

Reach truck 1.4 - 1.6 ton

BT reflex

R & E-series

Coldstore

RRE140HC/HEC/

HCC/HECC

RRE160HC/HEC/

HCC/HECC



Reach truck, Coldstore open cabin

Identification	1.1	Manufacturer			Toyota	Toyota	
	1.2	Model			RRE140HC/HEC	RRE160HC/HEC	
	1.3	Drive			Electric	Electric	
	1.4	Operator type			Seated	Seated	
	1.5	Load capacity/rated load	Q	kg	1400	1600	
	1.6	Load centre	c	mm	600	600	
	1.8	Load distance, centre of support arm wheel to face of fork	x	mm	294 *)	394 *)	
	1.9	Wheelbase	y	mm	1295	1395	
	Weight	2.1	Service weight including battery		kg	3390	3422
2.3		Axle load, mast retracted without load, drive/support arm wheel		kg	2051/1339	2123/1298	
2.4		Axle load, mast extended with load, drive/support arm wheel		kg	651/4138	607/4414	
2.5		Axle load, mast retracted with load, drive/support arm wheel		kg	1721/3069	1887/3134	
Wheels		3.1	Drive/support arm wheel			Vulkollan®/Vulkollan®	Vulkollan®/Vulkollan®
	3.2	Wheel size, front		mm	ø350x140	ø350x140	
	3.3	Wheel size, rear		mm	ø300x106	ø300x106	
	3.5	Wheels, number front/rear (x=driven wheels)			1x / 2	1x / 2	
	3.7	Track width, rear	b ₁₁	mm	1134	1134	
	Dimensions	4.1	Tilt of fork, forward/backward	α/β	deg	4°/-2° *)	4°/-2° *)
		4.2	Height, mast lowered	h ₁	mm	2887 *)	2887 *)
4.3		Free lift	h ₂	mm	2403 *)	2403 *)	
4.4		Lift	h ₃	mm	6945 *)	6945 *)	
		Lift height	h ₂₃	mm	7000 *)	7000 *)	
4.5		Height, mast extended	h ₄	mm	7540 *)	7540 *)	
4.7		Height of overhead guard (cabin)	h ₆	mm	2198	2198	
4.8		Seat height	h ₇	mm	1136	1136	
4.10		Height support arms	h ₈	mm	268	268	
4.15		Height, fork lowered	h ₁₃	mm	55	55	
4.19		Overall length	l ₁	mm	2413	2413	
4.20		Length to face of forks	l ₂	mm	1263	1263	
4.21		Overall width	b ₁	mm	1270	1270	
4.22		Fork dimensions	s/e/l	mm	40/100/1150 *)	40/100/1150 *)	
4.23		Fork carriage ISO 2328, class/type A, B			2A		
4.24		Fork carriage width	b ₃	mm	819	819	
4.25		Width over forks	b ₅	mm	252-698	252-698	
4.26		Distance between wheel arms/loading surfaces	b ₄	mm	900 *)	900 *)	
4.28		Reach distance	l ₄	mm	490 *)	590 *)	
4.31		Ground clearance, with load, below mast	m ₁	mm	68	68	
4.32		Ground clearance, center of wheelbase ²⁾	m ₂	mm	74	74	
4.34.1		Aisle width for pallets 1000 × 1200 crossways	A _{st}	mm	2683	2710	
4.34.2		Aisle width for pallets 800 × 1200 lengthways	A _{st}	mm	2747	2757	
4.35	Turning radius	W ₈	mm	1557	1657		
4.37	Length across support arms	l ₇	mm	1728	1828		
Performance data	5.1	Travel speed, with/without load		km/h	10,3/11 ¹⁾	10/11 ¹⁾	
	5.1	Travel speed, with/without load (High speed version)		km/h	14/14	14/14	
	5.2	Lift speed, with/without load		m/s	0,38/0,68	0,36/0,68	
	5.2	Lift speed, with/without load (High speed version)		m/s	0,50/0,68	0,50/0,68	
	5.3	Lowering speed, with/without load		m/s	0,59/0,55	0,59/0,55	
	5.4	Reach speed, with/without load		m/s	0,20/0,28	0,20/0,28	
	5.8	Max. gradeability, with/without load ³⁾		%	10/15	10/15	
	5.9	Acceleration time with/without load (over 10 m)		s	5,4/4,9	5,5/4,9	
	5.10	Service brake			Electric	Electric	
	Electric motor	6.1	Drive motor rating S2 60 min		kW	7,5	7,5
6.2		Lift motor rating S3 15%		kW	11,0	11,0	
6.2		Lift motor rating S3 15% (High speed version)		kW	15,0	15,0	
6.4		Battery voltage, nominal capacity K _s		V/Ah	48/465 *)	48/465 *)	
6.5		Battery weight		kg	685 *)	685 *)	
6.6		Energy consumption acc to VDI		kWh/h	3,4	3,7	
6.7		Turnover output cycle		t/h	56	66	
6.8		Energy consumption at turnover output		kWh/h	3,2	3,3	
Other	8.1	Type of drive control			Variable AC	Variable AC	
	8.4	Sound level at the driver's ear according to EN 12 053		dB(A)	66	66	

1) 11/11 km/h with support wheel brake

2) 15 mm under studs

3) Measured according to company standard

*) Other alternatives are available

All data are based on table configuration. Other configurations may give other values.

Truck performance and dimensions are nominal and subject to tolerances.

Toyota Material Handling Manufacturing Sweden AB products and specifications are subject to change without notice.

Reach truck, Coldstore heated cabin

Identification	1.1	Manufacturer			Toyota	Toyota
	1.2	Model			RRE140HCC/HECC	RRE160HCC/HECC
	1.3	Drive			Electric	Electric
	1.4	Operator type			Seated	Seated
	1.5	Load capacity/rated load	Q	kg	1400	1600
	1.6	Load centre	c	mm	600	600
	1.8	Load distance, centre of support arm wheel to face of fork	x	mm	222 *)	322 *)
	1.9	Wheelbase	y	mm	1295	1395
	Weight	2.1	Service weight including battery		kg	3783
2.3		Axle load, mast retracted without load, drive/support arm wheel		kg	2275/1509	2356/1435
2.4		Axle load, mast extended with load, drive/support arm wheel		kg	945/4229	915/4476
2.5		Axle load, mast retracted with load, drive/support arm wheel		kg	1870/3314	2042/3349
Wheels		3.1	Drive/support arm wheel			Vulkollan®/Vulkollan®
	3.2	Wheel size, front		mm	ø350x140	ø350x140
	3.3	Wheel size, rear		mm	ø300x106	ø300x106
	3.5	Wheels, number front/rear (x=driven wheels)			1x / 2	1x / 2
	3.7	Track width, rear	b ₁₁	mm	1134	1134
	Dimensions	4.1	Tilt of fork, forward/backward	α/β	deg	4°/-2° *)
4.2		Height, mast lowered	h ₁	mm	2887 *)	2887 *)
4.3		Free lift	h ₂	mm	2403 *)	2403 *)
4.4		Lift	h ₃	mm	6945 *)	6945 *)
		Lift height	h ₂₃	mm	7000 *)	7000 *)
4.5		Height, mast extended	h ₄	mm	7540 *)	7540 *)
4.7		Height of overhead guard (cabin)	h ₆	mm	2200	2200
4.8		Seat height	h ₇	mm	1136	1136
4.10		Height support arms	h ₈	mm	268	268
4.15		Height, fork lowered	h ₁₃	mm	55	55
4.19		Overall length	l ₁	mm	2548	2548
4.20		Length to face of forks	l ₂	mm	1398	1398
4.21		Overall width	b ₁	mm	1270	1270
4.22		Fork dimensions	s/e/l	mm	40/100/1150 *)	40/100/1150 *)
4.23		Fork carriage ISO 2328, class/type A, B			2A	
4.24		Fork carriage width	b ₃	mm	819	819
4.25		Width over forks	b ₅	mm	252-698	252-698
4.26		Distance between wheel arms/loading surfaces	b ₄	mm	900 *)	900 *)
4.28		Reach distance	l ₄	mm	418 *)	518 *)
4.31		Ground clearance, with load, below mast	m ₁	mm	68	68
4.32		Ground clearance, center of wheelbase ¹⁾	m ₂	mm	74	74
4.34.1		Aisle width for pallets 1000 × 1200 crossways	A _{st}	mm	2802	2825
4.34.2		Aisle width for pallets 800 × 1200 lengthways	A _{st}	mm	2877	2885
4.35	Turning radius	W ₈	mm	1620	1720	
4.37	Length across support arms	l ₇	mm	1791	1891	
Performance data	5.1	Travel speed, with/without load		km/h	10,3/11	10/11
	5.1	Travel speed, with/without load (High speed version)		km/h	14/14	14/14
	5.2	Lift speed, with/without load		m/s	0,38/0,68	0,36/0,68
	5.2	Lift speed, with/without load (High speed version)		m/s	0,50/0,68	0,50/0,68
	5.3	Lowering speed, with/without load		m/s	0,59/0,55	0,59/0,55
	5.4	Reach speed, with/without load		m/s	0,20/0,28	0,20/0,28
	5.8	Max. gradeability, with/without load ²⁾		%	10/15	10/15
5.10	Service brake			Electric	Electric	
Electric motor	6.1	Drive motor rating S2 60 min		kW	7,5	7,5
	6.2	Lift motor rating S3 15%		kW	11,0	11,0
	6.2	Lift motor rating S3 15% (High speed version)		kW	15,0	15,0
	6.4	Battery voltage, nominal capacity K _s		V/Ah	48/620 *)	48/620 *)
	6.5	Battery weight		kg	875 *)	875 *)
Other	8.1	Type of drive control			Variable AC	Variable AC
	8.4	Sound level at the driver's ear according to EN 12 053		dB(A)		

1) 15 mm under studs

2) Measured according to company standard

*) Other alternatives are available

All data are based on table configuration. Other configurations may give other values.

Truck performance and dimensions are nominal and subject to tolerances.

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Battery compartment

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Dimensions				RRE140HC/HEC			RRE160HC/HEC			
Mast type				Triplex hilo - A			Triplex hilo - A			
	Battery compartment		mm	275	347	419	275	347	419	491
1.8	Load distance, centre of support arm wheel to face of forks	x	mm	294 ¹⁾	222 ¹⁾	141 ¹⁾	394 ¹⁾	322 ¹⁾	250 ¹⁾	169
4.20	Length to face of forks	l_2	mm	1263 ²⁾	1335 ²⁾	1416 ²⁾	1263 ²⁾	1335 ²⁾	1407 ²⁾	1488
4.33	Aisle width for pallets 1000x1200 crossways	A_{st}	mm	2683	2739	2797	2710	2762	2817	2882
4.34	Aisle width for pallets 800x1200 lengthways	A_{st}	mm	2747	2814	2881	2757	2822	2888	2963
4.35	Turning radius	W_a	mm	1557	1557	1557	1657	1657	1657	1657
6.4	Battery voltage, nominal capacity K_5		V/Ah	48/465	48/620	48/775	48/465	48/620	48/775	48/930
6.5	Battery weight, min.—max.		kg	685-825	875-1030	1055-1235	685-825	875-1030	1055-1235	1250-1440

1) With battery in sleigh - 9 mm

2) With battery in sleigh + 9 mm

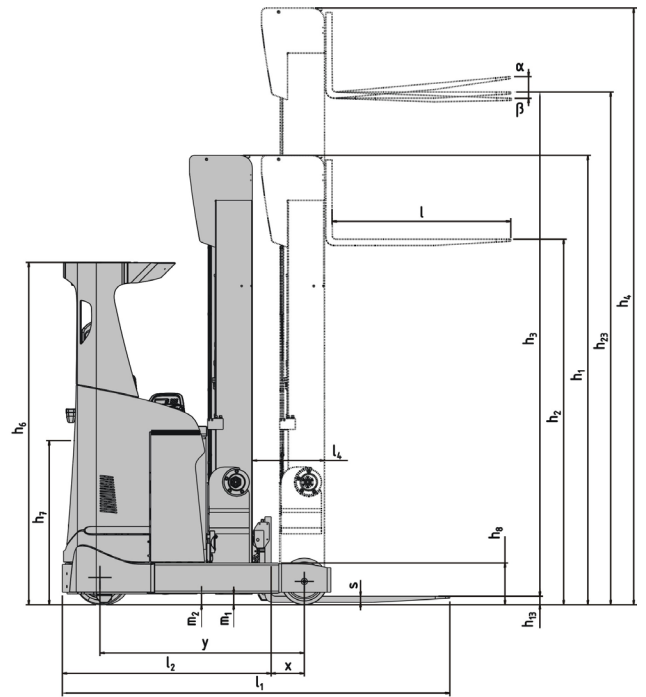
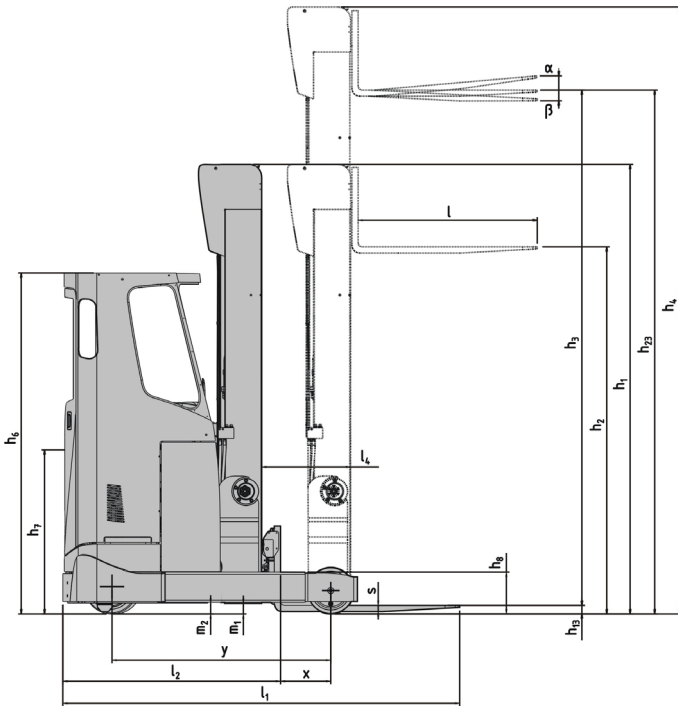
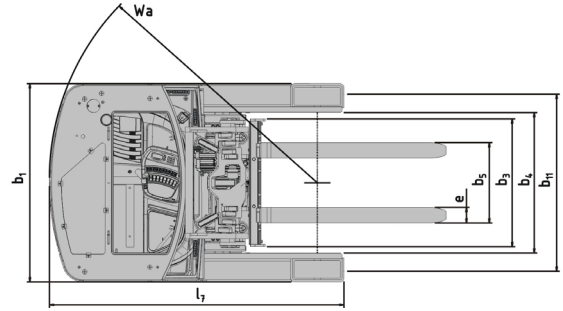
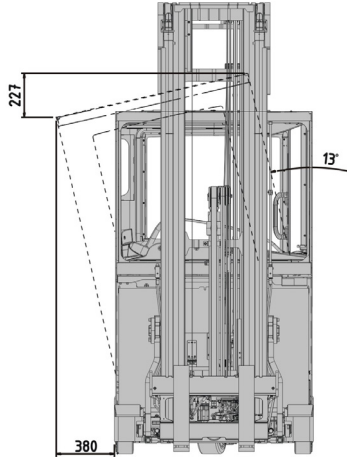
Dimensions				RRE140HCC/HECC		RRE160HCC/HECC		
Mast type				Triplex hilo - A		Triplex hilo - A		
	Battery compartment		mm	347	419	347	419	491
1.8	Load distance, centre of support arm wheel to face of forks	x	mm	222 ¹⁾	141	322 ¹⁾	250 ¹⁾	169
4.20	Length to face of forks	l_2	mm	1398 ²⁾	1479	1398 ²⁾	1470 ²⁾	1551
4.33	Aisle width for pallets 1000x1200 crossways	A_{st}	mm	2802	2868	2825	2880	2945
4.34	Aisle width for pallets 800x1200 lengthways	A_{st}	mm	2877	2952	2885	2951	3026
4.35	Turning radius	W_a	mm	1620	1620	1720	1720	1720
6.4	Battery voltage, nominal capacity K_5		V/Ah	48/620	48/775	48/620	48/775	48/930
6.5	Battery weight, min.—max.		kg	875-1030	1055-1235	875-1030	1055-1235	1250-1440

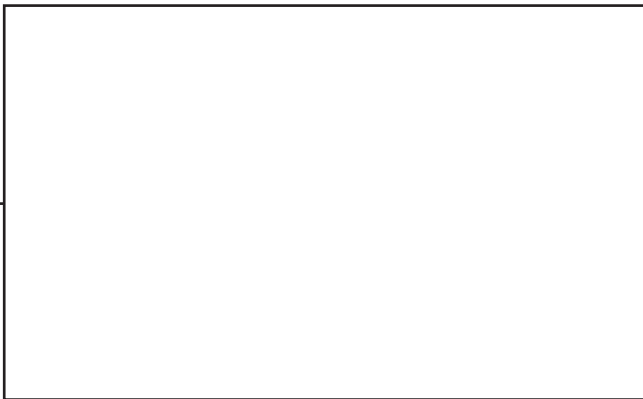
1) With battery in sleigh - 9 mm

2) With battery in sleigh + 9 mm

Mast dimensions

RRE140/160HC/HEC/HCC/HECC				Triplex hilo - A													
	Lift height	h_{23}	mm	4900	5400	5700	6300	7000	7250	7500	8000	8500	9000	9500	10000	10500	11000
4.4	Lift	h_3	mm	4845	5345	5645	6245	6945	7195	7445	7945	8445	8945	9445	9945	10445	10945
4.2	Height, mast lowered	h_1	mm	2187	2354	2454	2654	2887	2971	3054	3221	3387	3554	3721	3887	4054	4221
4.3	Free lift	h_2	mm	1703	1871	1971	2171	2403	2487	2571	2737	2903	3071	3237	3403	3571	3737
4.5	Height, mast extended	h_4	mm	5440	5941	6241	6841	7540	7792	8041	8542	9040	9541	10042	10540	11041	11542





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MATERIAL HANDLING

TOYOTA MATERIAL HANDLING IN EUROPE, MANAGING THE TOYOTA AND BT MATERIALS HANDLING BRANDS IN EUROPE.