

HIGH POWERED ANCHOR DRIVES

TWO SPEED - 15-30T

DIGGA
CONSTRUCTION GRADE
MACHINERY ATTACHMENTS

/// HIGH SPEED /// HIGH PERFORMANCE

*Digga's High Powered Drives operate at a **MAX PRESSURE OF 5,000 PSI** providing you the speed and performance without detuning your machine.*



THE FASTEST DRIVE HEAD IN ITS CLASS

FEATURES

- COMPACT, HIGH QUALITY, DIGGA MADE GEARBOX
- BUILT-IN PRV (PRESSURE RELIEF VALVE) AS STANDARD
- ECV (ENERGY CONTROL RELIEF VALVE) TO PREVENT RAPID DECOMPRESSION OF OIL, CAUSED BY THE REVERSE ENERGY CREATED BY PILE KICK-BACK
- ENGINEERED HOOD & EARS FOR MAXIMUM STRENGTH
- EXTREME DUTY SHAFT LOCKING SYSTEM
- NO COMPLEX HOSES, VALVING OR FILTRATION
- 1YR GEARBOX & 1YR MOTOR WARRANTY

OTHER MODELS AVAILABLE

- **STANDARD 2 SPEED**
- **HIGH POWERED SINGLE SPEED**
- **HIGH POWERED AUTO SHIFT** (COMING SOON)

	SD HIGH POWERED - TWO SPEED				
MODEL	SD45HPT	SD50HPT	SD70HPT	SD80HPT	SD95HPT
Max Torque (ft-lbs)	33,654	39,463	51,634	62,638	69,244
Max Speed (RPM) - Low Torque	78	66	51	42	38
Max Speed (RPM) - High Torque	46	39	30	25	22
Max Flow (Gpm)	100 GPM @ 3,500 PSI				
Max Pressure - Do Not Exceed	5,000 PSI @70 GPM				
Max Horse Power	201	201	201	201	201
Motor Type	Radial Piston	Radial Piston	Radial Piston	Radial Piston	Radial Piston
Pressure Relief Valve	Included	Included	Included	Included	Included
Energy Control Valve	Included	Included	Included	Included	Included
Standard Output Shaft	100mm Square	100mm Square	100mm Square	100mm Square	100mm Square

OPTIONAL EXTRAS

- Ryno Piling cradle
- Drive Linkages
- Excavator Mounts/Hitch
- Diggalign - Pile/Auger Alignment system
- Torque Monitoring - Pressure Differential Gauge
- Torque Logic - Pile Alignment / Data Logging system / Torque Measuring



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OUTPUT SPEED & TORQUE **LS= Low Speed** **HS= High Speed**

SD45HPT					SD50HPT					SD70HPT					SD80HPT					SD95HPT				
OUTPUT SPEED			OUTPUT TORQUE		OUTPUT SPEED			OUTPUT TORQUE		OUTPUT SPEED			OUTPUT TORQUE		OUTPUT SPEED			OUTPUT TORQUE		OUTPUT SPEED			OUTPUT TORQUE	
GPM	RPM (LS)	RPM (HS)	PSI	FT-LBS	GPM	RPM (LS)	RPM (HS)	PSI	FT-LBS	GPM	RPM (LS)	RPM (HS)	PSI	FT-LBS	GPM	RPM (LS)	RPM (HS)	PSI	FT-LBS	GPM	RPM (LS)	RPM (HS)	PSI	FT-LBS
8	4	6	600	4,039	8	3	5	600	4,736	8	2	4	600	6,196	8	2	3	600	7,469	8	2	3	600	8,309
12	6	9	800	5,385	12	5	8	800	6,314	12	4	6	800	8,261	12	3	5	800	9,958	12	3	5	800	11,079
16	7	12	1,000	6,731	16	6	11	1,000	7,893	16	5	8	1,000	10,327	16	4	7	1,000	12,448	16	4	6	1,000	13,849
20	9	16	1,200	8,077	20	8	13	1,200	9,471	20	6	10	1,200	12,392	20	5	8	1,200	14,937	20	4	8	1,200	16,618
24	11	19	1,400	9,423	24	9	16	1,400	11,050	24	7	12	1,400	14,458	24	6	10	1,400	17,427	24	5	9	1,400	19,388
28	13	22	1,600	10,769	28	11	18	1,600	12,628	28	8	14	1,600	16,523	28	7	12	1,600	19,916	28	6	11	1,600	22,158
32	15	25	1,800	12,116	32	12	21	1,800	14,207	32	10	16	1,800	18,588	32	8	13	1,800	22,406	32	7	12	1,800	24,928
36	17	28	2,000	13,462	36	14	24	2,000	15,785	36	11	18	2,000	20,654	36	9	15	2,000	24,895	36	8	14	2,000	27,697
40	18	31	2,200	14,808	40	16	26	2,200	17,364	40	12	20	2,200	22,719	40	10	17	2,200	27,385	40	9	15	2,200	30,467
44	20	34	2,400	16,154	44	17	29	2,400	18,942	44	13	22	2,400	24,784	44	11	18	2,400	29,874	44	10	17	2,400	33,237
48	22	37	2,600	17,500	48	19	32	2,600	20,521	48	14	24	2,600	26,850	48	12	20	2,600	32,364	48	11	18	2,600	36,007
52	24	41	2,800	18,847	52	20	34	2,800	22,099	52	16	27	2,800	28,915	52	13	22	2,800	34,853	52	11	20	2,800	38,776
56	26	44	3,000	20,193	56	22	37	3,000	23,678	56	17	29	3,000	30,981	56	14	24	3,000	37,343	56	12	21	3,000	41,546
60	28	47	3,200	21,539	60	23	40	3,200	25,257	60	18	31	3,200	33,046	60	15	25	3,200	39,832	60	13	23	3,200	44,316
64	29	50	3,400	22,885	64	25	42	3,400	26,835	64	19	33	3,400	35,111	64	16	27	3,400	42,322	64	14	24	3,400	47,086
68	31	53	3,600	24,231	68	27	45	3,600	28,414	68	20	35	3,600	37,177	68	17	29	3,600	44,811	68	15	26	3,600	49,855
72	33	56	3,800	25,577	72	28	48	3,800	29,992	72	22	37	3,800	39,242	72	18	30	3,800	47,301	72	16	27	3,800	52,625
76	35	59	4,000	26,924	76	30	50	4,000	31,571	76	23	39	4,000	41,307	76	19	32	4,000	49,790	76	17	29	4,000	55,395
80	37	62	4,200	28,270	80	31	53	4,200	33,149	80	24	41	4,200	43,373	80	20	34	4,200	52,280	80	18	30	4,200	58,165
84	39	66	4,400	29,616	84	33	55	4,400	34,728	84	25	43	4,400	45,438	84	21	35	4,400	54,769	84	18	32	4,400	60,934
88	40	69	4,600	30,962	88	34	58	4,600	36,306	88	26	45	4,600	47,504	88	22	37	4,600	57,259	88	19	33	4,600	63,704
92	42	72	4,800	32,308	92	36	61	4,800	37,885	92	28	47	4,800	49,569	92	23	39	4,800	59,748	92	20	35	4,800	66,474
96	44	75	5,000	33,654	96	37	63	5,000	39,463	96	29	49	5,000	51,634	96	24	40	5,000	62,238	96	21	36	5,000	69,244
100	46	78			100	39	66			100	30	51			100	25	42			100	22	38		

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.

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INTEGRATED ENERGY CONTROL VALVE INSIDE MANIFOLD



This revolutionary bypass valve is fitted to the drive to control the rapid decompression of oil caused by pile kick-back during the screw anchoring process.

WHY YOU NEED ECV

When the anchor reaches desired torque or depth the operator stops the drive unit, at this stage the anchor has built up a rotational energy (somewhat like a rubber band on a wind-up model plane). This energy that is stored in the anchor needs to be released before the drive unit is disconnected. The ECV bypasses the stored energy allowing the anchor to "unwind" in a controlled manner.

Without this valve, the pressure contained when holding the pile in place would be forced up the pile and into the drive unit resulting in potential damage & costly repairs for the motor and gearbox.

FEATURES

- Protects motor from rapid oil decompression
- Easily converts your auger drive into a dedicated screw anchor drive

IDEAL USE

- Screw piling / anchoring

MACHINE SUITABILITY

- Digga's Energy Control Valve can be fitted to all Digga drilling drive units for screw anchoring applications. ECV comes standard on all Digga anchor drives.

