

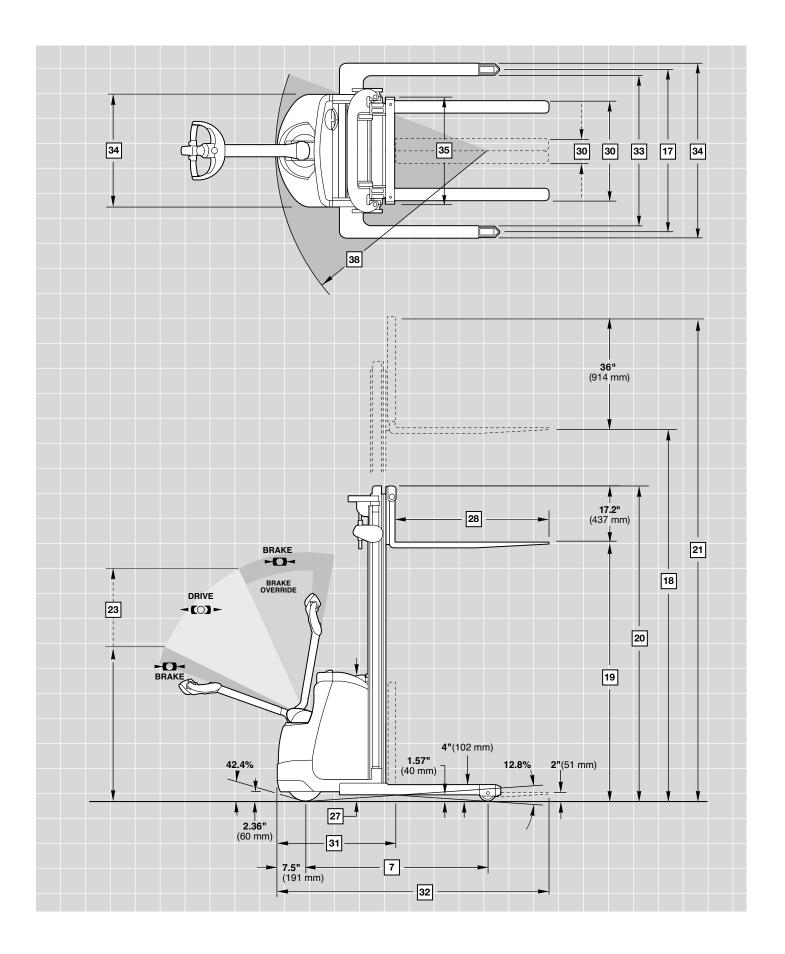
# ST 3000 SERIES

# **Specifications**

Stackers







					imperial	metric			
<u> </u>	1	Manufacturer			Crown Equipment Corporation				
General Miorination	2	Model			ST 3000-25				
Ĕ		Mast Type		in mm	TL-128	TL-3236			
5	3				Electric				
	4	Operator Type				ılkie			
₹	5		Max	lb kg	2500	1134			
ַ עַ	6			in mm	24	600			
ַנַ	7	Wheelbase		in mm	49	1255			
וי	8	Weight Less Battery	V/ II - II -	lb kg	1856	842			
	13	Wheel Size Front (d × w)	Vulkollan Rubber	in mm	10 × 3.35 10 × 4	254 x 85 254 x 100			
ł			Vulkollan	in mm	4 × 2	102 x 50			
,	14	Wheel Size Rear (d × w)	Steel	in mm in mm	4 × 2 4 × 2	102 x 50			
3		A alaliki a a al Mila a ala	Steel	111 111111	4 x Z	102 X 30			
-	15	Additional Wheels Caster Wheel (d × w)	Poly	in mm	$3.54 \times 2$ $90 \times 50$				
Ì	16	Wheels Number (x=driven)	Front/Rear		1x	: /2			
_	17	Track Width	Rear	in mm	Inside Straddle + 3	Inside Straddle + 76			
7	18	Lift Height		in mm	127.4	3236			
Ì			24" (600 mm) Load Center	lb kg	2500	1134			
	18a	Capacity at Lift Height	26" (660 mm) Load Center		2300	1043			
	ıua	Capacity at List ricigist	28" (711 mm) Load Center		2130	966			
ļ			30" (762 mm) Load Center		1980	898			
ļ	19		w/o Load Backrest	in mm	6	152			
	20	Collapsed Height		in mm	83	2108			
	21	Extended Height	w/o Load Backrest	in mm	Lift Height + 17.2	Lift Height + 436			
ŀ	22	Load Backrest Width	w/Load Backrest Load Backrest Height 36"	in mm	Lift Height + 36 36/42/48	Lift Height + 914 914/1067/1219			
.	23	Tiller Arm Ht in Drive Position	(914) High Min/Max	in mm in mm	31.1/47.5	790/1206			
5	24		IVIII // IVICA	in mm	4	100			
1	25	Lowered Fork Height		in mm	2	51			
1	27	Power Unit Height		in mm	32.28	820			
	28			in mm	36/42/48	914/1067/1219			
'	29		Thickness × Width	in mm	1.5 × 3	38 x 76			
Ì	30		Adjustable Min/Max	in mm	6.57 - 24.8	167-630			
Ì	31	Headlength		in mm	32.24	819			
Ì	32	Overall Length				Fork Length			
İ	33	Inside Straddle		in mm	38-50	965-1270			
Ì	0.4	Overell Width	Front	in mm	28.03	712			
	34	Overall Width	Rear	in mm	Inside Straddle + 6.4	Inside Straddle + 162			
	35	Fork Carriage Width		in mm	26.57	675			
	36	Ground Clearance	w/Load below Mast	in mm)	1.57	40			
	37		Center Wheelbase	in mm	1.57	40			
4	38			in mm	56.73	1446			
-	39	3	/	in mm	60.28	1536			
	40	Travel Speed	w/wo Load	mph km/h	3.11/3.42	5.0/5.5			
	41	Lift Speed Lowering Speed 1	w/wo Load w/wo Load	fpm m/s fpm m/s	21.65/35.43 51.18/49.21	.12/.18 .26/.25			
	42	Lowering Speed 1 Lowering Speed 2		fpm m/s	19.69/11.81	.10/.06			
		Lowering Speed 2	w/wo Load w/wo Load, 60 min Rating	ipm m/s	2.4	4.5			
	43	Gradeability	w/wo Load, 30 min Rating	%	4.9	9.1			
	44	Max Gradeability	w/wo Load, 5 min Rating	%	8.4	15.7			
4	45	Service Brake				ctric			
	46	Maximum Battery Box	L×W×H	in mm	7.28 × 25.55 × 24.13 (w/No Clearance)	185 x 649 x 613 (w/No Clearance)			
			4x Automotive Starter	V/Ah	24	87			
	47	Battery Voltage (Nominal	2x 12v MF	V/Ah	24	95			
١.	41	Capacity 6 Hour Rating)	4x Semi-industrial	V/Ah	24	156			
•			4x 6v MF	V/Ah	24	195			
ĺ	48	Type of Controller	Drive			sistor			
			4x Automotive Starter	lb kg	128	58			
	49	Battery Weight	2x 12v MF	lb kg	132	60			
	.0		4x Semi-industrial 4x 6v MF	lb kg lb kg	220 267	100			
						121			

				Γ	imperial	metric			
	1	Manufacturer		Crown Equipment Corporation					
General Information	2	Model			ST 30				
lα		Mast Type		in mm	TT-154	TT-3912			
0	3	Power			Elec				
宣	4	Operator Type			Wa				
<u>=</u>	5	Load Capacity	Max	lb kg	2500	1134			
ē	6	Load Center		in mm	24	600			
ē	7	Wheelbase		in mm	49	1255			
0	8	Weight Less Battery	N/ H = H = -	lb kg	2048	929			
	13	Wheel Size Front (d x w)	Vulkollan Rubber	in mm	10 x 3.35 10 x 4	254 x 85 254 x 100			
			Vulkollan	in mm in mm	4 x 2	102 x 50			
ဖွ	14	Wheel Size Rear (d × w)	Steel	in mm	4 x 2	102 x 50			
Tires		Additional Wheels							
-	15	Caster Wheel (d × w)	Poly	in mm	3.54 x 2	90 x 50			
	16	Wheels Number (x=driven)	Front/Rear		1x/2				
	17	Track Width	Rear	in mm	Inside Straddle + 3	Inside Straddle + 76			
	18	Lift Height		in mm	154	3912			
		J	24" (600 mm) Load Center	lb kg	2500	1134			
	100	Capacity at Lift Usiant	26" (660 mm) Load Center	lb kg	2300	1043			
	ıda	Capacity at Lift Height	28" (711 mm) Load Center	lb kg	2130	966			
			30" (762 mm) Load Center lb kg		1980	898			
	_	Free Lift	w/o Load Backrest in n		56	1422			
	20	Collapsed Height		in mm	73	1858			
	21	Extended Height	w/o Load Backrest	in mm	Lift Height + 17.2	Lift Height + 436			
			w/Load Backrest Load Backrest Height 36"	in mm	Lift Height + 36	Lift Height + 914			
	22	Load Backrest Width	(914) High	in mm	36/42/48	914/1067/1219			
က္က	23	Tiller Arm Ht in Drive Position		in mm	31.1/47.5	790/1206			
Dimensions	24	Outrigger Height	IVIII I/ IVIAA	in mm	4	100			
ısı		Lowered Fork Height		in mm	2	51			
e l	27	Power Unit Height		in mm	32.28	820			
ᡖ	28	Fork Lengths		in mm	36/42/48	914/1067/1219			
<del>-</del>	29	Fork Dimensions	Thickness × Width	in mm	1.5 × 3	38 x 76			
	30	Width Across Forks	Adjustable Min/Max	in mm	6.57 - 24.8	167-630			
	31	Headlength		in mm	32.95	837			
	32	Overall Length			Headlength -				
	33	Inside Straddle	Front	in mm	<u>38-50</u> 28.03	965-1270 712			
	34	Overall Width	Front Rear	in mm in mm	Inside Straddle + 6.4	Inside Straddle + 162			
	35	Fork Carriage Width	neal	in mm	26.57	675			
	36	· ·	w/Load below Mast	in mm)	1.57	40			
	37	Ground Clearance	Center Wheelbase	in mm	1.57	40			
	38	Turning Radius		in mm	56.73	1446			
	39	Length w/Outriggers		in mm	60.28	1536			
a	40	Travel Speed	w/wo Load	mph km/h	3.11/3.42	5.0/5.5			
٥	41	Lift Speed	w/wo Load	fpm m/s	21.65/35.43	.12/.18			
пa	42	Lowering Speed 1	w/wo Load	fpm m/s	51.18/49.21	.26/.25			
P.		Lowering Speed 2	w/wo Load 60 min Rating	fpm m/s	19.69/11.81	.10/.06			
Performance	43	Gradeability	w/wo Load, 60 min Rating w/wo Load, 30 min Rating	% %	2.4 4.9	<u>4.5</u> 9.1			
4	44	Max Gradeability	w/wo Load, 50 min Rating	%	8.4	15.7			
	45	Service Brake	THE TOTAL COURT OF THE TENENTS	/0		otric			
Н			1. \\\ 1.1		7.28 × 25.55 × 24.13	185 x 649 x 613			
	46	Maximum Battery Box	L×W×H	in mm	(w/No Clearance)	(w/No Clearance)			
			4x Automotive Starter	V/Ah	24	87			
	47	Battery Voltage (Nominal	2x 12v MF	V/Ah	24	95			
Battery		Capacity 6 Hour Rating)	4x Semi-industrial	V/Ah	24	156			
ij			4x 6v MF	V/Ah	24	195			
m	48	Type of Controller	Drive	p. r.		sistor			
			4x Automotive Starter	lb kg	128	58			
	49	Battery Weight	2x 12v MF	lb kg	132	60			
			4x Semi-industrial 4x 6v MF	lb kg lb kg	220 267	100 121			
ш			TA UV IVII	in kg	201	121			

					imperial	metric			
_	1	Manufacturer			•	ent Corporation			
General Information	2					000-25			
na I		Mast Type		in mm	TT-168	TT-4267			
Ĕ	3				Elec	otric			
뒫	4					ılkie			
≣∣	5		Max	lb kg	2500	1134			
25	6	Load Center		in mm	24	600			
בֻּ	7	Wheelbase		in mm	49	1255			
<u>წ</u>	8	Weight Less Battery		lb kg	2048	929			
			Vulkollan	in mm	10 x 3.35	254 x 85			
	13	Wheel Size Front (d × w)	Rubber	in mm	10 x 4	254 x 100			
Ì		un 10: 5 (1 )	Vulkollan	in mm	4 x 2	102 x 50			
တ္က	14	Wheel Size Rear (d × w)	Steel	in mm	4 x 2	102 x 50			
lires	15	Additional Wheels Caster Wheel (d × w)	Poly	in mm	3.54 x 2	90x50			
Ì	16	Wheels Number (x=driven)	Front/Rear		1 x /2				
ŀ	17	Track Width	Rear	in mm	Inside Straddle + 3	Inside Straddle + 76			
		Lift Height		in mm	168	4267			
ł			24" (600 mm) Load Center	lb kg	2500	1134			
			26" (660 mm) Load Center	lb kg	2300	1043			
	18a	Capacity at Lift Height	28" (711 mm) Load Center	lb kg	2130	966			
			30" (762 mm) Load Center	lb kg	1980	898			
ŀ	19	Free Lift	w/o Load Backrest	in mm	56	1422			
ł	20	Collapsed Height		in mm	73	1858			
ı			w/o Load Backrest	in mm	Lift Height + 17.2	Lift Height + 436			
	21	Extended Height	w/Load Backrest	in mm	Lift Height + 36	Lift Height + 914			
	22	Load Backrest Width	Load Backrest Height 36" (914) High	in mm	36/42/48	914/1067/1219			
<u>ب</u>	23	Tiller Arm Ht in Drive Position	Min/Max	in mm	31.1/47.5	790/1206			
<u> </u>	24			in mm	4	100			
Dimensions		Lowered Fork Height		in mm	2	51			
일	27			in mm	32.28	820			
	28			in mm	36/42/48	914/1067/1219			
╸╽	29		Thickness × Width	in mm	1.5 × 3	38 x 76			
Ì	30	Width Across Forks	Adjustable Min/Max	in mm	6.57 - 24.8	167-630			
Ì	31		.,	in mm	32.95	837			
Ì	32				Headlength -	Fork Length			
Ì	33			in mm	38-50	965-1270			
Ì	0.4	O II M/C . III.	Front	in mm	28.03	712			
l	34	Overall Width	Rear	in mm	Inside Straddle + 6.4	Inside Straddle + 162			
Ì	35	Fork Carriage Width		in mm	26.57	675			
Ì	36	Ground Clearance	w/Load below Mast	in mm)	1.57	40			
İ	37		Center Wheelbase	in mm	1.57	40			
	38			in mm	56.73	1446			
٦	39	Length w/Outriggers		in mm	60.28	1536			
<sub>0</sub> [	40		w/wo Load	mph km/h	3.11/3.42	5.0/5.5			
- T	41	L'O O							
일			w/wo Load	fpm m/s	21.65/35.43	.12/.18			
	49	Lowering Speed 1	w/wo Load	fpm m/s	51.18/49.21	.26/.25			
rmanc	42	Lowering Speed 1	w/wo Load w/wo Load	fpm m/s fpm m/s	51.18/49.21 19.69/11.81	.26/.25 .10/.06			
погтапс		Lowering Speed 1 Lowering Speed 2	w/wo Load w/wo Load, 60 min Rating	fpm m/s fpm m/s %	51.18/49.21 19.69/11.81 2.4	.26/.25 .10/.06 4.5			
Feriormanc	43	Lowering Speed 1 Lowering Speed 2 Gradeability	w/wo Load w/wo Load w/wo Load, 60 min Rating w/wo Load, 30 min Rating	fpm m/s fpm m/s %	51.18/49.21 19.69/11.81 2.4 4.9	.26/.25 .10/.06 4.5 9.1			
renormanc	43	Lowering Speed 1 Lowering Speed 2 Gradeability Max Gradeability	w/wo Load w/wo Load, 60 min Rating	fpm m/s fpm m/s %	51.18/49.21 19.69/11.81 2.4 4.9 8.4	.26/.25 .10/.06 4.5 9.1 15.7			
Leiloillalic	43	Lowering Speed 1 Lowering Speed 2 Gradeability Max Gradeability	w/wo Load w/wo Load w/wo Load, 60 min Rating w/wo Load, 30 min Rating	fpm m/s fpm m/s %	51.18/49.21 19.69/11.81 2.4 4.9 8.4	.26/.25 .10/.06 4.5 9.1 15.7			
renormano	43	Lowering Speed 1 Lowering Speed 2 Gradeability Max Gradeability Service Brake	w/wo Load w/wo Load, 60 min Rating w/wo Load, 30 min Rating w/wo Load, 5 min Rating L×W×H	fpm m/s fpm m/s % % %	51.18/49.21 19.69/11.81 2.4 4.9 8.4 Electory 7.28 × 25.55 × 24.13 (w/No Clearance)	.26/.25 .10/.06 4.5 9.1 15.7 ctric 185 x 649 x 613 (w/No Clearance)			
reriormanc	43 44 45	Lowering Speed 1 Lowering Speed 2 Gradeability Max Gradeability Service Brake Maximum Battery Box	w/wo Load w/wo Load, 60 min Rating w/wo Load, 30 min Rating w/wo Load, 5 min Rating w/wo Load, 5 min Rating LxWxH 4x Automotive Starter	fpm m/s fpm m/s % % % in mm	51.18/49.21 19.69/11.81 2.4 4.9 8.4 Elector 7.28 × 25.55 × 24.13 (w/No Clearance) 24	.26/.25 .10/.06 4.5 9.1 15.7 ctric 185 x 649 x 613 (w/No Clearance) 87			
	43 44 45 46	Lowering Speed 1 Lowering Speed 2 Gradeability Max Gradeability Service Brake Maximum Battery Box Battery Voltage (Nominal	w/wo Load w/wo Load, 60 min Rating w/wo Load, 30 min Rating w/wo Load, 5 min Rating w/wo Load, 5 min Rating  L×W×H  4x Automotive Starter 2x 12v MF	fpm m/s fpm m/s % % % in mm V/Ah V/Ah	51.18/49.21 19.69/11.81 2.4 4.9 8.4 Elector 7.28 × 25.55 × 24.13 (w/No Clearance) 24 24	.26/.25 .10/.06 4.5 9.1 15.7 ctric 185 x 649 x 613 (w/No Clearance) 87			
	43 44 45	Lowering Speed 1 Lowering Speed 2 Gradeability Max Gradeability Service Brake Maximum Battery Box	w/wo Load w/wo Load, 60 min Rating w/wo Load, 30 min Rating w/wo Load, 5 min Rating w/wo Load, 5 min Rating  L×W×H  4x Automotive Starter 2x 12v MF  4x Semi-industrial	fpm m/s fpm m/s % % % in mm V/Ah V/Ah	51.18/49.21 19.69/11.81 2.4 4.9 8.4 Electric 7.28 × 25.55 × 24.13 (w/No Clearance) 24 24 24	.26/.25 .10/.06 4.5 9.1 15.7 ctric 185 x 649 x 613 (w/No Clearance) 87 95 156			
	43 44 45 46 47	Lowering Speed 1 Lowering Speed 2 Gradeability Max Gradeability Service Brake Maximum Battery Box Battery Voltage (Nominal Capacity 6 Hour Rating)	w/wo Load w/wo Load, 60 min Rating w/wo Load, 30 min Rating w/wo Load, 5 min Rating w/wo Load, 5 min Rating  L×W×H  4x Automotive Starter 2x 12v MF  4x Semi-industrial 4x 6v MF	fpm m/s fpm m/s % % % in mm V/Ah V/Ah	51.18/49.21 19.69/11.81 2.4 4.9 8.4 Electric 7.28 × 25.55 × 24.13 (w/No Clearance) 24 24 24 24	.26/.25 .10/.06 4.5 9.1 15.7 ctric 185 x 649 x 613 (w/No Clearance) 87 95 156			
	43 44 45 46	Lowering Speed 1 Lowering Speed 2 Gradeability Max Gradeability Service Brake Maximum Battery Box Battery Voltage (Nominal Capacity 6 Hour Rating)	w/wo Load w/wo Load, 60 min Rating w/wo Load, 30 min Rating w/wo Load, 3 min Rating w/wo Load, 5 min Rating L×W×H  4x Automotive Starter 2x 12v MF 4x Semi-industrial 4x 6v MF Drive	fpm m/s fpm m/s % % % % in mm V/Ah V/Ah V/Ah V/Ah	51.18/49.21 19.69/11.81 2.4 4.9 8.4 Electric 7.28 × 25.55 × 24.13 (w/No Clearance) 24 24 24 24 24 24	.26/.25 .10/.06 4.5 9.1 15.7 ctric 185 x 649 x 613 (w/No Clearance) 87 95 156 195			
	43 44 45 46 47	Lowering Speed 1 Lowering Speed 2 Gradeability Max Gradeability Service Brake Maximum Battery Box Battery Voltage (Nominal Capacity 6 Hour Rating)	w/wo Load w/wo Load, 60 min Rating w/wo Load, 30 min Rating w/wo Load, 3 min Rating w/wo Load, 5 min Rating  L×W×H  4x Automotive Starter 2x 12v MF  4x Semi-industrial 4x 6v MF  Drive  4x Automotive Starter	fpm m/s fpm m/s % % % % in mm V/Ah V/Ah V/Ah lb kg	51.18/49.21 19.69/11.81 2.4 4.9 8.4 Electric 7.28 × 25.55 × 24.13 (w/No Clearance) 24 24 24 24 24 24 24	.26/.25 .10/.06 4.5 9.1 15.7 ctric 185 x 649 x 613 (w/No Clearance) 87 95 156 195			
	43 44 45 46 47	Lowering Speed 1 Lowering Speed 2 Gradeability Max Gradeability Service Brake Maximum Battery Box Battery Voltage (Nominal Capacity 6 Hour Rating) Type of Controller	w/wo Load w/wo Load, 60 min Rating w/wo Load, 30 min Rating w/wo Load, 30 min Rating w/wo Load, 5 min Rating  L×W×H  4x Automotive Starter 2x 12v MF  4x Semi-industrial 4x 6v MF  Drive  4x Automotive Starter  2x 12v MF	fpm m/s fpm m/s % % % % in mm V/Ah V/Ah V/Ah U/Ah	51.18/49.21 19.69/11.81 2.4 4.9 8.4 Electric 7.28 × 25.55 × 24.13 (w/No Clearance) 24 24 24 24 24 24 21 21 21 22 21 21 22 21 22 21 21 22 21 21	.26/.25 .10/.06 4.5 9.1 15.7 ctric 185 x 649 x 613 (w/No Clearance) 87 95 156 195 sistor			
Battery Performance	43 44 45 46 47	Lowering Speed 1 Lowering Speed 2 Gradeability Max Gradeability Service Brake Maximum Battery Box Battery Voltage (Nominal Capacity 6 Hour Rating) Type of Controller	w/wo Load w/wo Load, 60 min Rating w/wo Load, 30 min Rating w/wo Load, 3 min Rating w/wo Load, 5 min Rating  L×W×H  4x Automotive Starter 2x 12v MF  4x Semi-industrial 4x 6v MF  Drive  4x Automotive Starter	fpm m/s fpm m/s % % % % in mm V/Ah V/Ah V/Ah lb kg	51.18/49.21 19.69/11.81 2.4 4.9 8.4 Electric 7.28 × 25.55 × 24.13 (w/No Clearance) 24 24 24 24 24 24 24	.26/.25 .10/.06 4.5 9.1 15.7 ctric 185 x 649 x 613 (w/No Clearance) 87 95 156 195			

#### **Technical Information**

#### Standard Equipment

- 24-volt fused electrical system
- 2. MOSFET transistorized traction control system
- 3. Separately excited drive motor (SEM)
- 4. X10® Handle
- Wet-cell starter battery pack, four 6-volt batteries at 87 amp hour
- 6. 30 amp fully automatic charger
- 7. Electric brake
- 8. Brake override
- 9. Anti-roll down
- 10. Regenerative motor braking
- 11. Heavy-duty drive unit
- 12. Drive unit enclosed in high ductile strength steel frame
- 13. Stamped steel power unit cover
- 14. Safety reversing button
- 15. 175-amp connector with disconnect handle
- 16. Color-coded wiring

- 17. High speed cut-out at lift height
- 18. Two pre-programmed performance levels
- 19. 10" x 3.35" wide (254 x 85 mm) Vulkollan drive tire
- 20. Vulkollan load wheels 4" x 2" wide (102 x 51 mm)
- 21. Adjustable outriggers
- 22. Battery compartment storage tray
- 23. Plexiglass mast guard
- 24. Horn
- 25. Key switch
- 26. Discharge indicator with hour meter and lift lockout

#### **Optional Equipment**

- 1. Rubber drive tire
- Non-marking rubber drive tire
- 3. Diamond siped rubber drive tire
- 4. Spring loaded poly casters
- 5. Handset analyzer for calibration or fault analyzing
- 6. 36" (915 mm) high load backrest

- Maintenance-free, semiindustrial or starter battery package
- Keyless on/off toggle switch in lieu of key switch
- 9. Steel load wheels
- 10. Wire mesh mast guard
- 11. Soft start hydraulic control
- 12. Work Assist® Accessories:
  - Clip pad and hook
  - Operator fan
  - Storage pocket
  - Remote raise/lower control
- 13. Work Assist® Options:
  - Work platform (37.5" W x 26" L) (953 x 660 mm)

Platform options:

- Work lights
- Operator fan
- Clip pad and hook
- Adjustable load tray
- Remote raise/lower control
- Casters
- Snap-on platform

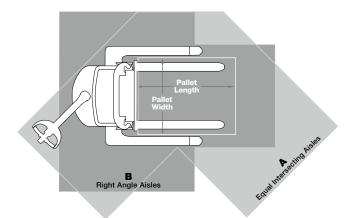
#### **Battery and Charger**

Battery package options are as follows:

- Maintenance-free battery pack, two 12-volt batteries at 95 amp hour four 6-volt batteries at 195 amp hour
- Semi-industrial deep cycle battery pack, four 6-volt batteries at 156 amp hour
- Wet-cell starter battery pack, four 6-volt batteries at 87 amp hour

Flooded battery packs have a slide-out feature to check water level of bottom batteries.

A built-in 30-amp charger is standard with all battery packs. This premium fan-cooled, solid-state charger is durable and efficient. It has an advanced memory feature to allow for opportunity charging. The charger can be set for either maintenance free, wet cell or industrial batteries. An extension cord is included with any truck equipped with the built-in battery charger.



#### ST 3000 Series

#### Aisle Planning Guide

ST 3000 - Right Angle and Intersecting Aisle

			Pallet Length in (mm)									
	Pallet Width		<b>30</b> (762)		<b>36</b> (915)		<b>40</b> (1016)		<b>42</b> (1067)		<b>48</b> (1220)	
			Α	В	Α	В	Α	В	Α	В	Α	В
	<b>36</b> 915	in mm	57.6 1463	62.9 1599	57.6 1463	62.9 1599	57.6 1463	62.9 1599	57.6 1463	62.9 1599	57.6 1463	68.4 1738
	<b>40</b> 1016	in mm	60.9 1546	64.0 1625	60.9 1546	64.0 1625	60.9 1546	64.0 1625	60.9 1546	64.0 1625	60.9 1546	68.6 1625
	<b>42</b> 1067	in mm	62.5 1588	64.5 1638	62.5 1588	64.5 1638	62.5 1588	64.5 1638	62.5 1588	64.5 1638	62.5 1588	68.7 1746
	<b>48</b> 1220	in mm	67.5 1715	69.0 1752	67.5 1715	69.0 1752	67.5 1715	69.0 1752	67.5 1715	69.0 1752	67.5 1715	72.0 1829

Add 6" (152 mm) to all aisle dimensions for maximum maneuverability.

#### **Operator Controls**

Crown's robust X10® Handle places all controls in the optimum position for ease of operation with either hand and to minimize hand and wrist movements. An ergonomic forward/reverse thumb wheel allows for precise maneuvering.

The control hand grips are urethane covered for insulation from cold and vibration. Horn buttons are integrated into the control handle for easy activation. The handle contains a safety button which reverses the direction of the truck should the button touch the operator.

The physical efforts to hold the handle at a comfortable height was minimized to reduce fatigue, a distinct advantage. The operator is positioned to maximize the steer effort and maintain excellent visibility.

The rabbit/turtle switch incorporates two levels of programmable travel performance to match operator experience and application environment.

Exclusive brake override allows slow speed travel with the handle near vertical. This feature improves maneuverability in tight areas.

### **Performance**

The ST 3000 Series benefits from Crown's design and engineering excellence.

The transistor control module works in conjunction with a new separately excited (SEM) drive motor to provide excellent acceleration and top travel speed loaded or empty. Transistor control is programmable for specific tasks or operator skill levels.

Smooth travel and lift combine with excellent controls to reduce product damage and increase productivity.

#### **Electrical System**

A heavy-duty 24-volt fused electrical system provides good travel and lift speeds.

Separately excited motor control eliminates directional contractors reducing maintenance and downtime.

The transistor control is sealed from dirt, dust and moisture for trouble-free operation. Transistor control features include over-temperature protection, polarity protection, self-test and visible diagnostics.

Regenerative motor braking is activated under a downhill condition, during plugging or when the directional control is returned to neutral. "Regen" reduces heat build-up and extends motor brush life

An anti-roll down feature will apply the brakes if the truck rolls without a travel command.

175-amp battery connector with standard disconnect handle.

#### **Hydraulic System**

Heavy-duty hydraulic motor (3.0 kw) with integral pump and reservoir for maximum efficiency and durability.

Single-speed lift and two-speed lowering is available to the operator.

Cylinder rods are hard-plated chrome with polyurethane seals.

Relief valve tuned to capacity protects all components in the hydraulic system.

#### **Drive Unit and Brakes**

Heavy-duty gearbox with spur gears for low noise emission.

Drive unit is equipped with an electromagnetic disc brake that is spring applied and electrically released. Brake is activated by the control handle position. Brake rotor and disc are easily accessed for inspection and

replacement. Regenerative motor braking assists brake effort and improves component life.

Drive unit mounts in truck frame with a permanently lubricated, twin-conical roller bearing that disperses load forces evenly, reducing maintenance and downtime.

#### Mast

High visibility two- and threestage mast design features nested I-beams and canted rollers. Lift cylinders are positioned in outer I-beam profile for best visibility through the mast and clear view onto fork tips during load handling. Mast cushioning between stages ensures smooth operation. Heavy-duty mast and chain rollers are sealed and lubricated for life. Mast design allows for easy access to carriage rollers.

#### **Fork Carriage**

ST 3000 Series feature 25" (635 mm) wide pin-type fork carriage. Forks are adjustable from 6.5" to 24.8" (165 to 630 mm). Standard fork lengths are 36", 42" and 48" (914, 1067 and 1219 mm).

#### Serviceability

One-piece steel power unit cover is removed easily for access to all major components.

Brake rotor and disc inspection and replacement are easy.

Drive motor brush access is excellent.

Color-coded wiring speeds troubleshooting and the transistor control module uses visible LED flashes for fault communication. Optional plug-in hand set analyzer for servicing and programming capability.

Control handle switch cap is easily removed to expose components.

#### Wheels and Tires

- Drive tire Vulkollan 10" dia x 3.35" wide (254 x 85 mm)
- Load wheels Vulkollan 4" dia x 2" wide (ST) (102 x 51 mm)
- Optional poly casters are 3.5" dia x 2" wide (89 x 51 mm)

#### **Other Options**

- 1. Audible travel alarm
- 2. Flashing lights

Safety considerations and dangers associated with audible travel alarms and flashing lights include:

- Multiple alarms and/or lights can cause confusion.
- Workers ignore the alarms and/or lights after day-in and day-out exposure.
- Operator may transfer the responsibility for "looking out" to the pedestrians.
- Annoys operators and pedestrians.

## Other Options Available Contact your local Crown dealer.

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.



You can count on Crown to build lift trucks designed for safe operation, but that's only part of the safety equation. Crown encourages safe operating practices through ongoing operator training, safety-focused supervision, maintenance and a safe working environment. Go to crown.com and view our

safety section to learn more.

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