



# Cat<sup>®</sup> Tiltrotators

TRS10, TRS14, TRS18, TRS23

## Technical Specifications

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

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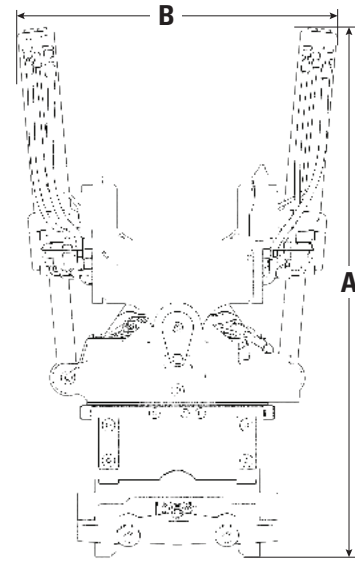
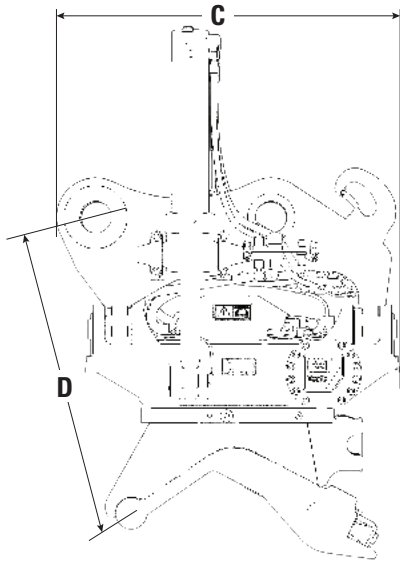
# Tiltrotators Technical Specifications

## 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	11	24,250	16	35,274	425	937	0.80	1.05	1600	63
	516-6766	Pin-on	S60	11	24,250	16	35,274	470	1,036	0.80	1.05	1600	63
	555-1563	Pin-on	S60	11	24,250	16	35,274	448	988	0.80	1.05	1600	63
TRS14	516-6769	S60	S60	14	30,864	19	41,887	540	1,190	1.00	1.31	1700	68
	516-6772	Pin-on	S60	14	30,864	19	41,887	575	1,268	1.00	1.31	1700	68
	555-1567	Pin-on	S60	14	30,864	19	41,887	575	1,268	1.00	1.31	1700	68
TRS18	516-6779	S70	S70	18	39,683	24	52,910	666	1,468	1.10	1.44	1800	71
	516-6780	Pin-on	S70	18	39,683	24	52,910	682	1,503	1.10	1.44	1800	71
TRS23	558-8925	S70	S70	23	50,706	30	66,138	800	1,764	1.60	2.09	2000	79
	558-8926	S80	S80	23	50,706	30	66,138	937	2,066	1.60	2.09	2000	79
	567-6085	Pin-on	S70	23	50,706	30	66,138	862	1,900	1.60	2.09	2000	79
	567-6086	Pin-on	S80	23	50,706	30	66,138	945	2,083	1.60	2.09	2000	79

# Tiltrotators 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
	555-1563	Pin-on	S60	1050	41.34	690	27.17	790	31.10	530	20.87
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
	555-1567	Pin-on	S60	1160	45.67	810	31.89	850	33.46	570	22.44
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
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
	567-6085	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

# Tiltrotators Technical Specifications

## Hydraulic Specifications

Model	Turning Torque at 25 Mpa	Turning Torque at 3626 psi	Tilt Torque at 25 Mpa	Tilting Torque at 3626 psi	Flow for Rotation Speed	
	N-m	ft-lb	N-m	ft-lb	L/min	gpm
TRS10	7640	5635	38,600	28,470	58	15.32
TRS14	9550	7044	45,100	33,264	72	19.02
TRS18	9550	7044	56,600	41,746	72	19.02
TRS23	11,940	8806	64,700	47,720	79	20.87

Model	Part Number	Top Interface	Bottom Interface	Tilt Angle, Left and Right	Rotation Speed, 1 Full Rotation	Flow for Rotation Speed	Working Pressure	
				degrees	seconds	L/min	Mpa	psi
TRS10	516-6765	S60	S60	40	7	60	25	3626
	516-6766	Pin-on	S60	40	7	60	25	3626
	555-1563	Pin-on	S60	40	7	60	25	3626
TRS14	516-6769	S60	S60	40	7	65	25	3626
	516-6772	Pin-on	S60	40	7	65	25	3626
	555-1567	Pin-on	S60	40	7	65	25	3626
TRS18	516-6779	S70	S70	40	7	65	25	3626
	516-6780	Pin-on	S70	40	7	65	25	3626
TRS23	558-8925	S70	S70	40	7	70	25	3626
	558-8926	S80	S80	40	7	70	25	3626
	567-6085	Pin-on	S70	40	7	70	25	3626
	567-6086	Pin-on	S80	40	7	70	25	3626

# Tiltrotators Technical Specifications

## Machine Matching

Configurations and features may vary by region. Please consult your Cat dealer for availability in your area.

Match

No Match

	TRS10	TRS14	TRS18	TRS23
<b>Tracked Excavators</b>				
313F	✓			
313	✓			
315F	✓			
315	✓			
316F		✓		
317		✓		
318F		✓		
320F			✓	
320			✓	
323F			✓	
323			✓	
325F			✓	
325			✓	
326F				✓
326				✓
330F				✓
330				✓
335F				✓
335				✓

# Tilt-rotators Technical Specifications

## Hydromechanical Matching

Check your machine's configuration to determine optimal Tiltrotators, coupler, and attachment combinations.

Match

No Match

Family	Model	TRS10	TRS14	TRS18	TRS23
Hydraulic Hammers	H110 GC S	✓	✓		
	H110 S	✓	✓		
	H115 GC S		✓	✓	
	H115 S		✓	✓	
	H120 GC S			✓	✓
	H120 S			✓	✓
	H130 GC S				✓
	H130 S				✓
Compactors (Vibratory Plate)	CVP75	✓	✓	✓	
	CVP110			✓	✓

**NOTE:** Hammer on tiltrotator usage less than 10% of working hours. Refer to your OMM for recommended hydraulic flow requirements.

# Tilt-rotators Technical Specifications

## Bucket Matching and Specifications

Buckets listed below are designed primarily for use with tiltrotators.

### 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>							
512-8393	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>							
512-8397	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>							
512-8395	S60	1,600	63	0.75	0.98	560	1234.80
<b>Trenching</b>							
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>							
512-8404	S70	1,800	71	1.10	1.44	798	1759.59
<b>Trenching</b>							
512-8406	S70	600	24	0.55	0.72	516	1137.78

# Tiltrotators Technical Specifications

## Grapple Modules

Grapple modules are optional and do not impact the Tiltrotator's machine matches.

Model	Part Number	Top Interface	Bottom Interface	Optional Grapple Module	Retrofit Positioning System Kit (RPS)
TRS10	516-6765	S60	S60	512-3108	540-2979
	516-6766	Pin-on	S60	512-3108	
	555-1563	Pin-on	S60	512-3108	
TRS14	516-6769	S60	S60	512-3108	540-2979
	516-6772	Pin-on	S60	512-3108	
	555-1567	Pin-on	S60	512-3108	
TRS18	516-6779	S70	S70	512-3107	540-2979
	516-6780	Pin-on	S70	512-3107	
TRS23	558-8925	S70	S70	567-7343	540-2979
	558-8926	S80	S80	567-7344	
	567-6085	Pin-on	S70	567-7343	
	567-6086	Pin-on	S80	567-7344	



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