

## Mast dimensions

Mast, mm			Duplex Tele	Simplex
$h_{23}$	Lift height ( $h_{13}+h_3$ )	mm	2350	1790
$h_3$	Lift	mm	2260	1700
$h_1$	Height, mast lowered	mm	1745	2210
$h_4$	Height, mast extended	mm	2900	2210



# Standard truck features

- Automatic Loading and unloading
- Horizontal transport
- Vertical stacking
- Horizontal deep stacking
- Manual handling
- Laser precision navigation
- Personal safety protection device
- Side sensors
- Obstacle detection system
- Load detection
- Fork tip sensors
- BT Powerdrive System
- Information display

## Optional Features

- Order Manager System
- Barcode scanning
- WMS/ERP integration
- Extended mast height



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**RAYMOND**

