

AUGER DRIVES EXCAVATOR / BACKHOE 4.5 - 8T (9,900lbs - 17,600lbs)



FEATURES

- Compact high torque Digga manufactured gearbox
- Digga designed Eaton motor with intergrated pressure relief valve eliminating the need for bulky valve blocks while reducing many potential leak points
- 2 Piece shaft design ensures maximum side load ratings without increasing load on bearings
- 5 year gear box and 3 year motor warranty / lifetime shaft pull-out warranty
- Over 30 years design and manufacturing experience
- Easily converted to a Screw Anchor Drive with the addition of our patented 'Anti Kickback Valve'



MODEL	SINGLE SPEED		
	5DDS	6DDS	7DDS
Torque ft-lbs @ 3000 Psi	3,903	4,909	6,162
Max Torque ft-lbs @ 3500 Psi	4,553	5,728	7,189
Recommended Flow (Gpm)	14-36	14-36	14-36
Motor Type	EATON	EATON	EATON
Max Pressure - Do Not Exceed	3500PSI @ 36gpm		
Max Flow - Do Not Exceed	36gpm @ 3500psi		
Max Horse Power	67	67	67
Pressure Relief Valve	Included	Included	Included
Standard Output Shaft	2.5" Hex	2.5" Hex	2.5" Hex
Recommended Auger	A6 / RC6	A6 / RC6	A6 / RC6
Max Auger Diameter Clay/shale**	24"	30"	30"
Max Auger Diameter Earth**	40"	40"	40"
Weight (lbs)	290	290	290
Overall Length (in)	33.7"	33.7"	33.7"
Diameter (in)	11.4"	11.4"	11.4"



OUTPUT SPEED & TORQUE

5DDS				6DDS				7DDS			
OUTPUT SPEED		OUTPUT TORQUE		OUTPUT SPEED		OUTPUT TORQUE		OUTPUT SPEED		OUTPUT TORQUE	
GPM	RPM	PSI	FT-LBS	GPM	RPM	PSI	FT-LBS	GPM	RPM	PSI	FT-LBS
20	47	1,500	1,950	20	37	1,500	2,450	20	30	1,500	3,080
22	52	1,700	2,210	22	41	1,700	2,780	22	33	1,700	3,490
24	57	1,900	2,470	24	45	1,900	3,110	24	36	1,900	3,900
26	61	2,100	2,730	26	49	2,100	3,435	26	39	2,100	4,315
28	66	2,300	2,990	28	52	2,300	3,760	28	42	2,300	4,725
30	71	2,500	3,250	30	56	2,500	4,090	30	45	2,500	5,135
32	75	2,700	3,510	32	60	2,700	4,420	32	48	2,700	5,545
34	80	2,900	3,770	34	54	2,900	4,745	34	51	2,900	5,955
36	85	3,200	4,030	36	67	3,200	5,070	36	54	3,200	6,370
		3,300	4,290			3,300	5,400			3,300	6,780
		3,500	4,600			3,500	5,700			3,500	7,200

Output speed and torque specifications are THEORETICAL. Speed and torque output are dependent on the overall system efficiencies associated with the prime movers hydraulic system. This document should be used for information and comparative purposes only. When determining criteria, & application specific information is required, please contact DIGGA.

(*) Max/min drilling diameter (DIA) dependant on ground conditions. Guide is a recommendation only.

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2 SPEED DRIVES

TWO SPEED			
MODEL	5DDT	6DDT	7DDT
Torque ft-lbs @ 3000 Psi	4,067	5,012	6,306
Max Torque ft-lbs @ 3500 Psi	4,745	5,847	7,357
Recommended Flow (Gpm)	10-36	10-36	10-36
Motor Type	EATON	EATON	EATON
Max Pressure - Do Not Exceed	3500PSI @ 36gpm		
Max Flow - Do Not Exceed	36gpm @ 3500psi		
Max Horse Power	80	80	80
Pressure Relief Valve	Included	Included	Included
Standard Output Shaft	2.5" Hex	2.5" Hex	2.5" Hex
Recommended Auger	A6 / RC6	A6 / RC6	A6 / RC6
Max Auger Diameter Clay/shale**	24"	30"	30"
Max Auger Diameter Earth**	40"	40"	48"
Weight (lbs)	350	350	350
Overall Length (in)	34.4"	34.4"	34.4"
Diameter (in)	14.4"	14.4"	14.4"

OUTPUT SPEED & TORQUE

5DDT						
GPM	OUTPUT SPEED		PSI	OUTPUT TORQUE		
	HI TORQUE LOW SPEED	LO TORQUE HIGH SPEED		HI TORQUE LOW SPEED	LO TORQUE HIGH SPEED	
10	23	34	1,000	1,356	895	
20	45	69	1,500	2,034	1,342	
30	68	103	2,000	2,711	1,790	
36	81	123	2,500	3,389	2,237	
			3,000	4,067	2,684	
			3,500	4,745	3,132	



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6DDT						
GPM	OUTPUT SPEED		PSI	OUTPUT TORQUE		
	HI TORQUE LOW SPEED	LO TORQUE HIGH SPEED		HI TORQUE LOW SPEED	LO TORQUE HIGH SPEED	
10	18	28	1,000	1,671	1,103	
20	37	56	1,500	2,506	1,654	
30	55	83	2,000	3,341	2,205	
36	66	100	2,500	4,177	2,757	
			3,000	5,012	3,308	
			3,500	5,847	3,859	

7DDT						
GPM	OUTPUT SPEED		PSI	OUTPUT TORQUE		
	HI TORQUE LOW SPEED	LO TORQUE HIGH SPEED		HI TORQUE LOW SPEED	LO TORQUE HIGH SPEED	
10	15	22	1,000	2,102	1,387	
20	29	44	1,500	3,153	2,081	
30	44	56	2,000	4,204	2,775	
36	52	80	2,500	5,255	3,468	
			3,000	6,306	4,162	
			3,500	7,357	4,856	

AUGERS TO SUIT 6DDS & 7DDS



FEATURES

- TRU-CUT – a 12" auger cuts a 12" hole, no more oversized holes!
- Over 30 years of auger design and manufacture has resulted in an extremely efficient cutting head design and optimum flight pitches to provide maximum soil removal in all ground conditions.
- Made in the USA
- Easy knock in and out teeth requires no special tools

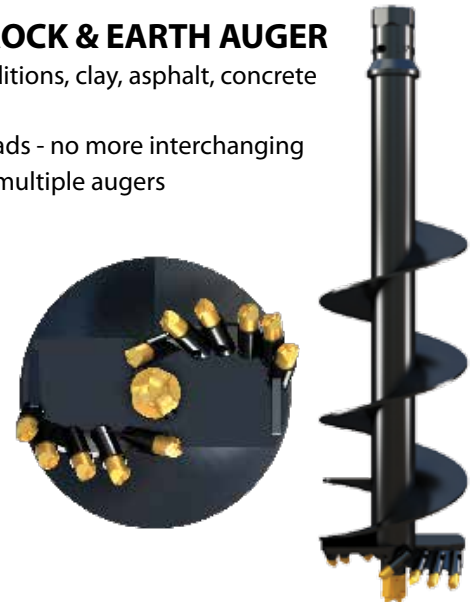
GENERAL PURPOSE AUGER

- Dig holes in earth conditions and clay
- Available Size, 6" to 60"
- 60" Overall length
- Earth and Tungsten Teeth Available



COMBINATION ROCK & EARTH AUGER

- Dig holes in earth conditions, clay, asphalt, concrete and fracturable rock
- All purpose cutting heads - no more interchanging cutting heads & using multiple augers
- Available Size, 6" to 60"
- 60" Overall length



SCREW ANCHOR APPLICATIONS

Digga's auger drives can be converted to screw anchor drives in 3 easy steps with the addition of our patented 'Anti Kickback Valve'. The valve controls the rapid decompression of oil which occurs during pile installation. A pile builds up rotational energy, somewhat like a rubber band on a wind up model plane. The pile momentarily kicks back, forcing energy back up the pile through the drive shaft to the gear box, through the hydraulic motor.

This action momentarily causes the motor to effectively turn into a high speed pump, potentially causing costly motor failure. Fitted to the drive manifold, the Anti Kickback Valve controls this release of energy.

Digga's 5 year gearbox and 3 year motor warranty does not allow to auger drives which are used for screw anchoring and not fitted with an Anti Kickback Valve.

EASY FITMENT OF THE OPTIONAL SWOOSH VALVE FOR SCREW ANCHORING APPLICATIONS

① Remove elbow fittings.

② Place washer spacers on the top valve ports of motor. Align valve block with spacers and top valve ports.

③ Screw in bolts through the valve block and top valve ports of motor.

