



KEY SPECIFICATION COMPARISON

The following section compares critical truck specifications between major lift truck manufactures around the world. The specifications compared are features that are a part of the standard truck configurations among all manufacturers. Some of the Key Specifications compared are listed below:

General Information: Tilt angles, Wheelbase, Fork size and spread, Drive and Steer tire sizes, Capacity

Power: 36 volt / 48 volt electrical system

Performance Data: Maximum Fork Height (MFH) with rated capacity, Traction Speeds – Loaded and Unloaded, Gradeability, Turning Radius

Mast Assembly: Maximum Fork Height, Over All Height (OAH)
Maximum FreeLift

3000# CUSHION COMPETITIVE FEATURE & SPECIFICATION COMPARISON

MANUFACTURER	HYSTER	MITSUBISHI	NISSAN	TOYOTA	YALE	LINDE	CLARK
General Information							
Model	J30XMT ₂	FB16KT	TN30	5FBE15	ERP030TG	E15S	TMG15
Capacity	3000 Lbs.	3000 Lbs.	3000 Lbs.	3000 Lbs.	3000 Lbs.	3000 Lbs.	3000 Lbs.
Tilt Angles / Standard Mast (degree)	5° Forward \ 7° back	6° Forward \ 7° Back	4° Forward \ 6° Back	5° Forward \ 6.5° Back	5° Forward \ 7° back	5° Forward \ 8° back	3° Forward \ 5° back
Load Center	24 Inch	24 Inch	24 Inch	24 Inch	24 Inch	24 Inch	24 Inch
Power	Electric / 36 Volt (48 Volt Optional)	Electric / 36 Volt (48 Volt Optional)	Electric / 36 Volt NO 48 Volt Offering	Electric / 36 Volt (48 Volt Optional)	Electric / 36 Volt (48 Volt Optional)	Electric / 36 Volt (48 Volt Optional)	Electric / 36 Volt (48 Volt Optional)
Drive & Steer Wheels	Cushion	Cushion	Cushion	Cushion	Solid Pneumatic	Cushion	Cushion
Total over all Length	71	74.5	73	75	71	77.3	76.1
Wheelbase	50.8	50.8	50.2	51	50.8	56.9	52.7
Standard Fork Size	4 x 1.5	4 x 1.4	4 x 1.5	4 x 1.4	4 x 1.5	4 x 1.5	4 x 1.5
Standard Fork Spread	37.7	36					
Drive (front) Tire Size	18 x 7 x 12.1	18 x 7 x 12.1	18 x 7 x 12.125	18 x 7 x 12.125	18 x 7 x 8	18 x 5 x 12.125	18 x 5 x 12.125
Steer (rear) Tire Size	15 x 4 x 11.25	15 x 4 x 11.25	18 x 7 x 12.125	18 x 7 x 12.125	15 x 4.5 x 8	15 x 4.5 x 8	18 x 5 x 12.125
Height:to top of OHG	78	80.5	77.4	76.8	78	77	83
Ground Clearance: mast	3.5	3.5	3	3.1	3.5	3.8	3.25
Ground Clearance: Center of Wheelbase	4	4	3.9	4.2	4	4.3	4.1
Performance Data							
Minimum Outside Turn Radius	58.3	60	58.9	59	58.3	63.6	59.8
Minimum Aisle Right Angle Stacking	71.6	75	73	74	71.6	77.3	74.1
Travel Speed Loaded	36v = 7.4 mph 48v = 8.3 mph	36 v = 8.1mph 48v = 8.7 mph	36v = 8.8 mph	36v = 7.8 mph 48v = 7.8 mph	36v = 7.4 mph 48v = 8.3 mph	36v = 6.5 mph 48v = 8.4 mph	36v = 8.7 mph 48v = 8.7 mph
Travel Speed Unloaded	36v = 8.0 mph 48v = 8.8 mph	36 v = 9.3 mph 48v = 9.9 mph	36v = 9.0 mph	36v = 8.7 mph 48v = 8.7 mph	36v = 8.0 mph 48v = 8.8 mph	36v = 7.5 mph 48v = 10 mph	36 v = 8.8 mph 48v = 8.8 mph

3000# CUSHION COMPETITIVE FEATURE & SPECIFICATION COMPARISON

MANUFACTURER	HYSTER	MITSUBISHI	NISSAN	TOYOTA	YALE	LINDE	CLARK
Gradeability Loaded	9%	13%	16%	24%	9%	17%	16%
Lifting Speeds (Loaded \ Unloaded)	36v = 65 \ 95 48v = 80 \ 115	36v = 59 \ 89 48v = 79 \ 120	59.1 \ 98.5	36v = 51 \ 94 48v = 55 \ 98	36v = 65 \ 95 48v = 80 \ 115	36v = 63 \ 89 48v = 86 \ 120	36v = 63 \ 101 48v = 63 \ 101
Lowering Speeds (Loaded \ Unloaded)	100 \ 93	100 \ 98	98.5 \ 108.3	83 / 99	100 \ 93	114 \ 94	95 \ 83
Hydraulic Attachment Relief Pressure	2850 psi	2625psi	Information Not Available	Information Not Available	2850 psi	Information Not Available	Information Not Available
Mast							
Standard Mast OAH	78	83	82.9	83.5	78	82	83
Standard Mast MFH	119	130	130	131	119	129.5	122
Standard Mast Free Lift	5.5	4.5	61.4	5.7	5.5	2.9	5.5

3500# CUSHION COMPETITIVE FEATURE & SPECIFICATION COMPARISON

MANUFACTURER	HYSTER	MITSUBISHI	NISSAN	TOYOTA	YALE	LINDE	CLARK
General Information							
Model	J35XMT ₂	FB18KT	TN35	5FBE15	ERP035TG	E16	TMG17
Capacity	3500 Lbs.	3500 Lbs.	3500 Lbs.	3500 Lbs.	3500 Lbs.	3500 Lbs.	3500 Lbs.
Tilt Angles \ Standard Mast (degree)	5° Forward \ 7° back	7° Forward \ 6° Back	4° Forward \ 6° Back	5° Forward \ 6.5° Back	5° Forward \ 7° back	5° Forward \ 8° back	3° Forward \ 5° back
Load Center	24 Inch	24 Inch	24 Inch	24 Inch	24 Inch	24 Inch	24 Inch
Power	Electric / 36 Volt (48 Volt Optional)	Electric / 36 Volt (48 Volt Optional)	Electric / 36 Volt NO 48 Volt Offering	Electric / 36 Volt (48 Volt Optional)	Electric / 36 Volt (48 Volt Optional)	Electric / 36 Volt (48 Volt Optional)	Electric / 36 Volt (48 Volt Optional)
Drive & Steer Wheels	Cushion	Cushion	Cushion	Cushion	Solid Pneumatic	Cushion	Cushion
Total over all Length	74.8	79	74.4	76	74.8	77.5	76.1
Wheelbase	54.5	55.5	50.2	51	54.5	56.9	52.7
Standard Fork Size	4 x 1.5	4 x 1.4	4 x 1.5	4 x 1.4	4 x 1.5	4 x 1.5	4 x 1.5
Standard Fork Spread	37.7	36					
Drive (front) Tire Size	18 x 7 x 12.1	18 x 7 x 12	18 x 7 x 12.125	18 x 7 x 12.125	18 x 7 x 8	18 x 5 x 12.125	18 x 5 x 12.125
Steer (rear) Tire Size	15 x 4 x 11.25	15 x 5 x 11.25	18 x 7 x 12.125	18 x 7 x 12.125	15 x 4.5 x 8	15 x 4.5 x 8	18 x 5 x 12.125
Height:to top of OHG	78	80.5	77.4	76.8	78	77	83
Ground Clearance: mast	3.5	2.9	3	3.1	3.5	3.8	3.25
Ground Clearance: Center of Wheelbase	4	3.9	3.9	4.2	4	4.3	4.1
Performance Data							
Minimum Outside Turn Radius	61.8	64	60	61	61.8	63.8	59.8
Minimum Aisle Right Angle Stacking	75.1	79	74.4	76	75.1	77.3	74.1
Travel Speed Loaded	36v = 7.1 mph 48v = 8.2 mph	36v = 8.1mph 48v = 8.7 mph	8.7 mph	36v = 7.5 mph 48v = 7.5 mph	36v = 7.1 mph 48v = 8.2 mph	36v = 6.5 mph 48v = 8.4 mph	36v = 8.7 mph 48v = 8.7 mph
Travel Speed Unloaded	36v = 7.8 mph 48v = 8.7 mph	36v = 9.3 mph 48v = 9.9 mph	8.7 mph	36v = 8.4 mph 48v = 8.4 mph	36v = 7.8 mph 48v = 8.7 mph	36v = 7.5 mph 48v = 10 mph	36v = 8.8 mph 48v = 8.8 mph

3500# CUSHION COMPETITIVE FEATURE & SPECIFICATION COMPARISON

MANUFACTURER	HYSTER	MITSUBISHI	NISSAN	TOYOTA	YALE	LINDE	CLARK
Gradeability Loaded	7.60%	13%	15%	21%	7.60%	17%	15.60%
Lifting Speeds (Loaded \ Unloaded)	36v = 60 \ 95 48v = 75 \ 115	36v = 57 \ 89 48v = 77 \ 120	55.1 \ 98.5	36v = 41 \ 87 48v = 49 \ 94	36v = 60 \ 95 48v = 75 \ 115	36v = 63 \ 89 48v = 73 \ 116	36v = 59 \ 101 48v = 59 \ 101
Lowering Speeds (Loaded \ Unloaded)	100 \ 93	100 \ 98	98.5 \ 108.3	83 / 99	100 \ 93	98 \ 87	95 \ 83
Hydraulic Attachment Relief Pressure	2850 psi	2625psi	Information Not Available	Information Not Available	2850 psi	Information Not Available	Information Not Available
Mast							
Standard Mast OAH	78	83	82.9	83.5	78	82	83
Standard Mast MFH	119	130	130	131	119	129.5	122
Standard Mast Free Lift	5.5	4.5	60.2	5.7	5.5	2.9	5.5

4000# CUSHION COMPETITIVE FEATURE & SPECIFICATION COMPARISON

MANUFACTURER	HYSTER	MITSUBISHI	NISSAN	TOYOTA	YALE	LINDE	CLARK
General Information			Does not offer a 4000 Lb. Capacity Truck			Does not offer a 4000 Lb. Capacity Truck	
Model	J40XMT ₂	FB20KT		5FBE20	ERP040TG		TMG20
Capacity	4000 Lbs.	4000 Lbs.		4000 Lbs.	4000 Lbs.		4000 Lbs.
Tilt Angles \ Standard Mast (degree)	5° Forward \ 7° back	6° Forward \ 7° Back		5° Forward \ 6.5° Back	5° Forward \ 7° back		3° Forward \ 5° back
Load Center	24 Inch	24 Inch		24 Inch	24 Inch		24 Inch
Power	Electric / 36 Volt (48 Volt Optional)	Electric / 36 Volt (48 Volt Optional)		Electric / 36 Volt (48 Volt Optional)	Electric / 36 Volt (48 Volt Optional)		Electric / 36 Volt (48 Volt Optional)
Drive & Steer Wheels	Cushion	Cushion		Cushion	Solid Pneumatic		Cushion
Total over all Length	74.8	80		79.1	74.8		76.1
Wheelbase	54.5	55.5		51	54.5		52.7
Standard Fork Size	4 x 1.5	4 x 1.4		4 x 1.4	4 x 1.5		4 x 1.5
Standard Fork Spread	37.7	36					
Drive (front) Tire Size	18 x 7 x 12.1	18 x 7 x 12		18 x 7 x 12.125	20/50 - 10		18 x 8 x 12.125
Steer (rear) Tire Size	15 x 4 x 11.25	15 x 5 x 11.25		16 x 5 x 10.5	15 x 4.5 x 8		18 x 7 x 12.125
Height:to top of OHG	78	83		76.5	78		83
Ground Clearance: mast	3.5	2.9		2.4	3.5		3.25
Ground Clearance: Center of Wheelbase	4	3.9		3.9	4		4.1
Performance Data							
Minimum Outside Turn Radius	61.8	65		63.5	61.8		59.8
Minimum Aisle Right Angle Stacking	75.1	80		79	75.1		74.1
Travel Speed Loaded	36v = 6.9 mph 48v = 8.1 mph	36v = 8.1mph 48v = 8.7 mph		36v = 7.1 mph 48v = 7.1 mph	36v = 6.9 mph 48v = 8.1 mph		36v = 8.7 mph 48v = 8.7mph
Travel Speed Unloaded	36v = 7.7 mph 48v = 8.6 mph	36v = 9.3 mph 48v = 9.9 mph		36v = 8.1 mph 48v = 8.1 mph	36v = 7.7 mph 48v = 8.6 mph		36v = 8.8 mph 48v = 8.8 mph

4000# CUSHION COMPETITIVE FEATURE & SPECIFICATION COMPARISON

MANUFACTURER	HYSTER	MITSUBISHI	NISSAN	TOYOTA	YALE	LINDE	CLARK
Gradeability Loaded	7.60%	11%		20%	7.60%		15.60%
Lifting Speeds (Loaded \ Unloaded)	36v = 55 \ 95 48v = 70 \ 115	36v = 55 \ 89 48v = 75 \ 120		36v = 40 \ 87 48v = 47 \ 94	36v = 55 \ 95 48v = 70 \ 115		36v = 55 \ 101 48v = 55 \ 101
Lowering Speeds (Loaded \ Unloaded)	100 \ 93	100 \ 98		98 \ 108	100 \ 93		95 \ 83
Hydraulic Attachment Relief Pressure	2850 psi	2625psi		Information Not Available	2850 psi		Information Not Available
Mast							
Standard Mast OAH	78	83		77.5	78		83
Standard Mast MFH	119	130		119	119		122
Standard Mast Free Lift	5.5	4.5		5.7	5.5		5.5

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