



# Cat® Tiltrotators

TRS12, TRS17, TRS20, TRS26

## 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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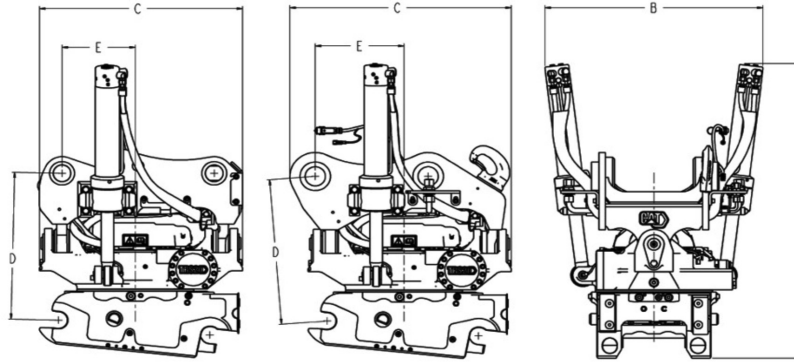
# Tiltrotators Technical Specifications

## Specifications

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	645-6907	S60	S60	12	26,455	16	35,274	501	1,104	1600	63
	645-6908	HCS60	S60	12	26,455	16	35,274	509	1,122	1600	63
	645-6909	HCS60	HCS60	12	26,455	16	35,274	529	1,166	1600	63
	645-6910	Pin-on	S60	12	26,455	16	35,274	513	1,131	1600	63
	645-6911	Pin-on	HCS60	12	26,455	16	35,274	533	1,175	1600	63
	649-3813	S60	S60	12	26,455	16	35,274	605	1,334	1600	63
TRS17	645-6912	S60	S60	14	30,864	19	41,887	624	1,376	1700	68
	645-6914	HCS60	S60	14	30,864	19	41,887	632	1,393	1700	68
	645-6915	HCS60	HCS60	14	30,864	19	41,887	651	1,435	1700	68
	645-6916	Pin-on	S60	14	30,864	19	41,887	644	1,420	1700	68
	649-3787	HCS65	HCS65	14	30,864	19	41,887	741	1,634	1700	68
	649-3802	Pin-on	S60	14	30,864	19	41,887	634	1,398	1700	68
	649-3814	S60	S60	14	30,864	19	41,887	728	1,605	1700	68
TRS20	645-6918	S70	S70	18	39,683	24	52,910	766	1,689	1800	71
	645-6919	HCS70	S70	18	39,683	24	52,910	784	1,728	1800	71
	645-6920	HCS70	HCS70	18	39,683	24	52,910	807	1,779	1800	71
	645-6921	Pin-on	S70	18	39,683	24	52,910	755	1,664	1800	71
	649-3790	HCS70/55	S70/55	18	39,683	24	52,910	876	1,931	1800	71
	649-3815	S70	S70	18	39,683	24	52,910	885	1,951	1800	71
TRS26	645-6923	S70	S70	23	50,706	32	70,548	898	1,980	2000	79
	645-6924	HCS70	S70	23	50,706	32	70,548	915	2,017	2000	79
	645-6926	HCS70	HCS70	23	50,706	32	70,548	938	2,068	2000	79
	645-6927	Pin-on	S70	23	50,706	32	70,548	937	2,066	2000	79
	645-6929	S80	S80	23	50,706	32	70,548	1103	2,432	2000	79
	645-6930	HCS80	S80	23	50,706	32	70,548	1129	2,489	2000	79
	645-6931	HCS80	HCS80	23	50,706	32	70,548	1150	2,535	2000	79
	645-6932	Pin-on	S80	23	50,706	32	70,548	1086	2,394	2000	79
	649-3793	HCS70/55	S70/55	23	50,706	32	70,548	1002	2,209	2000	79
	649-3794	HCS70/55	HCS70/55	23	50,706	32	70,548	1027	2,264	2000	79
	649-3806	Pin-on	S70	23	50,706	32	70,548	902	1,988	2000	79
	649-3816	S70	S70	23	50,706	32	70,548	1075	2,370	2000	79

# Tiltrotators Technical Specifications

## 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	645-6907	S60	S60	1105	44	753	30	712	28	586	23	277	10.9
	645-6908	HCS60	S60	1105	44	753	30	712	28	586	23	277	10.9
	645-6909	HCS60	HCS60	1105	44	753	30	712	28	586	23	277	10.9
	645-6910	Pin-on	S60	1107	44	716	28	791	31	599	24	359	14.1
	645-6911	Pin-on	HCS60	1107	44	716	28	791	31	599	24	359	14.1
TRS17	649-3813	S60	S60	1105	44	753	30	942	37	586	23	277	10.9
	645-6912	S60	S60	1228	48	819	32	801	32	601	24	272	10.7
	645-6914	HCS60	S60	1228	48	819	32	801	32	601	24	272	10.7
	645-6915	HCS60	HCS60	1228	48	819	32	801	32	601	24	272	10.7
	645-6916	Pin-on	S60	1228	48	819	32	848	33	624	25	340	13.4
	649-3787	HCS65	HCS65	1208	48	985	39	801	32	598	24	259	10.2
	649-3802	Pin-on	S60	1232	49	747	29	828	33	637	25	340	13.4
TRS20	649-3814	S60	S60	1228	48	819	32	975	38	601	24	272	10.7
	645-6918	S70	S70	1229	48	986	39	808	32	616	24	289	11.4
	645-6919	HCS70	S70	1229	48	986	39	808	32	616	24	289	11.4
	645-6920	HCS70	HCS70	1229	48	986	39	808	32	616	24	289	11.4
	645-6921	Pin-on	S70	1235	49	859	34	873	34	607	24	350	13.8
	649-3790	HCS70/55	S70/55	1231	48	1190	47	818	32	645	25	289	11.4
TRS26	649-3815	S70	S70	1229	48	986	39	1064	42	616	24	289	11.4
	645-6923	S70	S70	1334	53	948	37	920	36	673	26	276	10.9
	645-6924	HCS70	S70	1334	53	948	37	920	36	673	26	276	10.9
	645-6926	HCS70	HCS70	1334	53	948	37	920	36	673	26	276	10.9
	645-6927	Pin-on	S70	1334	53	948	37	989	39	698	27	400	15.7
	645-6929	S80	S80	1345	53	1223	48	929	37	706	28	306	12.0
	645-6930	HCS80	S80	1345	53	1223	48	929	37	706	28	306	12.0
	645-6931	HCS80	HCS80	1345	53	1223	48	929	37	706	28	306	12.0
	645-6932	Pin-on	S80	1371	54	948	37	989	39	718	28	400	15.7
	649-3793	HCS70/55	S70/55	1338	53	1139	45	920	36	702	28	276	10.9
	649-3794	HCS70/55	HCS70/55	1338	53	1139	45	920	36	702	28	276	10.9
	649-3806	Pin-on	S70	1333	52	949	37	984	39	678	27	400	15.7
649-3816	S70	S70	1334	53	948	37	1147	45	673	26	276	10.9	

# Tiltrotators Technical Specifications

## 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
TRS26	11,940	8806	64,700	47,720	79	20.87

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	645-6907	S60	S60	40	7	25	3626	91	24.04
	645-6908	HCS60	S60	40	7	25	3626	91	24.04
	645-6909	HCS60	HCS60	40	7	25	3626	91	24.04
	645-6910	Pin-on	S60	40	7	25	3626	91	24.04
	645-6911	Pin-on	HCS60	40	7	25	3626	91	24.04
	649-3813	S60	S60	40	7	25	3626	91	24.04
TRS17	645-6912	S60	S60	40	7	25	3626	121	31.96
	645-6914	HCS60	S60	40	7	25	3626	121	31.96
	645-6915	HCS60	HCS60	40	7	25	3626	121	31.96
	645-6916	Pin-on	S60	40	7	25	3626	121	31.96
	649-3787	HCS65	HCS65	40	7	25	3626	121	31.96
	649-3802	Pin-on	S60	40	7	25	3626	121	31.96
TRS20	649-3814	S60	S60	40	7	25	3626	121	31.96
	645-6918	S70	S70	40	7	25	3626	121	31.96
	645-6919	HCS70	S70	40	7	25	3626	121	31.96
	645-6920	HCS70	HCS70	40	7	25	3626	121	31.96
	645-6921	Pin-on	S70	40	7	25	3626	121	31.96
	649-3790	HCS70/55	S70/55	40	7	25	3626	121	31.96
TRS26	649-3815	S70	S70	40	7	25	3626	121	31.96
	645-6923	S70	S70	40	8	25	3626	134	35.40
	645-6924	HCS70	S70	40	8	25	3626	134	35.40
	645-6926	HCS70	HCS70	40	8	25	3626	134	35.40
	645-6927	Pin-on	S70	40	8	25	3626	134	35.40
	645-6929	S80	S80	40	8	25	3626	134	35.40
	645-6930	HCS80	S80	40	8	25	3626	134	35.40
	645-6931	HCS80	HCS80	40	8	25	3626	134	35.40
	645-6932	Pin-on	S80	40	8	25	3626	134	35.40
	649-3793	HCS70/55	S70/55	40	8	25	3626	134	35.40
	649-3794	HCS70/55	HCS70/55	40	8	25	3626	134	35.40
649-3806	Pin-on	S70	40	8	25	3626	134	35.40	
649-3816	S70	S70	40	8	25	3626	134	35.40	

# Tiltrotators Technical Specifications

## Machine Matching

Refer to the machine technical specifications for configuration specific matching. Consult your Cat® dealer for configuration availability in your region.

Match  No Match

Model	TRS12	TRS17	TRS20	TRS26
<b>SMALL EXCAVATORS</b>				
<b>Model</b>	<b>Build No.</b>			
313	07	✓		
315	07	✓		
317	07		✓	
317	07D		✓	
<b>MEDIUM EXCAVATORS</b>				
<b>Model</b>	<b>Build No.</b>			
320	07		✓	
323 N	07		✓	
323	07		✓	
325	07		✓	
326	07C			✓
326	07D			✓
330	07			✓
335	07			✓
<b>WHEELED EXCAVATORS</b>				
<b>Model</b>	<b>Build No.</b>			
M314	07	✓		
M314	07A	✓		
M315	07	✓		
M316	07		✓	
M317	07		✓	
M318	07		✓	
M319	07		✓	
M320	07		✓	
M322	07		✓	

# Tiltrotators Technical Specifications

## Hydromechanical Matching

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

Match

No Match

		TRS12	TRS17	TRS20	TRS26
Family	Model				
Hydraulic Hammers	H110 GC S	✓	✓		
	H110 S	✓	✓		
	H115 GC S		✓	✓	
	H115 S		✓	✓	
	H120 GC S			✓	✓
	H120 S			✓	✓
	H130 GC S				✓
	H130 S				✓
Demolition and Sorting Grapples	G212 GC	✓	✓		
	G213 GC	✓	✓		
	G217 GC		✓	✓	
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	645-6907	S60	S60	607-1190	
	645-6908	HCS60	S60	607-1190	
	645-6909	HCS60	HCS60	607-1190	
	645-6910	Pin-on	S60	607-1190	
	645-6911	Pin-on	HCS60	607-1190	
	649-3813	S60	S60	Included	
TRS17	645-6912	S60	S60	607-1190	
	645-6914	HCS60	S60	607-1190	
	645-6915	HCS60	HCS60	607-1190	
	645-6916	Pin-on	S60	607-1190	
	649-3787	HCS65	HCS65	512-3107	654-8690
	649-3802	Pin-on	S60	607-1190	
	649-3814	S60	S60	Included	
TRS20	645-6918	S70	S70	512-3107	
	645-6919	HCS70	S70	512-3107	
	645-6920	HCS70	HCS70	512-3107	
	645-6921	Pin-on	S70	512-3107	
	649-3790	HCS70/55	S70/55	567-7344	
	649-3815	S70	S70	Included	
TRS26	645-6923	S70	S70	567-7343	
	645-6924	HCS70	S70	567-7343	
	645-6926	HCS70	HCS70	567-7343	
	645-6927	Pin-on	S70	567-7343	
	645-6929	S80	S80	567-7343	
	645-6930	HCS80	S80	567-7343	
	645-6931	HCS80	HCS80	567-7343	
	645-6932	Pin-on	S80	567-7343	
	649-3793	HCS70/55	S70/55	567-7343	
	649-3794	HCS70/55	HCS70/55	567-7343	
	649-3806	Pin-on	S70	567-7343	
	649-3816	S70	S70	Included	

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