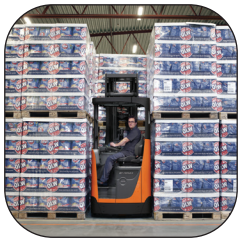
Reach truck 1.4 -1.6 ton

BT reflex

N-series

RRE140HN

RRE160HN



TOYOTA

MATERIAL HANDLING

www.toyota-forklifts.eu

Reach truck

Identification	1.1	Manufacturer			Toyota	Toyota
	1.2	Model			RRE140HN	RRE160HN
	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	341 *)	341 *)
	1.9	Wheelbase	y	mm	1342	1342
Weight	2.1	Service weight including battery		kg	2635	2635
	2.3	Axle load, mast retracted without load, drive/support arm wheel		kg	1953/1237	1953/1237
	2.4	Axle load, mast extended with load, drive/support arm wheel		kg	575/4011	453/4332
	2.5	Axle load, mast retracted with load, drive/support arm wheel		kg	1627/2960	1568/3219
Wheels	3.1	Drive/support arm wheel			Polyurethane	Polyurethane
	3.2	Wheel size, front		mm	ø343x140	ø343x140
	3.3	Wheel size, rear		mm	ø250x85	ø250x85
	3.5	Wheels, number front/rear (x = driven wheels)			1x / 2	1x / 2
	3.7	Track width, rear	b_{11}	mm	988	988
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	270	270
	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	1120	1120
	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	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	503 *)	503 *)
	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 1000x1200 crossways	A_{st}	mm	2695	2695
	4.34.2	Aisle width for pallets 800x1200 lengthways	A_{st}	mm	2751	2751
	4.35	Turning radius	W_a	mm	1604	1604
	4.37	Length across support arms	l_7	mm	1747	1747
Performance data	5.1	Travel speed, with/without load		km/h	10/11	10/11
	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	0,57/0,92	0,52/0,92
	5.3	Lowering speed, with/without load		m/s	0,55/0,59	0,55/0,59
	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
	5.9	Acceleration time with/without load (over 10 m)		s	4,9/4,6	5,0/4,6
	5.9	Acceleration time with/without load (over 10 m) (High speed version)		s	4,9/4,7	5,0/4,6
	5.10	Service brake			Electric	Electric
Electric motor	6.1	Drive motor rating S2 60 min		kW	9	9
	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_5		V/Ah	48/310 *)	48/310 *)
	6.5	Battery weight		kg	510	510
	6.6	Energy consumption acc to VDI		kWh/h	-	2,46
	6.7	Turnover output acc VDI 2198		t/h	-	66,5
	6.8	Energy consumption at turnover output		kWh/h	-	2,58
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)	64	64

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

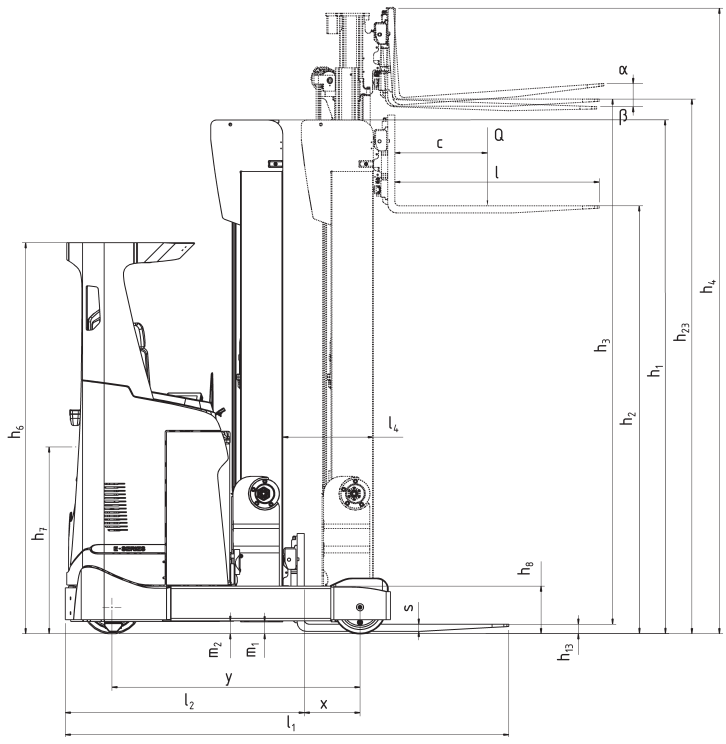
Battery compartment

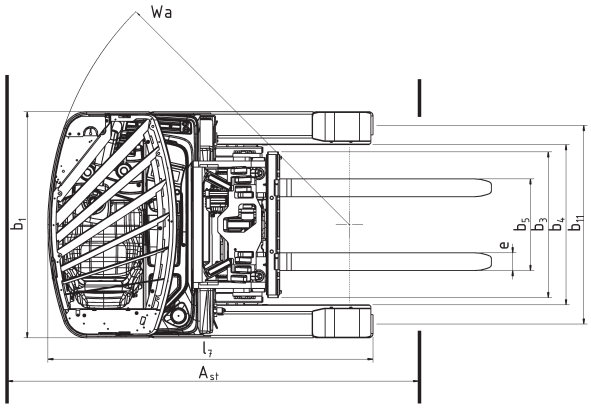
Dimensions				RRE140HN			RRE160HN		
	Battery compartment		mm	275	347	419	275	347	419
1.8	Load distance, centre of support arm wheel to face of forks	x	mm	341 [1]	269 [1]	190	341 [1]	269 [1]	197 [1]
4.20	Length to face of forks	l_2	mm	1263 [2]	1264 [2]	1425	1263 [2]	1335 [2]	1416 [2]
4.33	Aisle width for pallets 1000x1200 crossways	A_{st}	mm	2695	2750	2812	2695	2750	2806
4.34	Aisle width for pallets 800x1200 lengthways	A_{st}	mm	2751	2817	2890	2751	2817	2884
4.35	Turning radius	W_a	mm	1604	1604	1604	1604	1604	1604
6.4	Battery voltage, nominal capacity, Lead-Acid	K_5	V/Ah	48/310	48/465	48/620	48/310	48/465	48/620
	Battery voltage, nominal capacity, Li-Ion	K_5	V/Ah	---	48/300-420	48/300-420	---	48/300-420	48/300-420
6.5	Battery weight, min.—max.		kg	510 - 609	685 - 825	875 - 1030	510 - 609	685 - 825	875 - 1030

1) With battery in sleigh -9 mm
2) With battery in sleigh +9 mm

Mast dimensions

RRE140HN/RRE160HN				Triplex Hi-Lo - A											
	Lift height	h_{23}	mm	4900	5400	5700	6300	7000	7250	7500	8000	8500	9000	9500	10000
4.4	Lift	h_3	mm	4845	5345	5645	6245	6945	7195	7445	7945	8445	8945	9445	9945
4.2	Height, mast lowered	h_1	mm	2187	2354	2454	2654	2887	2971	3054	3221	3387	3554	3721	3887
4.3	Free lift	h_2	mm	1703	1871	1971	2171	2403	2487	2571	2737	2903	3071	3237	3403
4.5	Height, mast extended	h_4	mm	5440	5941	6241	6841	7540	7792	8041	8542	9040	9541	10042	10540





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