

# AUGER DRIVES EXCAVATOR

## 13 - 16T (28,700lbs - 35,300lbs)



### 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	13DDS	16DDS
Torque ft-lbs @ 3000 Psi	10,978	13,810
Max Torque ft-lbs @ 3500 Psi	12,808	16,111
Recommended Flow (Gpm)	26-56	26-56
Motor Type	EATON	EATON
Max Pressure - Do Not Exceed	3500psi @ 35gpm	
Max Flow - Do Not Exceed	53gpm @ 2300psi	
Max Horse Power	67	67
Pressure Relief Valve	Included	Included
Standard Output Shaft	3" Hex	3" Hex
Recommended Auger	A8 / RC8 / RC10	A8 / RC8 / RC10
Max Auger Diameter Clay/shale**	36"	48"
Max Auger Diameter Earth**	60"	60"
Weight (lbs)	370	370
Overall Length (in)	39.6"	39.6"
Diameter (in)	11.4"	11.4"



### OUTPUT SPEED & TORQUE

13DDS				16DDS			
OUTPUT SPEED		OUTPUT TORQUE		OUTPUT SPEED		OUTPUT TORQUE	
GPM	RPM	PSI	FT-LBS	GPM	RPM	PSI	FT-LBS
26	22	1,500	5,490	26	17	1,500	6,960
29	24	1,700	6,220	29	19	1,700	7,885
32	27	1,900	6,955	32	21	1,900	8,815
35	29	2,100	7,685	35	23	2,100	9,740
38	32	2,300	8,415	38	25	2,300	10,670
41	34	2,500	9,150	41	27	2,500	11,600
44	37	2,700	9,880	44	29	2,700	12,525
47	39	2,900	10,615	47	31	2,900	13,455
50	42	3,200	11,345	50	33	3,200	14,380
53	44	3,300	12,075	53	35	3,300	15,310
		3,500	12,800			3,500	16,200

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	13DDT	16DDT
Torque ft-lbs @ 3000 Psi	11,441	14,098
Max Torque ft-lbs @ 3500 Psi	13,347	16,448
Recommended Flow (Gpm)	14-50	14-50
Motor Type	EATON	EATON
Max Pressure - Do Not Exceed	3500psi @ 35gpm	
Max Flow - Do Not Exceed	53gpm @ 2300psi	
Max Horse Power	80	80
Pressure Relief Valve	Included	Included
Standard Output Shaft	3" Hex	3" Hex
Recommended Auger	A8 / RC8 / RC10	A8 / RC8 / RC10
Max Auger Diameter Clay/shale**	36"	48"
Max Auger Diameter Earth**	60"	60"
Weight (lbs)	394	394
Overall Length (in)	38.6"	38.6"
Diameter (in)	14.4"	14.4"



### OUTPUT SPEED & TORQUE

13DDT						16DDT					
OUTPUT SPEED			OUTPUT TORQUE			OUTPUT SPEED			OUTPUT TORQUE		
GPM	HI TORQUE LOW SPEED	LO TORQUE HIGH SPEED	PSI	HI TORQUE LOW SPEED	LO TORQUE HIGH SPEED	GPM	HI TORQUE LOW SPEED	LO TORQUE HIGH SPEED	PSI	HI TORQUE LOW SPEED	LO TORQUE HIGH SPEED
16	13	19	1,000	3,814	2,517	20	13	20	1,000	4,699	3,102
26	21	32	1,500	5,720	3,775	30	20	30	1,500	7,049	4,652
36	29	44	2,000	7,627	5,034	40	26	40	2,000	9,399	6,203
46	34	56	2,500	9,534	6,292	53	35	52	2,500	11,749	7,754
53	43	65	3,000	11,441	7,551				3,000	14,098	9,305
			3,500	13,347	8,809				3,500	16,448	10,856

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# AUGERS TO SUIT 13DDS & 16DDS



## 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

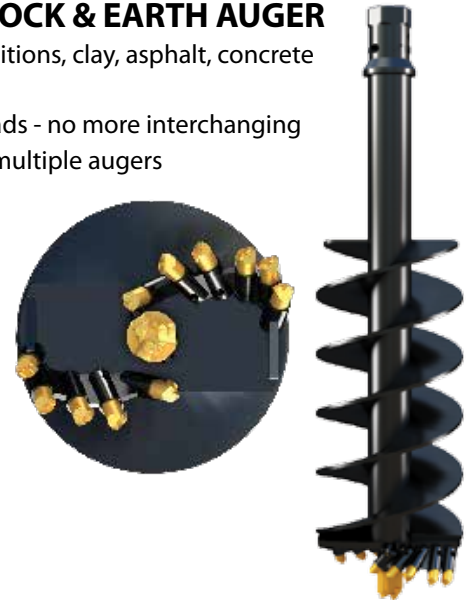
## GENERAL PURPOSE AUGER

- 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.

