# **MOWN**

# **C-5**

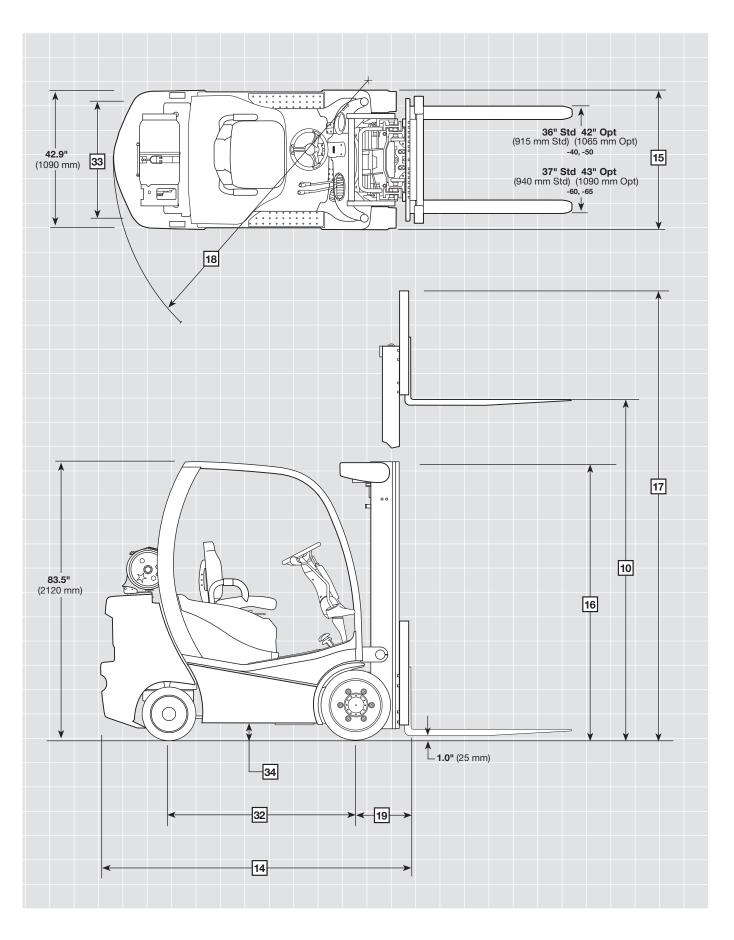
# 1,800-3,000 kg Capacity

IC Cushion Tyre

# **Specifications**







# C-5 Series Cushion

				ı	Imperial	Metric	Imperial	Metric
	1	Manufacturer			ппрепа	Crown Equipme	,	
					C5 10	000-40	-	000-50
_				الم الم		1815	5000	2270
General Information		Load Capacity  Load Center	Faul: Faca to 1 and 00	lb kg	4000			
ma			Fork Face to Load CG	in mm	24	610	24	610
ē		Power (Fuel) Type	Gas, LPG, Diesel			LF		
≟		Operator Type				Sit-down Rider		
<u>a</u>		Tyre Type					hion	
l e		,	Number Front / Rear			2x		
Ğ	9	Steering Type				Hydro	static	
	10	Mast	Lifting Height (MFH)			Soo Ma	st Chart	
			Free Lift Height			OCC IVIA	St Oriait	
	11	Fork Carriage				ITA C	lass II	
	12	Forks	Standard L x W x T	in mm	42 x 4 x 1.8	1065 x 100 x 45	42 x 4 x 1.8	1065 x 100 x 45
			Optional Lengths	in mm	32, 36, 39, 40, 43.31, 45, 48, 54, 60, 72	815, 915, 990, 1015, 1100, 1145, 1220, 1370, 1525, 1830	32, 36, 39, 40, 43.31, 45, 48, 54, 60, 72	815, 915, 990, 1015, 1100, 1145, 1220, 1370, 1525, 1830
6	13	Tilt	F/B	degree		5 /	/ 5	
Dimensions			Max. Height > 2° Tilt			See Ma	st Chart	
nsi	14	Head Length	Length to Fork Face	in mm	91.9	2335	93.1	2365
l e	15	Width Overall	Standard Tread	in mm	42.9	1090	42.9	1090
Ö			Wide Tread	in mm	47	1195	47	1195
	16	Height with LBR	Mast Collapsed			See Ma	st Chart	
	17		Mast Extended			See Ma	st Chart	
	18	Turning Radius	Outside	in mm	79.7	2025	82.5	2100
	19	Load Distance	Center of Wheel	:	10.0	405	10.0	405
	20	Aisle Width	to Fork Face	in mm	16.8	425	16.8	425
		(Add Load + Clear)	Right Angle Stack	in mm	96.5	2455	99.3	2525
100		Speed Travel - Forward	Empty / Loaded	mph km/h	10.7 / 10.7	17.2 / 17.2	10.7 / 10.7	17.2 / 17.2
l E		Speed Travel - Reverse	Empty / Loaded	mph km/h	10.7 / 10.7	17.2 / 17.2	10.7 / 10.7	17.2 / 17.2
Performance		Speed Lift	Empty / Loaded	fpm m/s	125 / 115	0.64 / 0.58	125 / 115	0.64 / 0.58
-		Speed Lower	Empty / Loaded	fpm m/s	91 / 93	0.46 / 0.47	91 / 93	0.46 / 0.47
Weights		Drawbar Pull - Max.		lb kg	4360	1975	4360	1975
eig		Gradeability - Max.	Empty / Loaded	%		/ 22		/ 18
>	27			lb kg	8720	3955	9735	4415
	28	Axle Load Front	Empty / Loaded	lb kg	4275 / 11,205	1940 / 5085	4110 / 12,780	1865 / 5800
	29	Axle Load Rear	Empty / Loaded	lb kg	4445 / 1510	2015 / 685	5630 / 1955	2555 / 885
		Tyres	Size Front	in	21 x 1	7 x 15	21 x	7 x 15
	31		Size Rear	in	16 x 6	x 10.5	16 x 6	3 x 10.5
Sis	32	Wheelbase		in mm	55.9	1420	55.9	1420
Chassis	33	Tread / Track Width	Front Standard / Rear	in mm	35.9 / 35.9	910 / 910	35.9 / 35.9	910 / 910
ြင်			Front Optional / Rear	in mm	40 / 35.9	1015 / 910	40 / 35.9	1015 / 910
	34	Ground Clearance	Center of Wheelbase	in mm	4.9	125	4.9	125
			Under Mast	in mm	3.1	75	3.1	75
	35	Brakes	Service			Foot / H	lydraulic	
			Parking			Hand / H	Hydraulic	
	36	Battery		V		1	2	
		Engine	Type			Indu	strial	
	38		No. of Cylinders / Displac	cement		4 Cyl		
ain	39		Rated Output (SAE gross)	HP @ rpm kW @ rpm	59 @ 2800	44 @ 2800	59 @ 2800	44 @ 2800
Powertrain	40		Maximum Torque (SAE)	ft-lb @ rpm N-m @ rpm	om 125 @ 1400 169 @ 1400		125 @ 1400	169 @ 1400
P	41	Transmission	Type	11 III & IPIII		Down	L Prehift	
	42	1141131111331011	Number of Speeds Forward / Reverse	Powershift  1 / 1				
	40	Auxiliant Franctica		ا امر	0600	170	0600	170
	43	Auxiliary Function	Relief Pressure	psi bar	2600	179	2600	179

# C-5 Series Cushion

					Imperial	Metric	Imperial	Metric				
	1	Manufacturer				Crown Equipme	ent Corporation					
	2	Model			C5 10	000-60		000-65				
딛	3	Load Capacity		lb kg	6000	2720	6500	2950				
atic		Load Center	Fork Face to Load CG	in mm	24	610	24	610				
E		Power (Fuel) Type	Gas, LPG, Diesel				PG					
lg		Operator Type				Sit-down Rider	Counterbalance					
<del> </del>		Tyre Type				Cus	hion					
General Information		Wheels (x = driven)	Number Front / Rear			2x	/ 2					
Ge		Steering Type				Hydro	static					
	10	Mast	Lifting Height (MFH)			0 - 14-	-1.011					
			Free Lift Height		See Mast Chart							
	11	Fork Carriage				ITA C	lass III					
	12	Forks	Standard L x W x T	in mm	42 x 5 x 1.8	1065 x 125 x 45	42 x 5 x 1.8	1065 x 125 x 45				
			Optional Lengths	in mm	32, 36, 39, 40, 43.31, 45, 48, 54, 60, 72	815, 915, 990, 1015, 1100, 1145, 1220, 1370, 1525, 1830	32, 36, 39, 40, 43.31, 45, 48, 54, 60, 72	815, 915, 990, 1015, 1100, 1145, 1220, 1370, 1525, 1830				
6	13	Tilt	F/B	degree		5 ,						
Dimensions			Max. Height > 2° Tilt				st Chart					
ısı		Head Length	Length to Fork Face	in mm	97.3	2470	96.6	2455				
l ine	15	Width Overall	Standard Tread	in mm	44.8	1140	44.8	1140				
			Wide Tread	in mm	47	1195	47	1195				
		Height with LBR	Mast Collapsed				st Chart					
	17		Mast Extended				st Chart					
		Turning Radius	Outside	in mm	85.7	2180	85	2160				
	19	Load Distance	Center of Wheel to Fork Face	in mm	17	430	17	430				
	20	Aisle Width (Add Load + Clear)	Right Angle Stack	in mm	102.7	2610	102	2595				
ce	21	Speed Travel - Forward	Empty / Loaded	mph km/h	11 / 10.8	17.7 / 17.4	11 / 10.8	17.7 / 17.4				
mar	22	Speed Travel - Reverse	Empty / Loaded	mph km/h	11 / 10.8	17.7 / 17.4	11 / 10.8	17.7 / 17.4				
Performance	23	Speed Lift	Empty / Loaded	fpm m/s	125 / 115	0.64 / 0.58	125 / 115	0.64 / 0.58				
		Speed Lower	Empty / Loaded	fpm m/s	91 / 93	0.46 / 0.47	91 / 93	0.46 / 0.47				
hts		Drawbar Pull - Max.		lb kg	4360	1975	4360	1975				
Weights		Gradeability - Max.	Empty / Loaded	%		/ 16		/ 16				
>		Gross Vehicle Weight		lb kg	10,670	4840	10,890	4940				
		Axle Load Front	Empty / Loaded	lb kg	3945 / 14,395	1790 / 6530	3855 / 15,180	1750 / 6558				
		Axle Load Rear	Empty / Loaded	lb kg	6725 / 2280	3050 / 1035	7035 / 2215	3190 / 1005				
		Tyres	Size Front	in .		3 x 15		8 x 15				
l so	31	Wheelbase	Size Rear	in		( 12.125		x 12.125				
Chassi		Tread / Track Width	Front Standard / Rear	in mm	55.9 35.9 / 35.9	1420 910 / 910	55.9 35.9 / 35.9	1420 910 / 910				
ha	33	Tread / Track Width	Front Optional / Rear	in mm in mm	38.9 / 35.9	990 / 910	38.9 / 35.9	990 / 910				
١٠١	0.4	Ground Clearance	Center of Wheelbase	in mm	4.9	125	4.9	125				
	34	Ground Clearance	Under Mast	in mm	3.1	75	3.1	75				
	35	Brakes	Service		0.1		lydraulic	10				
	00	Brakes	Parking				Hydraulic					
	36	Battery	T CITCHING	V			2					
		Engine	Type				= strial					
	38	J	No. of Cylinders / Displac	cement		4 Cyl						
ain	39		Rated Output (SAE gross)	HP @ rpm kW @ rpm	59 @ 2800	44 @ 2800	59 @ 2800	44 @ 2800				
Powertrain	40		Maximum Torque (SAE)	ft-lb @ rpm	125 @ 1400	170 @ 1400	125 @ 1400	170 @ 1400				
Po	41	Transmission	Type	N-m @ rpm		Down	l ershift					
	42	i i aiisiiiissiUii	Number of Speeds Forward / Reverse			1 ,						
	40	Auxiliant Franctica	+	ا عا امم	0100		1	014				
Ш	43	Auxiliary Function	Relief Pressure	psi bar	3100	214	3100	214				

# C-5 Series Cushion

### **Mast Charts**

C5 10	00-40/50		TL TRUCK	ERS MAST	(2-STAGE)					
10	Lift Height	in mm	68	1725	76	1930	80	2030	82	2080

10	Lift Height	in mm	68	1725	76	1930	80	2030	82	2080	112	2840
	Free Lift Height	in mm	5.8	145	5.8	145	5.8	145	5.8	145	5.8	145
13	Max. Height > 2° Tilt	in mm	na	na								
16	Mast Collapsed Height*	in mm	54	1375	58	1475	60	1525	61	1550	76	1935
17	Mast Extended Ht. (36" LBR)	in mm	105	2670	113	2875	117	2975	119	3025	149	3785
	Mast Extended Ht. (48" LBR)	in mm	117	2975	125	3175	129	3280	131	3330	161	4090

<sup>\*</sup>Any collapsed height > 60" (1524 mm) even without LBR could hit the ceiling of a 106" (2692 mm) internal clearance trailer.

C5 1000-40/50	TL (2-STAGE)
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10	Lift Height	in mm	126	3200	138	3505	150	3810
	Free Lift Height	in mm	5.8	145	5.8	145	5.8	145
13	Max. Height > 2° Tilt	in mm	78	1980	78	1980	78	1980
16	Mast Collapsed Height	in mm	83	2110	89	2265	95	2415
17	Mast Extended Ht. (36" LBR)	in mm	163	4145	175	4445	187	4750
	Mast Extended Ht. (48" LBR)	in mm	175	4445	187	4750	199	5055

C5 1000-40/50	TF (2-STAGE WITH FREE LIFT)
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10	Lift Height	in mm	114	2895	126	3200	138	3505	150	3810	162	4110	174	4415	184	4670	196	4975
	Free Lift Height (36" LBR)	in mm	40	1015	46	1165	52	1320	58	1470	64	1625	70	1775	76	1930	82	2080
	Free Lift Height (48" LBR)	in mm	28	710	34	860	40	1015	46	1165	52	1320	58	1470	64	1625	70	1775
13	Max. Height > 2° Tilt	in mm	60	1520	96	2435	96	2435	96	2435	84	2130	90	2285	96	2435	102	2590
16	Mast Collapsed Height	in mm	77	1960	83	2110	89	2265	95	2415	101	2570	107	2720	113	2875	119	3025
17	Mast Extended Ht. (36" LBR)	in mm	151	3840	163	4145	175	4445	187	4750	199	5055	211	5360	221	5615	233	5920
	Mast Extended Ht. (48" LBR)	in mm	163	4145	175	4445	187	4750	199	5055	211	5360	223	5665	233	5920	245	6225

C5 1000-40/50	TT (3-STAGE)

10	Lift Height	in mm	188	4775	206	5230	216	5485	231	5865	246	6245	258	6550	276	7010
	Free Lift Height (36" LBR)	in mm	46	1165	52	1320	58	1470	64	1625	70	1775	76	1930	82	2080
	Free Lift Height (48" LBR)	in mm	34	860	40	1015	46	1165	52	1320	58	1470	64	1625	70	1775
13	Max. Height > 2° Tilt	in mm	94	2385	94	2385	94	2385	90	2285	96	2435	102	2590	108	2740
16	Mast Collapsed Height	in mm	83	2110	89	2265	95	2415	101	2570	107	2720	113	2875	119	3025
17	Mast Extended Ht. (36" LBR)	in mm	225	5715	243	6175	253	6430	268	6810	283	7190	295	7495	313	7955
	Mast Extended Ht. (48" LBR)	in mm	237	6020	255	6480	265	6735	280	7115	295	7495	307	7800	325	8255

#### C5 1000-40/50 QUAD (4-STAGE)

				- ,						
10	Lift Height	in mm	240	6095	258	6550	276	7010	294	7465
	Free Lift Height (36" LBR)	in mm	46	1165	52	1320	58	1470	64	1625
	Free Lift Height (48" LBR)	in mm	34	860	40	1015	46	1165	52	1320
13	Max. Height > 2° Tilt	in mm	69	1750	75	1905	81	2055	87	2205
16	Mast Collapsed Height	in mm	83	2110	89	2265	95	2415	101	2570
17	Mast Extended Ht. (36" LBR)	in mm	277	7040	295	7495	313	7955	331	8410
	Mast Extended Ht. (48" LBR)	in mm	289	7345	307	7800	325	8255	343	8715

## C5 1000-60 TL TRUCKERS MAST (2-STAGE)

10	Lift Height	in mm	60	1520	68	1725	72	1825	100	2540
	Free Lift Height	in mm	5.8	145	5.8	145	5.8	145	5.8	145
13	Max. Height > 2° Tilt	in mm	na	na	na	na	na	na	na	na
16	Mast Collapsed Height	in mm	54	1375	58	1475	60	1525	74	1880
17	Mast Extended Ht. (36" LBR)	in mm	97	2465	105	2670	109	2770	137	3480
	Mast Extended Ht. (48" LBR)	in mm	109	2770	117	2975	121	3075	149	3785

C5 1000-60	TL (2-STAGE)
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10	Lift Height	in mm	118	2995	130	3300	142	3605
	Free Lift Height	in mm	5.8	145	5.8	145	5.8	145
13	Max. Height > 2° Tilt	in mm	78	1980	78	1980	78	1980
16	Mast Collapsed Height	in mm	83	2110	89	2265	95	2415
17	Mast Extended Ht. (36" LBR)	in mm	155	3940	167	4245	179	4550
	Mast Extended Ht. (48" LBR)	in mm	167	4245	179	4550	191	4855

# C-5 Series Cushion

### Mast Charts (Continued)

	000-60			AGE WIT													
10	Lift Height	in mm	108	2740	120	3045	132	3350	143	3630	155	3935	167	4240	177	449	
	Free Lift Height (36" LBR)	in mm	40	1015	46	1165	52	1320	58	1470	64	1625	70	1775	76	193	
	Free Lift Height (48" LBR)	in mm	28	710	34	860	40	1015	46	1165	52	1320	58	1470	64	162	
13	Max. Height > 2° Tilt	in mm	57	1445	93	2360	93	2360	93	2360	81	2055	87	2205	93	23	
16	Mast Collapsed Height	in mm	77	1960	83	2110	89	2265	95	2415	101	2570	107	7 2720	113	28	
17	Mast Extended Ht. (36" LBR)	in mm	145	3685	157	3990	169	4295	180	4575	192	4880	204	5185	214	54	
	Mast Extended Ht. (48" LBR)	in mm	157	3990	169	4295	181	4600	192	4880	204	5185	216	5490	226	57	
5 10	000-60		TT (3-S1	TAGE)													
10	T.		180		19	0 6	5025	208	5280	223	5660	23	00	6045	250	635	
10	Lift Height Free Lift Height (36" LBR)	in mm in mm	46	4570 1165	52	_	320	58	1470	64	1625	70	_	1775	76	193	
			34	860	4(	_	015	46		52	1320	58	_	1470	64		
13	Free Lift Height (48" LBR)	in mm	91		9-			91	1165	87		99	_		99	162	
	Max. Height > 2° Tilt	in mm		2310	_		2310		2310	-	2205	_		2360		25	
16	Mast Collapsed Height	in mm	83	2110	89		2265	95	2415	101	2570	10	_	2720	113	287	
17	Mast Extended Ht. (36" LBR)	in mm	217	5515	23		5970	245	6225	260	6605	27	_	6985	287	729	
	Mast Extended Ht. (48" LBR)	in mm	229	5820	24	./ 6	8275	257	6530	272	6910	28	57	7290	299	759	
5 10	000-60		QUAD (4	1-STAGE)													
10	Lift Height	in mm	240		6095		258	6	550	276	3	7010		294		7465	
_	Free Lift Height (36" LBR)	in mm	46		1165		52		320	58		1470		64		1625	
	Free Lift Height (48" LBR)	in mm	34		860		40	_	015	46		1165		52		1320	
13	Max. Height > 2° Tilt	in mm	69		1750		75		905	81		2055		87		2205	
16	Mast Collapsed Height	in mm	83	_	2110		89		265	95		2415		101		2570	
17	Mast Extended Ht. (36" LBR)	in mm	27		7040		295		495	313		7955		331		8410	
17	Mast Extended Ht. (48" LBR)	in mm	289		7345		307		800	325		8255		343		8410 8715	
	Mast Extended Fit. (40 EBH)		200		7040		307	- 1	000	020		0200		040		51 10	
5 10	000-65		TL TRU	CKERS N	IAST (2	2-STAG	E)										
10	Lift Height	in mm	57		1445		65	1	650	69		1750		97		2460	
10			5.8			145 5.8		145		5.8			145 5.8		145		
	Free Lift Height	in mm	5.8	3	145		5.8		145	5.8		145		5.8		145	
13	Free Lift Height  Max. Height > 2° Tilt	in mm in mm	5.8 na		145 na		5.8 na		145 na	5.8 na		145 na		5.8 na		145 na	
13	Max. Height > 2° Tilt	in mm			na				na	-		na				na	
			na				na	1		na				na			
16	Max. Height > 2° Tilt  Mast Collapsed Height*	in mm in mm	na 54		na 1375		na 58	1 2	na 475	na 60	8	na 1525		na 74	:	na 1880	
16 17	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)	in mm in mm in mm in mm	na 54 94 106	6	na 1375 2390 2695	ng of a	na 58 102 114	1 2 2	na 475 595 900	na 60 106 118	6	na 1525 2695		na 74 134	:	na 1880 3405	
16 17 Any	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)	in mm in mm in mm in mm ) even with	na 54 94 100 out LBR	could hit	na 1375 2390 2695	ng of a	na 58 102 114	1 2 2	na 475 595 900	na 60 106 118	6	na 1525 2695		na 74 134	:	na 1880 3405	
16 17 Any (	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)	in mm in mm in mm in mm on with	na 54 94 100 out LBR <b>TL (2-S1</b>	could hit	na 1375 2390 2695		na 58 102 114	1 2 2 92 mm) in	na 475 595 900 ternal cle	na 60 100 118 earance tr	3 3 ailer.	na 1525 2695		na 74 134 146		na 1880 3405 3710	
16 17 Any	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)	in mm in mm in mm in mm ) even with	na 54 94 100 out LBR <b>TL (2-S1</b>	could hit	na 1375 2390 2695	2920	na 58 102 114	1 2 2	na 475 595 900 ternal cle	na 60 100 118 earance tr	6	na 1525 2695	139	na 74 134 146	35	na 1880 3405 3710	
16 17 Any (	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)  collapsed height > 100-65  Lift Height  Free Lift Height	in mm in mm in mm in mm on with	na 54 94 106 out LBR <b>TL (2-S1</b>	6 Could hit 1	na 1375 2390 2695	2920 145	na 58 102 114	1 2 2 92 mm) in 120 5.8	na 475 595 900 ternal cle	na 60 106 118 earance tr	3 3 ailer.	na 1525 2695	139	na 74 134 146	35	na 1880 3405 3710	
16 17 Any (	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed Height > 60" (1524 mm)	in mm in mm in mm in mm ) even with	na 54 94 106 out LBR	could hit 1	na 1375 2390 2695	2920 145 1980	na 58 102 114	1 2 2 292 mm) in 120 5.8	na 475 595 900 tternal cle	na 60 106 118 earance tr	3 3 ailer.	na 1525 2695	139 5.8 78	na 74 134 146	35	na 1880 3405 3710	
16 17 Any (10 10 13 16	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed Height  Free Lift Height  Max. Height > 2° Tilt  Mast Collapsed Height	in mm	na 54 94 106 out LBR TL (2-ST	Could hit : 155.8 78 83	na 1375 2390 2695	2920 145 1980 2110	na 58 102 114	11 22 22 22 292 mm) in 120 5.8 78	na 475 595 900 tternal cle	na 60 100 118 earance tr	3 3 ailer. 200 45	na 1525 2695	139 5.8 78 95	na 74 134 146	35	na 1880 3405 3710 30 45	
16 17 Any ( 25 10 10	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed Height > 60" (1524 mm)	in mm in mm in mm in mm in mm ) even with in mm in mm in mm	na 54 94 106 out LBR TL (2-ST	could hit 1	na 1375 2390 2695	2920 145 1980	na 58 102 114	1 2 2 292 mm) in 120 5.8	na 475 595 900 tternal cle	na 60 106 118 earance tr	3 3 ailer. 200 45	na 1525 2695	139 5.8 78	na 74 134 146	35 14 19	na 1880 3405 3710 30 45 80	
16 17 Any (10 10 13 16	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed Height  Free Lift Height  Max. Height > 2° Tilt  Mast Collapsed Height	in mm in mm in mm in mm ) even with in mm in mm in mm in mm in mm	na 54 94 106 out LBR	Could hit : 155.8 78 83	na 1375 2390 2695	2920 145 1980 2110	na 58 102 114	11 22 22 22 292 mm) in 120 5.8 78	na 475 595 900 tternal cle	na 600 1000 1118 earance tr	200 45 980	na 1525 2695	139 5.8 78 95	na 74 134 146	35 14 19 24	na 1880 3405 3710 30 45 80 15	
16 17 Any (10 10 13 16 17	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed Height  Free Lift Height  Max. Height > 2° Tilt  Mast Collapsed Height  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)	in mm	na 54 94 100 out LBR	6 could hit 1 fAGE) 115 5.8 78 83 152	na 1375 2390 2695 the ceilii	2920 145 1980 2110 3865 4170	na 58 102 114	11 22 22 22 22 22 22 22 22 23 25 26 26 26 26 26 26 26 26 26 26 26 26 26	na 475 595 900 tternal cle	na 600 1000 1118 earance tr	3 ailer. 200 45 980 265	na 1525 2695	139 5.8 78 95 176	na 74 134 146	355 14 19 24 44	na 1880 3405 3710 30 45 80 15	
16 17 Any (10 10 13 16 17	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed Height  Free Lift Height  Max. Height > 2° Tilt  Mast Collapsed Height  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)	in mm	na 54 94 100 out LBR	6 could hit 17AGE) 1115 5.8 78 83 152 164	na 1375 2390 2695 the ceilii	2920 145 1980 2110 3865 4170	na 58 102 114 1106" (269	11 22 22 22 22 22 22 22 32 46 46 47 47 47 47 47 47 47 47 47 47 47 47 47	na 475 595 9900 ternal cla	na 600 1000 1118 earrance tr	3 3 ailer. 200 45 980 265 145 445	na 1525 2695 3000	139 5.8 78 95 176 188	na 74 134 146 146 146 146 146 146 146 146 146 14	35 12 19 24 44 47	na 11880 33405 33710 330 45 80 115 775 880	
16 17 Any (10 10 13 16 17	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed height > 7 Tilt  Max. Height > 2° Tilt  Mast Collapsed Height  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed Height	in mm	na 54 94 100 out LBR TL (2-S1 54 105 105 105 105 105 105 105 105 105 105	6 could hit 1 FAGE) 1115 5.8 78 83 152 164	na 1375 2390 2695 the ceilii	2920 145 1980 2110 3865 4170 E LIFT)	na 58 102 114 1106" (269	11 22 22 22 22 22 22 22 32 78 89 16: 17:	na 475 595 9900 ternal class 3 3 5 141	na 600 1000 1118 earance tr	3 3 ailer. 200 45 980 265 145 445	na 1525 2695 3000	139 5.8 78 95 176 188	na 74 134 146 146 15 15 15 15 15 15 15 15 15 15 15 15 15	355 14 19 24 44 47	na 11880 33405 33710 330 45 880 115 775 880	
16 17 Any (10 10 13 16 17	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed height > 700-65  Lift Height  Free Lift Height  Max. Height > 2° Tilt  Mast Collapsed Height  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed Height  free Lift Height (36" LBR)	in mm	na 54 94 100 out LBR TL (2-S1  TF (2-S1 105 40	6 could hit 1	na 1375 2390 2695 the ceilii	2920 145 1980 2110 3865 4170 <b>E LIFT)</b> 2970 1165	na 58 102 114 1106" (269 129 129 52	11 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	na 475 595 9900 ternal class 3 3 5 5 141 58	na 600 1000 1118 ararance tro	3 3 3 ailer. 200 445 980 2265 1445 4445	na 1525 2695 3000	139 5.8 78 95 176 188	na 74 134 146 146 15 15 15 15 15 15 15 15 15 15 15 15 15	35 14 19 24 44 47	na 11880 33405 33710 330 15 880 444 19	
16 17 Any (10 10 13 16 17	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed height > 7 Tilt  Max. Height > 2° Tilt  Mast Collapsed Height  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed Height   100-65  Lift Height   100-65  Lift Height   100-65  Lift Height   100-65  Lift Height   100-65  Free Lift Height (36" LBR)  Free Lift Height (48" LBR)	in mm	na 54 94 100 out LBR TL (2-S1  TF (2-S1 105 40 28	63 could hit 1 FAGE) 1115 5.8 78 83 152 164 FAGE WIT 2665 1015 710	na 1375 2390 2695 the ceilii TH FRE 117 46 34	2920 145 1980 2110 3865 4170 <b>E LIFT)</b> 2970 1165 860	na 58 102 114 1106" (269 129 52 40	120 22 22 22 22 22 22 22 22 22 22 22 22 22	na 475 595 9900 ternal cle	na 60 106 118 arance tr	3 3 3 ailer. 2000 445 9980 2265 1445 4445 153 64 52	na 1525 2695 3000 3885 1625 1320	1395 5.8 95 176 188 165 70	na 74 134 146 146 146 146 146 1470 1470 1470 1470 1470 1470 1470 1470	35 14 19 24 44 47 175 76 64	na 11880 33405 33710 330 15 880 115 775 880	
16 17 Any (10 10 13 16 17 10	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed Height  Free Lift Height  Max. Height > 2° Tilt  Mast Collapsed Height  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed Height  collapsed Height (48" LBR)  collapsed Height (36" LBR)  collapsed Height (48" LBR)  collapsed Height (36" LBR)	in mm	na 54 94 100 out LBR TL (2-S1 105 40 28 57	63 could hit TAGE) 1115 55.8 78 83 152 164 TAGE WIT 2665 1015 710 1445	na 1375 2390 2695 the ceilli TH FRE 117 46 34 93	2920 145 1980 2110 3865 4170 <b>E LIFT)</b> 2970 1165 860 2360	na 58 102 114 1106" (269 129 52 40 93	11 2 2 2 2 2 2 2 2 2 2 2 2 2 3 2 7 8 8 9 16 17; 13 12 10 11 12 11 12 13 14 14 15 16 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	na 475 595 9900 ternal cle	na 60 106 118 sarance tr	3 3 3 ailler. 2000 445 9980 2265 1145 4445 153 64 52 81	na 1525 2695 3000 3885 1625 1320 2055	139 5.8 78 95 176 188 168 70 58 87	na 74 134 146 146 146 146 1470 1470 1470 1470 1470 1470 1470 1470	35 14 19 24 44 47 175 76 64 93	na 11880 33405 33710 33710 33710 33710 33710 441 19 16 23	
16 17 Any (10 10 13 16 17 10 13 10	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed Height  Max. Height > 2° Tilt  Mast Collapsed Height  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed Height (36" LBR)  collapsed Height (36" LBR)  collapsed Height (36" LBR)  collapsed Height (48" LBR)  collapsed Height (48" LBR)  collapsed Height (48" LBR)  collapsed Height	in mm	na 54 94 100 out LBR  TL (2-S1 105 40 28 57 77	63 could hit TAGE) 1115 55.8 78 83 152 164 TAGE WIT 2665 1015 710 1445 1960	na 1375 2390 2695 the ceilli TH FRE 117 46 34 93 83	2920 145 1980 2110 3865 4170 <b>E LIFT)</b> 2970 1165 860 2360 2110	na 58 102 114 1106" (269 129 129 52 40 93 89	11 2 2 2 2 2 2 2 2 2 2 2 2 2 3 2 7 8 9 16 17; 1320 1015 2360 2265	na 475 595 9900 ternal cle 63 3 5 5 141 58 46 93 95	na 60 106 118 sarance tr	3 3 3 aailer. 2000 445 980 2265 1145 4445 153 64 52 81 101	na 1525 2695 3000 3885 1625 1320 2055 2570	138 5.8 95 176 188 166 70 58 87	na 74 134 146 146 146 147 147 1470 2205 7 2720	35 12 19 24 44 47 175 76 64 93 113	na 11880 33405 33710 330 45 880 44 19 23 28	
16 17 Any (10 10 13 16 17 10	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed Height  Free Lift Height  Max. Height > 2° Tilt  Mast Collapsed Height  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed Height (48" LBR)  free Lift Height (36" LBR)  Free Lift Height (48" LBR)  Max. Height > 2° Tilt  Mast Collapsed Height  Mast Collapsed Height  Mast Extended Ht. (36" LBR)	in mm	na 544 944 1000 out LBR  TL (2-S1 105 40 28 57 77 142	3 could hit 1 115 5.8 78 83 152 164 TAGE WIT 2665 1015 710 1445 1960 3610	na 1375 2390 2695 the ceilli TH FRE 117 46 34 93 83 154	2920 145 1980 2110 3865 4170 <b>E LIFT)</b> 2970 1165 860 2360 2110 3915	na 58 102 114 1106" (269 129 129 129 129 166 166 166 189 1166	11 2 2 2 2 2 2 2 2 2 2 3 2 3 2 1 6 3 2 7 5 8 9 1 6 3 2 7 5 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	na 475 595 9900 ternal cle 63 3 55 141 58 46 93 95 178	na 60 106 118 earance tr  3 1 1 2 4 4 3580 1470 1165 2360 2415 4525	33 33 aailer. 2000 445 980 265 145 445 153 64 52 81 101 190	na 1525 2695 3000 3885 1625 1320 2055 2570 4830	139 5.8 95 176 188 165 70 58 87 107	na 74 134 146 146 146 146 146 147 147 1470 1470 1470 1470 1470 1470 1	35 12 19 24 44 47 175 76 64 93 113 212	na 11880 33405 33710 330 45 880 444 19 16 23 28 53	
16 17 Any (10 10 13 16 17 10 13 16	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed Height  Max. Height > 2° Tilt  Mast Collapsed Height  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed Height (36" LBR)  collapsed Height (36" LBR)  collapsed Height (36" LBR)  collapsed Height (48" LBR)  collapsed Height (48" LBR)  collapsed Height (48" LBR)  collapsed Height	in mm	na 54 94 100 out LBR  TL (2-S1 105 40 28 57 77	63 could hit TAGE) 1115 55.8 78 83 152 164 TAGE WIT 2665 1015 710 1445 1960	na 1375 2390 2695 the ceilli TH FRE 117 46 34 93 83	2920 145 1980 2110 3865 4170 <b>E LIFT)</b> 2970 1165 860 2360 2110	na 58 102 114 1106" (269 129 129 52 40 93 89	11 2 2 2 2 2 2 2 2 2 2 2 2 2 3 2 7 8 9 16 17; 1320 1015 2360 2265	na 475 595 9900 ternal cle 63 3 5 5 141 58 46 93 95	na 60 106 118 sarance tr	3 3 3 aailer. 2000 445 980 2265 1145 4445 153 64 52 81 101	na 1525 2695 3000 3885 1625 1320 2055 2570	138 5.8 95 176 188 166 70 58 87	na 74 134 146 146 146 146 146 147 147 1470 1470 1470 1470 1470 1470 1	35 12 19 24 44 47 175 76 64 93 113 212	na 11880 33405 33710 330 45 880 44 19 16 23 28 53	
16 17 Any (10 10 13 16 17 10 13 16 17	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed Height  Free Lift Height  Max. Height > 2° Tilt  Mast Collapsed Height  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed Height (48" LBR)  free Lift Height (36" LBR)  Free Lift Height (48" LBR)  Max. Height > 2° Tilt  Mast Collapsed Height  Mast Collapsed Height  Mast Extended Ht. (36" LBR)	in mm	na 544 944 1000 out LBR  TL (2-S1 105 40 28 57 77 142	Could hit Could	na 1375 2390 2695 the ceilli TH FRE 117 46 34 93 83 154	2920 145 1980 2110 3865 4170 <b>E LIFT)</b> 2970 1165 860 2360 2110 3915	na 58 102 114 1106" (269 129 129 129 129 166 166 166 189 1166	11 2 2 2 2 2 2 2 2 2 2 3 2 3 2 1 6 3 2 7 5 8 9 1 6 3 2 7 5 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	na 475 595 9900 ternal cle 63 3 55 141 58 46 93 95 178	na 60 106 118 earance tr  3 1 1 2 4 4 3580 1470 1165 2360 2415 4525	33 33 aailer. 2000 445 980 265 145 445 153 64 52 81 101 190	na 1525 2695 3000 3885 1625 1320 2055 2570 4830	139 5.8 95 176 188 165 70 58 87 107	na 74 134 146 146 146 146 146 147 147 1470 1470 1470 1470 1470 1470 1	35 12 19 24 44 47 175 76 64 93 113 212	na 11880 33405 33710 330 45 880 44 19 16 23 28 53	
16 17 Any (10 10 13 16 17 10 13 16 17	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)  collapsed Height  Max. Height > 2° Tilt  Mast Collapsed Height  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed Height (36" LBR)  Free Lift Height (36" LBR)  Free Lift Height (48" LBR)  Max. Height > 2° Tilt  Mast Collapsed Height  Mast Collapsed Height  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (36" LBR)	in mm	na 54 94 100 out LBR TL (2-S1 105 40 28 57 77 142 154	Could hit Could	na 1375 2390 2695 the ceilli TH FRE 117 46 34 93 83 154	2920 145 1980 2110 3865 4170 <b>E LIFT)</b> 2970 1165 860 2360 2110 3915 4220	na 58 102 114 1106" (269 129 129 129 129 166 166 166 189 1166	11 2 2 2 2 2 2 2 2 2 2 3 2 3 2 1 6 3 2 7 5 8 9 1 6 3 2 7 5 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	na 475 595 9900 ternal cle 63 3 55 141 58 46 93 95 178	na 60 106 118 earance tr  3 1 1 2 4 4 3580 1470 1165 2360 2415 4525	33 33 aailer. 2000 445 980 265 145 445 153 64 52 81 101 190	na 1525 2695 3000 3885 1625 1320 2055 2570 4830	138 5.8 95 176 188 165 58 87 107 202 214	na 74 134 146 146 146 146 146 147 147 1470 1470 1470 1470 1470 1470 1	35 12 19 24 44 47 175 76 64 93 113 212	na 11880 33405 33710 330 45 880 115 775 880 444 199 166 233 288 53	
16 17 Any (10 10 13 16 17 10 13 16 17	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)  collapsed Height  Max. Height > 2° Tilt  Mast Collapsed Height  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed Height (48" LBR)  collapsed Height (48" LBR)  free Lift Height (48" LBR)  Max. Height > 2° Tilt  Mast Collapsed Height  Mast Collapsed Height  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)	in mm	na 54 94 100 out LBR TL (2-S1 105 40 28 57 77 142 154	3 could hit coul	na 1375 2390 2695 the ceilli TH FRE 117 46 34 93 83 154 166	2920 145 1980 2110 3865 4170 E LIFT) 2970 1165 860 2360 2110 3915 4220	na 58 102 114 1106" (268 114) (268 1106" (268 1106" (268 1106" (268 114) (268 1106" (268 1106" (268 1106" (268 1106" (268 1106" (268 1106" (268 1106" (268 1106" (268 1106" (268 1106" (268 1106" (268 1106" (268 1106" (268 1106" (268 1106" (268 1106" (268 1106" (	11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	na 475 595 900 ternal cle 63 3 55 141 58 46 93 95 178 190 5050	na 60 106 118 earance tr  3 1 1 2 4 4 3580 1470 1165 2360 2415 4525 4830	33 33 aailer. 2000 445 9800 2665 1445 4445 153 64 52 81 101 190 202	na 1525 2695 3000 3885 1625 1320 2055 2570 4830 5135	138 5.8 95 176 188 165 58 87 107 202 214	na 74 134 146 146 146 146 146 146 146 146 146 14	35 12 19 24 44 47 175 76 64 93 113 212 224	na 11880 33405 33710 330 45 880 115 775 880 444 19 23 28 53 56	
16 17 Any (10 10 13 16 17 10 13 16 17	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed height   1524 mm)  collapsed Height  Max. Height > 2° Tilt  Mast Collapsed Height  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed Height (48" LBR)  collapsed Height (48" LBR)  max. Height > 2° Tilt  Max. Height > 2° Tilt  Max. Height > 2° Tilt  Max. Height > 100 Max. Height   150 Max. Height   1	in mm	na 544 944 1000 out LBR TL (2-S1 105 40 28 57 77 142 154 TT (3-S1 171 46	3 could hit 1 7AGE) 1115 55.8 78 83 152 164 TAGE WIT 2665 1015 710 1445 1960 3610 3915	na 1375 2390 2695 the ceilii TH FRE 117 46 34 93 83 154 166	2920 145 1980 2110 3865 4170 E LIFT) 2970 1165 860 2360 2110 3915 4220	na 58 102 114 1106" (269 114 1106" (269 114 1106" (269 114 114 114 114 114 114 114 114 114 11	11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	na 475 595 900 ternal cle 63 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	na 60 106 118 earance tr  3 1 1 2 4 4 3580 1470 1165 2360 2415 4525 4830	33 34 38 38 38 38 39 30 445 980 265 145 445 445 445 445 445 445 445 445 44	na 1525 2695 3000 3885 1625 1320 2055 2570 4830 5135	139 5.8 95 176 188 165 70 58 87 107 202 214	na 74 134 146 146 146 146 146 146 146 146 146 14	35 12 19 24 44 47 175 76 64 93 113 212 224 241 76	na 11880 33405 33710 330 45 880 115 75 880 44 19 53 56 612 193	
16 17 Any (10 10 13 16 17 10 13 16 17 10	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed height   1524 mm)  collapsed Height  Max. Height > 2° Tilt  Mast Collapsed Height  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed Height (48" LBR)  max. Height > 2° Tilt  Max. Height > 2° Tilt  Max. Height   16" LBR)  Free Lift Height (48" LBR)  Max. Height > 2° Tilt  Mast Collapsed Height  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  Most Extended Ht. (48" LBR)  Most Extended Ht. (48" LBR)  collapsed Height (48" LBR)  collapsed Height (48" LBR)  collapsed Height (48" LBR)	in mm	na 544 944 1000 out LBR TL (2-S1 105 40 28 57 77 142 154 TT (3-S1 171 46 34	Good hit could h	na 1375 2390 2695 the ceilii 117 46 34 93 83 154 166	2920 145 1980 2110 3865 4170 E LIFT) 2970 1165 860 2360 2110 3915 4220	na 58 102 114 1106" (269 114 1106" (269 114 1106" (269 114 114 114 114 114 114 114 114 114 11	11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	na 475 595 900 ternal cle 6 3 3 5 141 58 46 93 95 178 190 5050 1470 1165	na 60 106 118 earance tr  3 1 1 2 4 4 3580 1470 1165 2360 2415 4525 4830  214 64 52	3 3 3 ailer.  2000 445 980 265 1445 4445   153 64 52 81 101 190 202   5435 1625 1320	na 1525 2695 3000  3885 1625 1320 2055 2570 4830 5135	139 5.8 95 176 188 165 70 58 87 107 202 214	na 74 134 146 146 146 146 146 146 146 146 146 14	35 12 19 24 44 47 175 76 64 93 113 212 224 241 76 64	na 11880 33405 33710 330 45 880 115 775 880 444 199 166 53 56 612 199 166	
16 17 Any (10 10 13 16 17 10 13 16 17 10 11 10	Max. Height > 2° Tilt  Mast Collapsed Height*  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed height > 60" (1524 mm)  collapsed height   1524 mm)  collapsed Height  Max. Height > 2° Tilt  Mast Collapsed Height  Mast Extended Ht. (36" LBR)  Mast Extended Ht. (48" LBR)  collapsed Height (48" LBR)  collapsed Height (48" LBR)  max. Height > 2° Tilt  Mast Collapsed Height  Max Height > 10 Tilt  mast Extended Ht. (36" LBR)  Max. Height > 10 Tilt  mast Extended Ht. (48" LBR)  collapsed Height  mast Extended Ht. (48" LBR)  mast Extended Ht. (48" LBR)  collapsed Height (48" LBR)  max. Height > 2° Tilt	in mm	na 544 944 100 out LBR TL (2-S1 105 40 28 57 77 142 154 TT (3-S1 171 46 34 91	3 could hit 15 5.8 78 83 152 164 TAGE WIT 2665 1015 710 1445 1960 3610 3915 TAGE) 4340 1165 860 2310	na 1375 2390 2695 the ceilii 117 46 34 93 83 154 166	2920 145 1980 2110 3865 4170 E LIFT) 2970 1165 860 2360 2110 3915 4220	na 58 102 114 1106" (269 114 1106" (269 114 1106" (269 114 114 114 114 114 114 114 114 114 11	11 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	na 475 595 900 ternal cle 6 3 3 5 141 58 46 93 95 178 190 1470 1165 2310	33 1 1 1 2 4 4 4 4 4 5 2 4 4 8 3 0 4 8 7 6 4 6 4 5 2 8 7	2000 445 9880 2665 1445 4445 153 64 52 81 101 190 202 5435 1625 1320 2205	na 1525 2695 3000  3885 1625 1320 2055 2570 4830 5135	139 5.8 95 176 188 165 70 58 87 107 202 214	na 74 134 146 146 146 146 146 146 146 146 146 14	35 14 19 24 44 47 175 76 64 93 113 212 224 241 76 64 99	na 11880 33405 33710 330 45 880 115 775 880 444 199 166 233 566 612 193 162 25	
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# C-5 Series Cushion

#### **Technical Information**

#### **Standard Features**

- Crown industrial 2.4L LPG engine compliant to current EPA standards
- 2. High visibility orange seat belt
- 3. Industrial dual core radiator
- Crown's Access 1 2 3<sup>™</sup>
   Comprehensive Control
   System
- 5. Intrinsic Stability System™
  - Greater mass and low center of gravity
  - Tilt interlock
  - Tilt speed control
  - Stalled engine braking and steering
  - Hill hold
- 6. Top speed limiter
- 7. Fold down LP bottle bracket
- 8. Operator compartment design features
  - Low cowl for fork and floor visibility
  - Wide placed overhead guard uprights reduce visual interference
  - Isomounted overhead guard reduces vibration
  - Crown FlexSeat<sup>TM</sup> with hip restraint and anti-cinch seat belt (fabric or vinyl)
  - 330 mm steering wheel
  - Infinitely adjustable steering wheel column
  - Nylon covered control handles with tactile feedback
  - Natural position for forward/reverse selector
  - Rubber floor mat/rubber covered pedals
- 9. Operator entry/exit
  - Extra wide step
  - Huge entry/exit window
  - Overhead guard upright for easy hand hold
  - · Contoured seat deck
  - Compact tilt steering wheel and column
  - Large uncluttered floorboard
- 10. 30" or 36" (760 or 915 mm) load backrest depending on capacity
- 11. 42" (1065 mm) forks
- 12. 38" (965 mm) wide fork carriage with upper thrust rollers
- 13. High visibility mast with in-line hose routing
- 14. Hour meter/event memory
- 15. No tool lift out floor boards
- 16. Three spool valve

- O-ring face seal hydraulic fittings
- 18. Color-coded wiring
- 19. 12-volt alternator
- Drum brakes are standard on 4000 and 5000 lb capacities; (1815 and 2270 kg)
   Power brakes are standard on 6000 and 6500 lb capacities (2720 and 2950 kg)
- 21. Isomounted heavy duty steer axle with grease zerks
- 22. Single element air cleaner
- 23. Severe duty battery
- 24. Low LP fuel level indicator
- 25. Filter air restriction indicator
- 26. Tow pin
- 27. Horn
- 28. Radiator grill

#### **Optional Equipment**

- 1. Seatbelt interlock with orange seat belt
- 2. On-Demand Cooling™
- 3. Crown Power Brake (4000 and 5000 lb capacity) (1815 and 2270 kg)
- 4. TL Truckers mast (2-stage)
- 5. TL mast (2-stage)
- 6. TF mast (2-stage mast with free lift)
- 7. TT mast (3-stage)
- 8. Quad mast (4-stage)
- 9. Polished and full taper forks (36", 39", 40", 43.31", 45", 48", 54", 60" and 72") (915, 990, 1015, 1100, 1145, 1220, 1370, 1525 and 1830 mm)
- 10. Quick disconnect hydraulic connections
- 11. Attachment pressure regulator and gauge
- 12. Tilt option
- 13. Load backrest heights (30, 36, 42, 44, 48 and 60") (760, 915, 1065, 1120, 1220 and 1525 mm)
- Accessory hydraulics and attachments
- 15. Corrosion resistant chain
- 16. Lower thrust rollers
- 17. Work lights (Halogen or LED)
- 18. Strobe light (Halogen or LED)
- 19. Back-up and brake lights
- 20. Smart travel alarm (Reverse)
- 21. Keyless on/off switch
- 22. Fixed LP bottle bracket
- 23. Wide drive tyre track width
- 24. Non-marking, smooth or lug rubber tyres
- 25. Suspension seat (fabric or vinyl)

- 26. Grammer MSG 65 suspension seat (fabric or vinyl)
- 27. Grammer MSG 75 air ride suspension seat (fabric or vinyl)
- 28. Work Assist™ Accessories
  - Pad clip and hook
  - Accessory clamp
  - · Terminal mounting
  - Fire extinguisher
  - Operator fanMirrors
  - Cup holder
  - Shrink wrap holder
  - Storage net or pocket behind seat
  - Storage bin
  - Pencil holder
- 29. Two pedal control with combination inching/brake
- 30. Three pedal control with separate inching/brake
- 31. Radiator screen
- 32. Air intake pre-cleaner
- 33. Belly pan
- 34. Engine block heater
- 35. Positive/Negative accessory cable
- 36. 254 mm Steering wheel with spinning knob
- 37. 330 mm Steering wheel with spinning knob
- 38. Turn signals
- 39. InfoLink™ Ready
- 40. Rear post handle with horn button
- 41. Counterweight grill
- 42. Mirrors (plastic or glass)
- 43. LPS, NFPA505 rating
- 44. Crown D4 Armrest

### Drivability

The C-5 Series benefits from design and engineering excellence. Numerous features improve operator comfort and productivity.

First, a wide entry step greets the operator and leads to the V-contoured engine cover that allows the operator to easily glide into the truck's seat. The curved posts of the overhead guard open up the entry/exit window and provide a comfortable grip location for a variety of operator heights. Further facilitating entry/exit is a spring-loaded, tilt steering column that easily moves up and away. The spacious floor

board is uncluttered and includes a webbed floor mat that insulates the operator from vibration and heat. Additional operator comfort is achieved through reduced inching and brake pedal efforts along with a lower pedal height off the floor.

Crown's Intrinsic Stability System achieves improved operator confidence through a proactive approach to safety and stability. Integrated into the truck's components and control system, Crown's Intrinsic Stability System includes the following features:

- Greater mass and low center of gravity
- Tilt interlock
- Tilt speed control
- Stalled engine braking and steering
- Hill hold

Improved visibility can reduce product and pallet damage. The C-5 features excellent visibility everywhere you look: a low cowl for fork and carriage visibility, a high visibility mast, a compact steering column, a sculpted floorboard design, an overhead guard top plate and bar configuration and a low LP bottle height.

The control handles are crafted into the compartment and designed to provide tactile feedback for easy selection. Actuation forces are minimal and responsive. The parking brake with tone alert enhances operator entry/exit and naturally encourages its use. A large convex horn button is housed in the center of the steering wheel. Isolation systems for the engine and the operator cell virtually eliminate all vibrations to the operator. Hot air is directed away from the operator by a large counterweight opening with a wedge deflector.

### **Technical Information**

#### **Powertrain**

Derived from a diesel engine, the C-5 Series features an Industrial in-line 4 cylinder 2.4L emissions compliant LPG engine. This heavy duty industrial engine includes a heat resistant cast iron block and head. The 8 quart (7.6 liters) oil capacity and standard engine oil cooler offer additional cooling for improved thermal capacity and extended component life. A geardriven valve train and auxiliary pump eliminates belt or chain adjustments. Operator comfort is further increased through internal balancing of the engine.

The Carraro TA135 single speed power shift transmission offers an optimized gear construction for low noise and vibrations and increased efficiency. The robust design of the Carraro transmission includes forged gears and drive shaft, ductile iron axle, differential support housings and high temperature seals and o-rings, all contributing to increased life and durability.

There are two performance modes available, Economy and Productivity. In addition, top speeds can be limited to meet application requirements. These performance modes can be set via password through the Access 1 2 3 display module.

The C-5 transmission offers three key features: Hill Hold, Trans Hold and Inversion control. Hill Hold will prevent roll back of the truck on a ramp. Hill Hold activates when the truck senses truck movement in the opposite direction of the travel direction that is selected by the operator. The Trans Hold feature will hold the truck from moving until the operator depresses the accelerator. With Trans Hold off, the truck begins to move when the operator selects travel direction and releases his foot from the brake.

Inversion Control is a feature that helps extend transmission and tyre life by not allowing high speed direction changes. All of these features are adjustable and can be turned on and off through the Access 1 2 3 display.

#### Cooling

A standard industrial dual core radiator offers separate cooling for the engine and transmission and is isolated from the truck, separating it from impact and improving radiator life. The industrial dual core radiator feature offers large spacing between cooling fins for reduced clogging. Air flow is maximised by a ten-blade fan that increases radiator performance and efficiency. The full fan shroud surrounds the radiator core surface. Its two-piece design aids in serviceability and is sealed to prevent air flow from bypassing the radiator core. Air flow is further maximised by the custom venturi shroud design that directs air over the entyre surface of the radiator.

Crown's optional On-Demand Cooling System delivers precise cooling and radiator clearing for economical savings and uptime in harsh environment applications. Precise cooling is achieved through an independent radiator fan that automatically adjusts its speed to manage engine and transmission temperatures. The independent fan also allows for optimal radiator clearing by reversing its direction at engine start.

#### **Crown Power Brake**

The Crown Power Brake is a unique hydraulic powered, full circle brake with few parts and larger friction areas that contribute to longer brake life. This design reduces operator pedal effort, improves brake responsiveness and features direct and easy access to the friction pad, which reduces downtime for brake maintenance. The parking brake is an integral part of the service brake and is activated by a one-touch push button located on the cowl to the right of the steer wheel column. A tone alert reminder is

#### **Hydraulics**

**Cushion** 

**C-5 Series** 

The C-5 Series' premium hydraulic function control valve provides a precise metering of lift, tilt and accessory functions, without sacrificing operator comfort. The hollow steel tube lever design with tactile controls improves productivity and comfort.

Crown's lift/tilt interlock system provides extended forward tilt at low fork heights and reduced forward tilt at elevated heights for improved truck stability. The interlock system also inhibits accidental hydraulic functions when the operator is out of the seat. The tilt compensator maintains proper tilt speed control under all load conditions.

The modular design of the control valves allows for easy addition of accessory functions. Maximum lowering speed is limited by a pressure compensating flow control valve and velocity fuses. Integrated hydraulic cylinder cushions soften mast staging. All lift cylinder rams are plated and when the forks are lowered, retract into the hydraulic oil for additional corrosion protection.

The steel oil reservoir is integral to the frame, aiding in the dissipation of hydraulic oil heat. This clean, leak-free design includes a suction strainer with separate, easily accessible fill port and dipstick with a dual filtered breather. Hydraulic oil is returned through an environmentally friendly cartridge filter, which is easily serviced.

A 2-stage filtration system on the breather/dipstick offers superior protection from contamination to the hydraulic oil and from oil misting, which could create a dirty residue on the inside of the engine compartment.

The steering and power brake systems are also hydraulic powered, assisting in the reduction of operator fatigue and improved productivity.

#### Crown Manufactured Mast Assembly

The heavy-duty mast of the C-5 Series is engineered to provide smooth, reliable operation without compromising strength or quality. The large, rugged mast trunnions are mounted on the drive axle. Securing the mast are extra heavy tilt cylinders with self-aligning bushings. Crown's high visibility mast features a nested-rail design with lift cylinders positioned behind the rails. In-line hose routing also reduces visual interference. Large hydraulic hose pulleys and hose placement are engineered to reduce hose wear and increase hose life. Large lift chains are used for long reliable service life. Class II and III fork carriages are available. Masts are available in TL, TF, TT, and Quad.

#### Steering

A fully hydrostatic steering system with equal area and double-acting cylinder provides an equally responsive steering rate both ways (4.8 turns lock to lock). The rugged axle frame, forged spindle and connecting links eliminate the need for adjustment. A two-piece spindle and kingpin with tapered roller bearings improves life and serviceability. Spherical bearings with straight pins in the connecting links eliminate any play in the linkage. All bearing locations are sealed to exclude contaminants and are equipped with lubrication fittings for ease of service. The steer axle articulates in a rubber isolation bushing to improve truck handling and ride.

# C-5 Series Cushion

#### **Electrical System**

The C-5 Series comes with a standard severe duty battery that provides 510 cold cranking amps.

Exclusive on-board information and diagnostics system includes fully integrated Access 1 2 3 Comprehensive Control System with CAN Bus communication. Features include:

- Engine diagnostics
- Truck level diagnostics
- Component analyzer
- Password protection
- Speed control features
- Performance modes
- Operator PIN codes

Crown display is fully integrated giving the operator and service technician real time information and messaging for event codes, fuel level, truck hours or real time speed. The alpha-numeric display serves as the communication nerve center with the following indicator lights:

- Alternator/Battery
- Malfunction
- Seat belt
- Park brake status
- Low oil pressure
- High transmission temperature
- Engine coolant temperature
- Multi-stage fuel level lights

All wire harnesses are wrapped with corrugated sleeving and are fully sealed with ultrasonically welded connections for improved reliability and durability. All electrical connectors are sealed to IP67.

### **Warning Device Options**

Audible or Visual Alerts

Safety considerations and dangers associated with audible travel alarms and lights include:

- Multiple alarms and/or lights can cause confusion.
- Workers ignore the alarms and/or lights after day-in and day-out exposure.
- Operator may transfer the responsibility for "looking out" to the pedestrians.
- Annoys operators and pedestrians.

#### **Other Options Available**

Contact factory for additional options.

Dimensions and performance data given may vary due to manufacturing tolerances.
Performance is based on an average size vehicle and is affected by weight, condition of vehicle, how it is equipped and the conditions of the operating area.
Products and specifications are subject to change without notice.



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Because Crown is continually improving its products, specifications are subject to change without notice.

Notice: Not all products and product features are available in all countries in which this literature is published.

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