

KEY FEATURES

STRONG & WEAK POINTS

TOYOTA 8FBM16/18/20T



Battery Voltage (V)
48

Load Capacity (lbs.)
3000-4000

Load Center (in.)
24

Maximum Lift Height (in.)
296.5

Travel Speed With/Without Load (mph)*
12.4/12.4

Lift Speed With/Without load (fpm)*
82.7/120

Turning Radius (in.)*
71.3

Overall width (in.)*
41.7

Length to Fork Face (in.)*
83.5

Height of Overhead Guard (in.)*
80.9

✓+ System oft Active Stability (SAS)™

- + Wet Disc Brakes
- + Seat Mounted Hydraulic Mini Levers
- + Drive Unit Protector
- + Low & Wide Step Height

✓+ Full Suspension Seat Standard

✓+ Synchronized Steering

- + Full Belly Pan
- + Curve Control (opt)
- + Shockless Landing Lift (opt)

ADDITIONAL NOTES

T360 Support Plus Option - extended warranty + 1 year free maintenance

*MODEL 8FBM18T

HYSTER J30-40XN
YALE ERP30-040VF



Battery Voltage (V)
36/48

Load Capacity (lbs.)
3000-4000

Load Center (in.)
24

Maximum lift height (in.)
259

Travel speed with/without load (mph)*
8.7-9.9/8.7-9.9

Lift speed with/without load (fpm)*
71/128

Turning Radius (in.)*
65.1

Overall width (in.)*
41.3

Length to Fork Face (in.)*
77.8

Height of Overhead Guard (in.)*
81.5

+ Zero Degree Turning Radius

- Seat Side Mechanical Levers

+ Wet Disc Brakes

- Non Suspension Seat Std.

*MODEL J35XN

CAT EPC4000-EP4000
JUNGHEINRICH EFT 316K-320



Battery Voltage (V)
36/48

Load Capacity (lbs.)
3100-3880

Load Center (in.)
24

Maximum lift height (in.)
255.0

Travel speed with/without load (mph)*
10.6/10.6

Lift speed with/without load (fpm)*
72.8/108.3

Turning Radius (in.)*
78.1

Overall width (in.)*
44.1

Length to Fork Face (in.)*
82.6

Height of Overhead Guard (in.)*
80.4

+ Electric Power Steering

+ LiB Battery Option

+ IP54 Rating Drive Motors

+ 1000 HR Serivce Interval

+ Full Suspension Seat

+ Curve Control

+ Full Floating Cabin

- Dry Disc Brakes

+ Seat Mounted Hydraulic Mini Levers

ADDITIONAL NOTES

Note: 2-shift/1-charge marketing. This appears to have requirements that if applied to competitive models, the results would be similar

*MODEL EFG 318

LINDE E20/20P/20C



Battery Voltage (V)
36/48

Load Capacity (lbs.)
4000

Load Center (in.)
24

Maximum lift height (in.)
188.0

Travel speed with/without load (mph)*
10/10

Lift speed with/without load (fpm)*
60/102

Turning Radius (in.)*
70.4

Overall width (in.)*
42.0

Length to Fork Face (in.)*
85.9

Height of Overhead Guard (in.)*
80.5

- Dual pedal for Forward/Reverse (Hydrostat style)

- Overhead guard mounted tilt cylinders - damage prone

+ IP54 rating Drive Motors

+ Seat Mounted Hydraulic Mini Levers

+ 1000 Hr Service Interval

+ Zero Degree Turning Radius

+ Wet Disc Brakes

+ Full Suspension Seat

+ Curve Control

*MODEL E20P

KEY FEATURES

STRONG & WEAK POINTS

TOYOTA 9FBM25



Battery Voltage (V)
80

Load Capacity (lbs.)
4000-7000

Load Center (in.)
24

Maximum lift height (in.)
257.0

Travel speed with/without load (mph)*
11.8/12.4

Lift speed with/without load (fpm)*
90.6/124

Turning Radius (in.)*
79.7

Overall width (in.)*
47.0

Length to Fork Face (in.)*
89.8

Height of Overhead Guard (in.)*
87.2

- ✓ + System oft Active Stability (SAS)™
- ✓ + Fingertip Hydraulic controls with Integrated

Color Display

- + Shockless Landing Lift
- + Full Floating Driver Compartment
- + IP 54 Rated Drive Motors

- ✓ + Full Suspension Seat Standard

- + Low Step Height with Large, Deep Steps
- + Color Touchscreen Display (Opt)
- + Load Weight Display with Touchscreen Display. (Opt)

- + Curve Control

ADDITIONAL NOTES

T360 Support Plus Option - extended warranty + 1 year free maintenance

*MODEL 9FBM25T

HYSTER J45-70XN
YALE ERP 045-070VL



Battery Voltage (V)
80

Load Capacity (lbs.)
4500-7000

Load Center (in.)
24

Maximum lift height (in.)
217.0

Travel speed with/without load (mph)*
11.2/11.2

Lift speed with/without load (fpm)*
75.0/124.0

Turning Radius (in.)*
76.0-81.6

Overall width (in.)*
46.9

Length to Fork Face (in.)*
91.7-97.0

Height of Overhead Guard (in.)*
86.3

- MONOTROL Foot Direction Control
- + Zero Turn Steer Axle
- Mechanical Hydraulic Levers Std.
- Small Black & White LCD display
- Operator's compartment part of the frame.
- Non-Suspension Seat Std.
- IP54 Rated Drive Motors (Opt.)

*MODEL J50XN

CAT 2EPC5000-6500
JUNGHEINRICH EFT 425-S30



Battery Voltage (V)
80

Load Capacity (lbs.)
4928-6608

Load Center (in.)
24

Maximum lift height (in.)
295.0

Travel speed with/without load (mph)*
10/10.6

Lift speed with/without load (fpm)*
84.7/108.3

Turning Radius (in.)*
78.7

Overall width (in.)*
47.2

Length to Fork Face (in.)*
90.4

Height of Overhead Guard (in.)*
88.2

- + Seat Mounted Finger-tip controls
- + IP54 Drive Motors
- + LiB Battery Option
- + Curve Control
- + Electric Power Steering
- + Full Suspension Seat
- Blue & White LCD display

ADDITIONAL NOTES

Note: 2-shift/1-charge marketing. This appears to have requirements that if applied to competitive models, the results would be similar.

*MODEL EFG 425

LINDE E20-35 P/PL/PHL



Battery Voltage (V)
80

Load Capacity (lbs.)
4000-7000

Load Center (in.)
24

Maximum lift height (in.)
254.5

Travel speed with/without load (mph)*
12.5/12.5

Lift speed with/without load (fpm)*
88/110

Turning Radius (in.)*
79.5

Overall width (in.)*
45.3

Length to Fork Face (in.)*
97.0

Height of Overhead Guard (in.)*
81.9

- Dual pedal for Forward/Reverse (Hydrostat style)
- Overhead guard mounted cylinders - damage prone
- + Traction Control
- + Full Floating Cab
- + Seat Mounted Hydraulic Mini Levers
- + 1000 Hr Service Interval
- + Zero Degree Turning Radius
- + Full Suspension Seat
- + Curve Control
- Small Black & White LCD display

*MODEL E25PL

KEY FEATURES

STRONG & WEAK POINTS

TOYOTA 8FBM40/45/50T



Battery Voltage (V)
80

Load Capacity (lbs.)
8000-11000

Load Center (in.)
24

Maximum lift height (in.)
258.0

Travel speed with/without load (mph)*
11.0/11.0

Lift speed with/without load (fpm)*
68.9/90.6

Turning Radius (in.)*
100.1

Overall width (in.)*
53.0

Length to Fork Face (in.)*
114.4

Height of Overhead Guard (in.)*
92.9

✓+ **System oft Active Stability (SAS)™**

- + Seat Mounted Hydraulic Mini Levers
- + Drive Unit Protector
- + Low & Wide Step Height

✓+ **Full Suspension Seat Standard**

ADDITIONAL NOTES

T360 Support Plus Option - extended warranty + 1 year free maintenance

*MODEL 05-8FBM40T

HYSTER J80-120 XN
YALE ERP 080-120VM



Battery Voltage (V)
80

Load Capacity (lbs.)
8000-12000

Load Center (in.)
24

Maximum lift height (in.)
236.0

Travel speed with/without load (mph)*
9.9/11.0

Lift speed with/without load (fpm)*
87/118

Turning Radius (in.)*
94.9

Overall width (in.)*
54.7

Length to Fork Face (in.)*
114.5

Height of Overhead Guard (in.)*
92.0

- + Zero Degree Turn Steer Axle
- MONOTROL Foot Direction Control
- Mechanical Hood Mounted Hydraulic Levers
- High Step In Height
- Non-Suspension Seat Std.

*MODEL J80XN

CAT 2EPC7000-11000
JUNGHEINRICH EFG 535K-S50



Battery Voltage (V)
80

Load Capacity (lbs.)
7000-11000

Load Center (in.)
24

Maximum lift height (in.)
295.3

Travel speed with/without load (mph)*
8.7/10

Lift speed with/without load (fpm)*
61/84.6

Turning Radius (in.)*
98.0

Overall width (in.)*
52.8

Length to Fork Face (in.)*
110.7

Height of Overhead Guard (in.)*
93.1

- + Seat Mounted Fingertip Hydraulic Controls
- + Curve Control
- + Full Floating Cab
- + IP54 rating Drive Motors
- + Full Suspension Seat
- Speed Control is optional

ADDITIONAL NOTES

Note: 2-shift/1-charge marketing. This appears to have requirements that if applied to competitive mdoels, the results would be similar.

*MODEL EFG540

LINDE E35-50/600 H/HL



Battery Voltage (V)
80

Load Capacity (lbs.)
7500-11000

Load Center (in.)
24

Maximum lift height (in.)
236.9

Travel speed with/without load (mph)*
12.5/12.5

Lift speed with/without load (fpm)*
82/110

Turning Radius (in.)*
93.0

Overall width (in.)*
56.7/50.3

Length to Fork Face (in.)*
107.2

Height of Overhead Guard (in.)*
92.9

- Dual pedal for Forward/Reverse (Hydrostat style)
- Overhead guard mounted tilt cylinders - damage prone
- + IP54 rating Drive Motors
- + Seat Mounted Hydraulic Mini Levers
- + 1000 Hr Service Interval
- + Full Floating Cab
- + Full Suspension Seat
- + Curve Control

*MODEL E40P/600H



KEY FEATURES

TOYOTA 9FBM60-80/H80T



Battery Voltage (V)
80

Load Capacity (lbs.)
13000-17500

Load Center (in.)
24/36

Maximum lift height (in.)
278.5

Travel speed with/without load (mph)*
11.0/12.0

Lift speed with/without load (fpm)*
71.0/95.0

Turning Radius (in.)*
118.3

Overall width (in.)*
78.9

Length to Fork Face (in.)*
137.4

Height of Overhead Guard (in.)*
111.6

HYSTER J155-190XNL
YALE ERP 155-190VNL



Battery Voltage (V)
350

Load Capacity (lbs.)
15500-19000

Load Center (in.)
24/36

Maximum lift height (in.)
258.0

Travel speed with/without load (mph)*
14.9/14.9

Lift speed with/without load (fpm)*
84.6/129.9

Turning Radius (in.)*
121.3

Overall width (in.)*
82.0

Length to Fork Face (in.)*
137.6

Height of Overhead Guard (in.)*
100

LINDE E60-80/900



Battery Voltage (V)
80

Load Capacity (lbs.)
1300-17500

Load Center (in.)
24/36

Maximum lift height (in.)
244

Travel speed with/without load (mph)*
10/10

Lift speed with/without load (fpm)*
59.1/90.5

Turning Radius (in.)*
118

Overall width (in.)*
83.1

Length to Fork Face (in.)*
138

Height of Overhead Guard (in.)*
112

STRONG & WEAK POINTS

- ✓+ System oft Active Stability (SAS)™
+ Automatic Parking Brake
+ Full Floating Cab
- ✓+ Full Suspension Seat Standard
+ Drive Unit Protector
- ✓+ Electric Power Steering
+ Two Large Assist Grips
+ Shockless Landing Lift
+ Tilt & Telescoping Steering Wheel
+ Air Suspension Seat (Opt)

ADDITONAL NOTES

T360 Support Plus Option - extended warranty + 1 year free maintenance
Automotive styled cab design with great 360 visibility

- + Integrated LiB with Battery Management System
- Mechanical Parking Brake
+ Air Suspension Vinyl Seat
+ Turn Assist System (155 & 175 only)
- + Liquid Cooling System for Motors and Controllers
- Tilt Steering Wheel

ADDITONAL NOTES

Truck is offered in LiB models only -
Battery is integrated into the truck chassis

- Dual pedal for Forward/Reverse (Hydrostat style)
- Overhead guard mounted tilt cylinders - damage prone
+ Automatic Parking Brake
+ Full Floating Cab
- Full Suspension Seat
+ Curve Control
- Hydrostatic Power Steering
- Tilt Steering Wheel

*MODEL 8FBM18T

*MODEL 8FBM18T

*MODEL 8FBM18T

KEY FEATURES

TOYOTA SENS



Field of View
130°

Detection Time
0.14 seconds

Maximum Distance
32 ft

Operating Condition
-40°F to 140°F

Buzzer Volume
85db

Indicator Type
Audio and Visual

Ingress Rating
IP67

Distinguish Pedestrians vs. Objects
Yes

Number of Zones
3

BLAXTAIR



Field of View
90°

Detection Time
0.30 Seconds

Maximum Distance
23 ft

Operating Condition
-40°F to 167°F

Buzzer Volume
Configurable

Indicator Type
Optional

Ingress Rating
IP69K (Camera Only)

Distinguish Pedestrians vs. Objects
Yes

Number of Zones
2

SEEN SAFETY IRIS 860



Field of View
60°

Detection Time
Instantaneous

Maximum Distance
26.24 ft

Operating Condition
-4°F to 140°F

Buzzer Volume
Configurable

Indicator Type
Audio

Ingress Rating
IP67

Distinguish Pedestrians vs. Objects
No

Number of Zones
2

SICK BACKUP ASSISTANCE SYSTEM (BAS)
2D LIDAR TECHNOLOGY



Field of View
270°

Detection Time
Instantaneous

Maximum Distance
13.12 ft

Operating Condition
14°F to 122°F

Buzzer Volume
Configurable

Indicator Type
Optional

Ingress Rating
IP67

Distinguish Pedestrians vs. Objects
No

Number of Zones
2

STRONG & WEAK POINTS

✓+ **Longest sensing distance with wide field of view**

+ Configurable detection zones

✓+ **Configurable for objects or Pedestrians**

+Configurable Alerts

✓+ **Affordably priced with most features**

- Some limitations to environment and pedestrian orientation

ADDITIONAL NOTES

SEnS is designed and manufactured by Toyota using Toyota design standards and TPS

Alarm and lights provide notification to both the forklift operator and pedestrians

- Optional display is expensive, can be easily damaged

- Highest price

- Requires separate large controller box to be mounted on truck

+ Optional Telematics

+ Configurable detection zones

ADDITIONAL NOTES

Requires a large controller box which may have to be mounted to the top of the overhead guard. This is not practical and can easily be damaged.

Optional 7" display provides live video but may cause operator to not look in direction of travel when traveling in the rearward direction

Additional camera and controller box can be added to double the field of view, but is cost prohibitive

- Requires reflective tape to detect (safety vest required)

- Field of view up to 120° with extra sensors

- Cannot distinguish between objects and pedestrians

+ Unaffected by ambient lighting

+ Lowest price

ADDITIONAL NOTES

Requires safety vests to be worn by pedestrians at all times. This may not be practical in many facilities.

Due to the narrow Field of View, may require (2) devices which adds more costs.

- Critical on mounting position for detection

- Objects and pedestrians cannot be distinguished

- Limited coverage area (2D detection only)

+ Can connect up to 3 extra sensors

+ Moderately priced

ADDITIONAL NOTES

Lidar emits a field which is a 2 dimensional plane. It can not identify objects that are above or below this plane. Multiple Lidars can be added, but soon becomes cost prohibitive



KEY FEATURES

TOYOTA ER1-ES60.80



Battery Voltage (V)
24

Load Capacity (lbs.)
6000-8000

Maximum lift height (in)
9.8

Travel speed with/without load (mph)
6.5/9.0

Lift speed with/without load (fpm)
5.0/5.8

Turning Radius (in)
98.1

Overall Width (in)
40

Length to Fork Face (in)
45.3

Step Height (in)
10.0

HYSTER BE80-100ZHD
YALE MPR080-MPR100VG



Battery Voltage (V)
24

Load Capacity (lbs.)
8000-10000

Maximum lift height (in)
9.3

Travel speed with/without load(mph)
6.5/9.0

Lift speed with/without load (fpm)
n/a

Turning Radius (in)
101.1

Overall Width (in)
38

Length to Fork Face (in)
n/a

Step Height (in)
11.3

CROWN PR 4500



Battery Voltage (V)
24

Load Capacity (lbs.)
6000-8000

Maximum lift height (in)
9.3

Travel speed with/without load(mph)
6.5/8

Lift speed with/without load (fpm)
n/a

Turning Radius (in)
134.4

Overall Width (in)
38

Length to Fork Face (in)
44.7

Step Height (in)
11.7

JUNGHEINRICH ERE SERIES



Battery Voltage (V)
24

Load Capacity (lbs.)
5500

Maximum lift height (in)
4.8

Travel speed with/without load(mph)
5.9/8.7

Lift speed with/without load (fpm)
9.8/13.8

Turning Radius (in)
n/a

Overall Width (in)
30.3

Length to Fork Face (in)
27.4

Step Height (in)
7.1

STRONG & WEAK POINTS

- ✓+ Electric steering
- ✓+ Auto slow down when cornering
- ✓+ Auto centers steer tire on start up
- + Low Step Height

ADDITIONAL NOTES

Single pedal on floorboard allows operator to change feet positions.

Compartment Sensing System option - provides (2) light sensors which span the entry to the operator compartment.

T360 Support Plus Option - extended warranty + 1 year free maintenance

- + 10,000 lb. Capacity
- + Quad Pallet Forks (can carry 8 pallets)
- + Electric Steering
- + Largest compartment area

ADDITIONAL NOTES

Load wheel life for 10k loads may be an issue, depending upon floor condition.

- + Torsion Bar with Quick Adjust Casters
- Longest turning radius (134.4" vs. 98")
- Space for operator's right foot is small
- Hydraulic steer assist
- Does not have auto slow down when cornering

ADDITIONAL NOTES

Dual pedals on the floorboard make it difficult for operator to move feet positions

- + Electric Steering
- + Auto slow down when cornering
- + Integrated charger option
- Light duty (only 5,500 lb capacity)

ADDITIONAL NOTES

May not be available in double or triple length forks.



KEY FEATURES

STRONG & WEAK POINTS

TOYOTA CR1-LP60.80



Battery Voltage (V)
24

Load Capacity (lbs.)
6000-8000

Maximum Platform Height (in)
47

Travel speed with/without load (mph)
6.5/9.0

Fork Lift speed with/without load (fpm)
6.7/8.8 | 5.9/8.8

Operator Platform Lift Speed (fpm)
33

Turning Radius Left/Right (in)
99/101 | 119/121

Overall Width (in)
33.3

Length to Fork Face
63.6

✓+ Higher lift height (47" vs 38" elevated height)

✓+ Travel at Height

+ North American design and durability

✓+ Hands-free lowering

+ 21" heavy-duty operator compartment

+ IP65 protection from harsh environments

+ Large storage tray

+ Heavy duty design

+ 500 hour maintenance interval

ADDITIONAL NOTES

With the highest operator platform height (47" vs 38")

T360 Support Plus Option - extended warranty + 1 year free maintenance

YALE M055-80
HYSTER L02.5



Battery Voltage (V)
24

Load Capacity (lbs.)
6000-8000

Maximum Platform Height (in)
38.6

Travel speed with/without load (mph)
5.3/6.5

Fork Lift speed with/without load (fpm)
5/8

Operator Platform Lift Speed (fpm)
37

Turning Radius Left/Right (in)
111.3

Overall Width (in)
31.3

Length to Fork Face
64.8

+ Shortest turn radius

+ Optional 8 mph optional travel speed (empty)

+ Travel at Height

+ Hands free lowering

- Light duty "Euro" design

- No storage tray

ADDITIONAL NOTES

Note: front cover and backrest plastic content does not appear durable for a forklift in the N.A. market

CROWN GPC 3000 SERIES



Battery Voltage (V)
24

Load Capacity (lbs.)
6000

Maximum Platform Height (in)
37.4

Travel speed with/without load (mph)
5.3/7.8

Fork Lift speed with/without load (fpm)
n/a

Operator Platform Lift Speed (fpm)
n/a

Turning Radius Left/Right (in)
121.1

Overall Width (in)
31.9

Length to Fork Face
59.9

+ QuickPick Remote allows operator control the unit while walking along side or behind unit

+ Slows Speed Around Curves

+ Optional Fold down step for second level picking

+ Optional adjustable fold down lean seat

- 6000 lb maximum compared to 8k and 10k of competitors

- Cannot travel while platform is elevated

- Slower travel speeds

- Does not have hands free lowering

- Does not have IP65 protection

- No storage tray

- Light duty "Euro" design

KEY FEATURES

STRONG & WEAK POINTS

TOYOTA RF1-BH1X45



Battery Voltage (V)
36

Load Capacity (lbs.)
3500-4500

Load Center (in.)
24

Maximum lift height (in.)
372

Travel speed with/without load (mph)
7/7.5

Lift speed with/without load (fpm)
65/115

Right Angle Stack (40x48 Pallet)
99.7

Overall width (in.)
42.5

Length to Fork Face (in.)
55.3

Height of Overhead Guard (in.)
90.8

Step Height (in)
9.25

✓ + 4-Cylinder Open View Mast with view through carriage

+ Ductile Iron Baselegs

✓ + Choice of Fore-Aft or Side Stance

✓ + 7" Touch screen display

integrated with optional mast features

(camera, load weight, height indicator, etc.)

+ Load weight display standard

+ 500 hour maintenance interval

+ Inertial Dampener option (standard above 271")

+ Steered caster wheel option (standard above 271")

- Padded floorboard

ADDITIONAL NOTES

Single pedal on floorboard allows operator to change feet positions.

T360 Support Plus Option - extended warranty + 1 year free maintenance

HYSTER N40ZRS3



Battery Voltage (V)
36

Load Capacity (lbs.)
3500-4000

Load Center (in.)
24

Maximum lift height (in.)
272

Travel speed with/without load (mph)
6.5/6.5

Lift speed with/without load (fpm)
50/77

Right Angle Stack (40x48 Pallet)
98

Overall width (in.)
42.8

Length to Fork Face (in.)
54.21

Height of Overhead Guard (in.)
95

Step Height (in)
10.0

+ Choice of Fore-Aft or Side Stance

+ Suspended floorboard (optional)

+ Pedal-less operator presence system

+ Adjustable steer tiller, armrest, and backrest

- Steered caster wheel (Special request only)

+ Automotive steering (forward steering) in both directions with Fore-Aft Stance

- 7" color display is optional only

- Welded fabricated baselegs

- Restricted view through mast and carriage

CROWN RR5725-45



Battery Voltage (V)
36

Load Capacity (lbs.)
3500-4500

Load Center (in.)
24

Maximum lift height (in.)
400

Travel speed with/without load (mph)
7.2/8

Lift speed with/without load (fpm)
82/153

Right Angle Stack (40x48 Pallet)
n/a

Overall width (in.)
42

Length to Fork Face (in.)
52.91

Height of Overhead Guard (in.)
95

Step Height (in)
9.4

- Side-Stance only

+ Suspended floorboard

+ Available in standing or seated version

- Welded fabricated baselegs

- Load weight display optional (Capacity Data Monitor)

- Single line display limited information to operator

- Restricted view through mast and carriage

+ Anti-slip drive tire feature

ADDITIONAL NOTES

Dual pedals on the floorboard make it difficult for operator to move feet positions

JUNGHEINRICH ETR345



Battery Voltage (V)
36

Load Capacity (lbs.)
3000-4500

Load Center (in.)
24

Maximum lift height (in.)
450

Travel speed with/without load (mph)
7.5/7.5

Lift speed with/without load (fpm)
75/120

Right Angle Stack (40x48 Pallet)
n/a

Overall width (in.)
41.5

Length to Fork Face (in.)
55

Height of Overhead Guard (in.)
95

Step Height (in)
9.0

- Side stance only

- Butterfly dual pedal design is a bit awkward for entry/exit

- Small color display

+ 2-shift/1-charge marketing. This appears to have requirements that if applied to competitive models, the results would be similar.

- Padded floorboard

- Welded fabricated baselegs

- Restricted view through mast and carriage



KEY FEATURES

STRONG & WEAK POINTS

TOYOTA RF1-SD1X45



Battery Voltage (V)
36

Load Capacity (lbs.)
3500-4500

Load Center (in.)
24

Maximum lift height (in.)
372

Travel speed with/without load (mph)
6.5/8

Lift speed with/without load (fpm)
80/150

Right Angle Stack (40x48 Pallet)
101

Tractor width (in.)
42.5

Length to Fork Face (in.)
57.3

Height of Overhead Guard (in.)
93.4

Step Height (in)
9.25

HYSTER N45ZR3



Battery Voltage (V)
36

Load Capacity (lbs.)
4500

Load Center (in.)
24

Maximum lift height (in.)
368

Travel speed with/without load (mph)
6.5/7.5

Lift speed with/without load (fpm)
80/150

Right Angle Stack (40x48 Pallet)
101

Tractor width (in.)
42.6

Length to Fork Face (in.)
57.2

Height of Overhead Guard (in.)
95

Step Height (in)
10.0

CROWN RR5700



Battery Voltage (V)
36

Load Capacity (lbs.)
4500

Load Center (in.)
24

Maximum lift height (in.)
442

Travel speed with/without load (mph)
7.5/8.3

Lift speed with/without load (fpm)
82/153

Right Angle Stack (40x48 Pallet)
n/a

Tractor width (in.)
48

Length to Fork Face (in.)
56.66

Height of Overhead Guard (in.)
95

Step Height (in)
9.4

JUNGHEINRICH ETR345



Battery Voltage (V)
36

Load Capacity (lbs.)
3000-4500

Load Center (in.)
24

Maximum lift height (in.)
450

Travel speed with/without load (mph)
7.5/7.5

Lift speed with/without load (fpm)
75/120

Right Angle Stack (40x48 Pallet)
n/a

Tractor width (in.)
41.5

Length to Fork Face (in.)
55

Height of Overhead Guard (in.)
95

Step Height (in)
9.0

✓ + 4-Cylinder Open View Mast with view through carriage

+ Ductile Iron Baselegs

✓ + Choice of Fore-Aft or Side Stance

✓ + 7" Touch screen display

integrated with optional mast features

(camera, load weight, height indicator, etc.)

+ 500 hour maintenance interval

+ Inertial Dampener option (standard above 271")

- Padded floorboard

+ Available in standing or seated version

ADDITIONAL NOTES

Compartment Sensing System option - provides (2) light sensors which span the entry to the operator compartment

T360 Support Plus Option - extended warranty + 1 year free maintenance

- + Choice of Fore-Aft or Side Stance
- + Suspended floorboard (optional)
- + Pedal-less operator presence system
- + Adjustable steer tiller, armrest, and backrest
- Steered caster wheel (Special request only)
- + Automotive steering (forward steering) in both directions with Fore-Aft Stance
- 7" color display is optional only
- Welded fabricated baselegs
- + Regen/powered lowering option
- Restricted view through mast and carriage

- Side-Stance only
- + Suspended floorboard
- + Available in standing or seated version
- welded fabricated baselegs
- Load weight display optional (Capacity Data Monitor)
- Single line display limited information to operator
- Restricted view through mast and carriage
- + Anti-slip drive tire feature

ADDITIONAL NOTES

Dual pedals on the floorboard make it difficult for operator to move feet positions

- Side stance only
- Butterfly dual pedal design is a bit awkward for entry/exit
- Small color display
- + 2-shift/1-charge marketing. This appears to have requirements that if applied to competitive models, the results would be similar.
- Padded floorboard
- Welded fabricated baselegs
- Restricted view through mast and carriage

KEY FEATURES

STRONG & WEAK POINTS

TOYOTA RF1-HP1X45



Battery Voltage (V)
36

Load Capacity (lbs.)
4500

Load Center (in.)
24

Maximum lift height (in.)
444

Travel speed with/without load (mph)
6/8

Lift speed with/without load (fpm)
95/160

Right Angle Stack (40x48 Pallet)
109

Overall width (in.)
42.5

Length to Fork Face (in.)
62.2

Height of Overhead Guard (in.)
93.4

Step Height (in)
9.25

- ✓ + 4-Cylinder Open View Mast with view through carriage
 - + Ductile Iron Baselegs
- ✓ + Choice of Fore-Aft or Side Stance
- ✓ + 7" Touch screen display integrated with optional mast features (camera, load weight, height indicator, etc.)
 - + 500 hour maintenance interval
 - + Steered caster wheel option (standard above 271")
 - Padded floorboard
 - + Available in standing or seated version
 - + Regen lowering standard

ADDITIONAL NOTES

Single pedal on floorboard allows operator to change feet positions

T360 Support Plus Option - extended warranty + 1 year free maintenance

HYSTER N45ZR3



Battery Voltage (V)
36

Load Capacity (lbs.)
4500

Load Center (in.)
24

Maximum lift height (in.)
444

Travel speed with/without load (mph)
6.5/8

Lift speed with/without load (fpm)
95/175

Right Angle Stack (40x48 Pallet)
110

Overall width (in.)
42.6

Length to Fork Face (in.)
62.12

Height of Overhead Guard (in.)
95

Step Height (in)
10.0

- + Choice of Fore-Aft or Side Stance
- + Pedal-less operator presence system
- + Adjustable steer tiller, armrest, and backrest
- Steered caster wheel (Special request only)
- + Automotive steering (forward steering) in both directions with Fore-Aft Stance
 - 7" color display is optional only
 - Welded fabricated baselegs
- + Regen/powered lowering option
- Restricted view through mast and carriage
- Regen/powered lowering optional only

ADDITIONAL NOTES

Note: Hyster requires High Speed Option to match performance of TMH RF1-HP

CROWN RM6025-45



Battery Voltage (V)
36

Load Capacity (lbs.)
4500

Load Center (in.)
24

Maximum lift height (in.)
442

Travel speed with/without load (mph)
7.2/8

Lift speed with/without load (fpm)
95/160

Right Angle Stack (40x48 Pallet)
n/a

Overall width (in.)
42

Length to Fork Face (in.)
60.4

Height of Overhead Guard (in.)
95

Step Height (in)
9.4

- Side-Stance only
- + Suspended floorboard standard
- + Available in standing or seated version
 - Welded fabricated baselegs
- Load weight display optional (Capacity Data Monitor)
- Single line display limited information to operator
- + Powered lowering option (fastest lowering speed)
- Monomast restricts visibility to left outrigger and left front side of truck.
- + Anti-slip drive tire feature

ADDITIONAL NOTES

Powered lowering option - when considering cycle times, this option doesn't have significant increase at normal heights (less than 400")

Dual pedals on the floorboard make it difficult for operator to move feet positions

JUNGHEINRICH ETR345



Battery Voltage (V)
36

Load Capacity (lbs.)
3000-4500

Load Center (in.)
24

Maximum lift height (in.)
450

Travel speed with/without load (mph)
7.5/7.5

Lift speed with/without load (fpm)
75/120

Right Angle Stack (40x48 Pallet)
n/a

Overall width (in.)
41.5

Length to Fork Face (in.)
60

Height of Overhead Guard (in.)
95

Step Height (in)
9.0

- Side stance only
- Butterfly dual pedal design is a bit awkward for entry/exit
- Small color display
- + 2-shift/1-charge marketing. This appears to have requirements that if applied to competitive models, the results would be similar.
- Padded floorboard
- Welded fabricated baselegs
- Restricted view through mast and carriage



KEY FEATURES

STRONG & WEAK POINTS

TOYOTA RF1-HC1Z45



Battery Voltage (V)
36

Load Capacity (lbs.)
4500

Load Center (in.)
24

Maximum lift height (in.)
542

Travel speed with/without load (mph)
6.5/7.5

Lift speed with/without load (fpm)
90/168

Lowering Speed with/without load (fpm)
230/230

Right Angle Stack (40x48 Pallet)
112

Overall width (in.)
49.5

Length to Fork Face (in.)
65.2

Height of Overhead Guard (in.)
93.4

Step Height (in)
9.25

- ✓ + 4-Cylinder Open View Mast with view through carriage
 - + Ductile Iron Baselegs
- ✓ + Choice of Fore-Aft or Side Stance
- ✓ + 7" Touch screen display integrated with optional mast features
 - (camera, load weight, height indicator, etc.)
 - + Regen/High Speed lowering standard
 - + Load weight display standard
 - + 500 hour maintenance interval
 - + Inertial Dampener option (standard above 271")
 - + Steered caster wheel option (standard above 271")
 - Padded floorboard
 - + Available in standing or seated version
- + Multi-function handle –ease of use, precision control

ADDITIONAL NOTES
T360 Support Plus Option - extended warranty + 1 year free maintenance
Compartment Sensing System Option - provides (2) light sensors which span the entry to the operator compartment
Highest Reach Truck in the industry, best capacity at 505" (2000lbs)

CROWN RM6095S-45VV



Battery Voltage (V)
36

Load Capacity (lbs.)
4500

Load Center (in.)
24

Maximum lift height (in.)
505

Travel speed with/without load (mph)
7.5/8.3

Lift speed with/without load (fpm)
95/160

Lowering Speed with/without load (fpm)
110/110

Right Angle Stack (40x48 Pallet)
n/a

Overall width (in.)
48

Length to Fork Face (in.)
62.4

Height of Overhead Guard (in.)
89

Step Height (in)
9.4

- Side-Stance only
 - + Suspended floorboard
- + Available in standing or seated version
 - Welded fabricated baselegs
- Load weight display optional (Capacity Data Monitor)
- Single line display limited information to operator
- + Powered lowering option (240 fpm loaded/empty)
- Monomast restricts visibility to left outrigger and left front side of truck.
- + Anti-slip drive tire feature

ADDITIONAL NOTES
Dual pedals on the floorboard make it difficult for operator to move feet positions



KEY FEATURES

STRONG & WEAK POINTS

TOYOTA RRE200H



Battery Voltage (V)
48

Load Capacity (lbs.)
3000-5500

Load Center (in.)
24

Maximum lift height (in.)
512

Travel speed with/without load (mph)
6.8/8.7

Lift speed with/without load (fpm)
84.6/133.9

Turning Radius (in.)
72.4

Overall width (in.)
50

Length to Fork Face (in.)
54.2

Height of Overhead Guard (in.)
89

✓+ Available as indoor only or indoor/outdoor model

✓+ Industry exclusive tilting compartment model available

+ Highly adjustable operator compartment (floor, seat, steer tiller, armrest, controls)

+ 2-axis steer tiller adjustability

+ Flip-up steer tiller for ease of entry/exit

+ Optional air-ride seat

+ Large color, touchscreen interactive display

+ Ergonomic multi-function control

ADDITIONAL NOTES

T360 Support Plus Option – extended warranty + 1 year free maintenance

HYSTER R2.0HD



Battery Voltage (V)
48

Load Capacity (lbs.)
3000-5500

Load Center (in.)
24

Maximum lift height (in.)
501

Travel speed with/without load (mph)
8.7/8.7

Lift speed with/without load (fpm)
72.8/126

Turning Radius (in.)
69.6

Overall width (in.)
52.9

Length to Fork Face (in.)
54.8

Height of Overhead Guard (in.)
85.6

+ Heated, enclosed cab option available

+ Large color, touchscreen display

- 1-axis steer tiller adjustability

+ Cloth, vinyl, and heated seats available

+ Transparent overhead guard option available

+ Heated, enclosed cab option available

- Available as indoor model only

CROWN ESR1060-45



Battery Voltage (V)
48

Load Capacity (lbs.)
4500

Load Center (in.)
24

Maximum lift height (in.)
534

Travel speed with/without load (mph)
8.7/8.7

Lift speed with/without load (fpm)
116/140

Turning Radius (in.)
68.3

Overall width (in.)
50.6

Length to Fork Face (in.)
53

Height of Overhead Guard (in.)*
93.5

+ Large color, touchscreen display

+ Optional regenerative lowering

+ Adjustable operator compartment (floor, seat, steer tiller, armrest, controls)

+ 2-axis steer tiller adjustability

+ Heated, enclosed cab option available

- Available as indoor model only

JUNGHEINRICH ETV SERIES



Battery Voltage (V)
48

Load Capacity (lbs.)
4400

Load Center (in.)
24

Maximum lift height (in.)
511

Travel speed with/without load (mph)
8.7/8.7

Lift speed with/without load (fpm)
74.8/126

Turning Radius (in.)
67.3

Overall width (in.)
50.8

Length to Fork Face (in.)
51.8

Height of Overhead Guard (in.)
86.2

+ Available as indoor only or indoor/outdoor model

+ Heated, enclosed cab option available

- Color display is not touchscreen

- 1-axis steer tiller adjustability



KEY FEATURES

STRONG & WEAK POINTS

TOYOTA SR1 SERIES



Battery Voltage (V)
36

Load Capacity (lbs.)
3000-5000

Load Center (in.)
24

Maximum lift height (in.)
270.5

Travel speed with/without load (mph)
8.0/8.0

Lift speed with/without load (fpm)
65/110

Turning Radius (in.)
63

Overall width (in.)
42.5

Length to Fork Face (in.)
74

Height of Overhead Guard (in.)
88

Step Height (in)
9.4

✓ + 5000 lb capacity*

✓ + Suspension Floorboard with
no adjustment required**

✓ + High visibility mast***

- + Multi-function handle - ease of use, precision control
+ 500 hour PM interval
- + Better travel and lift speeds for higher throughput
- + Two pillar overhead guard - high RH side visibility

ADDITIONAL NOTES

Compartment Sensing System - provides (2) light sensors which span the entry to the operator compartment

Single pedal on floorboard allows operator to change feet positions
Robust design with 5000lb. capacity and 500 hour pm schedule as opposed to 250 hour PM schedule

T360 Support Plus Option - extended warranty + 1 year free maintenance

* On HP model only

** Comfort stance floor std. on HP, opt. on BE

*** 4 cylinder design, on HP model only

CROWN 5700 SERIES



Battery Voltage (V)
36

Load Capacity (lbs.)
3000-4000

Load Center (in.)
24

Maximum lift height (in.)
276

Travel speed with/without load (mph)
7.2/7.2

Lift speed with/without load (fpm)
55/110

Turning Radius (in.)
62.8

Overall width (in.)
42

Length to Fork Face (in.)
71.5

Height of Overhead Guard (in.)
88

Step Height (in)
9.5

- 5000 lb capacity not available

- Suspension floorboard requires adjustment

- Slower performance

+ Adjustable armrest

- 250 hour PM interval

- Noisy gearbox / mast rattle / mast staging

HYSTER E30-40HSD SERIES
YALE ESC030-40AD



Battery Voltage (V)
36

Load Capacity (lbs.)
3000-4000

Load Center (in.)
24

Maximum lift height (in.)
283

Travel speed with/without load (mph)
7.2/7.2

Lift speed with/without load (fpm)
59/83

Turning Radius (in.)
57.4

Overall width (in.)
42

Length to Fork Face (in.)
71

Height of Overhead Guard (in.)
88

Step Height (in)
9.5

- 5000 lb capacity not available

+ Suspension Floorboard with no adjustment required

- Slowest performance

+ Smallest turning radius

JUNGHEINRICH ETG SERIES



Battery Voltage (V)
36

Load Capacity (lbs.)
3000-4000

Load Center (in.)
24

Maximum lift height (in.)
276

Travel speed with/without load (mph)
8.0/8.0

Lift speed with/without load (fpm)
83/118

Turning Radius (in.)
57.8

Overall width (in.)
41

Length to Fork Face (in.)
71

Height of Overhead Guard (in.)
88

Step Height (in)
9.4

- 5000 lb capacity not available

- Suspension floorboard requires adjustment

+ Best performance

+ Adjustable armrest

+ 1000 hour PM interval

+ Smaller tiller = more space in compartment

ADDITIONAL NOTES

1000 hour PM interval - this may not be an apples to apples comparison as the customer may have to do more of their own maintenance on Jungheinrich trucks