



# Tilt-Rotators

TRS10, TRS14, TRS18, TRS23

## Technical Specifications

Not all attachments available in all regions. Consult your Cat® dealer for specific configurations available in your region.

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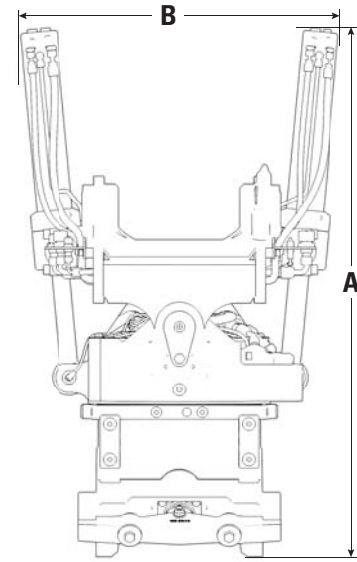
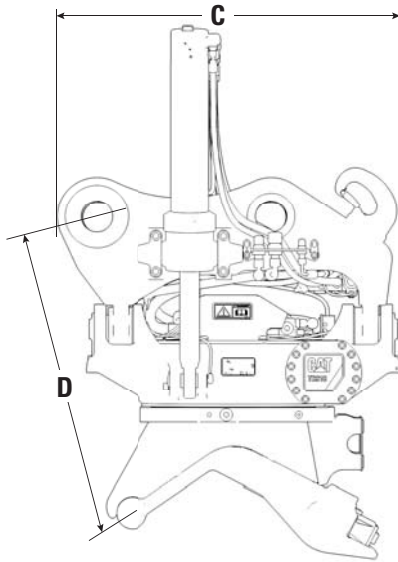
# Tilt-rotators Technical Specifications

## Specifications

Model	Part Number	Top Interface	Bottom Interface	Machine Class, Minimum		Machine Class, Maximum		Weight		Maximum Standard Bucket Capacity		Maximum Bucket Width	
				t	lb	t	lb	kg	lb	m <sup>3</sup>	yd <sup>3</sup>	mm	in
TRS10	516-6765	S60	S60	10	22,046	16	35,274	425	936.92	0.80	1.05	1600	63
	516-6766	Pin-on	S60	10	22,046	16	35,274	470	1036.12	0.80	1.05	1600	63
	516-6767	Pin-on	CW20	10	22,046	16	35,274	567	1249.96	0.80	1.05	1600	63
	516-6768	Pin-on	CW20 S	10	22,046	16	35,274	578	1274.21	0.80	1.05	1600	63
	544-1342	Pin-on	CW20	10	22,046	16	35,274	545	1201.46	0.80	1.05	1600	63
	555-1563	Pin-on	S60	10	22,046	16	35,274	448	987.62	0.80	1.05	1600	63
	555-1564	Pin-on	CW20 S	10	22,046	16	35,274	556	1225.71	0.80	1.05	1600	63
	567-0389	CW20 S	CW20 S	10	22,046	16	35,274	566	1247.76	0.80	1.05	1600	63
TRS14	516-6769	S60	S60	14	30,864	19	41,887	540	1190.44	1.00	1.31	1700	68
	516-6772	Pin-on	S60	14	30,864	19	41,887	575	1267.60	1.00	1.31	1700	68
	516-6776	Pin-on	CW30	14	30,864	19	41,887	722	1591.66	1.00	1.31	1700	68
	516-6778	Pin-on	CW30 S	14	30,864	19	41,887	676	1490.26	1.00	1.31	1700	68
	555-1567	Pin-on	S60	14	30,864	19	41,887	575	1267.60	1.00	1.31	1700	68
	555-1569	Pin-on	CW30	14	30,864	19	41,887	722	1591.66	1.00	1.31	1700	68
	555-1571	Pin-on	CW30 S	14	30,864	19	41,887	676	1490.26	1.00	1.31	1700	68
	567-0390	CW30	CW30	14	30,864	19	41,887	736	1622.53	1.00	1.31	1700	68
567-0391	CW30 S	CW30 S	14	30,864	19	41,887	669	1474.82	1.00	1.31	1700	68	
TRS18	516-6779	S70	S70	18	39,683	24	52,910	666	1468.21	1.10	1.44	1800	71
	516-6780	Pin-on	S70	18	39,683	24	52,910	682	1503.48	1.10	1.44	1800	71
	516-6781	Pin-on	CW30	18	39,683	24	52,910	761	1677.64	1.10	1.44	1800	71
	516-6782	Pin-on	CW30 S	18	39,683	24	52,910	715	1576.23	1.10	1.44	1800	71
	567-0392	CW30	CW30	18	39,683	24	52,910	748	1648.98	1.10	1.44	1800	71
	567-0393	CW30 S	CW30 S	18	39,683	24	52,910	681	1501.28	1.10	1.44	1800	71
TRS23	558-8925	S70	S70	23	50,706	30	66,138	800	1763.62	1.60	2.09	2000	79
	558-8926	S80	S80	23	50,706	30	66,138	937	2065.64	1.60	2.09	2000	79
	567-6083	CW40	CW40	23	50,706	30	66,138	879	1937.77	1.60	2.09	2000	79
	567-6084	CW45 S	CW45 S	23	50,706	30	66,138	992	2186.88	1.60	2.09	2000	79
	567-6085	Pin-on	S70	23	50,706	30	66,138	862	1900.30	1.60	2.09	2000	79
	567-6086	Pin-on	S80	23	50,706	30	66,138	945	2083.27	1.60	2.09	2000	79
	567-6087	Pin-on	CW40	23	50,706	30	66,138	934	2059.02	1.60	2.09	2000	79
	567-6088	Pin-on	CW45 S	23	50,706	30	66,138	1028	2266.25	1.60	2.09	2000	79

# Tilt-rotators Technical Specifications

## Dimensions



Model	Part Number	Top Interface	Bottom Interface	(A) Total Height		(B) Total Width		(C) Total Length		(D) Building Height	
				mm	in	mm	in	mm	in	mm	in
TRS10	516-6765	S60	S60	1045	41.14	725	28.54	705	27.76	505	19.88
	516-6766	Pin-on	S60	1030	40.55	895	35.24	805	31.69	540	21.26
	516-6767	Pin-on	CW20	1160	45.67	895	35.24	805	31.69	675	26.57
	516-6768	Pin-on	CW20 S	1210	47.64	895	35.24	805	31.69	725	28.54
	544-1342	Pin-on	CW20	1180	46.46	690	27.17	795	31.30	665	26.18
	555-1563	Pin-on	S60	1050	41.34	690	27.17	790	31.10	530	20.87
	555-1564	Pin-on	CW20 S	1230	48.43	690	27.17	795	31.30	715	28.15
	567-0389	CW20 S	CW20 S	1209	47.60	892	35.12	801	31.54	695	27.36
TRS14	516-6769	S60	S60	1160	45.67	810	31.89	800	31.50	535	21.06
	516-6772	Pin-on	S60	1160	45.67	810	31.89	850	33.46	570	22.44
	516-6776	Pin-on	CW30	1345	52.95	810	31.89	850	33.46	755	29.72
	516-6778	Pin-on	CW30 S	1345	52.95	810	31.89	850	33.46	755	29.72
	555-1567	Pin-on	S60	1160	45.67	810	31.89	850	33.46	570	22.44
	555-1569	Pin-on	CW30	1345	52.95	810	31.89	850	33.46	755	29.72
	555-1571	Pin-on	CW30 S	1345	52.95	810	31.89	850	33.46	755	29.72
		567-0390	CW30	CW30	1322	52.05	1017	40.04	834	32.83	735
	567-0391	CW30 S	CW30 S	1335	52.56	898	35.35	834	32.83	735	28.94
TRS18	516-6779	S70	S70	1190	46.85	960	37.80	800	31.50	575	22.64
	516-6780	Pin-on	S70	1200	47.24	870	34.25	875	34.45	570	22.44
	516-6781	Pin-on	CW30	1350	53.15	870	34.25	875	34.45	755	29.72
	516-6782	Pin-on	CW30 S	1350	53.15	870	34.25	875	34.45	755	29.72
	567-0392	CW30	CW30	1327	52.24	1028	40.47	834	32.83	735	28.94
	567-0393	CW30 S	CW30 S	1339	52.72	903	35.55	834	32.83	735	28.94
TRS23	558-8925	S70	S70	1290	50.79	948	37.32	920	36.22	625	24.61
	558-8926	S80	S80	1310	51.57	1223	48.15	920	36.22	665	26.18
	567-6083	CW40	CW40	1427	56.18	1110	43.70	947	37.28	835	32.87
	567-6084	CW45 S	CW45 S	1500	59.06	1110	43.70	993	39.09	870	34.25
	567-6085	Pin-on	S70	1288	50.71	970	38.19	989	38.94	670	26.38
	567-6086	Pin-on	S80	1335	52.56	970	38.19	989	38.94	680	26.77
	567-6087	Pin-on	CW40	1439	56.65	970	38.19	989	38.94	855	33.66
	567-6088	Pin-on	CW45 S	1512	59.53	970	38.19	989	38.94	885	34.84

# Tilt-rotators Technical Specifications

## Hydraulic Specifications

Model	Part Number	Top Interface	Bottom Interface	Tilt Angle, Left and Right	Rotation Speed, 1 Full Rotation	Flow for Rotation Speed	Working Pressure		Recommended Maximum Oil Flow	
				degrees	seconds	L/min	Mpa	psi	L/min	gpm
TRS10	516-6765	S60	S60	40	7	60	25	3626	95	25.10
	516-6766	Pin-on	S60	40	7	60	25	3626	95	25.10
	516-6767	Pin-on	CW20	40	7	60	25	3626	95	25.10
	516-6768	Pin-on	CW20 S	40	7	60	25	3626	95	25.10
	544-1342	Pin-on	CW20	40	7	60	25	3626	95	25.10
	555-1563	Pin-on	S60	40	7	60	25	3626	95	25.10
	555-1564	Pin-on	CW20 S	40	7	60	25	3626	95	25.10
	567-0389	CW20 S	CW20 S	40	7	60	25	3626	95	25.10
TRS14	516-6769	S60	S60	40	7	65	25	3626	104	27.50
	516-6772	Pin-on	S60	40	7	65	25	3626	104	27.50
	516-6776	Pin-on	CW30	40	7	65	25	3626	104	27.50
	516-6778	Pin-on	CW30 S	40	7	65	25	3626	104	27.50
	555-1567	Pin-on	S60	40	7	65	25	3626	104	27.50
	555-1569	Pin-on	CW30	40	7	65	25	3626	104	27.50
	555-1571	Pin-on	CW30 S	40	7	65	25	3626	104	27.50
	567-0390	CW30	CW30	40	7	65	25	3626	104	27.50
TRS18	567-0391	CW30 S	CW30 S	40	7	65	25	3626	104	27.50
	516-6779	S70	S70	40	7	65	25	3626	114	30.12
	516-6780	Pin-on	S70	40	7	65	25	3626	114	30.12
	516-6781	Pin-on	CW30	40	7	65	25	3626	114	30.12
	516-6782	Pin-on	CW30 S	40	7	65	25	3626	114	30.12
TRS23	567-0392	CW30	CW30	40	7	65	25	3626	114	30.12
	567-0393	CW30 S	CW30 S	40	7	65	25	3626	114	30.12
	558-8925	S70	S70	40	7	70	25	3626	125	33.02
	558-8926	S80	S80	40	7	70	25	3626	125	33.02
	567-6083	CW40	CW40	40	7	70	25	3626	125	33.02
	567-6084	CW45 S	CW45 S	40	7	70	25	3626	125	33.02
	567-6085	Pin-on	S70	40	7	70	25	3626	125	33.02
	567-6086	Pin-on	S80	40	7	70	25	3626	125	33.02
567-6087	Pin-on	CW40	40	7	70	25	3626	125	33.02	
567-6088	Pin-on	CW45 S	40	7	70	25	3626	125	33.02	

# Tilt-rotators Technical Specifications

## Matching



Match



No Match

	TRS10	TRS14	TRS18	TRS23
<b>Tracked Excavators</b>				
313F	✓			
316F		✓		
318F		✓		
320F			✓	
320 GC			✓	
320			✓	
323F			✓	
323			✓	
325F			✓	
326F				✓
330F				✓
330 GC				✓
330				✓
335F				✓
<b>Wheeled Excavators</b>				
M314F	✓			
M315F	✓			
M316F		✓		
M317F		✓		
M318F		✓		
M320F			✓	
M322F			✓	

# Tilt-rotators Technical Specifications

## Bucket Matching and Specifications

Buckets listed below are designed primarily for use with the Tilt-rotator.  
Standard CW buckets can also be utilized with the Tilt-rotator.

### TRS10

Maximum bucket width: 1,600 mm (63 in)

Part Number	Bucket Interface	Width		Capacity		Weight	
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb
<b>Grading</b>							
512-8396	CW20 S	1,500	60	0.65	0.79	512	1128.96
512-8410	CW20	1,600	63	0.75	0.98	550	1212.75
512-8393	S60	1,500	60	0.50	0.65	494	1089.27
512-8394	S60	1,500	60	0.65	0.79	517	1139.99
512-8395	S60	1,600	63	0.75	0.98	556	1225.98
<b>Trenching</b>							
512-8411	CW20 S	540	21	0.35	0.46	327	721.04
512-8399	CW20	660	26	0.42	0.55	380	837.90
512-8397	S60	540	21	0.35	0.46	309	681.35

### TRS14

Recommended maximum bucket width: 1,700 mm (68 in)

Part Number	Bucket Interface	Width		Capacity		Weight	
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb
<b>Grading</b>							
512-8401	CW30 S	1,600	63	0.75	0.98	574	1265.67
512-8414	CW30	1,700	68	0.80	1.05	612	1349.46
512-8395	S60	1,600	63	0.75	0.98	560	1234.80
<b>Trenching</b>							
512-8411	CW30 S	540	21	0.35	0.46	327	721.04
512-8399	CW30	660	26	0.42	0.55	380	837.90
512-8397	S60	540	21	0.35	0.46	298	657.09

### TRS18

Maximum bucket width: 1,800 mm (71 in)

Part Number	Bucket Interface	Width		Capacity		Weight	
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb
<b>Grading</b>							
514-7843	CW30	1,800	71	1.10	1.44	785	1730.93
514-7844	CW30 S	1,800	71	1.10	1.44	774	1706.67
512-8404	S70	1,800	71	1.10	1.44	798	1759.59
<b>Trenching</b>							
514-7845	CW30	660	26	0.55	0.72	506	1115.73
514-7846	CW30 S	600	24	0.55	0.72	494	1089.27
512-8406	S70	600	24	0.55	0.72	516	1137.78

# Tilt-rotators Technical Specifications

## Grapple Modules

Grapple modules are optional and do not impact the Tilt-rotator's machine matches.

Model	Part Number	Top Interface	Bottom Interface	Optional Grapple Module
TRS10	516-6765	S60	S60	512-3108
	516-6766	Pin-on	S60	512-3108
	516-6767	Pin-on	CW20	
	516-6768	Pin-on	CW20 S	518-1507
	544-1342	Pin-on	CW20	
	555-1563	Pin-on	S60	512-3108
	555-1564	Pin-on	CW20 S	518-1507
	567-0389	CW20 S	CW20 S	518-1507
TRS14	516-6769	S60	S60	512-3108
	516-6772	Pin-on	S60	512-3108
	516-6776	Pin-on	CW30	
	516-6778	Pin-on	CW30 S	518-1507
	555-1567	Pin-on	S60	512-3108
	555-1569	Pin-on	CW30	
	555-1571	Pin-on	CW30 S	518-1507
	567-0390	CW30	CW30	
TRS18	516-6779	S70	S70	512-3107
	516-6780	Pin-on	S70	512-3107
	516-6781	Pin-on	CW30	573-5333
	516-6782	Pin-on	CW30 S	518-1507
	567-0392	CW30	CW30	573-5333
	567-0393	CW30 S	CW30 S	518-1507
TRS23	558-8925	S70	S70	567-7343
	558-8926	S80	S80	567-7344
	567-6083	CW40	CW40	573-5333
	567-6084	CW45 S	CW45 S	567-7245
	567-6085	Pin-on	S70	567-7343
	567-6086	Pin-on	S80	567-7344
	567-6087	Pin-on	CW40	573-5333
567-6088	Pin-on	CW45 S	567-7245	

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