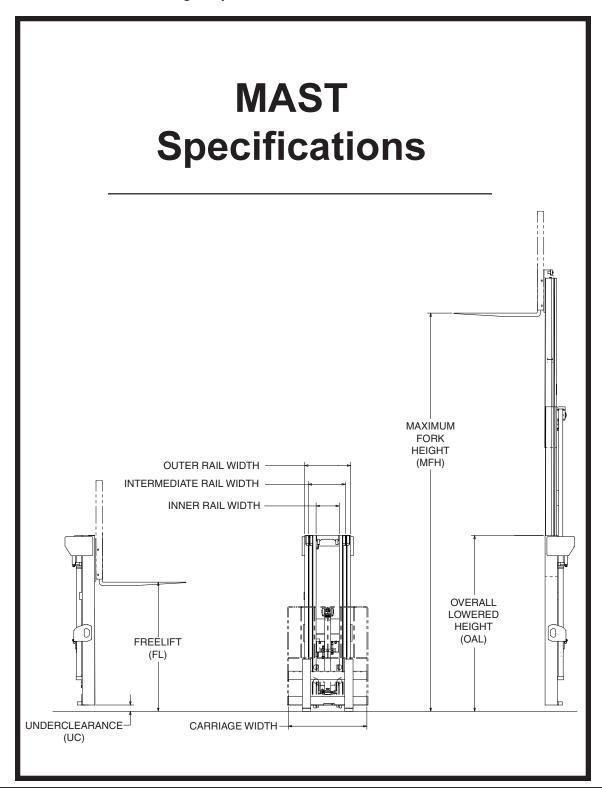


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Specifications, equipment, technical data and illustrations are based on information at time of printing and subject to change without notice. Please contact Lift Technologies.

	Underclearance -	<u> </u>	Free Lift (D) 0.5"	Overall Lowered Height (E)	I	Maxim Fork He (B)	Mi M: um eight	uter Width N - 24.9" S - 24.9" D - 24.9" (A)	——Inner Width MN - 21.7' MS - 18.1" MD - 18.1"
	Capacity (lb. @ 24" Load Center)	Underclearance	Maximum Fork Height (B)	Overall Lowered Height (E)	Visibility Window (A)	Order Ref No.	Free Lift (D)	Fluid to Extend (gals)	Weight (lb.)
MN Mono	2500	2"	53.1"	69.5"	26.7"	25ST-MN-C069.5	N/A"	0.3	220
Single Stage (freelift only)	2500	2"	65.0"	81.5"	32.7"	25ST-MN-C081.5	N/A"	0.4	235
	2500	2"	72.0"	55.0"	N/A	25ST-MS-C055	0"	0.4	575
MS Standard	2500	2"	104.0"	71.0"	N/A	25ST-MS-C071	0"	0.5	680
Two Stage (no freelift)	2500	2"	112.0"	75.0"	N/A	25ST-MS-C075	0"	0.6	705
	2500	2"	128.0"	83.0"	N/A	25ST-MS-C083	0"	0.7	765
	2500	2"	144.0"	91.0"	N/A	25ST-MS-C091	0"	0.8	835
MD	2500	2"	104.0"	71.0"	23.6"	25ST-MD-C071	51.5"	1.0	650
Dual Two Stage (full freelift)	2500	2"	112.0"	75.0"	25.6"	25ST-MD-C075	55.5"	1.1	675
(iuii iieeiiit)	2500	2"	128.0"	83.0"	29.6"	25ST-MD-C083	63.5"	1.3	730
	2500	2"	144.0"	91.0"	33.6"	25ST-MD-C091	71.5"	1.4	780

Specify truck model, carriage and load backrest separately.

Specifications on this page inlcude a 31" wide 4 roller class II carriage and no load back rest.

Carriages

4 Roller Carriage

Width	ITΑ	Weight
"C"	Class	(lb.)
31"	II 25ST-MN-01A	111
31"	II 25ST-MS-01A	111
31"	Ⅱ 25ST-MD-01A	91

Hydraulic Information

▶ Pressures and Flows: The 25ST mast models have a minimum hydraulic system pressure to lift the rated load well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. The mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application.

See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
25ST-MN/MS/MD	2350	3000	1	1.75 to 3

^{*} Pressure in pounds per square inch (psi)

Load Backrest

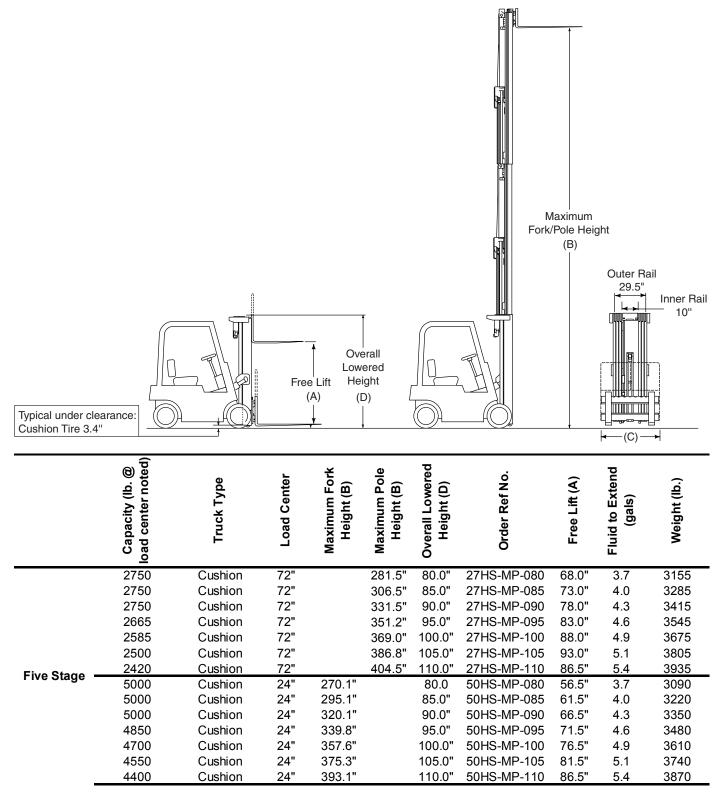
Width	Height	ITA Class	Ref#	Weight (lb.)
31"	40"	II	7183402	44

▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

▶ Contact Lift Technologies for further information on specifications and visibility.

^{**} Flow rate in gallons per minute (gpm)

27HS/50HS MP 5 Stage Mast



^{▶ 27}HS-MP: Specifications listed reflect a mast with an integral 8 roller carpet pole carriage and include a 270 lb. @ 12' carpet pole. Final mast weight shown does not include the carpet pole.

^{▶ 50}HS-MP: Specification listed reflects a mast with a 41" wide, class II 8-roller carriage and a 48" high load backrest. 3000 psi system pressure is required to achieve 5000 lb. capacity.

27HS/50HS MP 5 Stage Carriage, Load Backrest and Hydraulic Options

Carriages

8 Roller Carriages - Class II

Width	Truck	IΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
41"	Cushion	CLII	266735	245
49"	Cushion	CLII	266736	275

8 Roller Carriages - Class III

Width	Truck	ΙΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
41"	Cushion	CLIII	266181	255
49"	Cushion	CLIII	266737	285

Integral Carpet Pole Carriages8 Roller

Pole	Truck	IΤΑ		Weight
Dia.	Type	Class	Ref#	(lb.)
3"	Cushion	N/A	266182	300
3.25"	Cushion	N/A	266711	300
3.5"	Cushion	N/A	266712	300

▶ 27HS-MP masts include integral 8 roller carpet pole carriage. Final weight of the mast does not include the carpet pole.

Carpet poles available through Lift Technologies.

Load Backrests

		ΠА		Weight
Width	Height	Class	Ref#	(lb.)
41"	48"	CLII	684776	90
49"	48"	CLII	674779	99

		Weight		
Width	Height	Class	Ref#	(lb.)
41"	48"	CLIII	684788	91
49"	48"	CLIII	684791	100

▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Push Back Racking and Heavy Attachment Use

Please refer to the Important Instructions on page 58 of this publication with information on " Hydraulic Oil Flow Rates" to determine what mast options are required.

Other Important Information!

▶ Pressures and Flows: The 27HS & 50HS mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 30 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
27HS MP	2150	3000	1	19
50HS MP	2600	3000	1	19

^{*} Pressure in pounds per square inch (psi)

^{**} Flow rate in gallons per minute (gpm)

Fax: 864-647-5406

Typical under clea Cushion tire 3" Pneumatic tire 5"	arance:		Lo Free Lift H	verall wered eight (E)		Maxim Fork He (B)	ium eight	Outer Rail MS - 21.7" MT - 21.7" (A	Inner Rail - MS - 14.6" MT - 10.9")
	Capacity (lb. @ 24" Load Center)	Truck Type	Maximum Fork Height (B)	Overall Lowered Height (E)	Visibility Window (A)	Order Ref No.	Free Lift (D)	Fluid to Extend (gals)	Weight (lb.)
	3000	Cushion Pneumatic	81.5" 81.5"	60.0" 62.0"	N/A N/A	30D-MS-C060 30D-MS-P062	5.5"	0.7	870
-	3000	Cushion	105.5"	72.0"	N/A	30D-MS-C072	5.5"	0.9	950
=		Pneumatic	105.5"	74.0"	N/A	30D-MS-P074	5.5	0.9	
	3000	Cushion Pneumatic	115.5" 115.5"	77.0" 79.0"	N/A N/A	30D-MS-C077 30D-MS-P079	5.5"	1.0	985
Standard -	2000	Cushion	127.5"	83.0"	N/A	30D-MS-C083	5.5"	1.1	1025
Two Stage MS -	3000	Pneumatic	127.5"	85.0"	N/A	30D-MS-P085	5.5	1.1	1025
IVIO	3000	Cushion	139.5"	89.0"	N/A	30D-MS-C089	5.5"	1.2	1070
_		Pneumatic	139.5"	91.0"	N/A	30D-MS-P091			
	3000 -	Cushion Pneumatic	151.5" 151.5"	95.0" 97.0"	N/A N/A	30D-MS-C095 30D-MS-P097	5.5"	1.3	1110
-		Cushion	169.5"	104.0"	N/A	30D-MS-C104			
	3000	Pneumatic	169.5"	106.0"	N/A	30D-MS-P106	5.5"	1.4	1170
	2022	Cushion	119.0"	60.0"	18.5"	30D-MT-C060	00.0"	4.0	4405
	3000	Pneumatic	119.0"	62.0"	18.5"	30D-MT-P062	36.0"	1.0	1135
_	3000	Cushion	155.0"	72.0"	24.5"	30D-MT-C072	48.0"	1.4	2366
_		Pneumatic	155.0"	74.0"	24.5"	30D-MT-P074	40.0	1	2000
	3000	Cushion	170.0"	77.0"	27.0"	30D-MT-C077	53.0"	1.5	1305
Triple -		Pneumatic	170.0"	79.0"	27.0"	30D-MT-P079			
Three Stage	3000	Cushion	188.0" 188.0"	83.0"	30.0"	30D-MT-C083 30D-MT-P085	59.0"	1.7	1365
MT -		Pneumatic Cushion	202.0"	85.0" 89.0"	30.0" 33.0"	30D-MT-C089			
	3000	Pneumatic	202.0"	91.0"	33.0"	30D-MT-P091	65.0"	1.8	1425
-		Cushion	216.0"	95.0"	36.0"	30D-MT-C095	_,		
	2720	Pneumatic	216.0"	97.0"	36.0"	30D-MT-P097	71.0"	1.9	1480
-	2100	Cushion	235.0"	104.0"	39.0"	30D-MT-C104	90 0"	2.4	1570
	2190	Pneumatic	235.0"	106.0"	39.0"	30D-MT-P106	80.0"	2.1	1570

[▶] Specify carriage or sideshifter and load backrest separately.

Phone: 864-647-1119

[▶] Masts are available in 1" down height increments with maximum fork heights from 81.5" to 235".

[▶] Specifications noted within this page reflect the use of a 37" wide 6 roller class II carriage and 48" high load backrest. Free lift specification does not include a load backrest.

	Truck	ΠА		Weight
Width (C)	Type	Class	Ref#	(lb.)
37"	Cushion	II	30D-ISS-021A	211
37"	Pneumatic	II	30D-ISS-022A	211
41"	Cushion	ll l	30D-ISS-023A	224
41"	Pneumatic		30D-ISS-024A	224

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast, they are installed complete with a hose kit, tested and ready for use.
- ▶ Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

4 Roller Carriages

	Truck	IΤΑ		Weight
Width (C)	Type	Class	Ref#	(lb.)
31"	Cushion		30D-MC-01A	139
31"	Pneumatic		30D-MC-02A	139
37"	Cushion		30D-MC-03A	188
37"	Pneumatic		30D-MC-04A	188
41"	Cushion		30D-MC-05A	204
41"	Pneumatic	ll l	30D-MC-06A	204

▶ 4 Roller Carriages are recommended for fork and hang-on sideshifter applications.

6 Roller Carriages

•	Truck	IΤΑ		Weight
Width (C)	Type	Class	Ref#	(lb.)
31"	Cushion	ll l	30D-MC-011A	146
31"	Pneumatic	I	30D-MC-012A	146
37"	Cushion		30D-MC-013A	194
37"	Pneumatic	I	30D-MC-014A	194
41"	Cushion		30D-MC-015A	210
41"	Pneumatic		30D-MC-016A	210

▶ 6 Roller Carriages are recommended for all other attachment applications.

Load Backrests

Width	Height	Ref#	Weight (lb.)	
31"	48"	684770	75	
37"	48"	684773	83	
41"	48"	684776	90	

- ▶ Backrests are also available in 36" and 60" heights and heavy duty designs.
- ➤ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MS and MT masts.
 For units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- ► Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and Heavy Attachment Use

Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

- ► The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MS and MT masts.
- Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MS and MT masts. Contact Lift Technologies for complete specifications.

Other Important Information!

▶ Pressures and Flows: The 30D mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 13 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
30D MS	2050	2750	1	10
30D MT	2150	2750	1	10

- * Pressure in pounds per square inch (psi)
- ** Flow rate in gallons per minute (gpm)

Typical under clea Cushion tire 3" Pneumatic tire 5"	rance:		Î L	Overall owered Height (E)		Maxir Fork H (E	leight	Outer Rail MS - 24.3" MT - 24.3"	Inner Rail _MS - 17.3" MT - 13.6"
	Capacity (lb. @ 24" Load Center)	Truck Type	Maximum Fork Height (B)	Overall Lowered Height (E)	Visibility Window (A)	Order Ref No.	Free Lift (D)	Fluid to Extend (gals)	Weight (lb.)
	3000	Cushion Pneumatic	81.5" 81.5"	77.0" 79.0"	N/A N/A	ES30-MS-C077 ES30-MS-P079	5.5"	0.8	865
Standard	3000	Cushion Pneumatic	115.5" 115.5"	83.0" 85.0"	N/A N/A	ES30-MS-C083 ES30-MS-P085	5.5"	1.1	980
Two Stage - MS	3000	Cushion Pneumatic	127.5" 127.5"	89.0" 91.0"	N/A N/A	ES30-MS-C089 ES30-MS-P091	5.5"	1.2	1020
	3000	Cushion Pneumatic	151.5" 151.5"	95.0" 97.0	N/A N/A	ES30-MS-C095 ES30-MS-P097	5.5"	1.4	1100
	3000	Cushion Pneumatic	170.0" 170.0"	77.0" 79.0"	27.3" 27.3"	ES30-MT-C077 ES30-MT-P079	52.4"	1.7	1420
-	3000	Cushion Pneumatic	188.0" 188.0"	83.0" 85.0"	30.3" 30.3"	ES30-MT-C083 ES30-MT-P085	58.4"	1.9	1490
Triple Stage MT	3000	Cushion Pneumatic	202.0" 202.0"	89.0" 91.0"	33.3" 33.3"	ES30-MT-C089 ES30-MT-P091	64.4"	2.0	1555
_	3000	Cushion Pneumatic	216.0" 216.0"	95.0" 97.0"	36.3" 36.3"	ES30-MT-C095 ES30-MT-P097	70.4"	2.1	1625
	2690	Cushion Pneumatic	235.0" 235.0"	104.0" 106.0"	39.3" 39.3"	ES30-MT-C104 ES30-MT-P106	79.4"	2.3	1730

[▶] Specify carriage or sideshifter and load backrest separately.

[▶] Masts are available in 1" down height increments with maximum fork heights from 79.5" to 272".

[▶] Specifications noted within this page reflect the use of a 37" wide 6 roller class Il carriage and 48" high load backrest. Free lift specification does not include a load backrest.

Wid	th Truck	ITA		Weight
"C	" Type	Class	Ref#	(lb.)
37	" Cushion	1	ES30-ISS-021A	211
37	" Pneumat	ic II	ES30-ISS-022A	211
41	" Cushion	1	ES30-ISS-023A	224
41	" Pneumat	ic II	ES30-ISS-024A	ZZ4

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- ▶ Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

4 Roller Carriages

Width	Truck	ITA		Weight
"C"	Туре	Class	Ref#	(lb.)
37"	Cushion	II	ES30-MC-01A	156
37"	Pneumatic	II	ES30-MC-02A	150
41"	Cushion	II	ES30-MC-03A	163
41"	Pneumatic	II	ES30-MC-04A	103

▶ 4 Roller Carriages are recommended for fork and hang-on sideshifter applications.

6 Roller Carriages

Width	Truck	IΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
37"	Cushion	II	ES30-MC-011A	174
37"	Pneumatic	II	ES30-MC-012A	174
41"	Cushion	II	ES30-MC-013A	181
41"	Pneumatic	II	ES30-MC-014A	101

▶ 6 Roller Carriages are recommended for all other attachment applications.

Load Backrests

Width	Height	Ref#	Weight (lb.)	
37"	48"	684773	83	
41"	48"	684776	90	

- ▶ Backrests are also available in 36" and 60" heights and heavy duty designs.
- ▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MS and MT masts.
 For units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- ► Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and Heavy Attachment Use

Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

- ► The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MS and MT masts.
- Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MS and MT masts. Contact Lift Technologies for complete specifications.

Other Important Information!

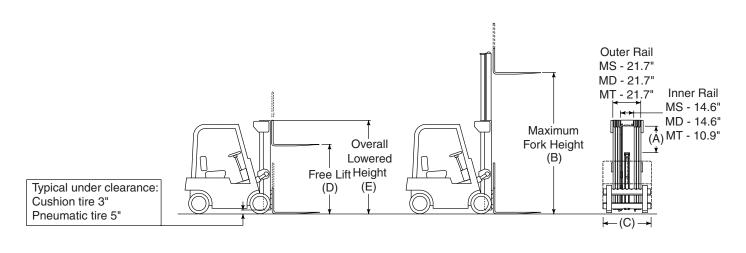
▶ Pressures and Flows: The ES30 mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 16 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

Min	Max	Minimum	Recommended
Pressure*	Pressure*	Flow**	Flow**
1850	2750	1	11
2000	2750	1	11
	Pressure* 1850	Pressure* Pressure* 1850 2750	Pressure* Pressure* Flow** 1850 2750 1

^{*} Pressure in pounds per square inch (psi)

^{**} Flow rate in gallons per minute (gpm)

Fax: 864-647-5406



	Capacity (lb. @ 24" Load Center)	Truck Type	Maximum Fork Height (B)	Overall Lowered Height (E)	Visibility Window (A)	Order Ref No.	Free Lift (D)	Fluid to Extend (gals)	Weight (lb.)
	3500	Cushion	115.5"	77.0"	N/A	35D-MS-C077	5.5"	1.1	1050
_		Pneumatic	115.5"	79.0"	N/A	35D-MS-P079			
Standard	3500	Cushion	127.5"	83.0"	N/A	35D-MS-C083	5.5"	1.2	1090
Two Stage -		Pneumatic	127.5"	85.0"	N/A	35D-MS-P085			
MS	3500	Cushion	139.5"	89.0"	N/A	35D-MS-C089	5.5"	1.3	1140
_		Pneumatic	139.5"	91.0"	N/A	35D-MS-P091			
	3500	Cushion	151.5"	95.0"	N/A	35D-MS-C095	5.5"	1.4	1185
		Pneumatic	151.5"	97.0"	N/A	35D-MS-P097			
	3500	Cushion	115.5"	77.0"	27.0"	35D-MD-C077	53.0"	1.2	1145
Dual -		Pneumatic	115.5"	79.0"	27.0"	35D-MD-P079			
Two Stage	3500	Cushion	127.5"	83.0"	30.0"	35D-MD-C083	59.0"	1.3	1195
MD -		Pneumatic	127.5"	85.0"	30.0"	35D-MD-P085			
(with free	3500	Cushion	139.5"	89.0"	33.0"	35D-MD-C089	65.0"	1.4	1245
lift) –		Pneumatic	139.5"	91.0'	33.0"	35D-MD-P091			
·	3500	Cushion	151.5"	95.0"	36.0"	35D-MD-C095 35D-MD-P097	71.0"	1.5	1290
		Pneumatic	151.5" 170.0"	97.0" 77.0"	36.0"				
	3500	Cushion			27.0"	35D-MT-C077	53.0"	1.7	1410
-		Pneumatic Cushion	170.0" 188.0"	79.0" 83.0"	27.0" 30.0"	35D-MT-P079 35D-MT-C083			
Triple	3500		188.0"	85.0"	30.0"	35D-MT-P085	59.0"	1.8	1475
Three Stage -		Pneumatic Cushion	202.0"	89.0"	33.0"	35D-MT-P085			
MT	3500		202.0"	91.0"		35D-MT-P091	65.0"	2.0	1535
_		Pneumatic Cushion	216.0"	95.0"	33.0" 36.0"	35D-MT-P091			
	3220	Pneumatic	216.0"	95.0"	36.0"	35D-MT-P097	71.0"	2.1	1595
		incumatic	210.0	91.0	30.0	33D-M1-L081			

[▶] Specify carriage or sideshifter and load backrest separately.

Phone: 864-647-1119

[▶] Masts are available in 1" down height increments with maximum fork heights from 79.5" to 272".

[▶] Specifications noted within this page reflect the use of a 37" wide 6 roller class II carriage and 48" high load backrest. Free lift specification does not include a load backrest.

Width	Truck	IΤΑ		Weight
"C"	Type	Class	Ref#	(lb.)
37"	Cushion	II	35D-ISS-021A	211
37"	Pneumatic	II	35D-ISS-022A	211
41"	Cushion	II	35D-ISS-023A	224
41"	Pneumatic	II	35D-ISS-024A	224

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- ▶ Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

4 Roller Carriages

Width	Truck	ΠА		Weight
"C"	Туре	Class	Ref#	(lb.)
31"	Cushion	II	35D-MC-01A	139
31"	Pneumatic	II	35D-MC-02A	139
37"	Cushion	II	35D-MC-03A	188
37"	Pneumatic	II	35D-MC-04A	188
41"	Cushion	II	35D-MC-05A	204
41"	Pneumatic	II	35D-MC-06A	204

▶ 4 Roller Carriages are recommended for fork and hang-on sideshifter applications.

6 Roller Carriages

Width	Truck	IΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
31"	Cushion	ll l	35D-MC-011A	146
31"	Pneumatic	II	35D-MC-012A	146
37"	Cushion		35D-MC-013A	194
37"	Pneumatic	II	35D-MC-014A	194
41"	Cushion		35D-MC-015A	210
41"	Pneumatic		35D-MC-016A	210

▶ 6 Roller Carriages are recommended for all other attachment applications.

Load Backrests

_	Width	Height	Ref#	Weight (lb.)	
	31"	48"	684770	75	
	37"	48"	684773	83	
	41"	48"	684776	90	

- ▶ Backrests are also available in 36" and 60" heights and heavy duty designs.
- ▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MS, MD and MT masts.
 For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and **Heavy Attachment Use**

Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

- ► The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MS, MD and MT masts.
- Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MS, MD and MT masts. Contact Lift Technologies for complete specifications.

Other Important Information!

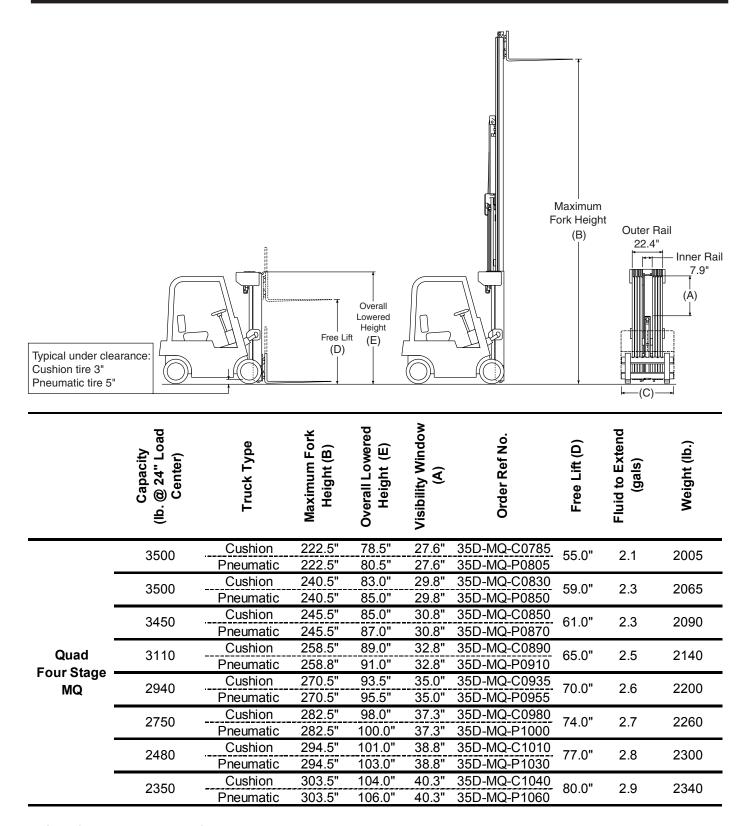
▶ Pressures and Flows: The 35D mast model has a minimum hydraulic system pressure to lift the rated load well as a maximum allowable system pressure. A and recommended flow rate is also noted below. Some applications have successfully used flow rates of 22 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
35D MS	2100	2750	1	11
35D MS(LP)	1500	2000	1	14.5
35D MD	1950	2750	1	11
35D MD(LP)	1600	2000	1	14.5
35D MT	2200	2750	1	11
35D MT(LP)	1600	2000	1	14.5

- * Pressure in pounds per square inch (psi)
- ** Flow rate in gallons per minute (gpm)

LP = Low Pressure

35D Quad Mast



[▶] Specify carriage or sideshifter and load backrest separately.

[▶] Masts are available in 1" down height increments with maximum fork heights from 168.5" to 312".

[▶] Specifications noted within this page reflect the use of a 37" wide 6 roller class II carriage and 48" high load backrest. Free lift specification does not include a load backrest.

Width	Truck	IΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
37"	Cushion	II	35D-MQISS-021A	211
37"	Pneumatic	II	35D-MQISS-022A	211
41"	Cushion	II	35D-MQISS-023A	224
41"	Pneumatic	II	35D-MQISS-024A	224

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- ▶ Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

4 Roller Carriages

	_			
Width	Truck	IΤΑ		Weight
"C"	Type	Class	Ref#	(lb.)
31"	Cushion		35D-MQ-01A	175
31"	Pneumatic		35D-MQ-02A	175
37"	Cushion		35D-MQ-03A	199
37"	Pneumatic		35D-MQ-04A	199
41"	Cushion		35D-MQ-05A	214
41"	Pneumatic		35D-MQ-06A	214

▶ 4 Roller Carriages recommended for fork and hang-on sideshifter applications.

6 Roller Carriages

Width	Truck	ITA		Weight
"C"	Туре	Type Class Ref#		(lb.)
31"	Cushion	II	35D-MQ-011A	185
31"	Pneumatic	II	35D-MQ-012A	185
37"	Cushion	II	35D-MQ-013A	209
37"	Pneumatic	II	35D-MQ-014A	209
41"	Cushion	II	35D-MQ-015A	225
41"	Pneumatic	II	35D-MQ-016A	225

▶ 6 Roller Carriages recommended for all other attachment applications.

Load Backrests

	Width	Height	Ref#	Weight (lb.)	
_	31"	48"	684770	75	
	37"	48"	684773	83	
	41"	48"	684776	90	

- ▶ Backrests are also available in 36" and 60" heights and heavy duty designs.
- ▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MQ masts.
 For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and Heavy Attachment Use

Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

- ► The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MQ masts.
- Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MQ masts. Contact Lift Technologies for complete specifications.

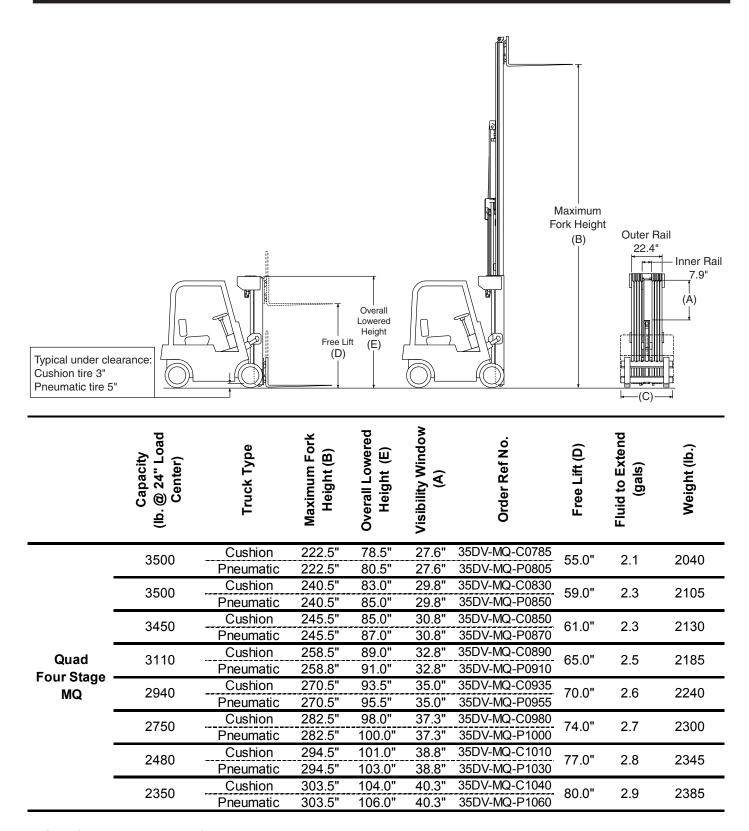
Other Important Information!

▶ Pressures and Flows: The 35D mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 14 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
35D MQ	2600	2750	1	10

- * Pressure in pounds per square inch (psi)
- ** Flow rate in gallons per minute (gpm)

35DV Quad Mast



[▶] Specify carriage or sideshifter and load backrest separately.

[▶] Masts are available in 1" down height increments with maximum fork heights from 168.5" to 312".

[▶] Specifications noted within this page reflect the use of a 37" wide 6 roller class II carriage and 48" high load backrest. Free lift specification does not include a load backrest.

Width	Truck	ITA		Weight
"C"	Туре	Class	Ref#	(lb.)
37"	Cushion	II	35DV-MQISS-021A	211
37"	Pneumatic	II	35DV-MQISS-022A	211
41"	Cushion	II	35DV-MQISS-023A	224
41"	Pneumatic	II	35DV-MQISS-024A	224

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- ▶ Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

4 Roller Carriages

	_			
Width	Truck	ITA		Weight
"C"	Type	Class	Ref#	(lb.)
31"	Cushion	II	35DV-MQ-01A	175
31"	Pneumatic	II	35DV-MQ-02A	175
37"	Cushion		35DV-MQ-03A	199
37"	Pneumatic	II	35DV-MQ-04A	199
41"	Cushion	II	35DV-MQ-05A	214
41"	Pneumatic		35DV-MQ-06A	214

▶ 4 Roller Carriages are recommended for fork and hang-on sideshifter applications.

6 Roller Carriages

	_			
Width	Truck	ITA		Weight
"C"	Type	Class	Ref#	(lb.)
31"	Cushion		35DV-MQ-011A	185
31"	Pneumatic	I	35DV-MQ-012A	185
37"	Cushion		35DV-MQ-013A	209
37"	Pneumatic	I	35DV-MQ-014A	209
41"	Cushion		35DV-MQ-015A	225
41"	Pneumatic		35DV-MQ-016A	225

▶ 6 Roller Carriages are recommended for all other attachment applications.

Load Backrests

Width	Height	Ref#	Weight (lb.)	
31"	48"	684770	75	
37"	48"	684773	83	
41"	48"	684776	90	

- ▶ Backrests are also available in 36" and 60" heights and heavy duty designs.
- ➤ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MQ masts.
 For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- ► Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and Heavy Attachment Use

Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

- ▶ The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MQ masts.
- Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MQ masts. Contact Lift Technologies for complete specifications.

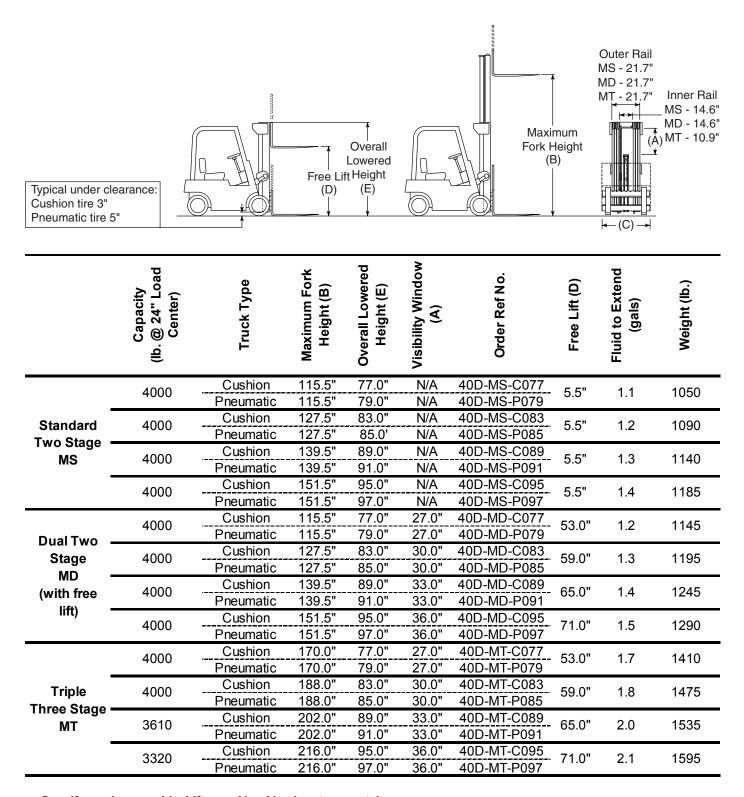
Other Important Information!

▶ Pressures and Flows: The 35DV mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 14 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
35DV MQ	2600	2750	1	10

^{*} Pressure in pounds per square inch (psi)

^{**} Flow rate in gallons per minute (gpm)



Specify carriage or sideshifter and load backrest separately.

[▶] Masts are available in 1" down height increments with maximum fork heights from 79.5" to 272".

[▶] Specifications noted within this page reflect the use of a 37" wide 6 roller class II carriage and 48" high load backrest. Free lift specification does not include a load backrest.

Width	Truck	IΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
37"	Cushion	II	40D-ISS-020A	211
37"	Pneumatic	II	40D-ISS-021A	211
41"	Cushion	II	40D-ISS-022A	224
41"	Pneumatic	II	40D-ISS-023A	224

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- ▶ Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

4 Roller Carriages

	_			
Width	Truck	ΠА		Weight
"C"	Type	Class	Ref#	(lb.)
31"	Cushion		40D-MC-01A	139
31"	Pneumatic		40D-MC-02A	139
37"	Cushion		40D-MC-03A	188
37"	Pneumatic		40D-MC-04A	188
41"	Cushion		40D-MC-05A	204
41"	Pneumatic		40D-MC-06A	204

▶ 4 Roller Carriages are recommended for fork and hang-on sideshifter applications.

6 Roller Carriages

		_			
	Width	Truck	IΤΑ		Weight
	"C"	Туре	Class	Ref#	(lb.)
	31"	Cushion		40D-MC-011A	146
	31"	Pneumatic		40D-MC-012A	146
	37"	Cushion		40D-MC-013A	194
_	37"	Pneumatic		40D-MC-014A	194
Ī	41"	Cushion		40D-MC-015A	210
	41"	Pneumatic		40D-MC-016A	210

▶ 6 Roller Carriages are recommended for all other attachment applications.

Load Backrests

Width	Height	Ref#	Weight (lb.)	
31"	48"	684770	75	
37"	48"	684773	83	
41"	48"	684776	90	

- ▶ Backrests are also available in 36" and 60" heights and heavy duty designs.
- ▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MS, MD and MT masts.
 For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- ► Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and Heavy Attachment Use

▶ Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

- ► The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MS, MD and MT masts.
- Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MS, MD and MT masts. Contact Lift Technologies for complete specifications.

Other Important Information!

▶ Pressures and Flows: The 40D mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 22 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
40D MS	2350	2750	1	11
40D(LP) MS	1700	2000	1	14.5
40D MD	2150	2750	1	11
40D(LP) MD	1800	2000	1	14.5
40D MT	2450	2750	1	11
40D(LP) MT	1750	2000	1	14.5

- * Pressure in pounds per square inch (psi)
- ** Flow rate in gallons per minute (gpm)

LP = Low Pressure

Typical under clea Cushion tire 3" Pneumatic tire 5"	rance:		Î Lo	Overall owered Height (E)		Maxir Fork H (E	leight	Outer Rail MS - 24.3" MT - 24.3"	Inner Rail _MS - 17.3" MT - 13.6" A)
	Capacity (lb. @ 24" Load Center)	Truck Type	Maximum Fork Height (B)	Overall Lowered Height (E)	Visibility Window (A)	Order Ref No.	Free Lift (D)	Fluid to Extend (gals)	Weight (lb.)
	4000	Cushion Pneumatic	81.5" 81.5"	60.0" 62.0"	N/A N/A	ES40-MS-C060 ES40-MS-P062	5.5	0.9	960
Standard	4000	Cushion Pneumatic	115.5" 115.5"	77.0" 79.0"	N/A N/A	ES40-MS-C077 ES40-MS-P079	5.5	1.2	1095
Two Stage - MS	4000	Cushion Pneumatic	127.5" 127.5"	83.0" 85.0"	N/A N/A	ES40-MS-C083 ES40-MS-P085	5.5	1.4	1140
_	4000	Cushion Pneumatic	151.5" 151.5"	95.0" 97.0"	N/A N/A	ES40-MS-C095 ES40-MS-P097	5.5	1.6	1230
	4000	Cushion Pneumatic	170.0" 170.0"	77.0" 79.0"	27.3" 27.3"	ES40-MT-C077 ES40-MT-P079	524	1.8	1450
_	4000	Cushion Pneumatic	188.0" 188.0"	83.0" 85.0"	30.3" 30.3"	ES40-MT-P085	58.4	2.0	1515
Triple Stage MT	3610	Cushion Pneumatic	202.0" 202.0"	89.0" 91.0"	33.3" 33.3"	ES40-MT-C089 ES40-MT-P091	64.4	2.2	1585
_	3220	Cushion Pneumatic	216.0" 216.0"	95.0" 97.0"	36.3" 36.3"	ES40-MT-C095 ES40-MT-P097	70.4"	2.3	1650
	2690	Cushion Pneumatic	235.0" 235.0"	104.0" 106.0"	39.3" 39.3"	ES40-MT-C104 ES40-MT-P106	79.4"	2.5	1755

[▶] Specify carriage or sideshifter and load backrest separately.

[▶] Masts are available in 1" down height increments with maximum fork heights from 79.5" to 272".

[▶] Specifications noted within this page reflect the use of a 37" wide 6 roller class Il carriage and 48" high load backrest. Free lift specification does not include a load backrest.

Width	Truck	IΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
37"	Cushion	II	ES40-ISS-021A	211
37"	Pneumatic	II	ES40-ISS-022A	211
41"	Cushion	II	ES40-ISS-023A	224
41"	Pneumatic	II	ES40-ISS-024A	224

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

4 Roller Carriages

Width	Truck	ΠA		Weight
"C"	Туре	Class	Ref#	(lb.)
37"	Cushion	II	ES40-MC-01A	156
37"	Pneumatic	II	ES40-MC-02A	130
41"	Cushion	II	ES40-MC-03A	163
41"	Pneumatic	II	ES40-MC-04A	103

▶ 4 Roller Carriages are recommended for fork and hang-on sideshifter applications.

6 Roller Carriages

Width	Truck	ΠA		Weight
"C"	Type	Class	Ref#	(lb.)
37"	Cushion	II	ES40-MC-011A	174
37"	Pneumatic	II	ES40-MC-012A	174
 41"	Cushion	II	ES40-MC-013A	101
41"	Pneumatic	II	ES40-MC-014A	181

▶ 6 Roller Carriages are recommended for all other attachment applications.

Load Backrests

-	Width	Height	Ref#	Weight (lb.)	
	37"	48"	684773	83	
	41"	48"	684776	90	

- ▶ Backrests are also available in 36" and 60" heights and heavy duty designs.
- ▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MS and MT masts.
 For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- ► Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and Heavy Attachment Use

Please refer to the Important Instructions on page 58
 of this publication with information on " Slack Chain
 Valves, Cold Storage and Hydraulic Oil Flow Rates"
 to determine what mast options are required.

Attachment Adaption and QD Couplers

- ► The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MS, MD and MT masts.
- ▶ Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MS, MD and MT masts. Contact Lift Technologies for complete specifications.

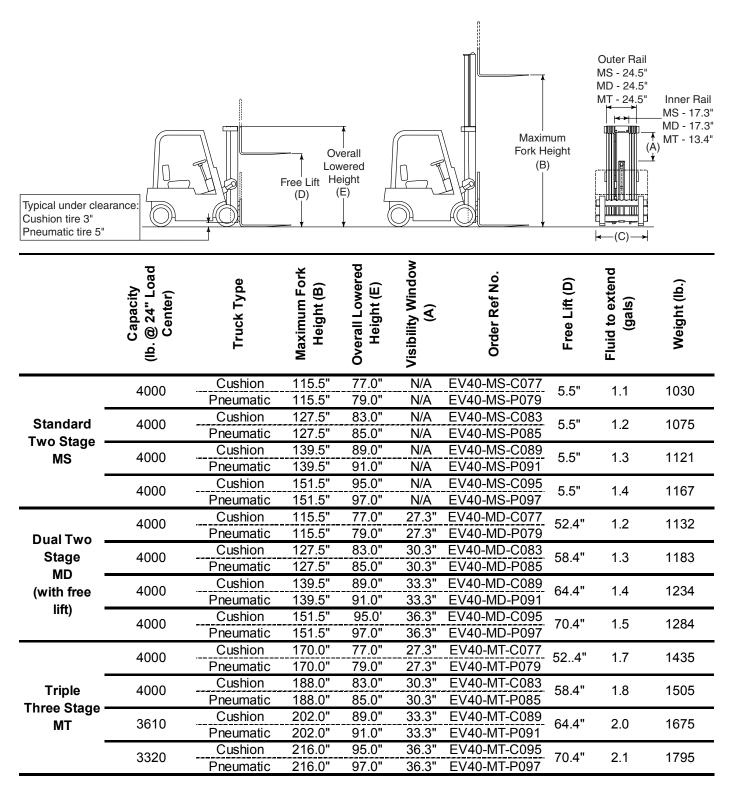
Other Important Information!

▶ Pressures and Flows: The ES40 mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 16 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

Min	Max	Minimum	Recommended
Pressure*	Pressure*	Flow**	Flow**
2050	2750	1	11
2200	2750	1	11
	2050	Pressure* Pressure* 2050 2750	Pressure* Pressure* Flow** 2050 2750 1

^{*} Pressure in pounds per square inch (psi)

^{**} Flow rate in gallons per minute (gpm)



[▶] Specify carriage or sideshifter and load backrest separately.

[▶] Masts are available in 1" down height increments with maximum fork heights from 79.5" to 272".

[▶] Specifications noted within this page reflect the use of a 37" wide 6 roller class II carriage and 48" high load backrest. Free lift specification does not include a load backrest.

Width	Truck	IΤΑ		Weight
"C"	Type	Class	Ref#	(lb.)
37"	Cushion	II	EV40-ISS-021A	211
37"	Pneumatic	II	EV40-ISS-022A	211
41"	Cushion	II	EV40-ISS-023A	224
41"	Pneumatic	II	EV40-ISS-024A	224

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- ▶ Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

4 Roller Carriages

Width	Truck	ITA		Weight
"C"	Туре	Class	Ref#	(lb.)
31"	Cushion		EV40-MC-01A	134
31"	Pneumatic	II	EV40-MC-02A	134
37"	Cushion	II	EV40-MC-03A	144
37"	Pneumatic	II	EV40-MC-04A	144
41"	Cushion	II	EV40-MC-05A	151
41"	Pneumatic		EV40-MC-06A	151

▶ 4 Roller Carriages are recommended for fork and hang-on sideshifter applications.

6 Roller Carriages

Width	Truck	IΤΑ		Weight
"C"	Type	Class	Ref#	(lb.)
31"	Cushion	II	EV40-MC-011A	153
31"	Pneumatic	II	EV40-MC-012A	153
37"	Cushion		EV40-MC-013A	163
37"	Pneumatic	II	EV40-MC-014A	163
41"	Cushion		EV40-MC-015A	170
41"	Pneumatic	II	EV40-MC-016A	170

▶ 6 Roller Carriages are recommended for all other attachment applications.

Load Backrests

Width	Height	Ref#	Weight (lb.)	
31"	48"	684770	75	
37"	48"	684773	83	
41"	48"	684776	90	

- ▶ Backrests are also available in 36" and 60" heights and heavy duty designs.
- ▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MS, MD and MT masts.
 For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- ► Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and **Heavy Attachment Use**

Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

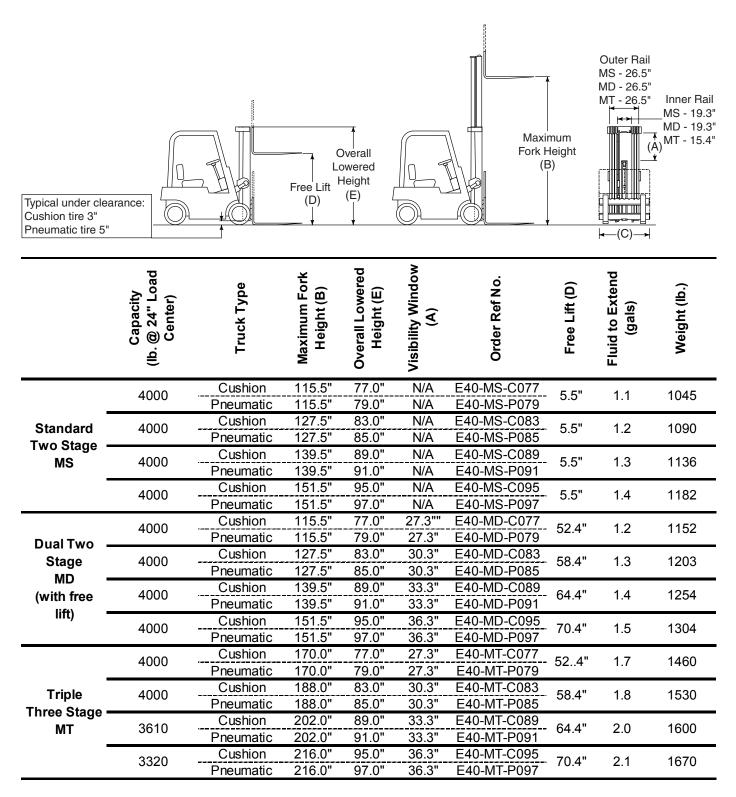
- ► The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MS, MD and MT masts.
- Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MS, MD and MT masts. Contact Lift Technologies for complete specifications.

Other Important Information!

▶ Pressures and Flows: The EV40 mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 20 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
EV40 MS	2400	2750	1	10
EV40 MD	2200	2750	1	11
EV40 MT	2550	2750	1	10

- * Pressure in pounds per square inch (psi)
- ** Flow rate in gallons per minute (gpm)



[▶] Specify carriage or sideshifter and load backrest separately.

[▶] Masts are available in 1" down height increments with maximum fork heights from 79.5" to 272".

[▶] Specifications noted within this page reflect the use of a 37" wide 6 roller class II carriage and 48" high load backrest. Free lift specification does not include a load backrest.

Width	Truck	ITA		Weight
"C"	Type	Class	Ref#	(lb.)
37"	Cushion	II	E40-ISS-021A	211
37"	Pneumatic	II	E40-ISS-022A	211
41"	Cushion		E40-ISS-023A	224
41"	Pneumatic	II	E40-ISS-024A	224

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- ▶ Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

4 Roller Carriages

Width	Truck	ITA		Weight
"C"	Type	Class	Ref#	(lb.)
31"	Cushion	II	E40-MC-01A	134
31"	Pneumatic	II	E40-MC-02A	134
37"	Cushion		E40-MC-03A	144
37"	Pneumatic	II	E40-MC-04A	144
41"	Cushion	ll l	E40-MC-05A	151
41"	Pneumatic	II	E40-MC-06A	151

▶ 4 Roller Carriages are recommended for fork and hang-on sideshifter applications.

6 Roller Carriages

Width	Truck	ITA		Weight
"C"	Туре	Class	Ref#	(lb.)
31"	Cushion	II	E40-MC-011A	153
31"	Pneumatic	II	E40-MC-012A	153
37"	Cushion		E40-MC-013A	163
37"	Pneumatic	II	E40-MC-014A	163
41"	Cushion	II	E40-MC-015A	170
41"	Pneumatic	II	E40-MC-016A	170

▶ 6 Roller Carriages are recommended for all other attachment applications.

Load Backrests

Width	Height	Ref#	Weight (lb.)	
31"	48"	684770	75	
37"	48"	684773	83	
41"	48"	684776	90	

- ▶ Backrests are also available in 36" and 60" heights and heavy duty designs.
- ▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MS, MD and MT masts.
 For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- ► Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and Heavy Attachment Use

▶ Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

- ► The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MS, MD and MT masts.
- ▶ Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MS, MD and MT masts. Contact Lift Technologies for complete specifications.

Other Important Information!

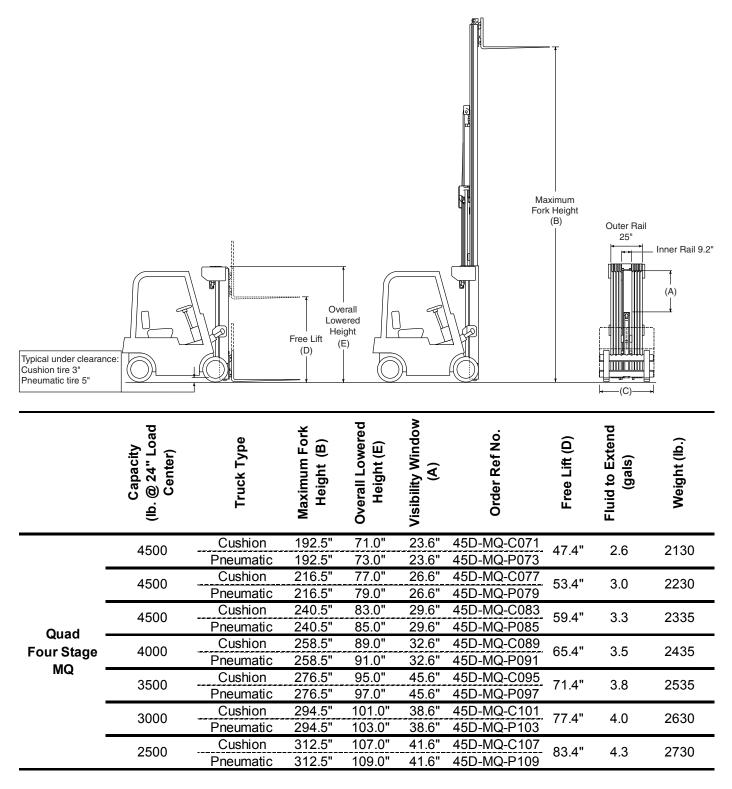
▶ Pressures and Flows: The E40 mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 20 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
E40 MS	1700	2750	1	11
E40 MD	1850	2750	1	11
E40 MT	1800	2750	1	11

^{*} Pressure in pounds per square inch (psi)

^{**} Flow rate in gallons per minute (gpm)

45D Quad Mast



- ▶ Specify carriage or sideshifter and load backrest separately.
- ▶ Masts are available in 1" down height increments with maximum fork heights from 168.5" to 312.5".
- ▶ Specifications noted within this page reflect the use of a 37" wide 6 roller class II carriage and 48" high load backrest. Free lift specification does not include a load backrest.

Width	Truck	IΤΑ		Weight
"C"	Type	Class	Ref#	(lb.)
37"	Cushion	II	45D-MQISS-021A	211
37"	Pneumatic	II	45D-MQISS-022A	211
41"	Cushion	II	45D-MQISS-023A	224
41"	Pneumatic	II	45D-MQISS-024A	224

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- ▶ Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

4 Roller Carriages

Width	Truck	ΙΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
31"	Cushion	II	45D-MQ-01A	204
31"	Pneumatic		45D-MQ-02A	204
37"	Cushion		45D-MQ-03A	227
37"	Pneumatic	II	45D-MQ-04A	227
41"	Cushion		45D-MQ-05A	243
41"	Pneumatic	II	45D-MQ-06A	243

▶ 4 Roller Carriages recommended for hang-on sideshifter applications. No Class III carriages available.

6 Roller Carriages

	_	,		
Width	Truck	IΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
31"	Cushion	II	45D-MQ-011A	222
31"	Pneumatic		45D-MQ-012A	222
37"	Cushion	II	45D-MQ-013A	245
37"	Pneumatic	II	45D-MQ-014A	245
41"	Cushion		45D-MQ-015A	261
41"	Pneumatic		45D-MQ-016A	261
49"	Cushion		45D-MQ-017A	328
49"	Pneumatic		45D-MQ-018A	328
61"	Cushion	II	45D-MQ-019A	358
61"	Pneumatic	I	45D-MQ-020A	358

▶ 6 Roller Carriages recommended for rotating and sideshifting attachments. No class III carriages available.

Load Backrests

-	140 101			147 1 17 (11)	
	Width	Height	Ref#	Weight (lb.)	
	31"	48"	684770	75	
	37"	48"	684773	83	
	41"	48"	684776	90	
	49"	48"	684779	99	

▶ Backrests are also available in 36" and 60" heights and heavy duty designs.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MQ masts.
 For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and Heavy Attachment Use

Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

- ▶ The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MQ masts.
- Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MQ masts. Contact Lift Technologies for complete specifications.

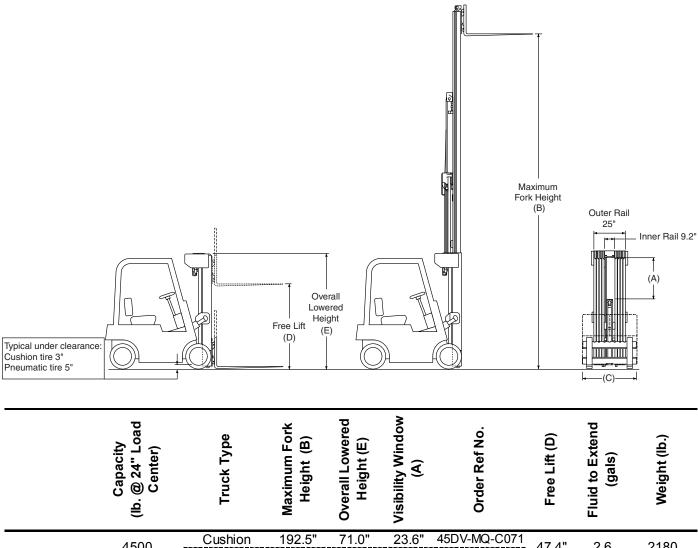
Other Important Information!

▶ Pressures and Flows: The 45D mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 19 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
45D MQ	2250	2750	1	14

- * Pressure in pounds per square inch (psi)
- ** Flow rate in gallons per minute (gpm)
- ▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

45DV Quad Mast



	Capacity (Ib. @ 24" L Center)	Truck Typ	Maximum F Height (E	Overall Low Height (E	Visibility Win (A)	Order Ref !	Free Lift (Fluid to Ext (gals)	Weight (Ik
	4500	Cushion	192.5"	71.0"	23.6"	45DV-MQ-C071	47.4"	2.6	2180
-		Pneumatic	192.5"	73.0"	23.6"	45DV-MQ-P073			
	4500	Cushion	216.5"	77.0"	26.6"	45DV-MQ-C077	53.4"	3.0	2285
_		Pneumatic	216.5"	79.0"	26.6"	45DV-MQ-P079	00.1		
	4500	Cushion	240.5"	83.0"	29.6"	45DV-MQ-C083	59.4"	3.3	2390
Quad -		Pneumatic	240.5"	85.0"	29.6"	45DV-MQ-P085	JJ.7	5.5	2590
Four Stage	4000	Cushion	258.5"	89.0"	32.6"	45DV-MQ-C089	65.4"	3.5	2490
_	4000	Pneumatic	258.5"	91.0"	32.6"	45DV-MQ-P091		3.5	2490
MQ -	3500	Cushion	276.5"	95.0"	45.6"	45DV-MQ-C095	71.4"	3.8	2590
_	3300	Pneumatic	276.5"	97.0"	45.6"	45DV-MQ-P097	7 1.4	3.0	2590
	3000	Cushion	294.5"	101.0"	38.6"	45DV-MQ-C101	77.4"	4.0	2690
	3000	Pneumatic	294.5"	103.0"	38.6"	45DV-MQ-P103	11.4	4.0	2090
_	2500	Cushion	312.5"	107.0"	41.6"	45DV-MQ-C107	02 4"	4.2	2700
	2500	Pneumatic	312.5"	109.0"	41.6"	45DV-MQ-P109	83.4"	4.3	2790

[▶] Specify carriage or sideshifter and load backrest separately.

[▶] Masts are available in 1" down height increments with maximum fork heights from 168.5" to 312.5".

[▶] Specifications noted within this page reflect the use of a 37" wide 6 roller class II carriage and 48" high load backrest. Free lift specification does not include a load backrest.

Width	Truck	ITA		Weight
"C"	Type	Class	Ref#	(lb.)
37"	Cushion	II	45DV-MQISS-021A	211
37"	Pneumatic	II	45DV-MQISS-022A	211
41"	Cushion	II	45DV-MQISS-023A	224
41"	Pneumatic	II	45DV-MQISS-024A	224

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- ▶ Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

4 Roller Carriages

Width	Truck	ITA		Weight
"C"	Туре	Class	Ref#	(lb.)
31"	Cushion	II	45DV-MQ-01A	204
31"	Pneumatic		45DV-MQ-02A	204
37"	Cushion	I	45DV-MQ-03A	227
37"	Pneumatic	I	45DV-MQ-04A	227
41"	Cushion		45DV-MQ-05A	243
41"	Pneumatic	II	45DV-MQ-06A	243

▶ 4 Roller Carriages are recommended for fork and hang-on sideshifter applications. No Class III carriages available.

6 Roller Carriages

Width	Truck	ITA		Weight
"C"	Type	Class	Ref#	(lb.)
31"	Cushion	I	45DV-MQ-011A	222
31"	Pneumatic		45DV-MQ-012A	222
37"	Cushion		45DV-MQ-013A	245
37"	Pneumatic		45DV-MQ-014A	245
41"	Cushion		45DV-MQ-015A	261
41"	Pneumatic		45DV-MQ-016A	261
49"	Cushion		45DV-MQ-017A	328
49"	Pneumatic	II	45DV-MQ-018A	328
61"	Cushion		45DV-MQ-019A	358
61"	Pneumatic	I	45DV-MQ-020A	358

▶ 6 Roller Carriages recommended for all other attachment applications. No class III carriages available.

Load Backrests

Width	Height	Ref#	Weight (lb.)	
31"	48"	684770	75	
37"	48"	684773	83	
41"	48"	684776	90	
49"	48"	684779	99	

▶ Backrests are also available in 36" and 60" heights and heavy duty designs.

Hydraulic Options

Internal Hose Reeving

- ▶ Single and dual function internal hose reeving is available for MQ masts. For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- ► Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and Heavy Attachment Use

▶ Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

- ► The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MQ masts.
- ▶ Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MQ masts. Contact Lift Technologies for complete specifications.

Other Important Information!

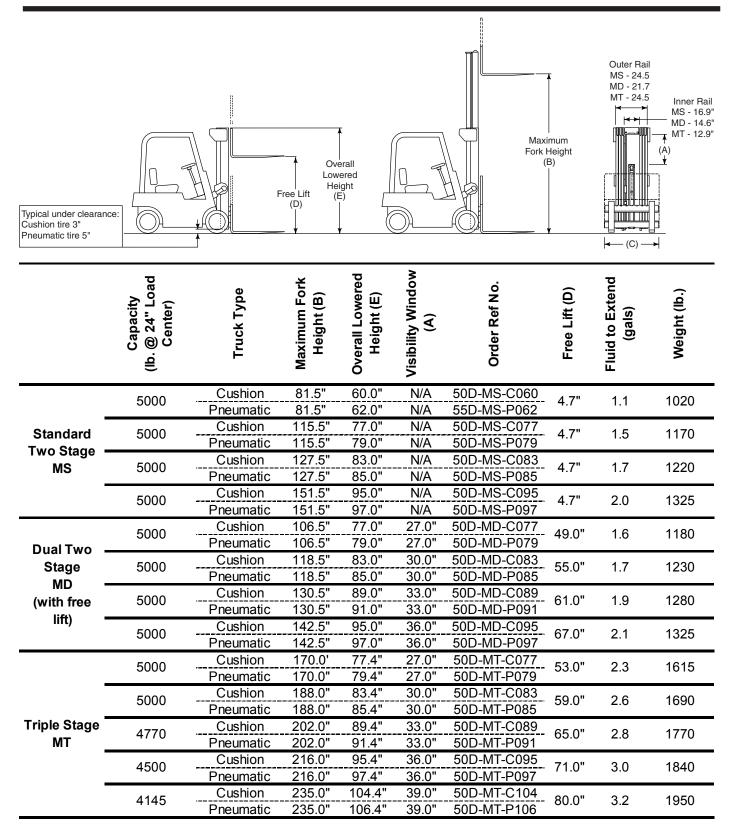
▶ Pressures and Flows: The 45DV mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 19 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
45DV MQ	2250	2750	1	14

- * Pressure in pounds per square inch (psi)
- ** Flow rate in gallons per minute (gpm)
- ▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Phone: 864-647-1119 Fax: 864-647-5406 www.lift-tek.com

Fax: 864-647-5406



[▶] Specify carriage or sideshifter and load backrest separately.

Phone: 864-647-1119 www.lift-tek.com

[▶] Masts are available in 1" down height increments with maximum fork heights from 79.5" to 235".

[▶] Specifications noted within this page reflect the use of a 37" wide 6 roller class II carriage and 48" high load backrest. Free lift specification does not include a load backrest.

Width	Truck	IΤΑ		Weight
"C"	Type	Class	Ref#	(lb.)
37"	Cushion	II	50D-ISS-021A	211
37"	Pneumatic	II	50D-ISS-022A	211
41"	Cushion	II	50D-ISS-023A	224
41"	Pneumatic	II	50D-ISS-024A	224

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- ▶ Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

4 Roller Carriages

Width	Truck	ΠА		Weight
"C"	Туре	Class	Ref#	(lb.)
37"	Cushion	II	50D-MC-01A	210
37"	Pneumatic	II	50D-MC-02A	210
41"	Cushion	I	50D-MC-03A	226
41"	Pneumatic	II	50D-MC-04A	226

▶ 4 Roller Carriages are recommended for for and hang-on sideshifter applications.

6 Roller Carriages

Width	Truck	IΤΑ		Weight
"C"	Type	Class	Ref#	(lb.)
37"	Cushion	II	50D-MC-011A	228
37"	Pneumatic	II	50D-MC-012A	228
41"	Cushion	II	50D-MC-013A	244
41"	Pneumatic	II	50D-MC-014A	244
49"	Cushion	II	50D-MC-015A	286
49"	Pneumatic	ll l	50D-MC-016A	286

▶ 6 Roller Carriages are recommended for all other attachment applications.

Load Backrests

Width	Height	Ref#	Weight (lb.)	
37"	48"	684773	83	
41"	48"	684776	90	
49"	48"	684779	99	

- ▶ Backrests are also available in 36" and 60" heights and heavy duty designs.
- ▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MS, MD and MT masts.
 For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- ► Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and **Heavy Attachment Use**

Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

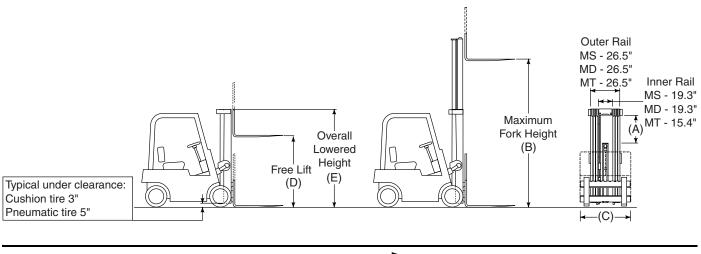
- ► The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MS, MD and MT masts.
- Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MS, MD and MT masts. Contact Lift Technologies for complete specifications.

Other Important Information!

▶ Pressures and Flows: The 50D mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 18 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
50D MS	2250	2750	1	13
50D MD	2600	2750	1	13
50D MT	2150	2750	1	13

- * Pressure in pounds per square inch (psi)
- ** Flow rate in gallons per minute (gpm)



	Capacity (lb. @ 24" Load Center)	Truck Type	Maximum Fork Height (B)	Overall Lowered Height (E)	Visibility Window (A)	Order Ref No.	Free Lift (D)	Fluid to Extend (gals)	Weight (lb.)
	5000	Cushion Pneumatic	81.5" 81.5"	60.0" 62.0"	N/A N/A	E50-MS-C060 E55-MS-P062	5.5"	1.1	915
Standard	5000	Cushion Pneumatic	115.5" 115.5"	77.0" 79.0"	N/A N/A	E50-MS-C077 E50-MS-P079	5.5"	1.5	1045
Two Stage - MS	5000	Cushion Pneumatic	127.5" 127.5"	83.0" 85.0"	N/A N/A	E50-MS-C083 E50-MS-P085	5.5"	1.7	1090
	5000	Cushion Pneumatic	151.5" 151.5"	95.0" 97.0"	N/A N/A	E50-MS-C095 E50-MS-P097	5.5"	2.0	1182
Dual Two =	5000	Cushion Pneumatic	115.5" 115.5"	77.0" 79.0"	27.3" 27.3"	E50-MD-C077 E50-MD-P079	52.4"	1.6	1152
Stage MD =	5000	Cushion Pneumatic	127.5" 127.5"	83.0" 85.0"	30.3" 30.3"	E50-MD-C083 E50-MD-P085	58.4"	1.7	1203
(with free	5000	Cushion Pneumatic	139.5" 139.5"	89.0" 91.0"	33.3" 33.3"	E50-MD-C089 E50-MD-P091	64.4"	1.9	1254
lift) –	5000	Cushion Pneumatic	151.5" 151.5"	95.0" 97.0"	36.3" 36.3"	E50-MD-C095 E50-MD-P097	70.4"	2.1	1304
_	5000	Cushion Pneumatic	170.0" 170.0"	77.0" 79.0"	27.3" 27.3"	E50-MT-C077 E50-MT-P079	524"	2.3	1460
Triple –	5000	Cushion Pneumatic	188.0" 188.0"	83.0" 85.0"	30.3" 30.3"	E50-MT-C083 E50-MT-P085	58.4"	2.6	1530
Three Stage	4765	Cushion Pneumatic	202.0" 202.0"	89.0" 91.0"	33.3" 33.3"	E50-MT-C089 E50-MT-P091	64.4"	2.8	1600
MT -	4500	Cushion Pneumatic	216.0" 216.0"	95.0" 97.0"	36.3" 36.3"	E50-MT-C095 E50-MT-P097	70.4"	2.9	1670
_	4145	Cushion Pneumatic	235.0" 235.0"	104.0" 106.0"	39.3" 39.3"	E50-MT-C104 E50-MT-P106	79.4"	3.2	1770

[▶] Specify carriage or sideshifter and load backrest separately.

[▶] Masts are available in 1" down height increments with maximum fork heights from 79.5" to 290".

[▶] Specifications noted within this page reflect the use of a 37" wide 6 roller class II carriage and 48" high load backrest. Free lift specification does not include a load backrest.

Width	Truck	IΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
37"	Cushion	II	E50-ISS-021A	211
37"	Pneumatic	II	E50-ISS-022A	211
41"	Cushion	II	E50-ISS-023A	224
41"	Pneumatic	II	E50-ISS-024A	224

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- ▶ Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

4 Roller Carriages

Width	Truck	ΠА		Weight
"C"	Туре	Class	Ref#	(lb.)
37"	Cushion		E50-MC-01A	162
37"	Pneumatic		E50-MC-02A	162
41"	Cushion		E50-MC-03A	171
41"	Pneumatic	II	E50-MC-04A	171

▶ 4 Roller Carriages are recommended for fork and hang-on sideshifter applications.

6 Roller Carriages

Width	Truck	IΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
37"	Cushion	ll l	E50-MC-011A	181
37"	Pneumatic	II	E50-MC-012A	181
41"	Cushion	II	E50-MC-013A	190
41"	Pneumatic	II	E50-MC-014A	190
49"	Cushion	II	E50-MC-015A	208
49"	Pneumatic	II	E50-MC-016A	208

▶ 6 Roller Carriages are recommended for all other attachment applications.

Load Backrests

_					
	Width	Height	Ref#	Weight (lb.)	
	37"	48"	684773	83	
	41"	48"	684776	90	
	49"	48"	684779	99	

- ▶ Backrests are also available in 36" and 60" heights and heavy duty designs.
- ➤ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MS, MD and MT masts.
 For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and Heavy Attachment Use

Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

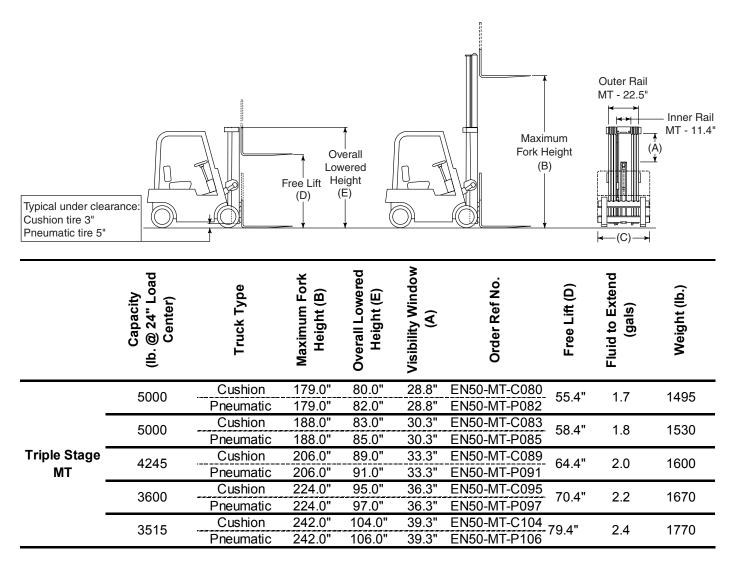
- ► The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MS, MD and MT masts.
- Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MS,MD and MT masts. Contact Lift Technologies for complete specifications.

Other Important Information!

▶ Pressures and Flows: The E50 mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 20 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

Min Pressure*	Max Pressure*	Minimum Flow**	Recommended Flow**
2050	2750	1	11
2200	2750	1	11
2150	2750	1	11
	Pressure* 2050 2200	Pressure* Pressure* 2050 2750 2200 2750	Pressure* Pressure* Flow** 2050 2750 1 2200 2750 1

- * Pressure in pounds per square inch (psi)
- ** Flow rate in gallons per minute (gpm)



- ▶ Specify carriage or sideshifter and load backrest separately.
- ▶ Masts are available in 1" down height increments with a maximum fork heights from 79.5 to 290.0".
- ▶ Specifications noted within this page reflect the use of a 37" wide 6 roller class Il carriage and 48" high load backrest. Free lift specification does not include a load backrect.

_	Width	Truck	IΤΑ		Weight
	"C"	Туре	Class	Ref#	(lb.)
	37"	Cushion	II	EN50-ISS-021A	211
	37"	Pneumatic	II	EN50-ISS-022A	211
	41"	Cushion	II	EN50-ISS-023A	224
	41"	Pneumatic	II	EN50-ISS-024A	224

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- ▶ Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

4 Roller Carriages

Width	Truck	ITA		Weight
"C"	Туре	Class	Ref#	(lb.)
37"	Cushion	II	EN50-MC-01A	162
37"	Pneumatic	II	EN50-MC-02A	102
41"	Cushion	II	EN50-MC-03A	171
41"	Pneumatic	II	EN50-MC-04A	17.1

▶ 4 Roller Carriages are recommended for fork and hang-on sideshifter applications.

6 Roller Carriages

Width	Truck	IΤΑ		Weight	
"C"	Туре	Class	Ref#	(lb.)	
37"	Cushion	II	EN50-MC-011A	181	
37"	Pneumatic	II	EN50-MC-012A	101	
41"	Cushion	II	EN50-MC-013A	190	
41"	Pneumatic	II	EN50-MC-014A	190	

▶ 6 Roller Carriages are recommended for all other attachment applications.

Load Backrests

Width	Height	Ref#	Weight (lb.)	
37"	48"	684773	83	
41"	48"	684776	90	

- ▶ Backrests are also available in 36" and 60" heights and heavy duty designs.
- ▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Internal Hose Reeving

- ▶ Single and dual function internal hose reeving is available for MS. MD and MT masts. For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- ► Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and Heavy Attachment Use

▶ Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

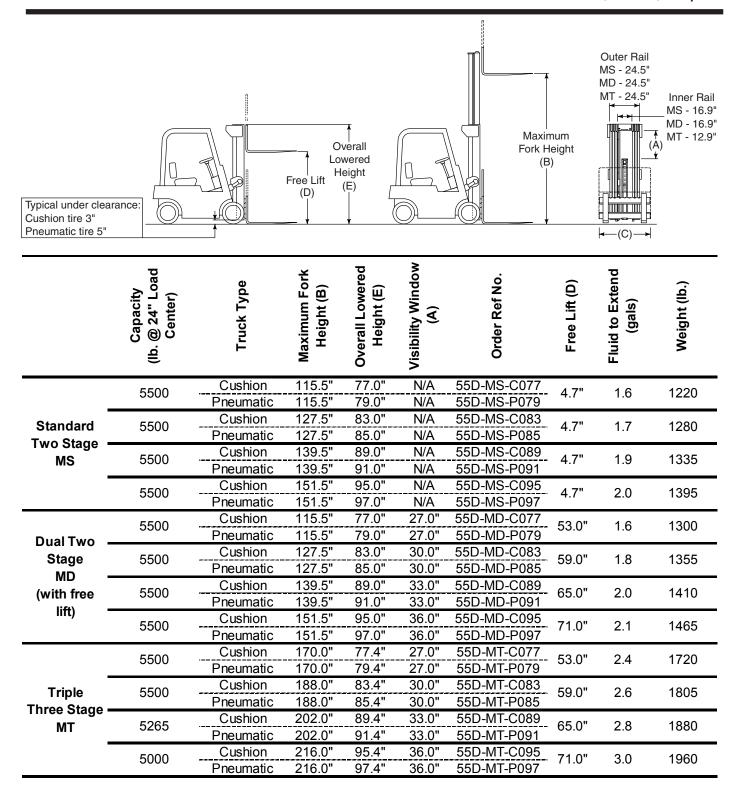
- ▶ The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MS, MD and MT masts.
- ▶ Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MS, MD and MT masts. Contact Lift Technologies for complete specifications.

Other Important Information!

▶ Pressures and Flows: The EN50 mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 16 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
EN50 MT	3000	3200	1	11

- * Pressure in pounds per square inch (psi)
- ** Flow rate in gallons per minute (gpm)



- ▶ Specify carriage or sideshifter and load backrest separately.
- ▶ Masts are available in 1" down height increments with maximum fork heights from 79.5" to 290".
- ▶ Specifications noted within this page reflect the use of a 37" wide 6 roller class II carriage and 48" high load backrest. Free lift specification does not include a load backrest.

Width	Truck	IΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
37"	Cushion	II	55D-ISS-021A	211
37"	Pneumatic	II	55D-ISS-022A	211
41"	Cushion	II	55D-ISS-023A	224
41"	Pneumatic	II	55D-ISS-024A	224

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

4 Roller Carriages

Width	Truck	IΤΑ		Weight
"C"	Type	Class	Ref#	(lb.)
37"	Cushion		55D-MC-01A	210
37"	Pneumatic		55D-MC-02A	210
41"	Cushion		55D-MC-03A	226
41"	Pneumatic	II	55D-MC-04A	226

▶ 4 Roller Carriages are recommended for fork and hang-on sideshifter applications.

6 Roller Carriages

Width	Truck	IΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
37"	Cushion	ll l	55D-MC-011A	228
37"	Pneumatic	II	55D-MC-012A	228
41"	Cushion	ll l	55D-MC-013A	244
41"	Pneumatic	II	55D-MC-014A	244
49"	Cushion	II	55D-MC-015A	286
49"	Pneumatic	II	55D-MC-016A	286

▶ 6 Roller Carriages are recommended for all other attachment applications.

Load Backrests

Width	Height	Ref#	Weight (lb.)	
37"	48"	684773	83	
41"	48"	684776	90	
49"	48"	684779	99	

- ▶ Backrests are also available in 36" and 60" heights and heavy duty designs.
- ▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MS, MD and MT masts.
 For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and Heavy Attachment Use

Please refer to the Important Instructions on page 58
 of this publication with information on " Slack Chain
 Valves, Cold Storage and Hydraulic Oil Flow Rates"
 to determine what mast options are required.

Attachment Adaption and QD Couplers

- ▶ The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MS, MD and MT masts.
- Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MS, MD and MT masts. Contact Lift Technologies for complete specifications.

Other Important Information!

▶ Pressures and Flows: The 55D mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 20 gpm, (28 gpm for low pressure) but the mast purchaser must confirm prope rmast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

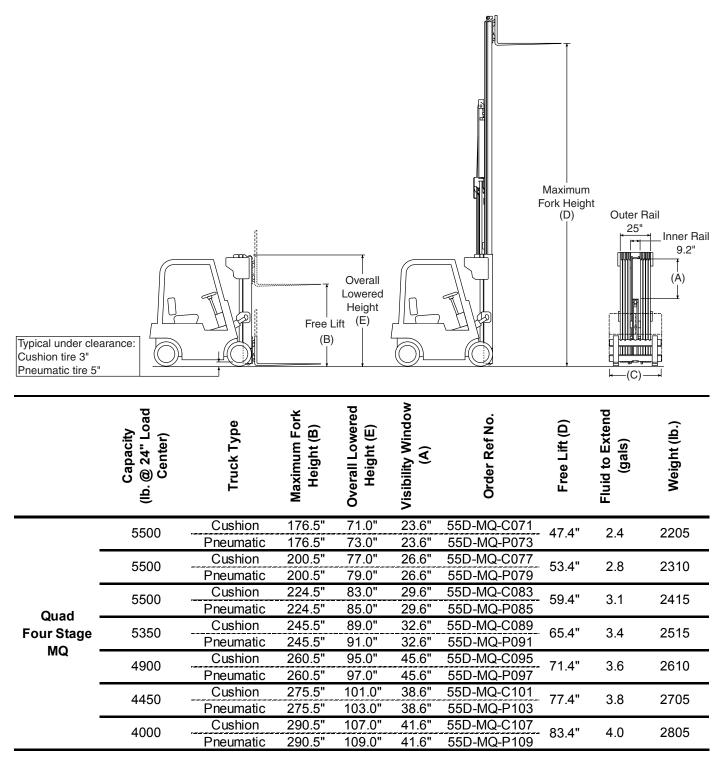
	Min	Max	Minimum	Recommended
	Pressure"	Pressure*	Flow**	Flow**
55D MS	2150	2750	1	15
55D MS(LP)	1550	2000	1	22
55D MD	2400	2750	1	15
55D MD(LP)	1700	2000	1	22
55D MT	2250	2750	1	15
55D MT(LP)	1650	2000	1	22

- * Pressure in pounds per square inch (psi)
- ** Flow rate in gallons per minute (gpm)

LP = Low Pressure

Phone: 864-647-1119 www.lift-tek.com Fax: 864-647-5406

55D Quad Mast



[▶] Specify carriage or sideshifter and load backrest separately.

[▶] Masts are available in 1" down height increments with maximum fork heights from 152.5" to 315.5".

[▶] Specifications noted within this page reflect the use of a 37" wide 6 roller class II carriage and 48" high load backrest. Free lift specification does not include a load backrest.

Width	Truck	IΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
37"	Cushion	II	55D-MQISS-021A	211
37"	Pneumatic	II	55D-MQISS-022A	211
41"	Cushion	II	55D-MQISS-023A	224
41"	Pneumatic	II	55D-MQISS-024A	224

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- ► Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

4 Roller Carriages

Width	Truck	ITA		\\/oight
vvidui	HUCK	пА		Weight
"C"	Type	Class	Ref#	(lb.)
31"	Cushion	II	55D-MQ-01A	204
31"	Pneumatic	ll l	55D-MQ-02A	204
37"	Cushion	II	55D-MQ-03A	227
37"	Pneumatic	ll l	55D-MQ-04A	227
41"	Cushion	II	55D-MQ-05A	243
41"	Pneumatic	II	55D-MQ-06A	243

▶ 4 Roller Carriages recommended for hang-on sideshifter applications. Class III carriages also available.

6 Roller Carriages

Width	Truck	ITA		Weight
"C"	Type	Class	Ref#	(lb.)
31"	Cushion	ll l	55D-MQ-011A	222
 31"	Pneumatic	II	55D-MQ-012A	222
37"	Cushion	ll l	55D-MQ-013A	245
 37"	Pneumatic	II	55D-MQ-014A	245
 41"	Cushion	II	55D-MQ-015A	261
 41"	Pneumatic	II	55D-MQ-016A	261
 49"	Cushion	II	55D-MQ-017A	328
 49"	Pneumatic	II	55D-MQ-018A	328
61"	Cushion	ll l	55D-MQ-019A	358
61"	Pneumatic	ll l	55D-MQ-020A	358

▶ 6 Roller Carriages recommended for rotating and sideshifting attachments. Class III carriages are available.

Load Backrests

Width	Height	Ref#	Weight (lb.)	
31"	48"	684770	75	
37"	48"	684773	83	
41"	48"	684776	90	
49"	48"	684779	99	

▶ Backrests are also available in 36" and 60" heights and heavy duty designs.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MQ masts.
 For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and Heavy Attachment Use

Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

- ► The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MQ masts.
- Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MQ masts. Contact Lift Technologies for complete specifications.

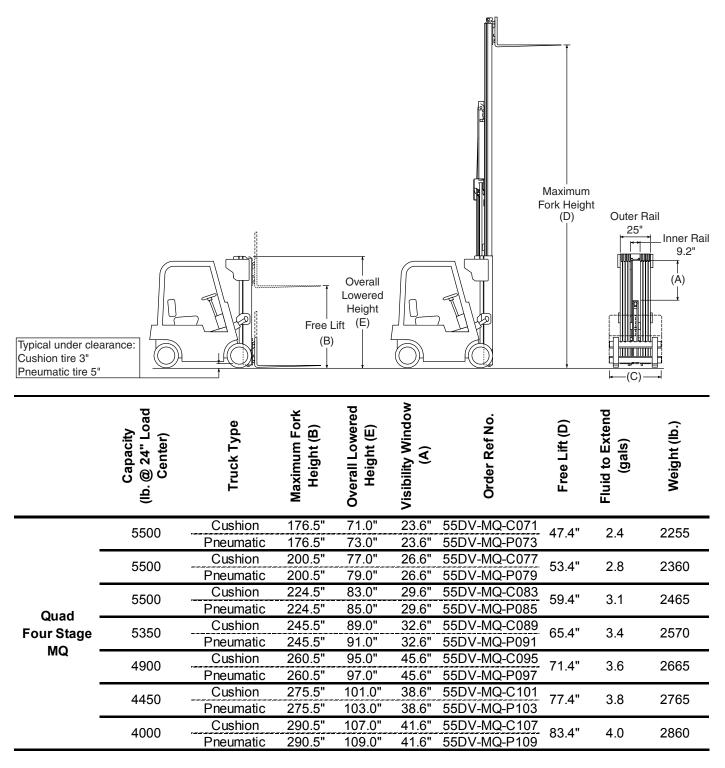
Other Important Information!

▶ Pressures and Flows: The 55D mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 19 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
55D MQ	2600	2750	1	14

- * Pressure in pounds per square inch (psi)
- ** Flow rate in gallons per minute (gpm)
- ▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

55DV Quad Mast



[▶] Specify carriage or sideshifter and load backrest separately.

[▶] Masts are available in 1" down height increments with maximum fork heights from 152.5" to 315.5".

[▶] Specifications noted within this page reflect the use of a 37" wide 6 roller class II carriage and 48" high load backrest. Free lift specification does not include a load backrest.

Width	Truck	ITA		Weight
"C"	Type	Class	Ref#	(lb.)
37"	Cushion	II	55DV-MQISS-021A	211
37"	Pneumatic	II	55DV-MQISS-022A	211
41"	Cushion	II	55DV-MQISS-023A	224
41"	Pneumatic	II	55DV-MQISS-024A	224

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- ► Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

4 Roller Carriages

Width	Truck	ITA		Weight
"C"	Туре	Class	Ref#	(lb.)
31"	Cushion	II	55DV-MQ-01A	204
31"	Pneumatic	II	55DV-MQ-02A	204
37"	Cushion	II	55DV-MQ-03A	227
37"	Pneumatic	II	55DV-MQ-04A	227
41"	Cushion	II	55DV-MQ-05A	243
41"	Pneumatic	I	55DV-MQ-06A	243

▶ 4 Roller Carriages are recommended for for and hang-on sideshifter applications. Class III carriages also available.

6 Roller Carriages

Width	Truck	IΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
31"	Cushion	II	55DV-MQ-011A	222
31"	Pneumatic	II	55DV-MQ-012A	222
37"	Cushion	II	55DV-MQ-013A	245
37"	Pneumatic	II	55DV-MQ-014A	245
41"	Cushion	I	55DV-MQ-015A	261
41"	Pneumatic	II	55DV-MQ-016A	261
49"	Cushion	I	55DV-MQ-017A	328
49"	Pneumatic	II	55DV-MQ-018A	328
61"	Cushion	I	55DV-MQ-019A	358
61"	Pneumatic	I	55DV-MQ-020A	358
N. C. D. alland	0	ommond	ad for all ather	

▶ 6 Roller Carriages recommended for all other attachment applications. Class III carriages are available.

Load Backrests

_	Width	Height	Ref#	Weight (lb.)	
-	31"	48"	684770	75	
	37"	48"	684773	83	
	41"	48"	684776	90	
	49"	48"	684779	99	

▶ Backrests are also available in 36" and 60" heights and heavy duty designs.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MQ masts.
 For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- ► Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and **Heavy Attachment Use**

Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

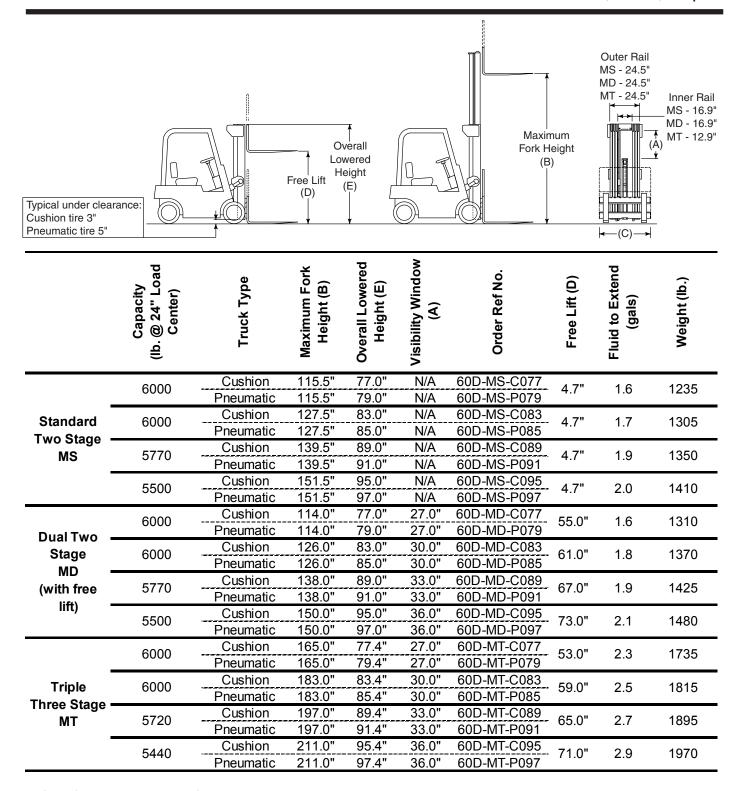
- ▶ The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MQ masts.
- Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MQ masts. Contact Lift Technologies for complete specifications.

Other Important Information!

▶ Pressures and Flows: The 55DV mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 19 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
55DV MQ	2600	2750	1	14

- * Pressure in pounds per square inch (psi)
- ** Flow rate in gallons per minute (gpm)
- ▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.



[▶] Specify carriage or sideshifter and load backrest separately.

[▶] Masts are available in 1" down height increments with maximum fork heights from 79.5" to 290".

[▶] Specifications noted within this page reflect the use of a 37" wide 6 roller class III carriage and 48" high load backrest. Free lift specification does not include a load backrest.

-					
	Width	Truck	IΤΑ		Weight
	"C"	Туре	Class	Ref#	(lb.)
	37"	Cushion	III	60D-ISS-021A	304
	37"	Pneumatic	III	60D-ISS-022A	304
•	41"	Cushion	III	60D-ISS-023A	314
	41"	Pneumatic	III	60D-ISS-024A	314

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- ▶ Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

4 Roller Carriages

	Width	Truck	IΤΑ		Weight
	"C"	Туре	Class	Ref#	(lb.)
	37"	Cushion	III	60D-MC-01A	215
	37"	Pneumatic	III	60D-MC-02A	215
_	41"	Cushion	III	60D-MC-03A	231
	41"	Pneumatic	III	60D-MC-04A	231

▶ 4 Roller Carriages are recommended for fork and hang-on sideshifter applications.

6 Roller Carriages

	_			
Width	Truck	IΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
37"	Cushion	III	60D-MC-011A	253
37"	Pneumatic	Ш	60D-MC-012A	253
41"	Cushion	III	60D-MC-013A	249
41"	Pneumatic	Ш	60D-MC-014A	249
49"	Cushion	III	60D-MC-015A	291
49"	Pneumatic	Ш	60D-MC-016A	291

▶ 6 Roller Carriages are recommended for all other attachment applications.

Load Backrests

Width	Height	Ref#	Weight (lb.)	
37"	48"	684785	84	
41"	48"	684788	91	
49"	48"	684791	100	

- ▶ Backrests are also available in 36" and 60" heights and heavy duty designs.
- ▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MS, MD and MT masts.
 For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- ► Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and Heavy Attachment Use

▶ Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

- ▶ The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MS, MD and MT masts.
- ▶ Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MS, MD and MT masts. Contact Lift Technologies for complete specifications.

Other Important Information!

▶ Pressures and Flows: The 60D mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 20 gpm, (28 gpm for low pressure) but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
60D MS	2400	2750	1	15
60D(LP) MS	1700	2000	1	22
60D MD	2600	2750	1	15
60D(LP) MD	1850	2000	1	22
60D MT	2450	2750	1	15
60D(LP) MT	1800	2000	1	22
			1 / "	

^{*} Pressure in pounds per square inch (psi)

LP = Low Pressure

^{**} Flow rate in gallons per minute (gpm)

Typical under cle Pneumatic tire 1			Free Li (D)	Overall Lowered Height (E)			Maximum ork Height (B)	Outer Rail MS - 32.6" MM - 32.6" MT - 32.6"	Inner Rail _ MS - 26.4" MM - 22.3" MT - 22.3"
	Capacity (lb. @ 24" Load Center)	Truck Type	Maximum Fork Height (B)	Overall Lowered Height (E)	Visibility Window (A)	Order Ref No.	Free Lift (D)	Fluid to Extend (gals)	Weight (lb.)
Standard	6000	Pneumatic	144.0"	109.0"	NA	NA	NA	1.5	2054
Two Stage • MS	8000	Pneumatic	180.0"	127.0"	NA NA	NA NA	NA	1.8	2377
Triple Stage	6000	Pneumatic	264.0"	127.0"	NA	NA	NA	2.0	2567
Non Free Lift MM	8000	Pneumatic	264.0"	127.0"	NA NA	NA NA	NA	2.0	3198
Triple Stage	6000	Pneumatic	180.0"	93.0"	41"	NA	60.0"	1.5	2404
Free Lift		Pneumatic	264.0" 180.0"	125.0" 93.0"	57" 41"	NA NA	90.5" 60.0"	1.7 1.4	2867 2677
MT	8000	Pneumatic Pneumatic	264.0"	125.0"	57"	NA NA	90.5"	1.4	3507

[►] Specify carriage and load backrest separately.

[▶] Specifications noted within this page reflect the use of a 66" wide 4 roller pin type carriage and 48" high load backrest. Free lift specification does not include a load backrest.

60/80RT Rough Terrain Carriage, Load Backrest and Hydraulic Options

Carriages

4 Roller Pin Type Carriage

Width	n Truck	Pin	Pin	Weight
"C"	Type	Type	Diameter	(lb.)
66"	Pneumatic	Yes	2 00" (6000 lb)	513
72"	Pneumatic	Yes	2.00" (6000 lb) 2.25" (8000 lb)	544
84"	Pneumatic	Yes	2.23 (8000 10)	574

4 Roller ITA Carriage

Width	Truck	IΤΑ		Weight
"C"	Туре	Class	Reference #	(lb.)
66"	Pneumatic	III	N/A	579
72"	Pneumatic	Ш	N/A	616
84"	Pneumatic	III	N/A	689

Integrated Fork Positioning Carriages

Width	Truck	Pin	Pin	Weight
"C"	"C" Type		Type Diameter	
66"	Pneumatic	Yes	2.00" (6000 lb) 2.25" (8000 lb)	593 627

Backrests

Width	Height	Weight (lb.)
66"	48"	122
72"	48"	146
84"	48"	170

▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Push Back Racking and Heavy Attachment Use

Please refer to the Important Instructions on page 58 of this publication with information on " Hydraulic Oil Flow Rates" to determine what mast options are required.

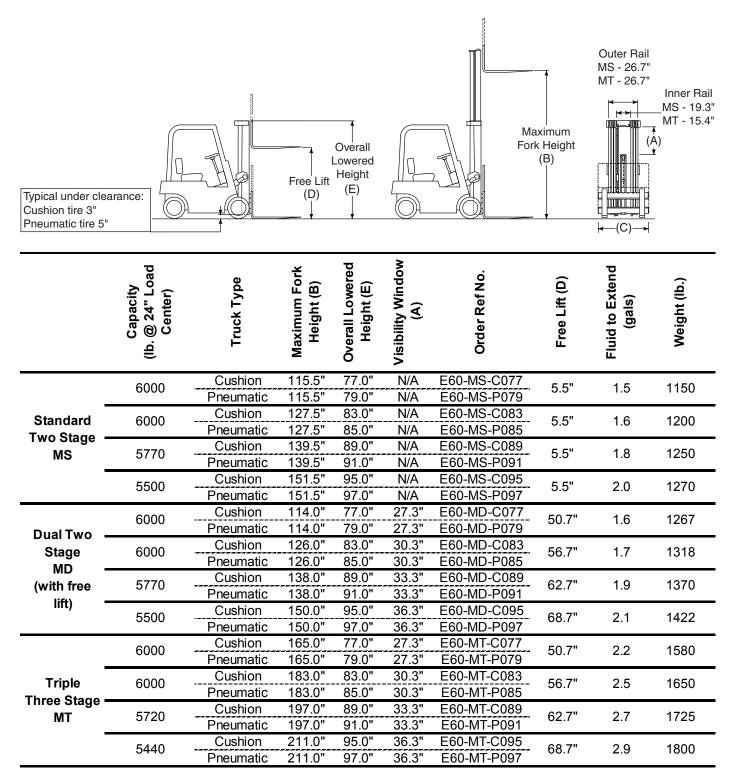
Other Important Information!

▶ Pressures and Flows: The 60RT mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 22 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
60RT MM	2300	2750	1	16
60RT MS	2100	2750	1	16
60RT MT	2250	2750	1	16
80RT MM	2200	2750	1	16
80RT MS	2000	2750	1	16
80RT MT	2150	2750	1	16

^{*} Pressure in pounds per square inch (psi)

^{**} Flow rate in gallons per minute (gpm)



[▶] Specify carriage or sideshifter and load backrest separately.

[▶] Masts are available in 1" down height increments with maximum fork heights from 79.5" to 290".

[▶] Specifications noted within this page reflect the use of a 37" wide 6 roller class III carriage and 48" high load backrest. Free lift specification does not include a load backrest.

Width	Truck	IΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
37"	Cushion	III	E60-ISS-021A	304
37"	Pneumatic	III	E60-ISS-022A	304
41"	Cushion	III	E60-ISS-023A	314
41"	Pneumatic	III	E60-ISS-024A	314

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- ▶ Integral sideshifters improve mast capacity in hang-on sideshifters. Consult your OEM for rating information.

Carriages

4 Roller Carriages

Width	Truck	ΠА		Weight
"C"	Type	Class	Ref#	(lb.)
37"	Cushion		E60-MC-01A	195
37"	Pneumatic	III	E6O-MC-02A	195
41"	Cushion	III	E60-MC-03A	206
41"	Pneumatic	III	E60-MC-04A	206

▶ 4 Roller Carriages are recommended for fork and hang-on sideshifter applications.

6 Roller Carriages

Width	Truck	IΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
37"	Cushion	III	E60-MC-011A	211
37"	Pneumatic	III	E60-MC-012A	211
41"	Cushion	III	E60-MC-013A	221
41"	Pneumatic	III	E60-MC-014A	221
49"	Cushion	III	E60-MC-015A	241
49"	Pneumatic	III	E60-MC-016A	241

▶ 6 Roller Carriages are recommended for all other attachment applications.

Load Backrests

Width	Height	Ref#	Weight (lb.)	
37"	48"	684785	84	
41"	48"	684788	91	
49"	48"	684791	100	

- ▶ Backrests are also available in 36" and 60" heights and heavy duty designs.
- ▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MS, MD and MT masts.
 For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and **Heavy Attachment Use**

Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

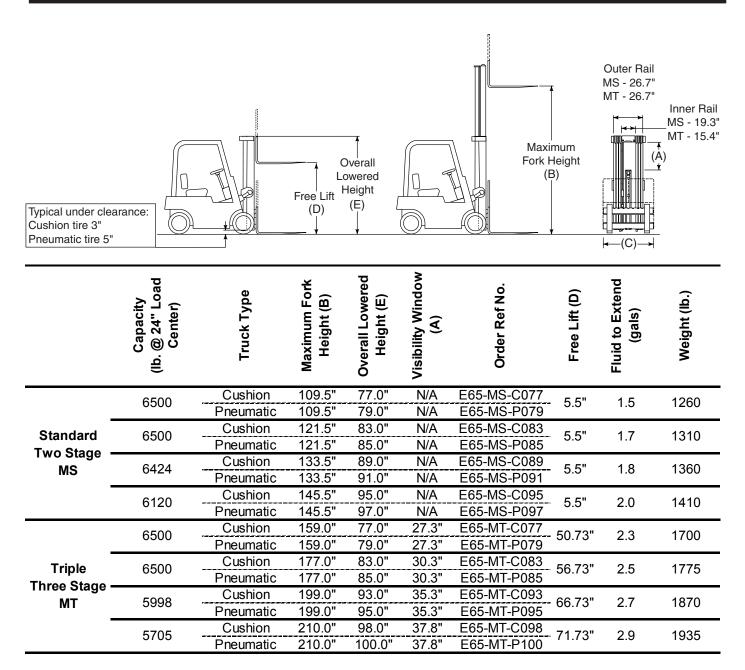
- ► The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MS, MD and MT masts.
- Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MS, MD and MT masts. Contact Lift Technologies for complete specifications.

Other Important Information!

▶ Pressures and Flows: The E60 mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 20 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
E60 MS	2450	2750	1	11
E60 MD	2600	2750	1	11
E60 MT	2550	2750	1	11

- * Pressure in pounds per square inch (psi)
- ** Flow rate in gallons per minute (gpm)



[▶] Specify carriage or sideshifter and load backrest separately.

[▶] Masts are available in 1" down height increments with maximum fork heights from 79.5" to 285".

[▶] Specifications noted within this page reflect the use of a 47" wide 6 roller class III carriage and 48" high load backrest. Free lift specification does not include a load backrest.

Wid	th Truck	IΤΑ		Weight
"C	" Type	Class	Ref#	(lb.)
37	" Cushion	III	E65-ISS-021A	304
37	" Pneumation	: III	E65-ISS-022A	304
41	" Cushion	III	E65-ISS-023A	311
41	" Pneumation	: III	E65-ISS-024A	311

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- ► Integral sideshifters improve mast capacity in hang-on sideshifters. Consult your OEM for rating information.

Carriages

4 Roller Carriages

Width	Truck	ΠА		Weight
"C"	Туре	Class	Ref#	(lb.)
37"	Cushion	III	E65-MC-01A	195
37"	Pneumatic	III	E65-MC-02A	195
41"	Cushion	III	E65-MC-03A	206
41"	Pneumatic	III	E65-MC-04A	206

▶ 4 Roller Carriages are recommended for fork and hang-on sideshifter applications.

6 Roller Carriages

Width	Truck	IΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
37"	Cushion	III	E65-MC-011A	211
37"	Pneumatic	III	E65-MC-012A	211
41"	Cushion	III	E65-MC-013A	221
41"	Pneumatic	III	E65-MC-014A	221
49"	Cushion	III	E65-MC-015A	241
49"	Pneumatic	III	E65-MC-016A	241

▶ 6 Roller Carriages are recommended for all other attachment applications.

Load Backrests

Width	Height	Ref#	Weight (lb.)	
37"	48"	684785	84	
41"	48"	684788	91	
49"	48"	684791	100	

- ▶ Backrests are also available in 36" and 60" heights and heavy duty designs.
- ▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MS and MT masts.
 For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- ► Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and Heavy Attachment Use

Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

- ► The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MS and MT masts.
- Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MS and MT masts. Contact Lift Technologies for complete specifications.

Other Important Information!

▶ Pressures and Flows: The E65 mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 22 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
E65 MS	2250	2750	1	16
E65 MT	2350	2750	1	16

- * Pressure in pounds per square inch (psi)
- ** Flow rate in gallons per minute (gpm)

Typical under clear Cushion tire 4" Pneumatic tire 5.5"			Î L	Overall owered Height (E)		\\	kimum Height (D)	Outer Ra MS - 28 MT - 28	3"
	Capacity (lb. @ 24" Load Center)	Truck Type	Maximum Fork Height (B)	Overall Lowered Height (E)	Visibility Window (A)	Order Ref No.	Free Lift (D)	Fluid to Extend (gals)	Weight (lb.)
	8000	Cushion Pneumatic	107.0" 107.0"	79.0" 80.5"	N/A N/A	80D-MS-C0790 80D-MS-P0805	7.0"	2.3	1995
-	8000	Cushion	119.0"	85.0"	N/A	80D-MS-C0850	7.0"	2.5	2080
Cton doud	0000	Pneumatic Cushion	119.0" 131.0"	86.5" 91.0"	N/A N/A	80D-MS-P0865 80D-MS-C0910	7.0"		0400
Standard Two Stage -	8000	Pneumatic	131.0"	92.5"	N/A	80D-MS-P0925	7.0"	2.8	2160
MS	8000	Cushion Pneumatic	147.0" 147.0"	99.0" 100.5"	N/A N/A	80D-MS-C0990 80D-MS-P1005	7.0"	3.1	2270
-	8000	Cushion Pneumatic	158.0" 158.0"	105.0" 106.5"	N/A N/A	80D-MS-C1050 80D-MS-P1065	7.0"	3.4	2350
_	8000	Cushion Pneumatic	178.0" 178.0"	115.0" 116.5"	N/A N/A	80D-MS-C1150 80D-MS-P1165	7.0"	3.8	2490
	8000	Cushion Pneumatic	159.0" 159.0"	78.0" 79.5"	24.1" 24.1"	80D-MT-C0780 80D-MT-P0795	49.3"	3.5	2640
_	8000	Cushion Pneumatic	171.0" 171.0"	82.0" 83.5"	26.1" 26.1"	80D-MT-C0820 80D-MT-P0835	53.3"	3.8	2720
- Triple	7950	Cushion	185.0"	87.0"	28.6"	80D-MT-C0870	58.3"	4.1	2820
Three Stage -	7720	Pneumatic Cushion Pneumatic	185.0" 217.0"	88.5" 98.0" 99.5"	28.6" 34.1" 34.1"	80D-MT-P0885 80D-MT-C0980 80D-MT-P0995	69.3"	4.8	3035
_	7570	Cushion Pneumatic	217.0" 237.0" 237.0"	99.5 105.0" 106.5"	37.6" 37.6"	80D-MT-P0995 80D-MT-C1050 80D-MT-P1065	76.3"	5.3	3170
_	7450	Cushion	256.0"	112.0"	11.9"	80D-MT-C1120	83.3"	5.7	3310

[▶] Specify carriage or sideshifter and load backrest separately.

[▶] Masts are available in 1" down height increments with maximum fork heights from 79" to 281".

[▶] Specifications noted within this page reflect the use of a 47" wide 6 roller class III carriage and 48" high load backrest. Free lift specification does not include a load backrest.

	Width	Truck	IΤΑ		Weight
	"C"	Type	Class	Ref#	(lb.)
	47"	Cushion	III	* Contact Li	ift-Tek for
		Pneumatic	III	product av	ailability
	63"	Cushion	III	* Contact Li	ift-Tek for
	03	Pneumatic	Ш	product av	ailability

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- ► Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

6 Roller Carriages

Width	Truck	IΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
47"	Cushion	III	80D-MC-11A	490
	Pneumatic	III	80D-MC-12A	490
63"	Cushion	III	80D-MC-13A	610
	Pneumatic	III	80D-MC-14A	010
68"	Cushion	III	80D-MC-15A	648
	Pneumatic	III	80D-MC-16A	040

Load Backrests

Width	Height	Ref#	Weight (lb.)	
47"	48"	220636	99	
63"	48"	230780	121	
68"	48"	226826	129	

- ▶ Backrests are also available in 36" and 60" heights.
- ▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MS and MT masts.
 For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- ► Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and Heavy Attachment Use

Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

- ► The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MS and MT masts.
- ▶ Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MS and MT masts. Contact Lift Technologies for complete specifications.

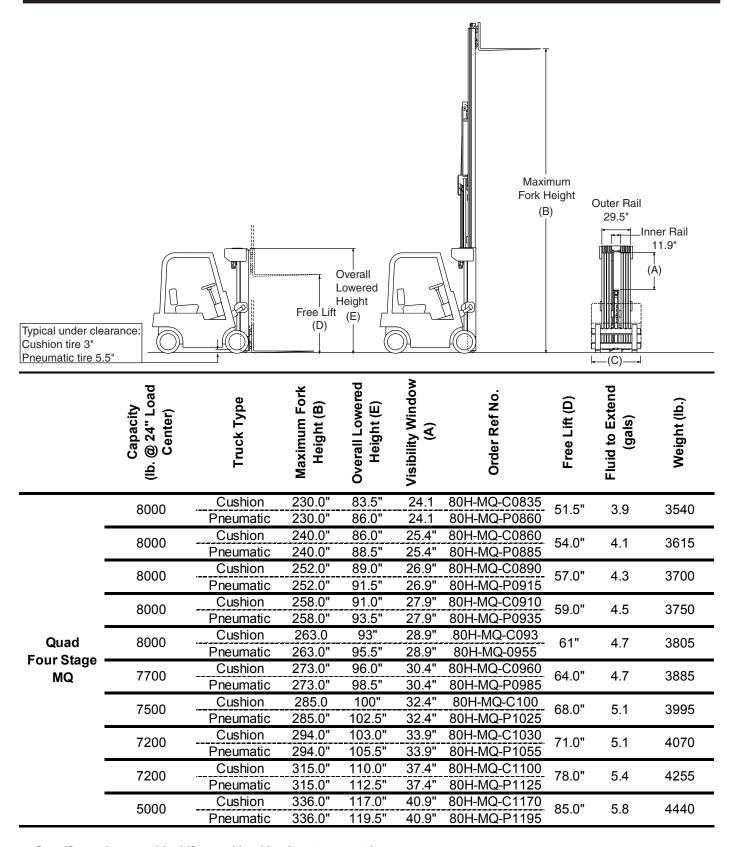
Other Important Information!

▶ Pressures and Flows: The 80D mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 30 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
80D MS	2000	2750	1	23
80D MT	2050	2750	1	23

- * Pressure in pounds per square inch (psi)
- ** Flow rate in gallons per minute (gpm)

80H Quad Mast



Specify carriage or sideshifter and load backrest separately.

Phone: 864-647-1119 www.lift-tek.com Fax: 864-647-5406

[▶] Contact Lift Technologies for other lowered height and fork lift height combinations.

[▶] Specifications noted within this page reflect the use of a 42" wide 6 roller class III carriage and 48" high load backrest. Free lift specification does not include a load backrest.

Carriages

6 Roller Carriages

Width	Truck	IΤΑ		Weight
"C"	Туре	Class	Ref#	(lb.)
42"	Cushion	III	80H-MC-01A	486
42	Pneumatic	III	80H-MC-02A	400
48"	Cushion	III	80H-MC-03A	524
40	Pneumatic	III	80H-MC-04A	324
55"	Cushion	III	80H-MC-05A	567
	Pneumatic	III	80H-MC-06A	307
61"	Cushion	III	80H-MC-07A	605
	Pneumatic	III	80H-MC-08A	005

Carpet Pole Carriages

Pole	Truck	Class	Ref#	Weight
Dia.	Type			(lb.)
3.0"	Cushion	N/A	80H-MQ-20A	300
3.0	Pneumatic	N/A	80H-MQ-21A	300
3.25"	Cushion	N/A	80H-MQ-22A	302
3.23	Pneumatic	N/A	80H-MQ-23A	302
3.5"	Cushion	N/A	80H-MQ-24A	320
3.5	Pneumatic	N/A	80H-MQ-25A	320

[►] Carpet pole carriages are 6 roller design.

Load Backrests

_	Width	Height	Ref#	Weight (lb.)	
	42"	48"	290300	83	
	48"	48"	230824	99	
	55"	48"	290302	112	
	61"	48"	290303	113	

▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MQ masts.
 For IHR on units shorter than C083/P085 or taller than C104/P106, consult LTI engineering.
- Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and Heavy Attachment Use

▶ Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

- ► The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MQ masts.
- Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MQ masts. Contact Lift Technologies for complete specifications.

Other Important Information!

▶ Pressures and Flows: The 80H mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 24 gpm, (27.5 gpm for low pressure) but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
80H MQ	2850	3000	1	19
80H(LP) MQ	2500	2750	1	25

^{*} Pressure in pounds per square inch (psi)

LP = Low Pressure

^{**} Flow rate in gallons per minute (gpm)

Typical under clea Cushion tire 4" Pneumatic tire 5.5			Free Lift (B)	Overall Lowered Height (E)		\\	dimum Height (D)	Outer Ra MS - 28 MT - 28	
	Capacity (lb. @ 24" Load Center)	Truck Type	Maximum Fork Height (B)	Overall Lowered Height (E)	Visibility Window (A)	Order Ref No.	Free Lift (D)	Fluid to Extend (gals)	Weight (lb.)
	10000	Cushion Pneumatic	99.0" 99.0"	79.0" 80.5"	N/A N/A	100D-MS-C0790 100D-MS-P0815	7.0"	2.5	2030
-	10000	Cushion Pneumatic	111.0" 111.0"	85.0" 86.5"	N/A N/A	100D-MS-C0850 100D-MS-P0865	7.0"	2.8	2115
Standard	10000	Cushion Pneumatic	123.0" 123.0"	91.0" 92.5"	N/A N/A	100D-MS-C0910 100D-MS-P0925	7.0"	3.1	2200
Two Stage - MS	10000	Cushion Pneumatic	138.0" 138.0"	99.0" 100.5"	N/A N/A	100D-MS-C0990 100D-MS-P1005	7.0"	3.5	2310
_	10000	Cushion Pneumatic	150.0" 150.0"	105.0" 106.5"	N/A N/A	100D-MS-C1050 100D-MS-P1065	7.0"	3.8	2390
_	10000	Cushion Pneumatic	169.0" 169.0"	115.0" 116.5"	N/A N/A	100D-MS-C1150 100D-MS-P1165	7.0"	4.3	2520
	10000	Cushion Pneumatic	158.0" 158.0"	82.0" 83.5"	28.3" 28.3"	100D-MT-C0820 100D-MT-P0835	49.3"	4.2	2725
	9900	Cushion Pneumatic	176.0" 176.0"	88.0" 89.5"	31.3" 31.3"	100D-MT-C0880 100D-MT-P0895	55.3"	4.7	2845
Triple - Three Stage	9660	Cushion Pneumatic	206.0" 206.0"	98.0" 99.5"	36.3" 36.3"	100D-MT-C0980 100D-MT-P0995	65.3"	5.5	3040
MT -	9490	Cushion Pneumatic	227.0" 227.0"	105.0"	39.8"	100D-MT-C1050 100D-MT-P1065	72.3"	6.1	3180
-	9220	Cushion Pneumatic	257.0" 257.0"	106.5" 115.0" 116.5"	39.8" 22.9" 22.9"	100D-MT-P1065 100D-MT-C1150 100D-MT-P1165	82.3"	6.9	3375

[▶] Specify carriage or sideshifter and load backrest separately.

[▶] Masts are available in 1" down height increments with maximum fork heights from 71" to 275".

[▶] Specifications noted within this page reflect the use of a 47" wide 6 roller class III carriage and 48" high load backrest. Free lift specification does not include a load backrest.

Width	Truck	IΤΑ		Weight
"C"	Type	Class	Ref#	(lb.)
47"	Cushion	III	* Contact Li	ft-Tek for
	Pneumatic	III	product av	ailability
63"	Cushion	III	* Contact Li	ft-Tek for
03	Pneumatic	Ш	product av	ailability

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

6 Roller Carriages

Width	Truck	ITA		Weight
"C"	Туре	Class	Ref#	(lb.)
47"	Cushion	III	100D-MC-11A	497
	Pneumatic	III	100D-MC-12A	
63"	Cushion	III	100D-MC-13A	617
	Pneumatic	III	100D-MC-14A	017
68"	Cushion	III	100D-MC-15A	654
00	Pneumatic	III	100D-MC-16A	004
72"	Cushion	III	100D-MC-17A	691
	Pneumatic	III	100D-MC-18A	031

▶ 8 roller carriages also available. Contact Lift Technologies for complete specifications .

Load Backrests

Width	Height	Ref#	Weight (lb.)	
47"	48"	220636	99	
63"	48"	230780	121	
68"	48"	226826	129	
72"	48"	230827	136	

- ▶ Backrests are also available in 36" and 60" heights.
- ▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MS and MT masts.
 For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- ► Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and Heavy Attachment Use

Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

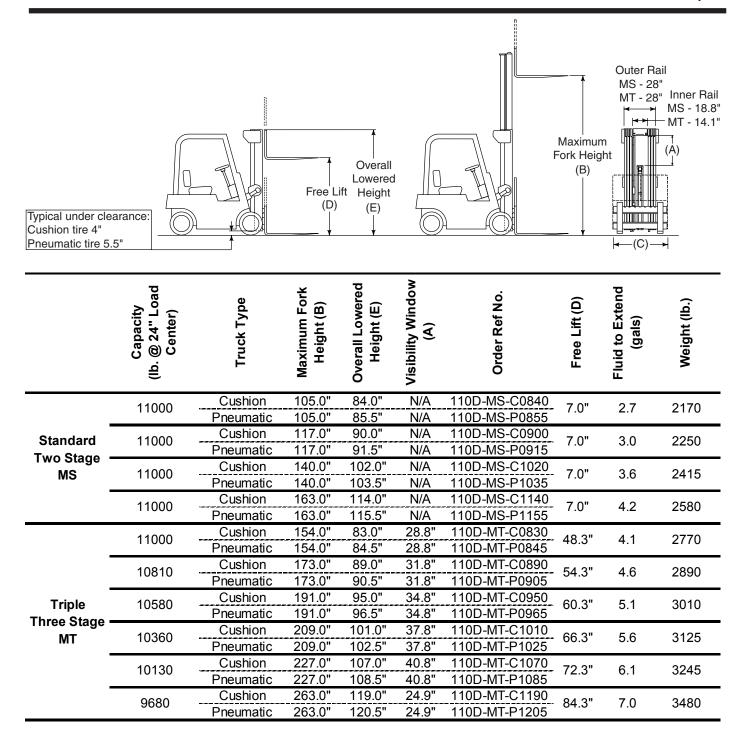
- ► The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MS and MT masts.
- ▶ Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MS and MT masts. Contact Lift Technologies for complete specifications.

Other Important Information!

▶ Pressures and Flows: The 100D mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 38 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
100D MS	2050	2750	1	29
100D MT	2150	2750	1	29

- * Pressure in pounds per square inch (psi)
- ** Flow rate in gallons per minute (gpm)



[▶] Specify carriage or sideshifter and load backrest separately.

[▶] Masts are available in 1" down height increments with maximum fork heights from 79" to 250".

[▶] Specifications noted within this page reflect the use of a 68" wide 6 roller class IV carriage and 48" high load backrest. Free lift specification does not include a load backrest.

٧	Vidth	Truck	IΤΑ		Weight
	"C"	Type	Class	Ref#	(lb.)
47"		Cushion	IV	* Contact Lift-Tek for product availability	
47"	Pneumatic	IV			
	68"	Cushion	IV	* Contact Li	ft-Tek for
00		Pneumatic	IV	product ava	ailability

- ▶ Integral sideshifters are 6 roller designs. When supplied in a mast they are installed complete with a hose kit, tested and ready for use.
- ▶ Integral sideshifters improve mast capacity in comparison to hang-on sideshifters. Contact your OEM for rating information.

Carriages

6 Roller Carriages

Width	Truck	IΤΑ		Weight	
"C"	Туре	Class	Ref#	(lb.)	
47"	Cushion	IV	110D-MC-01A	635	
47	Pneumatic	IV	110D-MC-02A	033	
68"	Cushion	IV	110D-MC-03A	865	
	Pneumatic	IV	110D-MC-04A	605	

▶ 8 roller carriages also available. Contact Lift Technologies for complete specifications and alternative widths.

Load Backrests

Width	Height	Ref#	Weight (lb.)	
47"	48"	248786	99	
68"	48"	249816	129	

▶ OSHA or state regulations may require the installation of load backrests. Lift Technologies recommends that all masts be supplied with factory installed load backrests.

Hydraulic Options

Internal Hose Reeving

- Single and dual function internal hose reeving is available for MS and MT masts.
 For IHR on units shorter than C083/P085 and taller than C104/P106, consult LTI engineering.
- ► Contact Lift Technologies for further information on specifications and visibility.

Cold Storage, Push Back Racking and Heavy Attachment Use

▶ Please refer to the Important Instructions on page 58 of this publication with information on " Slack Chain Valves, Cold Storage and Hydraulic Oil Flow Rates" to determine what mast options are required.

Attachment Adaption and QD Couplers

- ► The Attachment Adaption Kit provides all the required fittings, hoses and brackets for the connection between the reeving bulkhead and the upper carriage bar and are available for MS and MT masts.
- Quick Disconnect Couplers simplify your attachment installation and save time and money. They are available for MS and MT masts. Contact Lift Technologies for complete specifications.

Other Important Information!

▶ Pressures and Flows: The 110D mast model has a minimum hydraulic system pressure to lift the rated load as well as a maximum allowable system pressure. A minimum and recommended flow rate is also noted below. Some applications have successfully used flow rates of 38 gpm, but the mast purchaser must confirm proper mast operation in the expected operating conditions if using a flow rate above the recommended value because truck and environmental variables can affect mast function. Please contact LTI with questions concerning performance in regards to your specific application. See page 58 of this publication for more information on the variables that affect the operation of the mast.

	Min	Max	Minimum	Recommended
	Pressure*	Pressure*	Flow**	Flow**
110D MS	2300	2750	1	29
110D MT	2350	2750	1	29

^{*} Pressure in pounds per square inch (psi)

^{**} Flow rate in gallons per minute (gpm)

Important Instructions

Appendix - Important Instructions

Slack Chain Valves (SCV)

Why a Slack Chain Valve?

If the operator tries to lower the mast while the forks are "hung up" in a rack, the mast will not lower but the hydraulic fluid will drain from the lift cylinders. When the forks are free of the rack, the mast will drop faster and farther than chains and hoses can accommodate. This can cause chain and / or hose damage. The SCV prevents hydraulic fluid from draining from the cylinder when the operator tries to lower the mast while the forks are "hung up". This is more likely to occur at higher discharge heights and in cold temperature operations, as well as where push back racking and heavy attachments are used – all instances of restricted visibility.

When are Slack Chain Valves required?

- For use in cold storage and freezer temperatures below +20F
 - O SCV's are available for factory or field installation.

Operating Environments – Temperature

- Standard operating environment is +20F to +120F
- Cold storage environment is below +20F to -20F
- * Extreme Freezer environment is –20F to –40F

Cold Storage and Extreme Freezer Applications

- Cold Storage Kit is required below +20F (except 35-45-55DV quads)
- Slack Chain Valve is required in temperatures below +20F.
- *When operating in 20F to 40F:
 Maximum 5 minute duration in temperature below -20F. Truck must be in ambient temperature above -20F for at least 10 minutes before re-entering temperature -20F and below.

Critical Maintenance Note:

For below freezing operations, proper mast maintenance per the Lift Technologies maintenance and operator manual is required, including lubrication between hose sheaves and their shafts to reduce condensation and freezing. Proper hose tension and alignment to ensure hoses track properly is crucial for the correct operation of the internal hose reeving system. Failure to comply with these maintenance instructions may result in premature hose failure and will limit warranty coverage.

Hydraulic Oil Flow Rates

All masts have recommended minimum and maximum hydraulic operating pressures and flow rates to optimize mast performance. Many mast variables including hoses, fittings, and valves are customer and truck specific. There may be other variables on the truck which affect proper mast operation at a specific flow rate. Please ensure that all hydraulic system requirements are reviewed in detail to ensure optimal mast functionality.

Integral Fork Positioner

Integral Fork Positioner Capacities

Capacity & Load Center	Mounting Class	Overall Width	Maximum Fork Spread	Minimum Fork Opening	Fork Width
3500 lb. @ 24"		37"	34.5"	4.1"	4"
4500 lb. @ 24"	II	38.5"	36"	4.1"	4"
5500 lb. @ 24"		41"	38.5"	4.1"	4"
5500 - 6500 lb.	Ш	37"	34.5"	2.6"	4"
3300 - 0300 lb.	111	41"	38.5"	2.6"	4"

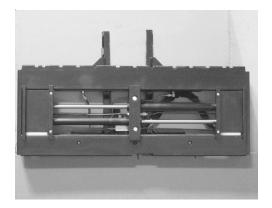
Integral Fork Positioner Application and Utilization

Integral Fork Positioners can be added to the Lift Tek Integral Sideshifter to provide a complete all in one material handling solution.

Lift Technologies Fork Positioners

- ▶ Maintain truck capacity rating, no increase in lost load.
- ▶ Minimal increase in weight.
- ▶ Available in capacities from 3,000 lb. to 6,500 lb.
- ► ITA hook fork mount class 2 and 3 allows use of standard hook forks.
- Can easily be added to Lift Tek integral sideshifters in the field.





Integral Fork Positioner Operator Benefits

- ▶ Improves productivity as the operator can adjust fork spacing from the drivers seat.
- ▶ Reduces operator injuries and fatigue.
- Decreases down time.
- ► Reduces product damage by hydraulically positioning the forks to suit the load size and shape.

Integral Sideshifters and Carriages

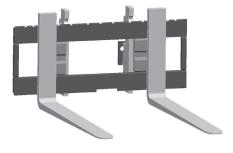
Integral Sideshift Carriages

- ► Available in capacities from 1.5 3.5 ton.
- ▶ Rugged tested structure and long life components.
- ▶ Easy to service.
- ▶ Efficient design allowing improved operator visibility.
- ▶ Increased truck capacity rating with reduction in weight and load center compared to hang-on sideshifter.
- ▶ Coming soon 4.0 7.0 ton Integral Sideshifter.



Standard Carriages

- ► Industrial truck, rough terrain forklift and telehandler carriage types.
- ► Available in capacities from 1.5 7.0 ton.
- ▶ High visibility designs available.
- Rugged attachment friendly carriages made with vanadium carriage bar material for long life and performance.
- ▶ Lift-Tek or OEM specific designs.





Service Parts

Quality OEM Lift-Tek Parts

The availability and timely shipment of quality OEM Lift-Tek service parts is our commitment to customer satisfaction. Most parts are available for same day shipment. To expedite the order process please have the Lift-Tek part number and/or mast PID (serial number) available when you call. Our professional parts specialists are available to quickly assist you in the identification of all your service parts needs.

Parts Depot Contact Information:

8:00am to 5:00pm EST, Monday through Friday.

Toll Free: (877) 430-6302 Local: (864) 647-6302 24-hr Fax: (864) 647-7302

Email: parts@lift-tek.com

Product Summary:

- ▶ Mast Rollers OEM quality approved with safety in mind.
- ▶ Chain Pre-cut lengths are in stock or custom lengths are cut to order. SAME DAY shipment available for most sizes!
- ▶ Cylinders and Service Kits Most cylinders and over 100 different packing kits are in stock for immediate delivery.
- ▶ Hoses Pre-cut lengths in stock or custom cut to length with hose fittings installed in-house.
- ▶ Internal Hose Reeving Kits Guides, sheaves, brackets and more!
- ▶ Carriage Bars Available cut to length, notched, shot blasted and ready for welding.
- ▶ Replacement Carriages and Service Kits Don't wait for the carriage to break due to poor maintenance order a service kit today!
- ▶ Load Backrests Most common sizes in stock and ready for SAME DAY shipment.
- ▶ Fork Positioner Kits Fork positioning to your Lift-Tek Integral Sideshifter call for details!

Many more parts are in stock. Please contact the Parts Depot for more information.

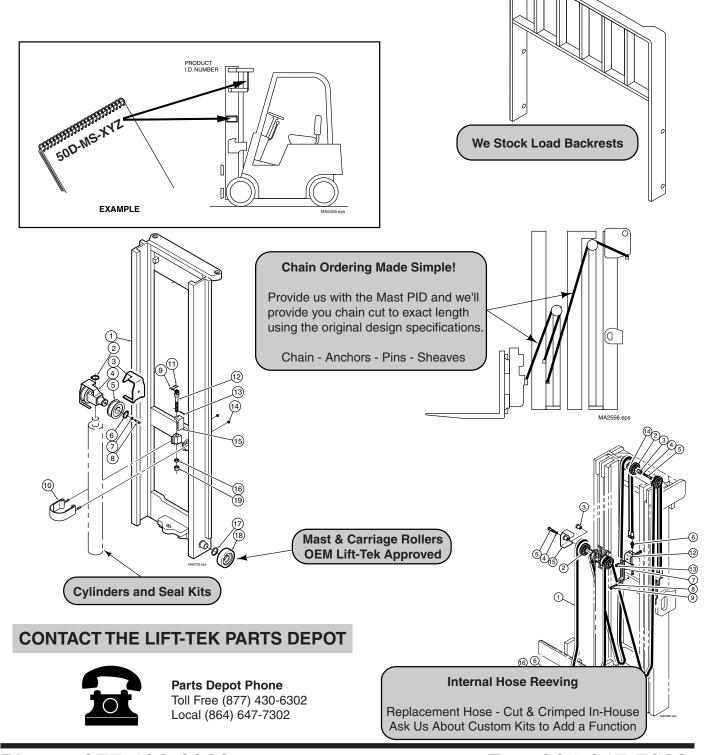
Phone: 877-430-6302 Fax: 864-647-7302

Important Information For Parts Orders

How to Identify a Lift-Tek Mast

Locate the product ID (PID) number stamped on the upper left hand side of the outer upright channel. This number must be used when ordering replacement parts for this product.

Our professional parts specialists are available to quickly assist you in the identification of all your parts needs. Or, you may visit the Technical Publications page of our website to obtain information specific to your mast and PID at www.lift-tekelecar.com.



Phone: 877-430-6302 Fax: 864-647-7302

Do you have any questions that need to be answered right now?

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Toll Free: (888) 946-3330 - North America Only

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