

HIGH POWERED ANCHOR DRIVES

MEGA DRIVE TWO SPEED - 15-30T

80,000-150,000 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	MD110HPT	MD160HPT	MD190HPT
Max Torque (ft-lbs)	86,840	128,560	150,750
Max Speed (RPM) - Low Torque	30	20	17
Max Speed (RPM) - High Torque	18	12	10
Max Flow (Gpm)	100 GPM @ 3,500 PSI		
Max Pressure - Do Not Exceed	5,000 PSI @70 GPM		
Max Horse Power	201	201	201
Motor Type	Radial Piston	Radial Piston	Radial Piston
Pressure Relief Valve	Included	Included	Included
Energy Control Valve	Included	Included	Included
Standard Output Shaft	130mm Square	130mm Square	130mm 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



v1.01

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OUTPUT SPEED & TORQUE

LS= Low Speed HS= High Speed

MD110HPT					MD160HPT					MD190HPT				
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
8	1	2	600	10,421	8	1	2	600	15,427	8	1	1	600	18,090
12	2	4	800	13,894	12	1	2	800	20,570	12	1	2	800	24,120
16	3	5	1,000	17,368	16	2	3	1,000	25,712	16	2	3	1,000	30,150
20	4	6	1,200	20,841	20	2	4	1,200	30,854	20	2	3	1,200	36,180
24	4	7	1,400	24,315	24	3	5	1,400	35,997	24	2	4	1,400	42,210
28	5	8	1,600	27,789	28	3	6	1,600	41,139	28	3	5	1,600	48,240
32	6	10	1,800	31,262	32	4	6	1,800	46,282	32	3	5	1,800	54,270
36	6	11	2,000	34,736	36	4	7	2,000	51,424	36	4	6	2,000	60,300
40	7	12	2,200	38,209	40	5	8	2,200	56,566	40	4	7	2,200	66,330
44	8	13	2,400	41,683	44	5	9	2,400	61,709	44	4	7	2,400	72,360
48	9	14	2,600	45,157	48	6	10	2,600	66,851	48	5	8	2,600	78,390
52	9	16	2,800	48,630	52	6	10	2,800	71,994	52	5	9	2,800	84,420
56	10	17	3,000	52,104	56	7	11	3,000	77,136	56	6	10	3,000	90,450
60	11	18	3,200	55,577	60	7	12	3,200	82,278	60	6	10	3,200	96,480
64	12	19	3,400	59,051	64	8	13	3,400	87,421	64	6	11	3,400	102,510
68	12	20	3,600	62,524	68	8	14	3,600	92,563	68	7	12	3,600	108,540
72	13	22	3,800	65,998	72	9	14	3,800	97,706	72	7	12	3,800	114,570
76	14	23	4,000	69,472	76	9	15	4,000	102,848	76	8	13	4,000	120,600
80	14	24	4,200	72,945	80	10	16	4,200	107,990	80	8	14	4,200	126,630
84	15	25	4,400	76,419	84	10	17	4,400	113,133	84	8	14	4,400	132,660
88	16	26	4,600	79,892	88	11	18	4,600	118,275	88	9	15	4,600	138,690
92	17	28	4,800	83,366	92	11	18	4,800	123,418	92	9	16	4,800	144,720
96	17	29	5,000	86,840	96	12	19	5,000	128,560	96	10	16	5,000	150,750
100	18	30			100	12	20			100	10	17		

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.

