

2 SPEED AUGER DRIVES



EXCAVATOR / BACKHOE 2T-10T

2-SPEED AUGER DRIVES

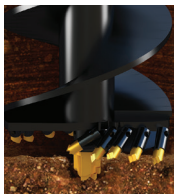
AUGERS TO SUIT (Sold Separately)

- TRU-CUT – a 300mm auger cuts a 300mm hole. No 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.
- Easy knock in and out teeth requires no special tools.



GENERAL PURPOSE AUGER

- Dig holes in earth conditions and clay
- 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



DEDICATED ROCK AUGER

- Rotating rock picks for shale and fracturable rock
- Heavy duty efficient cutting head for the ultimate rock drilling auger

ESSENTIALLY 2 DRIVE UNITS IN ONE

Save time and money by eliminating the need for multiple drive units.

LOW SPEED - HIGH TORQUE

Ideal for drilling with large diameter augers or hard fracturable rock.

HIGH SPEED - LOW TORQUE

Ideal for small diameter augers or softer soils where speed is needed.

Switch to high speed for added spin off speed for clearing larger diameter augers.

FEATURES

- Compact high torque Digga gearbox
- Fitted with high efficiency Eaton VIS motor
- Integrated PRV (Pressure Relief Valve)
- Extreme duty shaft locking system
- Low maintenance with 5 year gear box and 3 year motor warranty



Model	PDT4HF	PDT6HF	PDT8HF	PDT10HF
Rec Flow	40-120	40-150	40-150	40-150
Max Torque (Nm) @ 240 bar	4,673	5,758	7,881	9,916
Pressure Release Valve	Included	Included	Included	Included
Energy Control Valve	Optional	Optional	Optional	Optional
Max Pressure - Do not exceed	240 Bar @ 150 lpm			
Max Flow - Do not exceed	180 lpm @ 200 Bar			
Power - Do not exceed	60 Kw (80 hp)			
Overall Length (mm)	820	820	952	952
Diameter (mm)	340	340	340	340
Weight (kg) - No linkage & hitch	134	146	165	165
STD Output Shaft	75mm Square	75mm Square	75mm Square	75mm Square
Swing Control (SCS)	Optional	Optional	Optional	Optional
Diggalign (Auger Alignment)	Optional	Optional	Optional	Optional
HALO (Auger Alignment)	Optional	Optional	Optional	Optional
Recommended Auger Diameter				
Recommended Auger	A6/RC6/DR6	A6/RC6/DR6	A8/RC8/DR8	A8/RC8/DR8
Max Auger Dia Fracturable Rock*	750mm	900mm	1000mm	1000mm
Max Auger Dia Clay/Shale*	750mm	900mm	1000mm	1000mm
Max Auger Dia Earth*	1000mm	1200mm	1200mm	1500mm

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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OUTPUT SPEED

Model	PDT4HF		PDT6HF		PDT8HF		PDT10HF	
	Hi Torque Low Speed	Low Torque High Speed	Hi Torque Low Speed	Low Torque High Speed	Hi Torque Low Speed	Low Torque High Speed	Hi Torque Low Speed	Low Torque High Speed
40	33	50	27	40	19	29	15	23
50	41	62	33	50	24	37	19	29
60	49	74	40	60	29	44	23	35
70	57	87	46	70	34	51	27	41
80	65	99	53	80	39	59	31	47
90	74	112	60	91	44	66	35	53
100	82	124	66	101	48	73	39	58
110	90	136	73	111	53	81	42	64
120	98	149	80	121	58	88	46	70
130			86	131	63	96	50	76
140			93	141	68	103	54	82
150			100	151	73	110	58	88

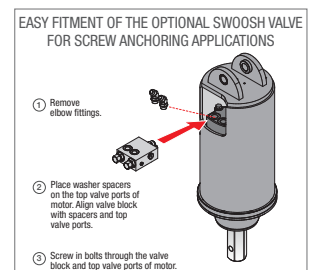
OUTPUT TORQUE

Model	PDT4HF		PDT6HF		PDT8HF		PDT10HF	
	Hi Torque Nm	Low Torque Nm	Hi Torque Nm	Low Torque Nm	Hi Torque Nm	Low Torque Nm	Hi Torque Nm	Low Torque Nm
90	1,752	1,157	2,159	1,425	2,956	1,951	3,719	2,454
100	1,947	1,285	2,399	1,584	3,284	2,167	4,132	2,727
110	2,142	1,414	2,639	1,742	3,612	2,384	4,545	3,000
120	2,336	1,542	2,879	1,900	3,941	2,601	4,958	3,272
130	2,531	1,671	3,119	2,059	4,269	2,818	5,371	3,545
140	2,726	1,799	3,359	2,217	4,598	3,034	5,785	3,818
150	2,920	1,928	3,599	2,375	4,926	3,251	6,198	4,091
160	3,115	2,056	3,839	2,534	5,254	3,468	6,611	4,363
170	3,310	2,185	4,079	2,692	5,583	3,685	7,024	4,636
180	3,505	2,313	4,319	2,850	5,911	3,901	7,437	4,909
190	3,699	2,442	4,559	3,009	6,239	4,118	7,850	5,181
200	3,894	2,570	4,799	3,167	6,568	4,335	8,264	5,454
210	4,089	2,699	5,039	3,325	6,896	4,552	8,677	5,727
220	4,283	2,827	5,278	3,484	7,225	4,768	9,090	5,999
230	4,478	2,956	5,518	3,642	7,553	4,985	9,503	6,272
240	4,673	3,084	5,758	3,800	7,881	5,202	9,916	6,545

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.



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