

AUGER DRIVES EXCAVATOR

18 - 30T (39,700lbs - 66,100lbs)



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'

	SINGLE SPEED		
MODEL	20DDS	25DDS	30DDS
Max Torque ft-lbs @ 3500 Psi	19,488	24,514	30,771
Recommended Flow (Gpm)	26-56	26-56	26-56
Motor Type	EATON	EATON	EATON
Max Pressure - Do Not Exceed	3500psi @ 40gpm		
Max Flow - Do Not Exceed	53gpm @ 2650psi		
Max Horse Power	67	67	67
Pressure Relief Valve	Included	Included	Included
Standard Output Shaft	4" Square	4" Square	4" Square
Recommended Auger	RC10 / RC11	RC10 / RC11	RC10 / RC11
Max Auger Diameter Clay/shale**	60"	60"	60"
Max Auger Diameter Earth**	72"	72"	78"
Weight (lbs)	640	640	640
Overall Length (in)	45.3"	45.3"	45.3"
Diameter (in)	14"	14"	14"



OUTPUT SPEED & TORQUE

20DDS				25DDS				30DDS			
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
26	14	1,500	8,340	26	11	1,500	10,550	26	9	1,500	13,185
29	16	1,700	9,450	29	13	1,700	11,955	29	10	1,700	14,945
32	18	1,900	10,565	32	14	1,900	13,365	32	11	1,900	16,705
35	19	2,100	11,675	35	15	2,100	14,770	35	12	2,100	18,460
38	21	2,300	12,790	38	17	2,300	16,175	38	13	2,300	20,220
41	23	2,500	13,900	41	18	2,500	17,580	41	14	2,500	21,980
44	24	2,700	15,010	44	19	2,700	18,990	44	15	2,700	23,735
47	26	2,900	16,125	47	20	2,900	20,395	47	16	2,900	25,495
50	28	3,200	17,235	50	22	3,200	21,800	50	17	3,200	27,255
53	29	3,300	18,340	53	23	3,300	23,210	53	18	3,300	29,010
		3,500	19,500			3,500	24,600			3,500	30,800

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	20DDT	25DDT	30DDT
Max Torque ft-lbs @ 3500 Psi	20,309	25,027	31,489
Recommended Flow (Gpm)	20-53	20-50	20-50
Motor Type	EATON	EATON	EATON
Max Pressure - Do Not Exceed	3500psi @ 47gpm		
Max Flow - Do Not Exceed	53gpm @ 3100psi		
Max Horse Power	80	80	80
Pressure Relief Valve	Included	Included	Included
Standard Output Shaft	100mm Square	100mm Square	100mm Square
Recommended Auger	RC10 / RC11	RC10 / RC11	RC10 / RC11
Max Auger Diameter Clay/shale**	60"	60"	60"
Max Auger Diameter Earth**	72"	72"	72"
Weight (lbs)	670	670	670
Overall Length (in)	45.9"	45.9"	45.9"
Diameter (in)	14"	14"	14"



OUTPUT SPEED & TORQUE

20DDT					
GPM	OUTPUT SPEED		PSI	OUTPUT TORQUE	
	HI TORQUE LOW SPEED	LO TORQUE HIGH SPEED		HI TORQUE LOW SPEED	LO TORQUE HIGH SPEED
20	11	16	1,000	5,803	3,830
30	16	24	1,500	8,704	5,745
40	21	32	2,000	11,605	7,659
53	28	42	2,500	14,506	9,574
			3,000	17,408	11,489
			3,500	20,309	13,404

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25DDT					
GPM	OUTPUT SPEED		PSI	OUTPUT TORQUE	
	HI TORQUE LOW SPEED	LO TORQUE HIGH SPEED		HI TORQUE LOW SPEED	LO TORQUE HIGH SPEED
20	9	13	1,000	7,151	4,719
30	13	19	1,500	10,726	7,079
40	17	26	2,000	14,301	9,439
53	23	34	2,500	17,876	11,798
			3,000	21,452	14,158
			3,500	25,027	16,518

30DDT					
GPM	OUTPUT SPEED		PSI	OUTPUT TORQUE	
	HI TORQUE LOW SPEED	LO TORQUE HIGH SPEED		HI TORQUE LOW SPEED	LO TORQUE HIGH SPEED
20	7	10	1,000	8,997	5,938
30	10	15	1,500	13,495	8,907
40	14	21	2,000	17,994	11,876
53	18	27	2,500	22,492	14,845
			3,000	26,991	17,814
			3,500	31,489	20,783

AUGERS TO SUIT 20DDS, 25DDS & 30DDS

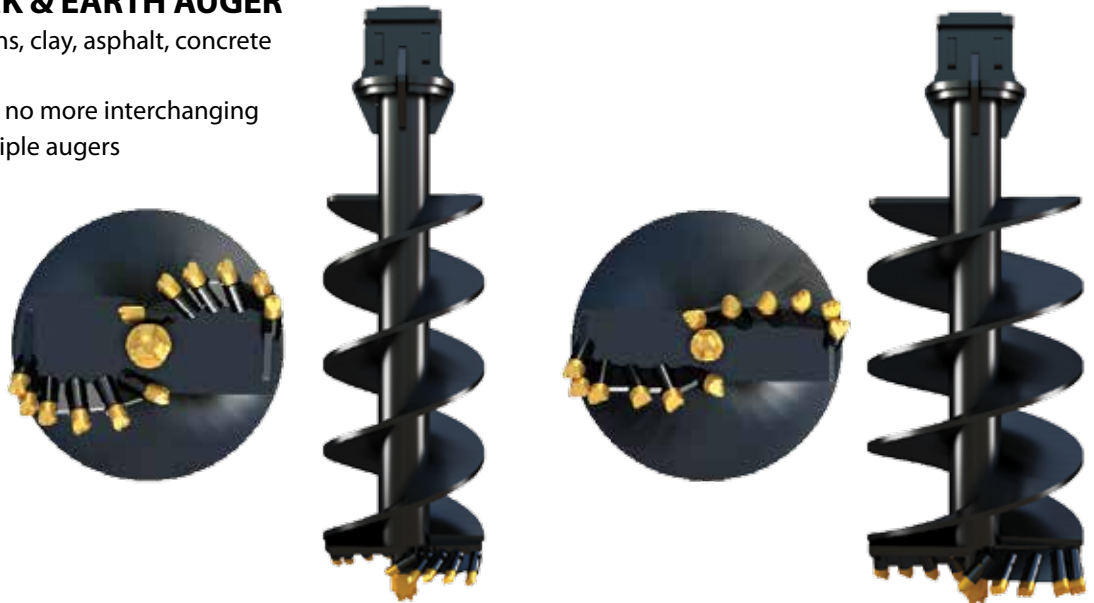


FEATURES

- 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

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

