



Cat® Tiltrotators

TRS12, TRS17, TRS20

Technical Specifications

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

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Tiltrotators Technical Specifications

Specifications

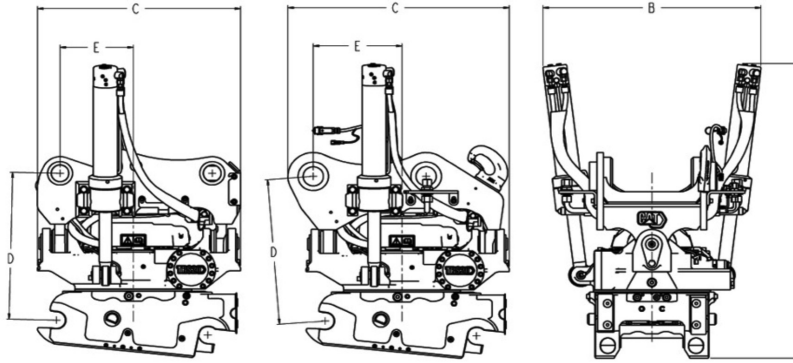
Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

Model	Part No.	Top Interface	Bottom Interface	Machine Class, Minimum		Machine Class, Maximum		Weight		Maximum Bucket Width	
				ton	lbs	ton	lbs	kg	lbs	mm	in
TRS12	645-6910	Pin-on	S60	12	26,455	16	35,274	513	1,131	1600	63
	649-3796*	Pin-on	S60	12	26,455	16	35,274	507	1,118	1600	63
TRS17	645-6916	Pin-on	S60	14	30,864	19	41,887	644	1,420	1700	68
	649-3797*	Pin-on	S60	14	30,864	19	41,887	638	1,406	1700	68
TRS20	645-6921	Pin-on	S70	18	39,683	24	52,910	755	1,664	1800	71
	649-3798*	Pin-on	S70	18	39,683	24	52,910	748	1,649	1800	71

*Does not include lifting hook

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Dimensions



Model	Part No.	Top Interface	Bottom Interface	(A) Total Height		(B) Total Width		(C) Total Length		(D) Building Height		(E) Horizontal Length G-KR	
				mm	in	mm	in	mm	in	mm	in	mm	in
TRS12	645-6910	Pin-on	S60	1107	44	716	28	791	31	599	24	359	14.1
	649-3796*	Pin-on	S60	1107	44	716	28	791	31	599	24	359	14.1
TRS17	645-6916	Pin-on	S60	1228	48	819	32	848	33	624	25	340	13.4
	649-3797*	Pin-on	S60	1228	48	819	32	848	33	624	25	340	13.4
TRS20	645-6921	Pin-on	S70	1235	49	859	34	873	34	607	24	350	13.8
	649-3798*	Pin-on	S70	1235	49	859	34	873	34	607	24	350	13.8

*Does not include lifting hook

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Hydraulic Specifications

Model	Turning Torque at 25 Mpa	Turning Torque at 3626 psi	Tilting Torque at 25 Mpa	Tilting Torque at 3626 psi	Flow for Rotation Speed	
	Nm	ft-lb	Nm	ft-lb	L/min	gpm
TRS12	7600	5635	38,600	28,470	60	15.85
TRS17	9550	7044	56,600	41,746	72	19.02
TRS20	9550	7044	56,600	41,746	72	19.02

Model	Part No.	Top Interface	Bottom Interface	Tilt Angle, Left and Right	Rotation Speed, 1 Full Rotation	Working Pressure		Recommended Maximum Oil Flow	
				degrees	seconds	Mpa	psi	L/min	gpm
TRS12	645-6910	Pin-on	S60	40	7	25	3626	91	24.04
	649-3796*	Pin-on	S60	40	7	25	3626	91	24.04
TRS17	645-6916	Pin-on	S60	40	7	25	3626	111	29.32
	649-3797*	Pin-on	S60	40	7	25	3626	111	29.32
TRS20	645-6921	Pin-on	S70	40	7	25	3626	121	31.96
	649-3798*	Pin-on	S70	40	7	25	3626	121	31.96

*Does not include lifting hook

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

Model		TRS12	TRS17	TRS20
SMALL EXCAVATORS				
Model	Build No.			
313	07	✓		
315	07	✓		
317	07		✓	
317	07D		✓	
MEDIUM EXCAVATORS				
Model	Build No.			
320	07			✓
323	07			✓
325 RR	07			✓
325	07			✓
WHEELED EXCAVATORS				
Model	Build No.			
M314	07	✓		
M315	07	✓		
M316	07		✓	
M318	07		✓	
M320	07			✓

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Hydromechanical Matching

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Match No Match

		TRS12	TRS17	TRS20
Family	Model			
Hydraulic Hammers	H110 GC S	✓	✓	
	H110 S	✓	✓	
	H115 GC S		✓	✓
	H115 S		✓	✓
	H120 GC S			✓
	H120 S			✓
Compactors (Vibratory Plate)	CVP75	✓	✓	✓
	CVP110			✓

Tiltrotators Technical Specifications

Grapple Modules

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

Model	Part No.	Top Interface	Bottom Interface	Optional Grapple Module	Optional Rail Grapple
TRS12	645-6910	Pin-on	S60	607-1190	
	649-3796	Pin-on	S60	607-1190	
TRS17	645-6916	Pin-on	S60	607-1190	
	649-3797	Pin-on	S60	607-1190	
TRS20	645-6921	Pin-on	S70	512-3107	
	649-3798	Pin-on	S70	512-3107	

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com.

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