









	1 1	Manufacturer				Crown	Equipment Corpo	ration				
풋	1.1					ETi 4000 – 1.2	ETi 4000 – 1.4	ETi 4000 – 1.6				
$\mathbb{R}$	1.2	Model				E114000 - 1.2		E114000 - 1.6				
ng	1.3	Power Source					electric					
shi	1.4	Operator Type					stand-on					
Destinguishing Mark	1.5	Rated Capacity 5		Q	t	1.2	1.4	1.6				
stin	1.6	Load Centre		С	mm		600					
Ģ	1.8	Load Distance <sup>6</sup>	TL-TF/TT, initial lift raised	Х	mm	943 / 919	938 / 914	906 / 882				
_	1.9	Wheelbase 7	initial lift raised	У	mm		1582					
	2.1	Service Weight			kg	see table 1	see table 2	see table 3				
μ	2.2	Avialand	with load	front	kg	see table 1	see table 2	see table 3				
Weight	2.2	Axle Load	with load	rear	kg	see table 1	see table 2	see table 3				
$\geq$			***	front	kg	see table 1	see table 2	see table 3				
	2.3	Axle Load	without load	rear	kg	see table 1	see table 2	see table 3				
<u>.o</u>	3.1	Tyres					Vulkollan					
ass	3.2	Tyre Size <sup>2</sup>	front		mm		Ø 230 x 70					
Ö	3.3	Tyre Size	rear		mm	1 × Ø 8	2 x 100	2x Ø 82 x 82				
/SIE	3.4	Additional Wheels	castor wheel		-	12.00	2x Ø 125 x 54	2 X X 0 Z X 0 Z				
'ne					mm	4		10/4				
Š	3.5	Wheels	number front/rear (x=driven wheels)	1.		IX -	- 2/2	1x + 2/4				
Tyres/Wheels/Chassis	3.6	Tread <sup>3</sup>	front	b10	mm	542						
$\vdash$	3.7	Tread	rear	b11	mm		374					
	4.2	Mast	collapsed height	h <sub>1</sub>	mm	see table 1	see table 2	see table 3				
	4.3	Free-lift		h <sub>2</sub>	mm	see table 1	see table 2	see table 3				
	4.4	Lift Height		hз	mm	see table 1	see table 2	see table 3				
	4.5	Mast	extended height	h4	mm	see table 1	see table 2	see table 3				
	4.6	Initial Lift		h <sub>5</sub>	mm		125					
	4.8	Operator Stand Height		h7	mm		186					
	4.9	Height Control Handle	in driving position min./max.	h <sub>14</sub>	mm		1070 / 1383					
	4.10	Outrigger		h <sub>8</sub>	mm	84		2				
	4.15	Fork Height	lowered	h <sub>13</sub>	mm	01	90	<u>'</u>				
	4.13	FOIR Height				2127 / 2144	2131 / 2149	2157 / 2181				
	4.19	Overall Length <sup>1</sup>	platform up, TL-TF / TT, initial lift raised	l <sub>1</sub>	mm							
		_	platform down, TL-TF / TT, initial lift raised	l <sub>1</sub>	mm	2582 / 2600	2587 / 2605	2613 / 2637				
S	4.20	Head Length 1	platform up, TL-TF / TT, initial lift raised	12	mm	925 / 943	930 / 948	956 / 980				
Dimensions		g	platform down, TL-TF / TT, initial lift raised	12	mm	1381 / 1399	1386 / 1404	1412 / 1436				
ens	4.21	Overall Width		b <sub>1</sub>	mm		800					
ij.	4.22	Fork Dimensions	DIN ISO 2331	s/e/l	mm	60 x 186 x 1200	60 x 190	0 x 1200				
	4.24	Fork Carriage Width		bз	mm		650					
	4.25	Fork Spread		<b>b</b> 5	mm	560	50	35				
	4.32	Ground Clearance	centre wheelbase	m <sub>2</sub>	mm		23					
	4.04.4	Atala Metalli	for pallets 1000×1200 crossways, TL-TF/TT, platform up, initial lift raised	Ast	mm	2713 / 2723	2715 / 2725	2728 / 2739				
	4.34.1	Aisle Width	for pallets 1000×1200 crossways, TL-TF/TT, platform down, initial lift raised	Ast	mm	3172 / 3182	3174 /3184	3187 / 3198				
	4.34.2	Aisle Width	for pallets 800×1200 lenghtways, TL-TF/TT, platform up, initial lift raised	Ast	mm	2535 / 2549	2538 / 2552	2556 / 2571				
	4.04.2	Alsie Width	for pallets 800×1200 lenghtways, TL-TF/TT, platform down, initial lift raised	Ast	mm	2994 / 3008	2997 / 3011	3015 / 3030				
	4.35	Turning Radius 7	platform up, initial lift raised	Wa	mm		1860					
	4.33	rurning nadius	platform down, initial lift raised	Wa	mm		2319					
Œ	5.1	Travel Speed	with / without load		km/h	8/9	7.7 / 9	7.5 / 9				
)ate	5.1.1	Travel Speed Backwards			km/h	8/9	7.7 / 9	7.5 / 9				
Performance Data	5.2	Lift Speed	with / without load		m/s	0.16 / 0.24	0.14 / 0.24	0.12 / 0.24				
3nc	5.3	Lowering Speed	with / without load		m/s	307 3.27	0.36 / 0.28	0.1270.24				
me	5.7	Gradeability	with / without load		%	10 / 16	9 / 16	8 / 16				
for					_							
Per	5.8	Max. Gradeability	with / without load, 5 min. rating	_	%	10 / 16	9 / 16	8 / 16				
_	5.10	Service Brake			L		electric					
$\overline{}$	6.1	Traction Motor	rating at S2 60 min. / H-class		kW		3.0					
lotc	6.2	Pump Motor	rating at S3 9%		kW		3.0					
≥	6.3	Battery	according to DIN 43531/35/36 A, B, C, ne	o			В					
Electric Motor		Max. Battery Box Size 8		lxwxh	mm							
ect	6.4	Battery Voltage 4	nominal capacity 5h rating	T	V/Ah	24	375)					
ш	6.5	Battery Weight <sup>4</sup>	min. / max.		kg		/ 230-270 (315-3 201-252 (270-32)					
	8.1	Drive Unit	drive		ng ng	AC-transistor						
	10.7	Sound Pressure Level			JD/41							
		SOURG PROCEURO LOVO	at the operator's seat	i .	dB(A)	I .	< (1)					

- <sup>1</sup> subtract 22 mm for initial lift lowered
- <sup>2</sup> Ø 250 x 75 mm with electric steering
- <sup>3</sup> subtract 9 mm with electric steering
- <sup>4</sup> with optional larger battery, use values in brackets
- <sup>5</sup> capacity on load arms = 2.0 t for electric steering version
- <sup>6</sup> add 64 mm for initial lift lowered

- <sup>7</sup> optional available wheelbase: long + 100 mm short - 180 mm
- <sup>8</sup> contact Crown for battery details



## Table 1 Mast Chart

	1.2	Model				ETi 4000 - 1.2														
		Mast Type											TF			TT				
	2.1	Service Weight *	less battery		kg	1044	1066	1086	1110	1136	1054	1075	1095	1118	1143	1159	1192	1216	1229	1250
	2.2	Axle Load	with load	front	kg	1271	1286	1300	1317	1335	1278	1292	1306	1322	1340	1334	1357	1373	1382	1397
	2.2	250 Ah	With load	rear	kg	1185	1192	1198	1205	1213	1188	1195	1201	1208	1215	1237	1247	1255	1259	1265
۱ <sub>±</sub>	2.3	Axle Load 250 Ah	without load	front	kg	984	999	1013	1030	1048	991	1005	1019	1036	1053	1060	1083	1100	1109	1123
Weight			Without load	rear	kg	272	279	285	292	300	275	282	288	294	302	311	321	328	332	339
>	2.2	Axle Load 375 Ah	with load	front	kg	1341	1356	1370	1387	1405	1348	1363	1377	1393	1410	1404	1427	1444	1452	1467
			With load	rear	kg	1191	1198	1204	1211	1219	1194	1200	1206	1213	1221	1243	1253	1260	1265	1271
	2.3	Axle Load	without load	front	kg	1045	1061	1075	1091	1110	1052	1067	1081	1097	1114	1121	1144	1161	1170	1185
	2.0	375 Ah	Without load	rear	kg	287	293	299	307	314	290	296	302	309	317	326	336	343	347	353
SU	4.2	Mast	collapsed height	h1	mm	1770	1980	2180	2420	2670	1770	1980	2180	2420	2670	1845	1980	2140	2220	2370
lsio	4.3	Free-lift **		h2	mm			180			1290	1500	1690	1940	2190	1360	1500	1660	1735	1870
Dimensions	4.4	Lift Height		h3+h13	mm	2440	2860	3260	3740	4240	2540	2960	3360	3840	4340	4000	4440	4750	5000	5400
Ä	4.5	Mast ***	extended height	h4	mm	2920	3350	3750	4220	4720	3020	3450	3850	4320	4820	4480	4930	5240	5480	5880

## Table 2 Mast Chart

	1.2	Model				ETi 4000 - 1.4														
		Mast Type						TL					TF					TT		
	2.1	Service Weight *	less battery		kg	1063	1086	1108	1134	1162	1073	1096	1117	1142	1169	1173	1206	1230	1243	1264
	2.2	Axle Load	with load	front	kg	1323	1339	1355	1373	1393	1330	1346	1361	1379	1397	1380	1403	1420	1429	1443
	2.2	250 Ah	With load	rear	kg	1352	1359	1365	1373	1381	1355	1362	1368	1375	1384	1405	1415	1422	1426	1433
۱ <sub>±</sub>	2.3	Axle Load 250 Ah	without load	front	kg	993	1009	1024	1043	1062	1000	1016	1031	1048	1067	1065	1088	1105	1114	1128
Weight			Without load	rear	kg	282	289	296	303	312	285	292	298	306	314	320	330	337	341	348
>	2.2	Axle Load 375 Ah	with load	front	kg	1395	1411	1426	1445	1464	1402	1418	1433	1450	1469	1452	1475	1491	1500	1515
			With load	rear	kg	1356	1363	1370	1377	1386	1359	1366	1372	1380	1388	1409	1419	1427	1431	1437
	2.3	Axle Load	without load	front	kg	1054	1070	1086	1104	1123	1061	1077	1092	1109	1128	1127	1150	1166	1175	1190
	2.3	375 Ah	Without load	rear	kg	297	304	310	318	327	300	307	313	321	329	334	344	352	356	362
SU	4.2	Mast	collapsed height	h1	mm	1770	1980	2180	2420	2670	1770	1980	2180	2420	2670	1845	1980	2140	2220	2370
loist	4.3	Free-lift **		h2	mm			180			1290	1500	1690	1940	2190	1360	1500	1660	1735	1870
Dimensions	4.4	Lift Height		h3+h13	mm	2440	2860	3260	3740	4240	2540	2960	3360	3840	4340	4000	4440	4750	5000	5400
ΙĒ	4.5	Mast ***	extended height	h4	mm	2920	3350	3750	4220	4720	3020	3450	3850	4320	4820	4480	4930	5240	5480	5880

# Table 3 Mast Chart

	1.2	Model		ETi 4000 - 1.6																
		Mast Type						TL				TF			TT					
	2.1	Service Weight *	less battery		kg	1122	1152	1182	1212	1247	1138	1168	1195	1228	1263	1287	1317	1347	1364	1392
	2.2	Axle Load	with load	front	kg	1382	1403	1424	1445	1469	1393	1414	1433	1456	1480	1466	1486	1507	1518	1537
	2.2	250 Ah	Willi load	rear	kg	1552	1561	1570	1579	1590	1557	1566	1574	1584	1595	1633	1643	1652	1658	1667
=	2.3	Axle Load 250 Ah	without load	front	kg	1030	1051	1072	1093	1117	1041	1062	1081	1104	1128	1137	1158	1179	1190	1209
Weight			Without load	rear	kg	304	313	322	331	342	309	318	326	336	347	362	371	380	386	395
>	2.2	Axle Load 375 Ah	with load	front	kg	1456	1476	1497	1518	1542	1466	1487	1506	1529	1553	1539	1560	1580	1592	1611
			with load	rear	kg	1554	1564	1573	1582	1593	1560	1569	1577	1587	1598	1636	1645	1655	1660	1669
	2.3	Axle Load	without load	front	kg	1092	1113	1133	1154	1179	1103	1123	1142	1165	1189	1199	1219	1240	1251	1270
	2.3	375 Ah	without load	rear	kg	318	327	337	346	356	323	333	341	351	362	376	386	395	401	410
SL	4.2	Mast	collapsed height	h1	mm	1770	1980	2180	2420	2670	1770	1980	2180	2420	2670	1845	1980	2140	2220	2370
loist	4.3	Free-lift **		h2	mm			180			1290	1500	1690	1940	2190	1360	1500	1660	1735	1870
Dimensions	4.4	Lift Height		h3+h13	mm	2440	2860	3260	3740	4240	2540	2960	3360	3840	4340	4000	4440	4750	5000	5400
	4.5	Mast ***	extended height	h4	mm	2920	3350	3750	4220	4720	3020	3450	3850	4320	4820	4480	4930	5240	5480	5880

<sup>\*</sup> add 6 kg for electronic steering

<sup>\*\*</sup> for TF and TT reduces free-lift by 750 mm with 1200 mm high load backrest 550 mm with 1000 mm high load backrest 350 mm with 800 mm high load backrest

<sup>\*\*\*</sup> for TF and TT reduces free-lift by 750 mm with 1200 mm high load backrest 550 mm with 1000 mm high load backrest 350 mm with 800 mm high load backrest

#### Standard Equipment

- 1. Load arms with initial lift
- The X10® Control Handle places all truck functions at the operator's fingertips. Load arm lift/lower switches are located on left side
- 3. Proportional lifting/lowering provided by a low-noise hydraulic system
- e-GEN® Braking System offers regenerative and frictionless electric braking. Mechanical braking applies only as parking brake
- 5. Crown Access 1 2 3<sup>®</sup>
  Comprehensive System
  Control
  - LCD screen
  - Hour meter
  - Keyless start up with PIN code
  - Start up and run time diagnostics
  - Battery discharge indicator and lift interrupt
  - 3 selectable traction performance profiles
  - On-board diagnostics with real time trouble-shooting capabilities
- 6. Crown maintenance-free 3-phase (AC) traction motor
- 7. CAN-Bus technology

11. Single load wheels

- 8. Electric power disconnect push button
- 9. Ramp hold
- 10. Vulkollan drive tyre, castor wheel(s) and load wheels
- (1.2 t and 1.4 t), tandem load wheels (1.6 t)
- 12. Dual heavy-duty caster wheels
- 13. Heavy-duty chassis with 8 mm thick steel skirt
- 14. Easily removable steel covers
- 15. Hinged steel top battery cover for easy battery access
- 16. Polycarbonate mast guard
- 17. Battery compartment for 230-270 Ah and 315-375 Ah
- 18. Battery rollout
- 19. Battery connector DIN 160A Schaltbau
- 20. Sealed electrical Deutsch connectors
- 21. FlexRide™ reduces vibrations and shocks to a minimum by combining
  - Soft floor mat with integrated presence sensor
  - Advanced platform suspension
  - Fully suspended drive unit
- 22. Heavy-duty side restraints with soft side pads and lifetime guarantee with soft side pads and easy exit feature

### **Optional Equipment**

- Intelligent Electric Steering
   System
  - Selectable performance profiles for speed reduction in turns
  - Tactile feedback feature analyses operational conditions and adjusts steering force for optimised control
  - 3-phase (AC) steering motor
- Load arm lift/lower switches on left and right side of X10 Control Handle
- 3. Pallet entry/exit roller system
- 4. On-board charger (battery liftout only)
- 5. Battery connector options
- 6. Folding platform without side restrains (mechanical steering only)
- 7. Rubber, Rubber siped and Supertrac drive tyre
- 8. Tandem load wheels (1.2 t and 1.4 t)
- Fork length, spread and wheelbase options
- Fork weld marks for pallet positioning
- 11. Load backrest
- 12. Key switch or key pad
- 13. Freezer conditioning
- 14. InfoLink® Ready
- 15. Work Assist accessory tube
- 16. Work Assist Accessories
  - Storage pockets
  - Scan gun holder
  - Medium and large clip pads
  - Beverage holder
- 17. Metal mast grill
- 18. Flashing beacon
- 19. Travel alarm20. 12 V clean power supply
- 21.24 V power supply
- 22. Special paint
- 23. Lithium-Ion Battery Ready

## **Electric System / Battery**

24 volt electrical system with nominal battery capacities from 230 Ah to 375 Ah is managed by Crown's Access 1 2 3 Comprehensive System Control. Virtually maintenance-free Crown AC traction motor provides strong acceleration and control at any speed. Sensors monitor functional parameters including steering, load weight, height, drive mode and speed and adjust operational settings automatically to suit conditions.

#### **Power Unit**

The rugged power unit features a reinforced 8 mm thick skirt to protect drive unit and castor components. Removable steel covers all around ensure internal components are protected against impacts yet easily accessible for service. On the inside, a Crown-built AC traction motor and a low-noise cast iron gearbox provide reliable power.

### **Initial Lift**

Initial lift offers higher under clearance for better handling and performance on ramps, grades and uneven surfaces. Initial lift offers the possibility of double pallet transport. Optional electric steering allows transport of loads up to 2 tons on the load arms.

### **Operator Area and Controls**

The ET 4000 Series incorporates numerous design features to improve operator comfort and productivity.

The folding FlexRide platform reduces shock transfer to the operator. The lifetime platform suspension never requires adjustment and features solid state induction switches to avoid reliability issues caused by contaminants.

Heavy-duty side restraints feature 50 mm heavy-wall steel tubing and rugged C-clamp mounting system. Soft polyurethane side pads are positioned for excellent support and comfort. The easy exit feature allows the restraints to swing up for faster access to the load. Trucks with mechanical steering have an automatic lift stop at 1.8 metres unless the side restraints are folded fully down.

Trucks equipped with power steering allow lift and travel when the side restraints are in the upper position. This simple, one-handed motion allows the operator to pass the 1.8 metre lift limit without stopping to fold down the restraints.

The centre mounted X10 Control Handle, designed for operation of all functions with one hand, improves side-stance operation for maximum visibility in both driving directions and positions the operator in a safe distance to the power unit even with the tiller turned 90° in pedestrian mode.

Available electric steering improves manoeuvrability and responsiveness, even with heavy loads. Electric steering combined with speed reduction in turns, safely delivers top driving performance.

Proportional lift and lowering allows easy and precise positioning of loads. The fast responsiveness and speeds of the lifting and lowering functions are designed to ensure high efficiency in all applications and at a low noise level.

### Access 1 2 3<sup>®</sup> Comprehensive System Control

Crown's Access 1 2 3 technology provides optimum performance and control by offering a communications interface for the operator and service technician. The display includes a full featured on-board service tool allowing service technicians to actively view inputs and outputs during truck operation. No laptop or service terminal is required. In addition, up to 25 PIN codes can be assigned to individual operators and matched to one of the pre-programmed performance profiles, if desired.

# e-GEN® Braking System

The power of the high-torque AC traction motor is used to stop the truck and keep it static until a travel input is requested, even when operating on a gradient. This system eliminates adjustments and wear points for a lifetime of maintenance-free use.

An automatic parking brake activates if the truck is stopped and the operator leaves the platform or power is disconnected.

## **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.

