

HIGH POWERED ANCHOR DRIVES

ULTRA DRIVE TWO SPEED - 15-30T

140,000-230,000 FT-LBS

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

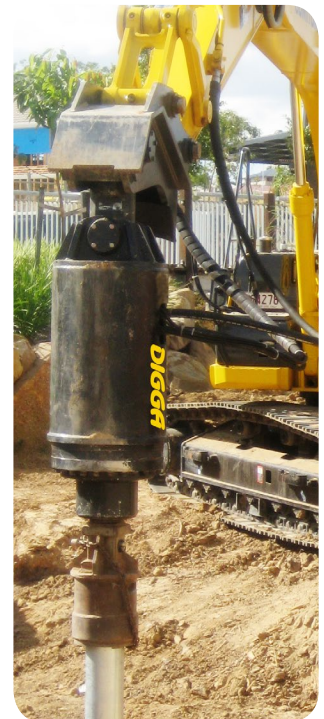
- STANDARD 2 SPEED
- HIGH POWERED SINGLE SPEED
- HIGH POWERED AUTO SHIFT (COMING SOON)

MD HIGH POWERED - TWO SPEED

MODEL	UD190HPT	UD220HPT	UD250HPT	UD300HPT
Max Torque (ft-lbs)	141,685	157,634	184,842	231,814
Max Speed (RPM) - Low Torque	18	17	17	11
Max Speed (RPM) - High Torque	11	10	8	7
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
Motor Type	Radial Piston	Radial Piston	Radial Piston	Radial Piston
Pressure Relief Valve	Included	Included	Included	Included
Energy Control Valve	Included	Included	Included	Included
Standard Output Shaft	150mm Square	150mm Square	150mm Square	150mm 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

UD190HPT					UD220HPT					UD250HPT					UD300HPT				
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
8	1	1	600	17,002	8	1	1	600	18,916	8	1	1	600	22,181	8	1	1	600	27,818
12	1	2	800	22,670	12	1	2	800	25,221	12	1	2	800	29,575	12	1	1	800	37,090
16	2	3	1,000	28,337	16	2	3	1,000	31,527	16	1	3	1,000	36,968	16	1	2	1,000	46,363
20	2	4	1,200	34,004	20	2	3	1,200	37,832	20	2	3	1,200	44,362	20	1	2	1,200	55,635
24	3	4	1,400	39,672	24	2	4	1,400	44,138	24	2	4	1,400	51,756	24	2	3	1,400	64,908
28	3	5	1,600	45,339	28	3	5	1,600	50,443	28	2	5	1,600	59,150	28	2	3	1,600	74,180
32	4	6	1,800	51,007	32	3	5	1,800	56,748	32	3	5	1,800	66,543	32	2	4	1,800	83,453
36	4	6	2,000	56,674	36	4	6	2,000	63,054	36	3	6	2,000	73,937	36	3	4	2,000	92,726
40	4	7	2,200	62,342	40	4	7	2,200	69,359	40	3	7	2,200	81,331	40	3	4	2,200	101,998
44	5	8	2,400	68,009	44	4	7	2,400	75,664	44	4	7	2,400	88,724	44	3	5	2,400	111,271
48	5	9	2,600	73,676	48	5	8	2,600	81,970	48	4	8	2,600	96,118	48	3	5	2,600	120,543
52	6	9	2,800	79,344	52	5	9	2,800	88,275	52	4	9	2,800	103,512	52	4	6	2,800	129,816
56	6	10	3,000	85,011	56	6	10	3,000	94,581	56	4	10	3,000	110,905	56	4	6	3,000	139,088
60	7	11	3,200	90,679	60	6	10	3,200	100,886	60	5	10	3,200	118,299	60	4	7	3,200	148,361
64	7	12	3,400	96,346	64	6	11	3,400	107,191	64	5	11	3,400	125,693	64	4	7	3,400	157,634
68	7	12	3,600	102,013	68	7	12	3,600	113,497	68	5	12	3,600	133,086	68	5	7	3,600	166,906
72	8	13	3,800	107,681	72	7	12	3,800	119,802	72	6	12	3,800	140,480	72	5	8	3,800	176,179
76	8	14	4,000	113,348	76	8	13	4,000	126,107	76	6	13	4,000	147,874	76	5	8	4,000	185,451
80	9	14	4,200	119,016	80	8	14	4,200	132,413	80	6	14	4,200	155,268	80	6	9	4,200	194,724
84	9	15	4,400	124,683	84	8	14	4,400	138,718	84	7	14	4,400	162,661	84	6	9	4,400	203,996
88	10	16	4,600	130,351	88	9	15	4,600	145,023	88	7	15	4,600	170,055	88	6	10	4,600	213,269
92	10	17	4,800	136,018	92	9	16	4,800	151,329	92	7	16	4,800	177,449	92	6	10	4,800	222,541
96	11	17	5,000	141,685	96	10	16	5,000	157,634	96	8	16	5,000	184,842	96	7	11	5,000	231,814
100	11	18			100	10	17			100	8	17			100	7	11		

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.

