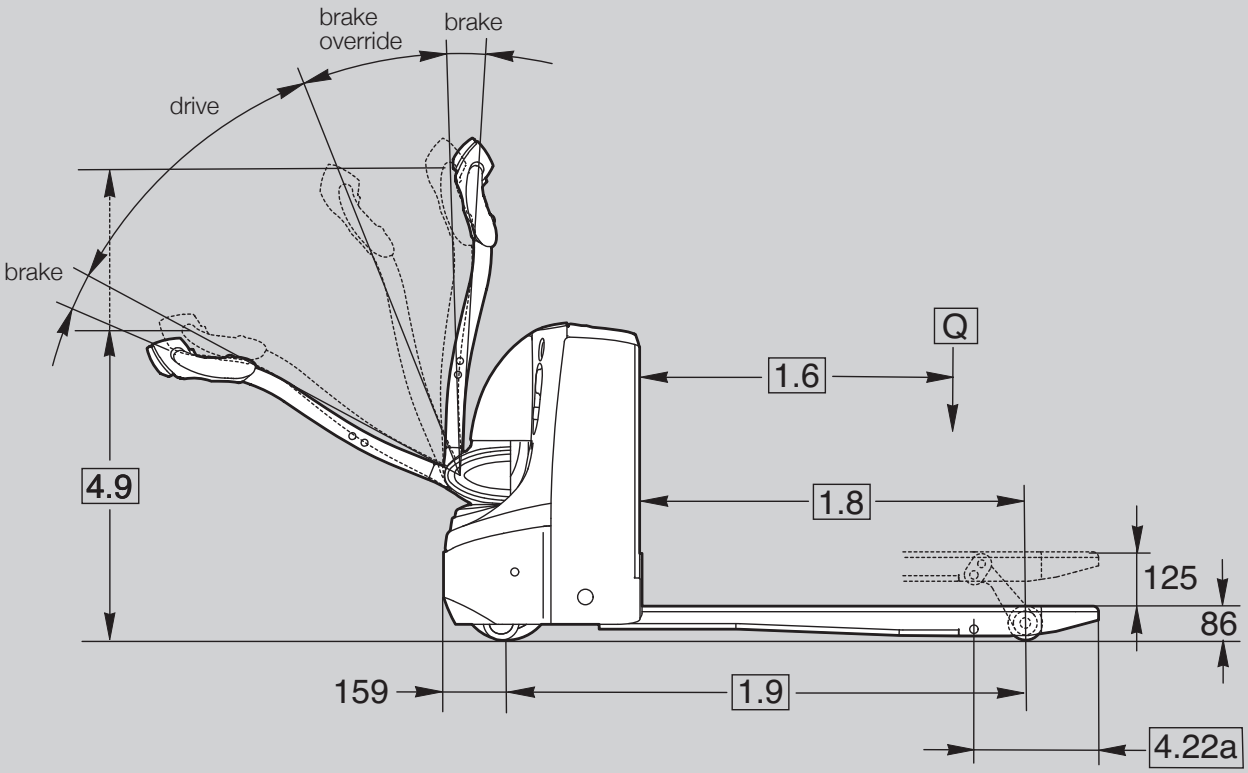
WP 3000 SERIES

Specifications

Pedestrian Pallet Truck

WP 3010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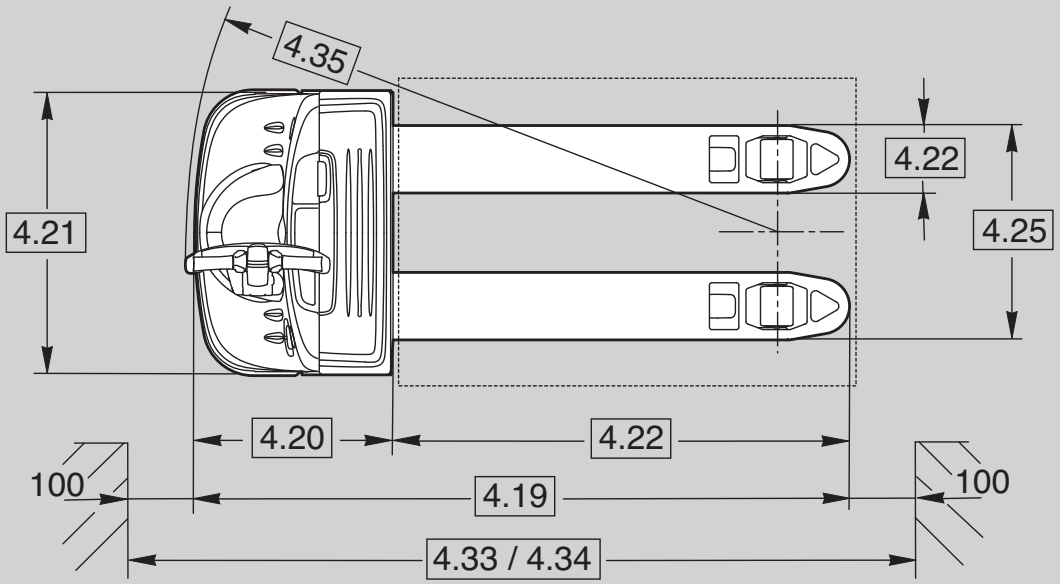
4.22a


4.35
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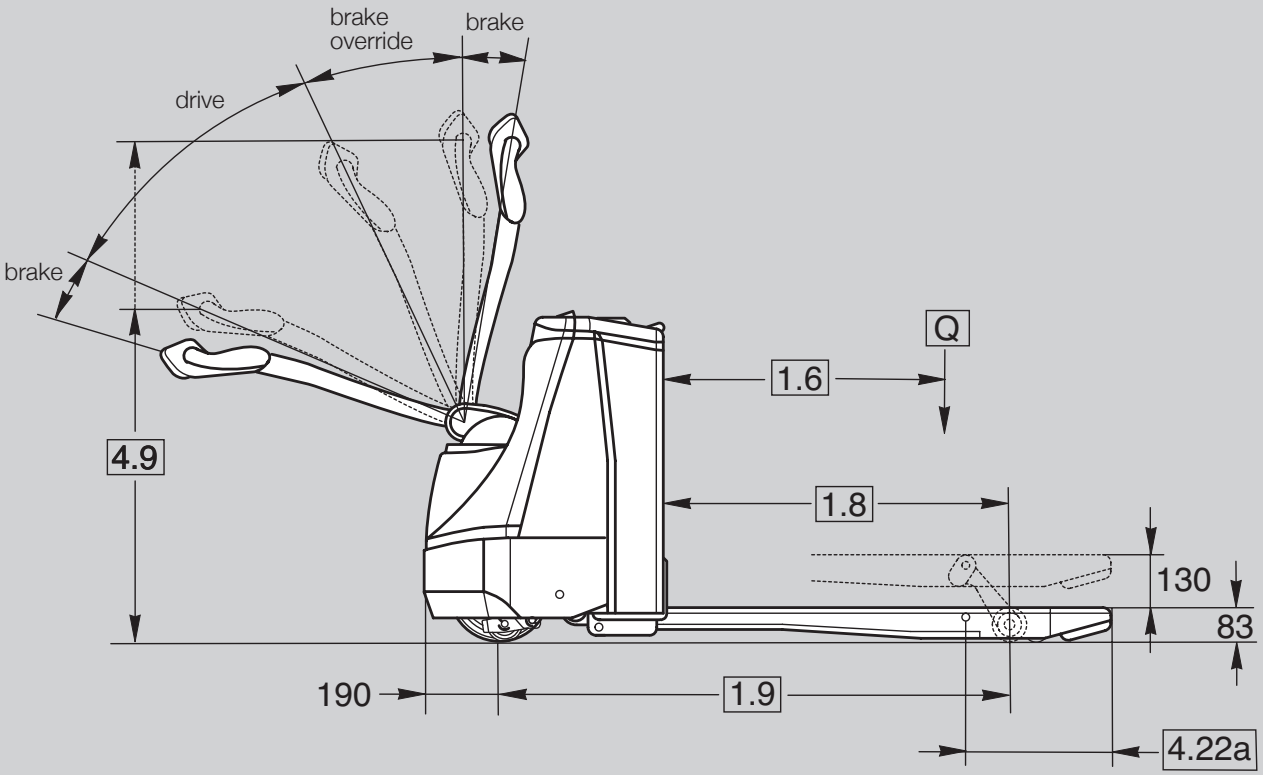
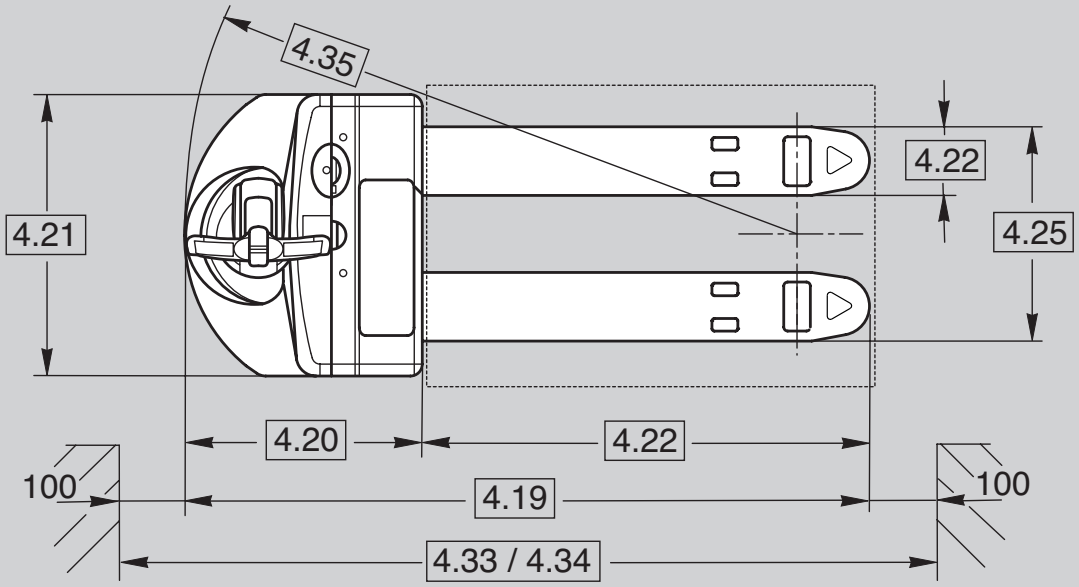
4.33 / 4.34

WP 3015 & WP 3020





General Information	1.1	**Manufacturer**				Crown Equipment Corporation	
	1.2	**Model**				WP 3015-1.6	WP 3020-2.0
	1.3	**Power**				electric	
	1.4	**Operator Type**				pedestrian	
	1.5	**Load Capacity**		Q	t	1.6	2.0
	1.6	**Load Centre**		c	mm	see table 1	
	1.8	**Load Distance**	raised	x	mm	see table 1	
	1.9	**Wheel Base**	raised	y	mm	see table 1	
Weights	2.1	**Weight**	less battery		kg	see table 1	
	2.2	**Axle Load**	w. load front/rear		kg	see table 1	
	2.3		w.o. load front/rear		kg	see table 1	
Tyres	3.1	**Tyre Type**				Vulkollan + PU	
	3.2	**Wheel Size**	front		mm	Ø 250 x 85	
	3.3		rear		mm	Ø 82 x 110	
	3.4	**Additional Wheels**	castor wheels		mm	Ø 90 x 50	
	3.5	**Wheels**	no. (x=driven) front/rear			1x + 2/2	
	3.6	**Track Width**	front	b_{10}	mm	476	
	3.7		rear	b_{11}	mm	350 / 370 / 500	
Dimensions	4.4	**Lift Height**		h_3	mm	130	
	4.9	**Tiller Arm Height**	in drive position min./max.	h_{14}	mm	780 / 1197 (1268)	
	4.15	**Fork Height**	lowered	h_{13}	mm	83	
	4.19	**Overall Length**		l_1	mm	see table 1	
	4.20	**Headlength** [3] [4] [5] [6]	lowered	l_2	mm	546 (611)	611 (686)
	4.21	**Overall Width**		b_1	mm	712	
	4.22	**Fork Dimension**		thxwxl	mm	77 x 170 x 1150	
	4.22a	**Fork Tip Length**			mm	368	
	4.25	**Width Across Forks**		b_5	mm	520 / 540 / 670	
	4.32	**Ground Clearance**	centre wheelbase	m_2	mm	28	
	4.33	**Working Aisle Width** * [4] [5] [6]	pallet 1000x1200 transverse, raised	Ast	mm	1964	2029
	4.34	**Working Aisle Width** ** [4] [5] [6]	pallet 800x1200 length, raised	Ast	mm	1941	2006
	4.35	**Turning Radius**	raised	Wa	mm	see table 1	
Performance	5.1	**Travel Speed**	w./w.o. load		km/h	5.5 / 6.0	
	5.2	**Lift Speed**	w./w.o. load		m/s	0.04 / 0.06	
	5.3	**Lowering Speed**	w./w.o. load		m/s	0.06 / 0.06	
	5.8	**Max. Gradeability**	w./w.o. load 5 min. rating		%	10 / 25	
	5.10	**Service Brake**				electric	
Motors	6.1	**Traction Motor**	rating at S2 60 min. / H-class		kW	1.5	
	6.2	**Lift Motor**	rating at S3 15 %		kW	1.3	
	6.3	**Max. Battery Box Size**		lxwxh	mm	146 x 660 x 604 [10] (212 x 624 x 627) [11]	212 x 624 x 627 [11] (284 x 624 x 627) [11]
	6.4	**Battery Voltage**	nominal capacity K5		V/Ah	24 / 150 (250)	24 / 250 (375)
	6.5	**Battery Weight**			kg	153 (212)	212 (309)
	8.1	**Type of Controller**	drive			transistor	

Table 1					**WP 3015-1.6**				**WP 3020-2.0**									
1.6	**Load Centre**		c	mm	400	500	600	600	400	500	600	600	700	800	800	900	1000	1200
1.8	**Load Distance** [1]	raised	x	mm	544	744	894	944	544	744	894	944	1144	1244	1344	1544	1744	2144
1.9	**Wheel Base** [2] [4] [5] [6]	raised	y	mm	900	1100	1250	1300	965	1165	1315	1365	1565	1665	1765	1965	2165	2565
2.1	**Weight** [9]	less battery		kg	315	320	323	325	315	320	323	325	334	349	354	366	383	407
2.2	**Axle Load** [9]	w. load	front	kg	562	606	670	670	725	788	829	881	955	959	1020	1069	1030	940
			rear	kg	1506	1467	1406	1408	1802	1744	1706	1656	1591	1597	1546	1509	1395	1209
2.3	**Axle Load** [9]	w.o. load	front	kg	331	344	356	358	394	409	417	421	436	444	454	467	483	504
			rear	kg	127	119	110	110	133	123	118	116	110	112	112	111	112	115
4.19	**Overall Length** [3] [4] [5] [6]	lowered	l1	mm	1346	1546	1696	1746	1411	1611	1761	1811	2011	2111	2211	2411	2611	3011
4.22	**Fork Length**		l	mm	**800**	**1000**	**1150**	**1200**	**800**	**1000**	**1150**	**1200**	**1400**	**1500**	**1600**	**1800**	**2000**[7]	**2400**[8]
4.35	**Turning Radius** [2] [4] [5] [6]	raised	Wa	mm	1088	1288	1438	1488	1153	1353	1503	1553	1753	1853	1953	2153	2353	2753

[1] Forks lowered +56 mm
[2] Forks lowered +72 mm
[3] Forks raised +16 mm
[4] with optional battery roll out +32 mm
[5] with optional load backrest +50 mm
[6] add 65 mm for 250 Ah compartment at WP 3015, add 75 mm for 375 Ah compartment at WP 3020
[7] Capacity derated to 1830 kg
[8] Capacity derated to 1500 kg
[9] all weights apply to small battery compartments
[10] Layout A, cell type acc. to BS
[11] Layout B, cell type acc. to DIN 43535
***** Ast calculation based on 1000 mm forks
****** Ast calculation based on 1150 mm forks
with optional larger battery compartments use values in brackets

General Information	1.1	**Manufacturer**				Crown Equipment Corporation
	1.2	**Model**				WP 3010-1.6
	1.3	**Power**				electric
	1.4	**Operator Type**				pedestrian
	1.5	**Load Capacity**		Q	t	1.6
	1.6	**Load Centre**		c	mm	see table 1
	1.8	**Load Distance** [1]	raised	x	mm	see table 1
	1.9	**Wheel Base** [1]	raised	y	mm	see table 1
Weights	2.1	**Weight**	less battery		kg	see table 1
	2.2	**Axle Load**	w. load front/rear		kg	see table 1
	2.3		w.o. load front/rear		kg	see table 1
Tyres	3.1	**Tyre Type**				Vulkollan + PU
	3.2	**Wheel Size**	front		mm	Ø 230 x 70
	3.3		rear		mm	Ø 82 x 100
	3.4	**Additional Wheels**	castor wheels		mm	2x Ø 90 x 50
	3.5	**Wheels**	no. (x=driven) front/rear			1x + 2/2
	3.6	**Track Width**	front	b_{10}	mm	484
	3.7		rear	b_{11}	mm	350 / 370 / 500
Dimensions	4.4	**Lift Height**		h_3	mm	125
	4.9	**Tiller Arm Height**	in drive position min./max.	h_{14}	mm	780 / 1156 (1188)
	4.15	**Fork Height**	lowered	h_{13}	mm	86
	4.19	**Overall Length**		l_1	mm	see table 1
	4.20	**Headlength**		l_2	mm	500
	4.21	**Overall Width** [2]		b_1	mm	720
	4.22	**Fork Dimension**		thxwxl	mm	74 x 170 x 1150
	4.22a	**Fork Tip Length**			mm	314
	4.25	**Width Across Forks**		b_5	mm	520 / 540 / 670
	4.32	**Ground Clearance**	centre wheelbase	m_2	mm	28
	4.33	**Working Aisle Width ***	pallet 1000x1200 transverse, raised	Ast	mm	1948
	4.34	**Working Aisle Width ****	pallet 800x1200 length, raised	Ast	mm	1926
	4.35	**Turning Radius** [1]	raised	Wa	mm	see table 1
Performance	5.1	**Travel Speed**	w./w.o. load		km/h	6.0 / 6.0
	5.2	**Lift Speed**	w./w.o. load		m/s	0.04 / 0.05
	5.3	**Lowering Speed**	w./w.o. load		m/s	0.05 / 0.05
	5.8	**Max. Gradeability**	w./w.o. load 5 min. rating		%	10 / 25
	5.10	**Service Brake**				electric
Motors	6.1	**Traction Motor**	rating at S2 60 min.		kW	1.2
	6.2	**Lift Motor**	rating at S3 10%		kW	1.0
	6.3	**Max. Battery Box Size** [3]		lxwxh	mm	146 x 660 x 604
	6.4	**Battery Voltage**	nominal capacity K5		V/Ah	24 / 150
	6.5	**Battery Weight**			kg	125 - 160
	8.1	**Type of Controller**	drive			transistor

Table 1					**WP 3010-1.6**					
1.6	**Load Centre**		c	mm	400	500	600	600	600	700
1.8	**Load Distance** [1]	raised	x	mm	556	756	906	956	1056	1156
1.9	**Wheel Base** [1]	raised	y	mm	897	1097	1247	1297	1397	1497
2.1	**Weight**	less battery		kg	279	283	288	290	293	295
2.2	**Axle Load**	w. load	front	kg	579	695	728	779	869	840
			rear	kg	1456	1344	1316	1267	1180	1211
2.3	**Axle Load**	w.o. load	front	kg	301	322	335	339	347	353
			rear	kg	134	117	109	106	103	99
4.19	**Overall Length**		l1	mm	1300	1500	1650	1700	1800	1900
4.22	**Fork Length**		l	mm	**800**	**1000**	**1150**	**1200**	**1300**	**1400**
4.35	**Turning Radius** [1]	raised	Wa	mm	1080	1280	1430	1480	1580	1680

***** Ast calculation based on 1000 mm forks
****** Ast calculation based on 1150 mm forks

[1] Forks lowered +61 mm
[2] with load backrest +12 mm
[3] Layout A, cell type acc. to BS

Standard Equipment

1. X10® control handle places all truck functions at the operator's fingertips
2. 24-Volt fused electrical system
3. e-GEN® Braking System offers regenerative and frictionless electric braking
4. Electric parking brake
5. Maintenance free 3-phase (AC) traction motor
6. 150 Ah battery compartment (WP 3010, WP 3015); 250 Ah battery compartment (WP 3020)
7. Rabbit/turtle switch incorporates two levels of programmable travel performance
8. Brake override zone, travel possible in upper brake zone at creep speed
9. Key switch
10. Horn button in each handgrip
11. Battery connector SBE 160 red
12. Emergency disconnect
13. Vulkollan drive tyre and single load wheels
14. Spring-loaded polyurethane castor wheels
15. Safety reverse switch
16. Battery discharge indicator with lift lockout and integrated hourmeter and fault code readout
17. Ramp hold
18. Steel covers
19. Fork tip indicators

Optional Equipment

1. 250 Ah battery compartment (WP 3015); 375 Ah battery compartment (WP 3020)
2. Battery connector DIN 160 A
3. Freezer conditioning -30°C operating temperature (WP 3015, WP 3020)
4. Fork length and spread options
5. Battery roll out function to both sides (250 Ah and 375 Ah compartment only, increases headlength by 32 mm; not with load backrest)
6. Rubber drive wheel
7. Sipped rubber drive wheel (WP 3015, WP 3020)
8. SuperTrac® drive wheel
9. Vulkollan® tandem load wheels
10. On-board charger 35 Amp (WP 3010)
11. Sealed on-board charger 30 Amp (WP 3015, WP 3020, 150 Ah and 250 Ah compartments only)
12. Keypad
13. InfoLink® Ready (WP 3010 requires load backrest)
14. Load backrest (WP 3015, WP 3020, lift out only, increases headlength by 50 mm) (WP 3010 increases overall width by 12 mm)
15. Special paint
16. Welded fork marks
17. Pallet entry rollers (only with single load wheels)
18. Work Assist™ Accessories

Frame & Chassis

The optimised steel structure for the chassis and fork assembly features a 5 year warranty. Removable steel covers ensure internal components are protected against impacts yet easily accessible for service.

Wheels and Tyres

The adjustable polymer dampers of the castors give the drive wheel excellent grip and provide the truck with optimum stability. The Vulkollan load wheels incorporate a debris cover to protect the bearing.

Electrical System and e-GEN® Braking

A heavy-duty 24-volt fused electrical system provides optimum travel and lift speeds. The transistor control is sealed from dirt, dust and moisture for trouble-free operation. An on-board diagnostic system reduces troubleshooting times to a minimum. An optional handset allows various performance levels to be tailored to the requirements of the customer and application.

The e-GEN® braking system utilises the power of the high-torque AC traction motor to stop the truck and keep it static until a travel input is requested, even when operating on a gradient.

Drive unit

The heavy duty gearbox is designed for minimum noise. A rugged helical gear set delivers trouble free operation and long life. The transistor control module works in conjunction with the AC drive motor to provide responsive acceleration and precise control.

Battery and Charger

The battery is safely located in a fully enclosed battery compartment. The battery and connector are easily accessible. The battery lid can be easily hinged open or removed. Optional on-board chargers are available.

Hydraulic Lift System

The heavy-duty hydraulic motor with integral pump and reservoir provide efficiency and durability. The flow control valve allows for smooth lowering even when the truck is fully loaded. A relief valve protects the components and chassis from overloading.

The lift limit switch avoids unnecessary energy consumption, reduces noise emissions and prevents the lift linkage from undue stress.

Operator Controls

The WP's robust X10® control handle is designed to allow for an optimum turning radius with low steer effort. All control buttons can be operated with either hand and can be accessed with minimum hand and wrist movement. The horn buttons are integrated in the hand grips. An ergonomic forward/reverse thumb wheel allows for precise speed control.

A rabbit/turtle switch allows operators to select a travel speed range to match operating conditions.

Brake Override Function

For easy operation in tight areas a brake override function is incorporated, which allows the WP to be driven safely and precisely at creep speed with the handle in a near vertical position.

Safety Regulations

Conforms to European safety standards.

Dimensions and performance data given may vary due to manufacturing tolerances. Performance is based on an average size vehicle and is affected by weight, condition of truck, how it is equipped and the conditions of the operating area. Crown products and specifications are subject to change without notice.

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