

PLANETARY ANCHOR DRIVES

Developed in conjunction with the leading Screw Anchor/Pile installers around the world. The only true Anchor Drives available, designed & manufactured inhouse by Digga, specifically for the rigours of the application. Host machine operates in the most efficient HP range, minimising wear & tear, optimising performance & ensure highest returns.



Features

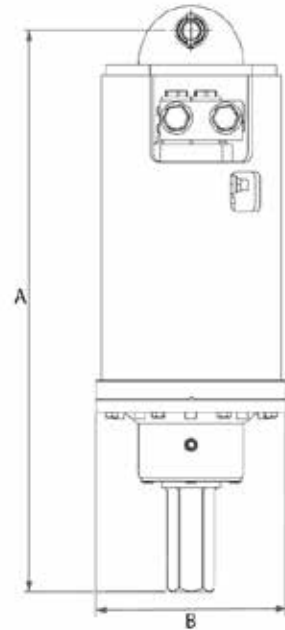
- High efficiency EATON/DIGGA bell geroler hydraulic motors with integrated Pressure Relief Valve, ensures max volumetric efficiency for consistent & efficient pile installation throughout the working day
- More linear feet in the ground = greater returns
- ECV (Energy Control Valve) to prevent rapid decompression of oil, caused by the reverse energy created by Pile Kick-back.
- Engineered hood & ears for maximum strength
- Extreme duty shaft retaining system
- No Case Drain required
- 5yr Gearbox & 3yr Motor Warranty

Need Torque from a lower pressure, no problems.

Two pressure series are available to suit your requirements.

Standard pressure series, for machines with 3500 PSI

Low Pressure series, for machines with 3000 PSI



Specifications

| | ANCHOR DRIVE STANDARD PRESSURE 3500 PSI SERIES | | ANCHOR DRIVE LOW PRESSURE 3000 PSI SERIES | |
|-----------------------------|--|----------|---|----------|
| | 13ADS | 16ADS | 13ALS | 16ALS |
| Nominal Torque (FT LBS) | 12,800 | 16,200 | 13 810 | 17 334 |
| Rec Flow * | 26-53 | 26-53 | 26-53 | 26-53 |
| Max Pressure ** | 3500 | 3500 | 3000 | 3000 |
| Max Power (HP)*** | 70 | 70 | 70 | 70 |
| PRV (Pressure Relief Valve) | Included | Included | Included | Included |
| ECV (Energy Control Valve) | Included | Included | Included | Included |
| Overall Length (A) inches | 39.6" | 39.6" | 39.6" | 39.6" |
| Diameter (B) inches | 11.4" | 11.4" | 11.4" | 11.4" |
| Weight lbs | 392 | 392 | 392 | 392 |
| Output Shaft | 3" Hex | 3" Hex | 3" Hex | 3" Hex |



* Max Flow - Do not exceed 60gpm (230lpm) @ 1900psi (130 bar)

**Max Pressure - Do not exceed 3500psi (240bar) @ 34 gpm (130 lpm)

*** Max Power - Do not exceed 70HP (52Kw)



OUTPUT SPECIFICATIONS

ANCHOR DRIVE STANDARD PRESSURE SERIES

| Torque Output (FT LBS) @3500 PSI (240 Bar) | | |
|---|------------------|------------------|
| | 13ADS | 16ADS |
| Pressure PSI | Torque ft lbs | Torque ft lbs |
| 1 000 | 3 659 | 4 603 |
| 1 200 | 4 391 | 5 524 |
| 1 400 | 5 123 | 6 444 |
| 1 600 | 5 855 | 7 365 |
| 1 800 | 6 587 | 8 286 |
| 2 000 | 7 319 | 9 206 |
| 2 200 | 8 051 | 10 127 |
| 2 400 | 8 783 | 11 048 |
| 2 600 | 9 515 | 11 968 |
| 2 800 | 10 246 | 12 889 |
| 3 000 | 10 978 | 13 810 |
| 3 200 | 11 710 | 14 730 |
| 3 300 | 12 076 | 15 191 |
| 3 500 | 12 808 | 16 111 |

| Speed Output (RPM) | | |
|--------------------|--------------|--------------|
| | 13ADS | 16ADS |
| Flow GPM | Speed RPM | Speed RPM |
| 8 | 7 | 5 |
| 12 | 10 | 8 |
| 16 | 13 | 11 |
| 20 | 17 | 13 |
| 24 | 20 | 16 |
| 28 | 23 | 19 |
| 32 | 27 | 21 |
| 36 | 30 | 24 |
| 40 | 34 | 27 |
| 44 | 37 | 29 |
| 48 | 40 | 32 |
| 53 | 44 | 35 |

ANCHOR DRIVE LOW PRESSURE SERIES

| Torque Output (FT LBS) @3000 PSI (210 Bar) | | |
|---|------------------|------------------|
| | 13ALS | 16ALS |
| Pressure PSI | Torque ft lbs | Torque ft lbs |
| 1 000 | 4 603 | 5 778 |
| 1 200 | 5 524 | 6 934 |
| 1 400 | 6 444 | 8 089 |
| 1 600 | 7 365 | 9 245 |
| 1 800 | 8 286 | 10 401 |
| 2 000 | 9 206 | 11 556 |
| 2 200 | 10 127 | 12 712 |
| 2 400 | 11 048 | 13 867 |
| 2 600 | 11 968 | 15 023 |
| 2 800 | 12 889 | 16 179 |
| 3 000 | 13 810 | 17 334 |

| Speed Output (RPM) | | |
|--------------------|--------------|--------------|
| | 13ALS | 16ALS |
| Flow GPM | Speed RPM | Speed RPM |
| 8 | 5 | 4 |
| 12 | 8 | 6 |
| 16 | 11 | 8 |
| 20 | 13 | 11 |
| 24 | 16 | 13 |
| 28 | 19 | 15 |
| 32 | 21 | 17 |
| 36 | 24 | 19 |
| 40 | 27 | 21 |
| 44 | 29 | 23 |
| 48 | 32 | 25 |
| 53 | 35 | 28 |

OPTIONAL EXTRAS

- Ryno Piling cradle
- Drive Linkages
- Excavator Mounts/Hitch
- Diggalign - Pile/Auger Alignment system
- Torque Monitoring - Pressure Differential Guage
- Diggalogic - Torque & System monitoring (avail Aug 2013)

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.