
# Construction Attachments Product Catalog

## Anchor Drives
## Torque Management
## Mounting Kits


dinamicoil.us

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# Company Information | Global Locations

**Established in 1970, Dinamic Oil is an Italian manufacturer with an extensive offering of gear products that are purpose-built to lead the industry in reliable performance, serviceability, and evolving technology. Our flexible thinking and commitment to continuous improvement allow us to be creative and meet your challenges head-on. From drilling and mining to industrial and energy applications, our portfolio of products is well suited to meet your requirements.**

With headquarters in Modena, Italy Dinamic Oil has consolidated its position in the international market, where it now has three production units, eight subsidiaries in Europe, the Americas, and Asia.

We have a dedicated network of subsidiaries and sales branches around the world. Our diverse company includes operations in Italy, China, France, Germany, India, Norway, Singapore, and the United States.

**Dinamic Oil S.p.A**
Bomporto
Modena - Italy
HEADQUARTERS

**Dinamic Oil Triveneto**
Rovigo - Italy

**Dinamic Oil North America Inc.**
Charlotte, NC - USA

**Dinamic Oil Norway A/S**
Frogner - Norway

**Dinamic Oil Deutschland GmbH**
Frankfurter - Germany

**Dinamic Oil France**
Charvieu Cedex - France

**Dinamic Oil India Pvt. Ltd**
Haryana - India

**Dinamic Oil Asia Pacific Pte. Ltd.**
Singapore

**Dinamic Oil Machinery Co., Ltd.**
Shanghai - China

## North America | Charlotte, NC

Our North American office is located in Charlotte, North Carolina, and we specialize in manufacturing planetary gear products. Our core products include Gearbox, Hoists, Winches, Anchor Drives and Torque Management Systems.

Our products are used in Drilling, Mining, Energy, Marine, Mobile Construction, and Gas and Oil industries. Our flexible thinking, customer orientation, and commitment to continuous improvement allow us to be creative and meet your challenges head-on.

# Anchor Drive Product Overview

Dinamic Oil has built a reputation for creative engineering solutions and products that are robust and reliable.

Our Anchor Drives are developed specifically for the demanding helical pile installation industry. We offer both single and two-speed models designed to withstand long duty cycles that produce reliable TRUE TORQUE results.











## Complete Solution

Dinamic Oil provides a complete helical installation equipment package. Chose from our single or two-speed Anchor Drives developed specifically for the demanding helical pile installation industry.

Pair the Anchor Drive with one of our innovative machine mounting kits and torque management system.

# Anchor Drive Model Configuration Guide

Dinamic Oil Anchor Drives are available in several different models and configurations. Our product names include a configuration modifier. Use the configuration guide below to find the right product and features for your application.

## A

Includes:
Hydraulic Motor, Manifold with Valves, and Planetary Gearbox

## B


Includes:
Hydraulic Motor, Manifold with Valves, Planetary Gearbox,Bail and Pin

## C

Includes:
Hydraulic Motor, Manifold with Valves, Planetary Gearbox, Crown, Wrist, Pins, and Yoke

## C ML & C BT

C ML = Universal Mini-Mount Plate
C BT = Bob-Tach® Mini-Mount (Bobcat MT Series)

Includes:
All “C” Components + Folding Jib and Quick Attach Mounting Plate



# Anchor Drive Product Overview

Dinamic Oil publishes actual performance values, not theoretical. Actual performance values ensure you select the right attachment for your job.

## SA Series | Single Speed Models

*Case drain line is NOT required on SA Series models.*

| | TORQUE Ft-Lbs (Nm) | SPEED RPM | PRESSURE PSI (Bar) | MAX FLOW GPM (LPM) | OUTPUT SHAFT | MOTOR PORTS | MACHINE SIZE |
|---|---|---|---|---|---|---|---|
| **SA3** | 3,297 (4,471) | 28 | 2,500 (172) | 15 (56) | 2” Hex | -8 JIC | 1-3 T |
| **SA5** | 5,104 (6,919) | 30 | 2,500 (172) | 25 (94) | 2” Hex | -12 JIC | 2-3 T |
| **SA6L** | 6,631 (8,990) | 23 | 2,500 (172) | 25 (94) | 2” Hex | -12 JIC | - |
| **SA6** | 6,253 (8,477) | 25 | 2,500 (172) | 25 (94) | 2” Hex | -12 JIC | 2-3 T |
| **SA7** | 7,381 (10,007) | 21 | 2,500 (172) | 25 (94) | 2” Hex | -12 JIC | 2-6 T |
| **SA8** | 8,119 (11,007) | 20 | 2,750 (189) | 25 (94) | 2-1/2” Hex | -12 JIC | 3-8 T |
| **SA12** | 12,879 (17,461) | 20 | 3,000 (207) | 35 (133) | 2-1/2” Hex | -12 JIC | 6-12 T |
| **SA16** | 17,190 (23,306) | 15 | 3,000 (207) | 35 (133) | 2-1/2” Hex | -12 JIC | 8-12 T |
| **SA20** | 22,517 (30,529) | 13 | 3,000 (207) | 40 (151) | 3” Hex | -16 JIC | 12-20 T |
| **SA30** | 30,886 (41,875) | 10 | 3,000 (207) | 40 (151) | 4” Square | -16 JIC | 15-20 T |

## TA Series | Two Speed Models

*Case drain line MUST be used on TA Series models.*

| | TORQUE Ft-Lbs (Nm) | SPEED RPM | PRESSURE PSI (Bar) | MAX FLOW GPM (LPM) | OUTPUT SHAFT | MOTOR PORTS | MACHINE SIZE |
|---|---|---|---|---|---|---|---|
| **TA16** | 17,340 (23,510) | 19 / 28 | 3,000 (207) | 45 (170) | 2-1/2” Hex | -16 Code 61 | 8-12 T |
| **TA20** | 21,559 (29,230) | 15 / 22 | 3,000 (207) | 45 (170) | 3” Hex | -16 Code 61 | 12-20 T |
| **TA30** | 30,243 (41,005) | 12 / 17 | 3,300 (227) | 45 (170) | 4” Square | -16 Code 61 | 15-20 T |
| **TA40** | 40,508 (54,922) | 8 / 12 | 3,000 (207) | 45 (170) | 130mm SQ | -16 Code 61 | 15-20 T |
| **TA60** | 63,730 (86,406) | 20 / 39 | 5,000 (345) | 100 (378) | 130mm SQ | -20 Code 62 | 20-30 T |
| **TA80** | 80,300 (108,871) | 16 / 31 | 5,000 (345) | 100 (378) | 130mm SQ | -20 Code 62 | 20-30 T |
| **TA100** | 104,605 (141,825) | 12 / 24 | 5,000 (345) | 100 (378) | 150mm SQ | -20 Code 62 | 30-45 T |
| **TA120** | 120,251 (163,039) | 10 / 21 | 5,000 (345) | 100 (378) | 150mm SQ | -20 Code 62 | 35-45 T |
| **TA200** | 202,678 (274,795) | 6 / 12 | 5,000 (345) | 100 (378) | 177mm SQ | -20 Code 62 | 45-55 T |
| **TA300** | 303,835 (411,946) | 4 / 8 | 5,000 (345) | 100 (378) | 200mm SQ | -20 Code 62 | 55-70 T |

Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.

# PERFORMANCE WHEN IT COUNTS

Dinamic Oil's wide range of Anchor Drive attachments are developed specifically for the demanding helical pile installation industry. Offering single and two-speed models that withstand long duty cycles and produce reliable TRUE TORQUE results. Most models are available with a bail housing or center gimbal mount.


- No case drain needed on SA series models.
- Most models available in a Center Mount (gimbal) configuration to reduce weight and height.
- Counterbalance and pressure relief valves are standard.
- Two-speed models feature an automatic shifting feature and eliminates electrical harnesses.
- One-piece cast alloy bail housing on smaller models to reduce weight.
- Heat-treated cast alloy link arm provides full drive articulation.
- Developed to work with a wide range of prime movers and offered in different configurations to best suit your job requirements.
- Drive Models range from 3,000 ft-lbs to an impressive 300,000 ft-lbs of TRUE TORQUE.





# BUILT FOR ACCURACY & TIGHT SPACES


Drive models up to the SA20 / TA20 feature a full articulation design. The dual pivot points create a gimbal system with ample side to side and fore and aft movement.

The innovative mounting system provides increased ground clearance in a compact frame for improved maneuverability on tight access job sites.

**With an impressive torque-to-weight ratio, the Center Mount models put the muscle where you need it the most.**

## INNOVATIVE FEATURES

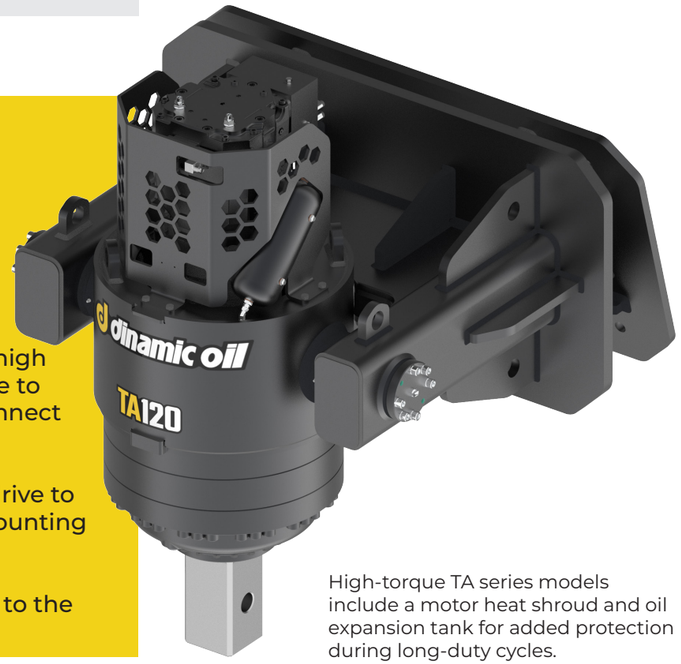
Designed to provide maximum ground clearance and reduce operating weight.

Small & medium torque models feature a dual pivot gimbal system.

Transportation stands are standard on all high torque TA series models, allowing the Drive to remain upright and easy to connect/disconnect from excavator.

The universal mounting plate allows one drive to be used on several different excavators. Mounting bracket install easily and quickly.

Low profile housings allow for easy access to the hydraulic motor and valve manifold.




High-torque TA series models include a motor heat shroud and oil expansion tank for added protection during long-duty cycles.

3,297 Max Torque (Ft-Lbs) | 28 Max Speed (RPM) | 2,500 Max Pressure (PSI) | 15 Max Flow (GPM) | 1-3 Machine Size (Tons)

## SA3

| General Information | |
|---|---|
| Prime Mover Weight Class | 1 - 3 t |
| Max Hydraulic Pressure | 2,500 PSI (172 Bar) |
| Max Hydraulic Flow | 15 GPM (56 LPM) |
| Motor Ports | -8 JIC |
| Shift Pressure | N/A |
| Gearbox Shaft Pullout Rating | 12,900 Lbs |
| Gearbox Oil Capacity | .26 Gallon (1 Liter) |
| Gearbox Oil Type | SAE 80W90 |
| Output Shaft | 2” Hex |
| **C - Model Specifications (Center Mount)** | |
| Overall Height | 21” (533mm) |
| Overall Width | 13” (330mm) |
| Weight | 248 Lbs (113 Kg) |
| Connection | Flange Plate |

| SA3 Torque Chart | |
|---|---|
| Pressure - PSI (Bar) | Ft-Lbs (Nm) |
| 1500 (103) | 1,978 (2,682) |
| 1700 (117) | 2,242 (3,040) |
| 1900 (131) | 2,506 (3,398) |
| 2100 (144) | 2,770 (3,755) |
| 2300 (158) | 3,033 (4,113) |
| 2500 (172) | 3,297 (4,471) |

| SA3 Speed Chart | |
|---|---|
| Flow - GPM (LPM) | Speed |
| 3 (11) | 5 |
| 5 (19) | 9 |
| 10 (38) | 18 |
| 15 (56) | 28 |

RECOMMENDED PRIME MOVERS


Center Mount Model

Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.



SA Series | Single-Speed Anchor Drive

5,104 Max Torque (Ft-Lbs) | 30 Max Speed (RPM) | 2,500 Max Pressure (PSI) | 25 Max Flow (GPM) | 2-3 Machine Size (Tons)

## SA5

| General Information | |
|---|---|
| Prime Mover Weight Class | 2 - 3 t |
| Max Hydraulic Pressure | 2,500 PSI (172 Bar) |
| Max Hydraulic Flow | 25 GPM (94 LPM) |
| Motor Ports | -12 JIC |
| Shift Pressure | N/A |
| Gearbox Shaft Pullout Rating | 12,900 Lbs |
| Gearbox Oil Capacity | .6 Gallon (2.4 Liter) |
| Gearbox Oil Type | SAE 80W90 |
| Output Shaft | 2” Hex |
| **B - Model Specifications (Bail)** | |
| Overall Height | 33” (838mm) |
| Overall Diameter | 9.5” (241mm) |
| Weight | 218 Lbs (99 Kg) |
| Connection Pin | 45mm |
| **C - Model Specifications (Center Mount)** | |
| Overall Height | 26” (660mm) |
| Overall Width | 13” (330mm) |
| Weight | 248 Lbs (113 Kg) |
| Connection | Flange Plate |

| SA5 Torque Chart | |
|---|---|
| Pressure - PSI (Bar) | Ft-Lbs (Nm) |
| 1500 (103) | 3,062 (4,151) |
| 1700 (117) | 3,470 (4,705) |
| 1900 (131) | 3,878 (5,259) |
| 2100 (144) | 4,287 (5,812) |
| 2300 (158) | 4,695 (6,366) |
| 2500 (172) | 5,104 (6,919) |

| SA5 Speed Chart | |
|---|---|
| Flow - GPM (LPM) | Speed |
| 10 (37) | 12 |
| 15 (56) | 18 |
| 20 (75) | 24 |
| 25 (94) | 30 |

RECOMMENDED PRIME MOVERS


Bail Housing Model


Center Mount Model

Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.

6,253 Max Torque (Ft-Lbs) | 25 Max Speed (RPM) | 2,500 Max Pressure (PSI) | 25 Max Flow (GPM) | 2-3 Machine Size (Tons)

## SA6

| General Information | |
|---|---|
| Prime Mover Weight Class | 2 - 3 t |
| Max Hydraulic Pressure | 2,500 PSI (172 Bar) |
| Max Hydraulic Flow | 25 GPM (94 LPM) |
| Motor Ports | -12 JIC |
| Shift Pressure | N/A |
| Gearbox Shaft Pullout Rating | 12,900 Lbs |
| Gearbox Oil Capacity | .6 Gallon (2.4 Liter) |
| Gearbox Oil Type | SAE 80W90 |
| Output Shaft | 2” Hex |
| **B - Model Specifications (Bail)** | |
| Overall Height | 33” (838mm) |
| Overall Diameter | 9.5” (241mm) |
| Weight | 218 Lbs (99 Kg) |
| Connection Pin | 45mm |
| **C - Model Specifications (Center Mount)** | |
| Overall Height | 26” (660mm) |
| Overall Width | 13” (330mm) |
| Weight | 248 Lbs (113 Kg) |
| Connection | Flange Plate |

| SA6 Torque Chart | |
|---|---|
| Pressure - PSI (Bar) | Ft-Lbs (Nm) |
| 1500 (103) | 3,751 (5,086) |
| 1700 (117) | 4,251 (5,764) |
| 1900 (131) | 4,751 (6,442) |
| 2100 (144) | 5,252 (7,120) |
| 2300 (158) | 5,752 (7,799) |
| 2500 (172) | 6,253 (8,477) |

| SA6 Speed Chart | |
|---|---|
| Flow - GPM (LPM) | Speed |
| 10 (37) | 9 |
| 15 (56) | 14 |
| 20 (75) | 19 |
| 25 (94) | 25 |

RECOMMENDED PRIME MOVERS


Bail Housing Model


Center Mount Model

Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.





6,631 Max Torque (Ft-Lbs) | 23 Max Speed (RPM) | 2,500 Max Pressure (PSI) | 25 Max Flow (GPM) | n/a Machine Size (Tons)

## SA6L

| General Information | |
|---|---|
| Prime Mover Weight Class | N/A |
| Max Hydraulic Pressure | 2,500 PSI (172 Bar) |
| Max Hydraulic Flow | 25 GPM (94 LPM) |
| Motor Ports | -12 JIC |
| Shift Pressure | N/A |
| Gearbox Shaft Pullout Rating | 12,900 Lbs |
| Gearbox Oil Capacity | .3 Gallon (1.2 Liter) |
| Gearbox Oil Type | SAE 80W90 |
| Output Shaft | 2” Hex |
| **Specifications** | |
| Overall Height | 23” (584mm) |
| Overall Diameter | 9” (228mm) |
| Weight | 114 Lbs (42 Kg) |
| Connection Pin | N/A |

| SA6L Torque Chart | |
|---|---|
| Pressure - PSI (Bar) | Ft-Lbs (Nm) |
| 1500 (103) | 3,978 (5,394) |
| 1700 (117) | 4,509 (6,113) |
| 1900 (131) | 5,039 (6,833) |
| 2100 (144) | 5,570 (7,552) |
| 2300 (158) | 6,100 (8,271) |
| 2500 (172) | 6,631 (8,990) |

| SA6L Speed Chart | |
|---|---|
| Flow - GPM (LPM) | Speed |
| 10 (37) | 9 |
| 15 (56) | 14 |
| 20 (75) | 18 |
| 25 (94) | 23 |

RECOMMENDED PRIME MOVERS

SA6L is designed for portable power units only.
Not intended for machine mount.

Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.

7,381 Max Torque (Ft-Lbs) | 21 Max Speed (RPM) | 2,500 Max Pressure (PSI) | 25 Max Flow (GPM) | 2-6 Machine Size (Tons)

## SA7

| General Information | |
|---|---|
| Prime Mover Weight Class | 2 - 3 t |
| Max Hydraulic Pressure | 2,500 PSI (172 Bar) |
| Max Hydraulic Flow | 25 GPM (94 LPM) |
| Motor Ports | -12 JIC |
| Shift Pressure | N/A |
| Gearbox Shaft Pullout Rating | 12,900 Lbs |
| Gearbox Oil Capacity | .7 Gallon (2.6 Liter) |
| Gearbox Oil Type | SAE 80W90 |
| Output Shaft | 2” Hex |
| **B - Model Specifications (Bail)** | |
| Overall Height | 33” (838mm) |
| Overall Diameter | 9.5” (241mm) |
| Weight | 234 Lbs (106 Kg) |
| Connection Pin | 45mm |
| **C - Model Specifications (Center Mount)** | |
| Overall Height | 26” (660mm) |
| Overall Width | 13” (330mm) |
| Weight | 264 Lbs (120 Kg) |
| Connection | Flange Plate |

| SA7 Torque Chart | |
|---|---|
| Pressure - PSI (Bar) | Ft-Lbs (Nm) |
| 1500 (103) | 4,428 (6,004) |
| 1700 (117) | 5,019 (6,804) |
| 1900 (131) | 5,609 (7,605) |
| 2100 (144) | 6,199 (8,406) |
| 2300 (158) | 6,790 (9,206) |
| 2500 (172) | 7,381 (10,007) |

| SA7 Speed Chart | |
|---|---|
| Flow - GPM (LPM) | Speed |
| 10 (37) | 8 |
| 15 (56) | 12 |
| 20 (75) | 16 |
| 25 (94) | 21 |

RECOMMENDED PRIME MOVERS


Bail Housing Model


Center Mount Model

Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.





8,119 Max Torque (Ft-Lbs) | 20 Max Speed (RPM) | 2,750 Max Pressure (PSI) | 25 Max Flow (GPM) | 3-8 Machine Size (Tons)

## SA8

| General Information | |
|---|---|
| Prime Mover Weight Class | 3 - 8 t |
| Max Hydraulic Pressure | 2,750 PSI (189 Bar) |
| Max Hydraulic Flow | 25 GPM (94 LPM) |
| Motor Ports | -12 JIC |
| Shift Pressure | N/A |
| Gearbox Shaft Pullout Rating | 12,900 Lbs |
| Gearbox Oil Capacity | .7 Gallon (2.6 Liter) |
| Gearbox Oil Type | SAE 80W90 |
| Output Shaft | 2.5” Hex |
| **B - Model Specifications (Bail)** | |
| Overall Height | 33” (838mm) |
| Overall Diameter | 9.5” (241mm) |
| Weight | 234 Lbs (106 Kg) |
| Connection Pin | 45mm |
| **C - Model Specifications (Center Mount)** | |
| Overall Height | 26” (660mm) |
| Overall Width | 13” (330mm) |
| Weight | 264 Lbs (120 Kg) |
| Connection | Flange Plate |

| SA8 Torque Chart | |
|---|---|
| Pressure - PSI (Bar) | Ft-Lbs (Nm) |
| 1700 (117) | 5,020 (6,806) |
| 1900 (131) | 5,609 (7,604) |
| 2100 (144) | 6,199 (8.404) |
| 2300 (158) | 6,790 (9,206) |
| 2500 (172) | 7,380 (10,005) |
| 2750 (189) | 8,119 (11,007) |

| SA8 Speed Chart | |
|---|---|
| Flow - GPM (LPM) | Speed |
| 10 (37) | 8 |
| 15 (56) | 12 |
| 20 (75) | 17 |
| 25 (94) | 20 |

RECOMMENDED PRIME MOVERS


Bail Housing Model


Center Mount Model

Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.

12,879 Max Torque (Ft-Lbs) | 20 Max Speed (RPM) | 3,000 Max Pressure (PSI) | 35 Max Flow (GPM) | 6-12 Machine Size (Tons)

# SA12

| General Information | |
|---|---|
| Prime Mover Weight Class | 6 - 12 t |
| Max Hydraulic Pressure | 3,000 PSI (207 Bar) |
| Max Hydraulic Flow | 35 GPM (133 LPM) |
| Motor Ports | -12 JIC |
| Shift Pressure | N/A |
| Gearbox Shaft Pullout Rating | 13,600 Lbs |
| Gearbox Oil Capacity | 1.2 Gallon (4.5 Liter) |
| Gearbox Oil Type | SAE 80W90 |
| Output Shaft | 2.5" Hex |
| **B - Model Specifications (Bail)** | |
| Overall Height | 42" (1,066mm) |
| Overall Diameter | 12.7" (322mm) |
| Weight | 458 Lbs (207 Kg) |
| Connection Pin | 45mm |
| **C - Model Specifications (Center Mount)** | |
| Overall Height | 35" (889mm) |
| Overall Width | 13" (330mm) |
| Weight | 595 Lbs (270 Kg) |
| Connection | Flange Plate |

| SA12 Torque Chart | |
|---|---|
| Pressure - PSI (Bar) | Ft-Lbs (Nm) |
| 2000 (137) | 8,585 (11,641) |
| 2200 (151) | 9,444 (12,805) |
| 2400 (165) | 10,303 (13,969) |
| 1600 (179) | 11,161 (15,133) |
| 2800 (193) | 12,020 (16,297) |
| 3000 (207) | 12,879 (17,461) |

| SA12 Speed Chart | |
|---|---|
| Flow - GPM (LPM) | Speed |
| 20 (75) | 11 |
| 25 (94) | 14 |
| 30 (113) | 17 |
| 35 (133) | 20 |

RECOMMENDED PRIME MOVERS


Bail Housing Model


Center Mount Model

Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.





17,190 Max Torque (Ft-Lbs) | 15 Max Speed (RPM) | 3,000 Max Pressure (PSI) | 35 Max Flow (GPM) | 8-12 Machine Size (Tons)

# SA16

| General Information | |
|---|---|
| Prime Mover Weight Class | 8 - 12 t |
| Max Hydraulic Pressure | 3,000 PSI (207 Bar) |
| Max Hydraulic Flow | 35 GPM (133 LPM) |
| Motor Ports | -12 JIC |
| Shift Pressure | N/A |
| Gearbox Shaft Pullout Rating | 16,500 Lbs |
| Gearbox Oil Capacity | 1.7 Gallon (6.5 Liter) |
| Gearbox Oil Type | SAE 80W90 |
| Output Shaft | 2.5" Hex |
| **B - Model Specifications (Bail)** | |
| Overall Height | 43" (1,092mm) |
| Overall Diameter | 14" (355mm) |
| Weight | 563 Lbs (255 Kg) |
| Connection Pin | 45mm |
| **C - Model Specifications (Center Mount)** | |
| Overall Height | 35" (889mm) |
| Overall Width | 13" (330mm) |
| Weight | 765 Lbs (347 Kg) |
| Connection | Flange Plate |

| SA16 Torque Chart | |
|---|---|
| Pressure - PSI (Bar) | Ft-Lbs (Nm) |
| 2000 (137) | 11,460 (15,537) |
| 2200 (151) | 12,606 (17,091) |
| 2400 (165) | 13,752 (18,645) |
| 1600 (179) | 14,898 (20,199) |
| 2800 (193) | 16,044 (21,752) |
| 3000 (207) | 17,190 (23,306) |

| SA16 Speed Chart | |
|---|---|
| Flow - GPM (LPM) | Speed |
| 20 (75) | 8 |
| 25 (94) | 11 |
| 30 (113) | 12 |
| 35 (133) | 15 |

RECOMMENDED PRIME MOVERS


Bail Housing Model


Center Mount Model

Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.

22,517 Max Torque (Ft-Lbs) | 13 Max Speed (RPM) | 3,000 Max Pressure (PSI) | 40 Max Flow (GPM) | 12-20 Machine Size (Tons)

## SA20

| General Information | |
|---|---|
| Prime Mover Weight Class | 12 - 20 t |
| Max Hydraulic Pressure | 3,000 PSI (207 Bar) |
| Max Hydraulic Flow | 40 GPM (151 LPM) |
| Motor Ports | -16 JIC |
| Shift Pressure | N/A |
| Gearbox Shaft Pullout Rating | 16,500 Lbs |
| Gearbox Oil Capacity | 1.8 Gallon (7 Liter) |
| Gearbox Oil Type | SAE 80W90 |
| Output Shaft | 3" Hex |
| **B - Model Specifications (Bail)** | |
| Overall Height | 43.5" (1,104mm) |
| Overall Diameter | 14" (355mm) |
| Weight | 602 Lbs (273 Kg) |
| Connection Pin | 45mm |
| **C - Model Specifications (Center Mount)** | |
| Overall Height | 36.5" (927mm) |
| Overall Width | 14" (355mm) |
| Weight | 796 Lbs (361 Kg) |
| Connection | Flange Plate |

| SA20 Torque Chart | |
|---|---|
| Pressure - PSI (Bar) | Ft-Lbs (Nm) |
| 2000 (137) | 15,011 (20,352) |
| 2200 (151) | 16,512 (22,388) |
| 2400 (165) | 18,013 (24,423) |
| 1600 (179) | 19,514 (26,458) |
| 2800 (193) | 21,016 (28,493) |
| 3000 (207) | 22,517 (30,529) |

| SA20 Speed Chart | |
|---|---|
| Flow - GPM (LPM) | Speed |
| 25 (94) | 8 |
| 30 (113) | 10 |
| 35 (132) | 11 |
| 40 (151) | 13 |

RECOMMENDED PRIME MOVERS


Bail Housing Model


Center Mount Model

Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.





30,886 Max Torque (Ft-Lbs) | 10 Max Speed (RPM) | 3,000 Max Pressure (PSI) | 40 Max Flow (GPM) | 15-20 Machine Size (Tons)

## SA30

| General Information | |
|---|---|
| Prime Mover Weight Class | 15 - 20 t |
| Max Hydraulic Pressure | 3,000 PSI (207 Bar) |
| Max Hydraulic Flow | 40 GPM (151 LPM) |
| Motor Ports | -16 JIC |
| Shift Pressure | N/A |
| Gearbox Shaft Pullout Rating | 25,300 Lbs |
| Gearbox Oil Capacity | 2.9 Gallon (11 Liter) |
| Gearbox Oil Type | SAE 80W90 |
| Output Shaft | 4" Square |
| **B - Model Specifications (Bail)** | |
| Overall Height | 54" (1,371mm) |
| Overall Diameter | 16" (406mm) |
| Weight | 862 Lbs (391 Kg) |
| Connection Pin | 75mm |

| SA30 Torque Chart | |
|---|---|
| Pressure - PSI (Bar) | Ft-Lbs (Nm) |
| 2000 (137) | 20,590 (27,916) |
| 2200 (151) | 22,649 (30,708) |
| 2400 (165) | 24,708 (33,500) |
| 1600 (179) | 26,767 (36,291) |
| 2800 (193) | 28,826 (39,083) |
| 3000 (207) | 30,885 (41,875) |

| SA30 Speed Chart | |
|---|---|
| Flow - GPM (LPM) | Speed |
| 25 (94) | 5 |
| 30 (113) | 6 |
| 35 (133) | 8 |
| 40 (151) | 10 |

RECOMMENDED PRIME MOVERS


Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.

17,340 Max Torque (Ft-Lbs) | 28 Max Speed (RPM) | 3,000 Max Pressure (PSI) | 45 Max Flow (GPM) | 8-12 Machine Size (Tons)

# TA16

| General Information | |
|---|---|
| Prime Mover Weight Class | 8 - 12 t |
| Max Hydraulic Pressure | 3,000 PSI (207 Bar) |
| Max Hydraulic Flow | 45 GPM (170 LPM) |
| Motor Ports | -16 Code 61 |
| Shift Pressure | 2,300 PSI (158 Bar) |
| Gearbox Shaft Pullout Rating | 16,500 Lbs |
| Gearbox Oil Capacity | 1.7 Gallon (6.5 Liter) |
| Gearbox Oil Type | SAE 80W90 |
| Output Shaft | 2.5" Hex |
| **B - Model Specifications (Bail)** | |
| Overall Height | 47" (1,193mm) |
| Overall Diameter | 14" (355mm) |
| Weight | 637 Lbs (289 Kg) |
| Connection Pin | 45mm |
| **C - Model Specifications (Center Mount)** | |
| Overall Height | 40" (1016mm) |
| Overall Width | 13" (330mm) |
| Weight | 822 Lbs (373 Kg) |
| Connection | Flange Plate |

**TA16 Torque Chart (Pressure)**

| PSI (Bar) | Low Torque Ft-Lbs (Nm) | High Torque Ft-Lbs (Nm) |
|---|---|---|
| 2000 (137) | 7,707 (10,448) | 11,560 (15,673) |
| 2200 (151) | 8,477 (11,493) | 12,716 (17,240) |
| 2400 (165) | 9,248 (12,538) | 13,872 (18,808) |
| 2600 (179) | 10,019 (13,583) | 15,028 (20,375) |
| 2800 (193) | 10,789 (14,628) | 16,184 (21,942) |
| 3000 (207) | 11,560 (15,673) | 17,340 (23,510) |

**TA16 Speed Chart (Flow)**

| GPM (LPM) | High Speed RPM | Low Speed RPM |
|---|---|---|
| 30 (113) | 19 | 13 |
| 35 (132) | 22 | 15 |
| 40 (151) | 25 | 17 |
| 45 (170) | 28 | 19 |

RECOMMENDED PRIME MOVERS

**Two-Speed Models Require Drain Line.**
Automatic Shift Setting is 2,300 PSI (158 Bar)


Bail Housing Model


Center Mount Model

Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.





21,559 Max Torque (Ft-Lbs) | 22 Max Speed (RPM) | 3,000 Max Pressure (PSI) | 45 Max Flow (GPM) | 12-20 Machine Size (Tons)

# TA20

| General Information | |
|---|---|
| Prime Mover Weight Class | 12 - 20 t |
| Max Hydraulic Pressure | 3,000 PSI (207 Bar) |
| Max Hydraulic Flow | 45 GPM (170 LPM) |
| Motor Ports | -16 Code 61 |
| Shift Pressure | 2,300 PSI (358 Bar) |
| Gearbox Shaft Pullout Rating | 16,500 Lbs |
| Gearbox Oil Capacity | 1.7 Gallon (6.5Liter) |
| Gearbox Oil Type | SAE 80W90 |
| Output Shaft | 3" Hex |
| **B - Model Specifications (Bail)** | |
| Overall Height | 48" (1219mm) |
| Overall Diameter | 14" (355mm) |
| Weight | 667 Lbs (303 Kg) |
| Connection Pin | 45mm |
| **C - Model Specifications (Center Mount)** | |
| Overall Height | 41" (1041mm) |
| Overall Width | 14" (355mm) |
| Weight | 848 Lbs (385 Kg) |
| Connection | Flange Plate |

**TA20 Torque Chart (Pressure)**

| PSI (Bar) | Low Torque Ft-Lbs (Nm) | High Torque Ft-Lbs (Nm) |
|---|---|---|
| 2000 (137) | 10,126 (13,730) | 14,373 (19,487) |
| 2200 (151) | 11,139 (15,103) | 15,810 (21,436) |
| 2400 (165) | 12,152 (16,476) | 17,247 (23,384) |
| 2600 (179) | 13,165 (17,849) | 18,685 (25,333) |
| 2800 (193) | 14,177 (19,222) | 20,122 (27,282) |
| 3000 (207) | 15,190 (20,595) | 21,559 (29,230) |

**TA20 Speed Chart (Flow)**

| GPM (LPM) | High Speed RPM | Low Speed RPM |
|---|---|---|
| 30 (113) | 14 | 10 |
| 35 (132) | 17 | 12 |
| 40 (151) | 19 | 13 |
| 45 (170) | 22 | 15 |

RECOMMENDED PRIME MOVERS

**Two-Speed Models Require Drain Line.**
Automatic Shift Setting is 2,300 PSI (158 Bar)


Bail Housing Model


Center Mount Model

Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.

30,243 Max Torque (Ft-Lbs) | 17 Max Speed (RPM) | 3,300 Max Pressure (PSI) | 45 Max Flow (GPM) | 15-20 Machine Size (Tons)

**Two-Speed Models Require Drain Line.**
Automatic Shift Setting is 2,300 PSI (158 Bar)

# TA30

| General Information | |
|---|---|
| Prime Mover Weight Class | 15 - 20 t |
| Max Hydraulic Pressure | 3,300 PSI (227 Bar) |
| Max Hydraulic Flow | 45 GPM (170 LPM) |
| Motor Ports | -16 Code 61 |
| Shift Pressure | 2,300 PSI (158 Bar) |
| Gearbox Shaft Pullout Rating | 25,300 Lbs |
| Gearbox Oil Capacity | 2.5 Gallon (9.5 Liter) |
| Gearbox Oil Type | SAE 80W90 |
| Output Shaft | 4" Square |
| **B - Model Specifications (Bail)** | |
| Overall Height | 58" (1473mm) |
| Overall Diameter | 16" (406mm) |
| Weight | 920 Lbs (417 Kg) |
| Connection Pin | 75mm |

**TA30 Torque Chart (Pressure)**

| PSI (Bar) | Low Torque Ft-Lbs (Nm) | High Torque Ft-Lbs (Nm) |
|---|---|---|
| 2000 (137) | 12,914 (17,509) | 18,329 (24,851) |
| 2200 (151) | 14,206 (19,260) | 20,162 (27,336) |
| 2400 (165) | 15,497 (21,011) | 21,995 (29,822) |
| 2600 (179) | 16,789 (22,762) | 23,828 (32,307) |
| 2800 (193) | 18,080 (24,513) | 25,661 (34,792) |
| 3300 (227) | 21,309 (28,891) | 30,243 (41,005) |

**TA30 Speed Chart (Flow)**

| GPM (LPM) | High Speed RPM | Low Speed RPM |
|---|---|---|
| 30 (113) | 11 | 8 |
| 35 (132) | 13 | 9 |
| 40 (151) | 15 | 11 |
| 45 (170) | 17 | 12 |

RECOMMENDED PRIME MOVER


Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.



TA Series | Two-Speed Anchor Drive

40,508 Max Torque (Ft-Lbs) | 12 Max Speed (RPM) | 3,000 Max Pressure (PSI) | 45 Max Flow (GPM) | 15-20 Machine Size (Tons)

**Two-Speed Models Require Drain Line.**
Automatic Shift Setting is 2,300 PSI (158 Bar)

# TA40

| General Information | |
|---|---|
| Prime Mover Weight Class | 15 - 20 t |
| Max Hydraulic Pressure | 3,000 PSI (207 Bar) |
| Max Hydraulic Flow | 45 GPM (170 LPM) |
| Motor Ports | -16 Code 61 |
| Shift Pressure | 2,300 PSI (358 Bar) |
| Gearbox Shaft Pullout Rating | 30,350 Lbs |
| Gearbox Oil Capacity | 3.2 Gallon (12 Liter) |
| Gearbox Oil Type | SAE 80W90 |
| Output Shaft | 130mm Square |
| **B - Model Specifications (Bail)** | |
| Overall Height | 60" (1,524mm) |
| Overall Diameter | 20" (508mm) |
| Weight | 1,190 Lbs (540 Kg) |
| Connection Pin | 75mm |
| **C - Model Specifications (Center Mount)** | |
| Overall Height | 52" (1320mm) |
| Overall Width | 39" (1000mm) |
| Weight | 1,599 Lbs (725 Kg) |
| Connection | Excavator Plate |

**TA40 Torque Chart (Pressure)**

| PSI (Bar) | Low Torque Ft-Lbs (Nm) | High Torque Ft-Lbs (Nm) |
|---|---|---|
| 2000 (137) | 17,997 (24,374) | 27,005 (36,314) |
| 2200 (151) | 19,775 (26,811) | 29,706 (40,276) |
| 2400 (165) | 21,573 (29,249) | 32,407 (43,937) |
| 2600 (179) | 23,371 (31,686) | 35,107 (47,599) |
| 2800 (193) | 25,168 (34,124) | 37,808 (51,260) |
| 3000 (207) | 26,966 (36,561) | 40,508 (54,922) |

**TA40 Speed Chart (Flow)**

| GPM (LPM) | High Speed RPM | Low Speed RPM |
|---|---|---|
| 30 (113) | 8 | 5 |
| 35 (132) | 9 | 6 |
| 40 (151) | 11 | 7 |
| 45 (170) | 12 | 8 |

RECOMMENDED PRIME MOVERS


Bail Housing Model


Center Mount Model

Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.

63,730 Max Torque (Ft-Lbs) | 39 Max Speed (RPM) | 5,000 Max Pressure (PSI) | 100 Max Flow (GPM) | 20-30 Machine Size (Tons)

# TA60

| General Information | |
|---|---|
| Prime Mover Weight Class | 20 - 30 t |
| Max Hydraulic Pressure | 5,000 PSI (345 Bar) |
| Max Hydraulic Flow | 100 GPM (378 LPM) |
| Motor Ports | -20 Code 62 |
| Shift Pressure | 3,500 PSI (241 Bar) |
| Gearbox Shaft Pullout Rating | 35,000 Lbs |
| Gearbox Oil Capacity | 4.7 Gallon (18 Liter) |
| Gearbox Oil Type | SAE 80W90 |
| Output Shaft | 130mm Square |
| **B - Model Specifications (Bail)** | |
| Overall Height | 63" (1600mm) |
| Overall Diameter | 20" (508mm) |
| Weight | 1,619 Lbs (734 Kg) |
| Connection Pin | 75mm |
| **C - Model Specifications (Center Mount)** | |
| Overall Height | 55" (1397mm) |
| Overall Width | 39" (1000mm) |
| Weight | 2,044 Lbs (927 Kg) |
| Connection | Excavator Plate |

**TA60 Torque Chart (Pressure)**

| PSI (Bar) | Low Torque Ft-Lbs (Nm) | High Torque Ft-Lbs (Nm) |
|---|---|---|
| 4000 (275) | 25,491 (34,562) | 50,983 (69,124) |
| 4200 (290) | 26,766 (36,290) | 53,533 (72,581) |
| 4400 (303) | 28,041 (38,018) | 56,082 (76,037) |
| 4600 (317) | 29,315 (39,746) | 58,631 (79,493) |
| 4800 (330) | 30,590 (41,474) | 61,180 (82,949) |
| 5000 (345) | 31,864 (43,203) | 63,730 (86,406) |

**TA60 Speed Chart (Flow)**

| GPM (LPM) | High Speed RPM | Low Speed RPM |
|---|---|---|
| 70 (265) | 28 | 14 |
| 80 (303) | 31 | 16 |
| 90 (340) | 35 | 18 |
| 100 (378) | 39 | 20 |

RECOMMENDED PRIME MOVER

**Two-Speed Models Require Drain Line.**
Automatic Shift Setting is 3,500 PSI (241 Bar)


Bail Housing Model


Center Mount Model

Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.





80,300 Max Torque (Ft-Lbs) | 31 Max Speed (RPM) | 5,000 Max Pressure (PSI) | 100 Max Flow (GPM) | 20-30 Machine Size (Tons)

# TA80

| General Information | |
|---|---|
| Prime Mover Weight Class | 20 - 30 t |
| Max Hydraulic Pressure | 5,000 PSI (345 Bar) |
| Max Hydraulic Flow | 100 GPM (378 LPM) |
| Motor Ports | -20 Code 62 |
| Shift Pressure | 3,500 PSI (241 Bar) |
| Gearbox Shaft Pullout Rating | 40,000 Lbs |
| Gearbox Oil Capacity | 5.8 Gallon (22 Liter) |
| Gearbox Oil Type | SAE 80W90 |
| Output Shaft | 130mm Square |
| **B - Model Specifications (Bail)** | |
| Overall Height | 69" (1752mm) |
| Overall Diameter | 20" (508mm) |
| Weight | 1,934 Lbs (877 Kg) |
| Connection Pin | 75mm |
| **C - Model Specifications (Center Mount)** | |
| Overall Height | 61" (1549mm) |
| Overall Width | 39" (1000mm) |
| Weight | 2,357 Lbs (1,069 Kg) |
| Connection | Excavator Plate |

**TA80 Torque Chart (Pressure)**

| PSI (Bar) | Low Torque Ft-Lbs (Nm) | High Torque Ft-Lbs (Nm) |
|---|---|---|
| 4000 (275) | 32,119 (43,548) | 64,239 (87,097) |
| 4200 (290) | 33,725 (45,726) | 67,451 (91,452) |
| 4400 (303) | 35,331 (47,903) | 70,663 (95,807) |
| 4600 (317) | 36,937 (50,080) | 73,875 (100,516) |
| 4800 (330) | 38,543 (52,258) | 77,087 (104,516) |
| 5000 (345) | 40,149 (54,435) | 80,300 (108,871) |

**TA80 Speed Chart (Flow)**

| GPM (LPM) | High Speed RPM | Low Speed RPM |
|---|---|---|
| 70 (265) | 22 | 11 |
| 80 (303) | 25 | 12 |
| 90 (340) | 28 | 14 |
| 100 (378) | 31 | 16 |

RECOMMENDED PRIME MOVER

**Two-Speed Models Require Drain Line.**
Automatic Shift Setting is 3,500 PSI (241 Bar)


Bail Housing Model


Center Mount Model

Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.

104,605 Max Torque (Ft-Lbs) | 24 Max Speed (RPM) | 5,000 Max Pressure (PSI) | 100 Max Flow (GPM) | 30-45 Machine Size (Tons)

# TA100

| General Information | |
|---|---|
| Prime Mover Weight Class | 30 - 45 t |
| Max Hydraulic Pressure | 5000 PSI (345 Bar) |
| Max Hydraulic Flow | 100 GPM (378 LPM) |
| Motor Ports | -20 Code 62 |
| Shift Pressure | 3500 PSI (241 Bar) |
| Gearbox Shaft Pullout Rating | 49,450 Lbs |
| Gearbox Oil Capacity | 8.7 Gallon (33 Liter) |
| Gearbox Oil Type | SAE 80W90 |
| Output Shaft | 150mm Square |
| **C - Model Specifications (Center Mount)** | |
| Overall Height | 64" (1625mm) |
| Overall Width | 50" (1270mm) |
| Weight | 5,036 Lbs 2,284 Kg) |
| Connection | Excavator Plate |

**TA100 Torque Chart (Pressure)**

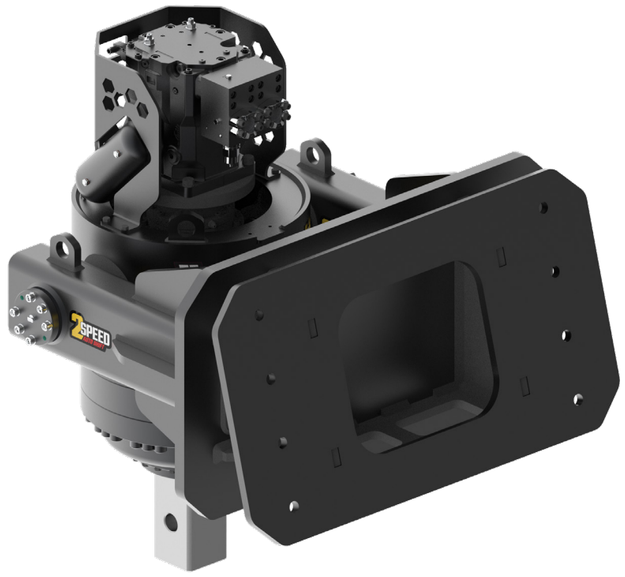
| PSI (Bar) | Low Torque Ft-Lbs (Nm) | High Torque Ft-Lbs (Nm) |
|---|---|---|
| 4000 (275) | 41,841 (56,730) | 83,683 (113,460) |
| 4200 (290) | 43,934 (59,566) | 87,868 (119,133) |
| 4400 (303) | 46,026 (62,403) | 92,052 (124,806) |
| 4600 (317) | 48,118 (65,239) | 96,236 (130,152) |
| 4800 (330) | 50,210 (68,076) | 100,420 (136,152) |
| 5000 (345) | 52,302 (70,912) | 104,605 (141,825) |

**TA100 Speed Chart (Flow)**

| GPM (LPM) | High Speed RPM | Low Speed RPM |
|---|---|---|
| 70 (265) | 17 | 8 |
| 80 (303) | 19 | 9 |
| 90 (340) | 22 | 11 |
| 100 (378) | 24 | 12 |

RECOMMENDED PRIME MOVER

**Two-Speed Models Require Drain Line.**
Automatic Shift Setting is 3,500 PSI (241 Bar)


Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.





120,251 Max Torque (Ft-Lbs) | 21 Max Speed (RPM) | 5,000 Max Pressure (PSI) | 100 Max Flow (GPM) | 35-45 Machine Size (Tons)

# TA120

| General Information | |
|---|---|
| Prime Mover Weight Class | 35 - 45 t |
| Max Hydraulic Pressure | 5,000 PSI (345 Bar) |
| Max Hydraulic Flow | 100 GPM (378 LPM) |
| Motor Ports | -20 Code 62 |
| Shift Pressure | 3,500 PSI (241 Bar) |
| Gearbox Shaft Pullout Rating | 49,450 Lbs |
| Gearbox Oil Capacity | 8.7 Gallon (33 Liter) |
| Gearbox Oil Type | SAE 80W90 |
| Output Shaft | 150mm Square |
| **C - Model Specifications (Center Mount)** | |
| Overall Height | 64" (1625mm) |
| Overall Width | 50" (1270mm) |
| Weight | 5,036 Lbs 2,284 Kg) |
| Connection | Excavator Plate |

**TA120 Torque Chart (Pressure)**

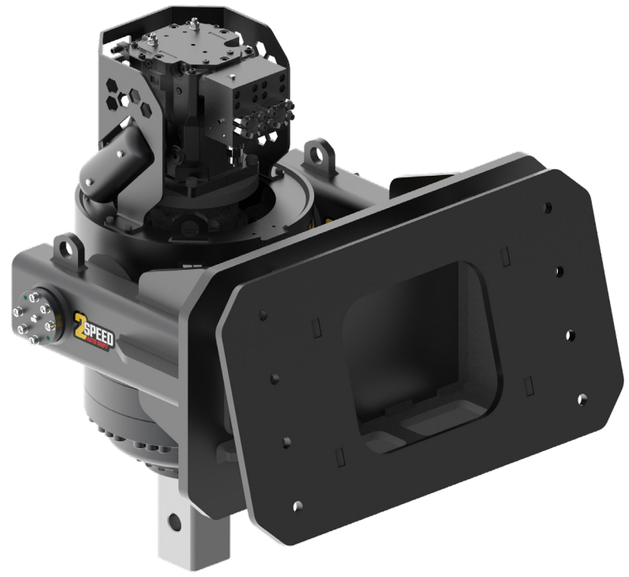
| PSI (Bar) | Low Torque Ft-Lbs (Nm) | High Torque Ft-Lbs (Nm) |
|---|---|---|
| 4000 (275) | 47,776 (64,776) | 96,201 (130,431) |
| 4200 (290) | 50,165 (68,014) | 101,011 (136,952) |
| 4400 (303) | 52,554 (71,253) | 105,821 (143,474) |
| 4600 (317) | 54,942 (74,492) | 110,631 (149,996) |
| 4800 (330) | 57,331 (77,731) | 115,441 (156,517) |
| 5000 (345) | 59,720 (80,970) | 120,251 (163,039) |

**TA120 Speed Chart (Flow)**

| GPM (LPM) | High Speed RPM | Low Speed RPM |
|---|---|---|
| 70 (265) | 15 | 7 |
| 80 (303) | 17 | 8 |
| 90 (340) | 19 | 9 |
| 100 (378) | 21 | 10 |

RECOMMENDED PRIME MOVER

**Two-Speed Models Require Drain Line.**
Automatic Shift Setting is 3,500 PSI (241 Bar)


Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.

202,678 Max Torque (Ft-Lbs) | 12 Max Speed (RPM) | 5,000 Max Pressure (PSI) | 100 Max Flow (GPM) | 45-55 Machine Size (Tons)

**Two-Speed Models Require Drain Line.**
Automatic Shift Setting is 3,500 PSI (241 Bar)

# TA200

| General Information | |
|---|---|
| Prime Mover Weight Class | 45 - 55 t |
| Max Hydraulic Pressure | 5000 PSI (345 Bar) |
| Max Hydraulic Flow | 100 GPM (378 LPM) |
| Motor Ports | -20 Code 62 |
| Shift Pressure | 3500 PSI (241 Bar) |
| Gearbox Shaft Pullout Rating | 67,400 Lbs |
| Gearbox Oil Capacity | 13.2 Gallon (50 Liter) |
| Gearbox Oil Type | SAE 80W90 |
| Output Shaft | 177mm Square |
| **C - Model Specifications (Center Mount)** | |
| Overall Height | 70" (1778mm) |
| Overall Width | 54" (1372mm) |
| Weight | 6,216 lbs (2,819 Kg) |
| Connection | Excavator Plate |

**TA200 Torque Chart (Pressure)**

| PSI (Bar) | Low Torque Ft-Lbs (Nm) | High Torque Ft-Lbs (Nm) |
|---|---|---|
| 4000 (275) | 81,071 (109,918) | 162,142 (219,836) |
| 4200 (290) | 85,125 (115,414) | 170,250 (230,828) |
| 4400 (303) | 89,178 (120,909) | 178,357 (241,819) |
| 4600 (317) | 93,232 (126,405) | 186,464 (252,811) |
| 4800 (330) | 97,285 (131,901) | 194,571 (263,803) |
| 5000 (345) | 101,339 (137,397) | 202,678 (274,795) |

**TA200 Speed Chart (Flow)**

| GPM (LPM) | High Speed RPM | Low Speed RPM |
|---|---|---|
| 70 (265) | 8 | 4 |
| 80 (303) | 9 | 5 |
| 90 (340) | 11 | 6 |
| 100 (378) | 12 | 6 |

RECOMMENDED PRIME MOVER



Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.



TA Series | Two-Speed Anchor Drive

303,835 Max Torque (Ft-Lbs) | 8 Max Speed (RPM) | 5,000 Max Pressure (PSI) | 100 Max Flow (GPM) | 55-70 Machine Size (Tons)

**Two-Speed Models Require Drain Line.**
Automatic Shift Setting is 3,500 PSI (241 Bar)

# TA300

| General Information | |
|---|---|
| Prime Mover Weight Class | 55 - 70 t |
| Max Hydraulic Pressure | 5,000 PSI (345 Bar) |
| Max Hydraulic Flow | 100 GPM (378 LPM) |
| Motor Ports | -20 Code 62 |
| Shift Pressure | 3,500 PSI (241 Bar) |
| Gearbox Shaft Pullout Rating | 67,400 Lbs |
| Gearbox Oil Capacity | 15.3 Gallon (58 Liter) |
| Gearbox Oil Type | SAE 80W90 |
| Output Shaft | 200mm Square |
| **C - Model Specifications (Center Mount)** | |
| Overall Height | 78" (1981mm) |
| Overall Width | 54" (1372mm) |
| Weight | 6,800 lbs (3,085Kg) |
| Connection | Excavator Plate |

**TA300 Torque Chart (Pressure)**

| PSI (Bar) | Low Torque Ft-Lbs (Nm) | High Torque Ft-Lbs (Nm) |
|---|---|---|
| 4000 (275) | 121,534 (164,778) | 243,068 (329,556) |
| 4200 (290) | 127,611 (173,017) | 255,223 (346,034) |
| 4400 (303) | 133,387 (181,256) | 267,375 (362,512) |
| 4600 (317) | 139,764 (189,495) | 279,529 (378,990) |
| 4800 (330) | 145,841 (197,734) | 291,682 (395,468) |
| 5000 (345) | 151,917 (205,973) | 303,835 (411,946) |

**TA300 Speed Chart (Flow)**

| GPM (LPM) | High Speed RPM | Low Speed RPM |
|---|---|---|
| 70 (265) | 5 | 3 |
| 80 (303) | 6 | 3 |
| 90 (340) | 7 | 3 |
| 100 (378) | 8 | 4 |

RECOMMENDED PRIME MOVER



Maximum efficiencies have been applied to the torque and speed charts. **Values are NOT listed at 100% 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.

# OPTIMIZED FOR ANY MAKE OR MODEL

Energi Pressure Management easily adapts to any make and model of Anchor Drive. Combining tried and true pressure monitoring with next-generation data acquisition technology, Energi-PM uses your mobile device to monitor and record helical pile installations. Features include real-time data monitoring and preformatted reports.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**Monitors and Records:**

- Calculated Torque
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- Depth
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- Time & Date
- Drive Model
- Job Notes
- Pile Names/Numbers



**Energi Wi-Fi Module Features:**

- IP67 Rated
- 40 Hour Battery Life
- Polycarbonate Housing
- Illuminated Power Button
- 100 Yards Wi-Fi Range
- Integrated Sleep Mode
- Operating Diagnostics (App)
- Internal Temp. Monitoring
- Easy Removal for Charging





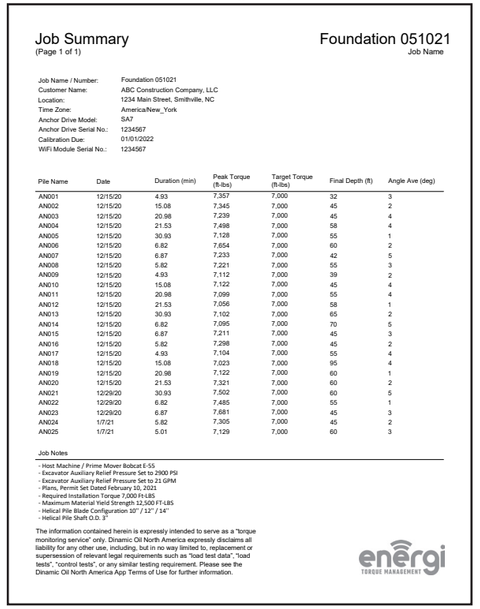
**HOW IT WORKS**
Energi-PM utilizes two pressure transducers to capture actual working pressure at the Anchor Drive. The Energi WiFi module calculates a torque value based on the differential pressure measured at the hydraulic motor of the Anchor Drive. The result is an accurate and effective method of generating differential torque for any make or model of Anchor Drive.

**EASY TO USE**
The Energi-PM mobile app is intuitive to use, and installing the IP67 rated WiFi module with it's 40-hour battery life is simple. No electrical or power supply wiring is required. Just plug and play!

**RELIABLE TECHNOLOGY**
Energi-PM uses a WiFi signal with range of 100 yards to communicate with your mobile device. Reliable communication is a must when capturing data!


All recorded data is formatted into a user-friendly preformatted PDF reports. All recorded jobs include a Summary Report which provides an overview of the entire job and Individual Pile Reports that provide in-depth installation data on each helical pile.

**Summary Report**



Job Summary
(Page 1 of 1)

Foundation 051021
Job Name

| | |
|---|---|
| Job Name / Number: | Foundation 051021 |
| Customer Name: | ABC Construction Company, LLC |
| Location: | 1234 Main Street, Smithville, NC |
| Time Zone: | America/New_York |
| Anchor Drive Model: | SA7 |
| Anchor Drive Serial No.: | 1234567 |
| Calibration Due: | 01/01/2022 |
| WiFi Module Serial No.: | 1234567 |

| Pile Name | Date | Duration (min) | Peak Torque (ft-lbs) | Target Torque (ft-lbs) | Final Depth (ft) | Angle Ave (deg) |
|---|---|---|---|---|---|---|
| AN001 | 12/15/20 | 4.93 | 7,357 | 7,000 | 32 | 3 |
| AN002 | 12/15/20 | 15.08 | 7,345 | 7,000 | 45 | 2 |
| AN003 | 12/15/20 | 20.98 | 7,239 | 7,000 | 45 | 4 |
| AN004 | 12/15/20 | 21.53 | 7,498 | 7,000 | 58 | 4 |
| AN005 | 12/15/20 | 30.93 | 7,128 | 7,000 | 55 | 1 |
| AN006 | 12/15/20 | 6.82 | 7,654 | 7,000 | 60 | 2 |
| AN007 | 12/15/20 | 6.87 | 7,233 | 7,000 | 42 | 5 |
| AN008 | 12/15/20 | 5.82 | 7,221 | 7,000 | 55 | 3 |
| AN009 | 12/15/20 | 4.93 | 7,112 | 7,000 | 39 | 2 |
| AN010 | 12/15/20 | 15.08 | 7,122 | 7,000 | 45 | 4 |
| AN011 | 12/15/20 | 20.98 | 7,099 | 7,000 | 55 | 4 |
| AN012 | 12/15/20 | 21.53 | 7,056 | 7,000 | 58 | 1 |
| AN013 | 12/15/20 | 30.93 | 7,102 | 7,000 | 65 | 2 |
| AN014 | 12/15/20 | 6.82 | 7,095 | 7,000 | 70 | 5 |
| AN015 | 12/15/20 | 6.87 | 7,211 | 7,000 | 45 | 3 |
| AN016 | 12/15/20 | 5.82 | 7,298 | 7,000 | 45 | 2 |
| AN017 | 12/15/20 | 4.93 | 7,104 | 7,000 | 55 | 4 |
| AN018 | 12/15/20 | 15.08 | 7,023 | 7,000 | 95 | 4 |
| AN019 | 12/15/20 | 20.98 | 7,122 | 7,000 | 60 | 1 |
| AN020 | 12/15/20 | 21.53 | 7,321 | 7,000 | 60 | 2 |
| AN021 | 12/29/20 | 30.93 | 7,502 | 7,000 | 60 | 5 |
| AN022 | 12/29/20 | 6.82 | 7,485 | 7,000 | 55 | 1 |
| AN023 | 12/29/20 | 6.87 | 7,681 | 7,000 | 45 | 3 |
| AN024 | 1/7/21 | 5.82 | 7,305 | 7,000 | 45 | 2 |
| AN025 | 1/7/21 | 5.01 | 7,129 | 7,000 | 60 | 3 |

Job Notes
- Host Machine / Prime Mover Bobcat E-55
- Excavator Auxiliary Relief Pressure Set to 2900 PSI
- Excavator Auxiliary Relief Pressure Set to 21 GPM
- Plans, Permit Set Dated February 10, 2021
- Required Installation Torque 7,000 Ft-LBS
- Maximum Material Yield Strength 12,500 FT-LBS
- Helical Pile Blade Configuration 10" / 12" / 14"
- Helical Pile Shaft O.D. 3"



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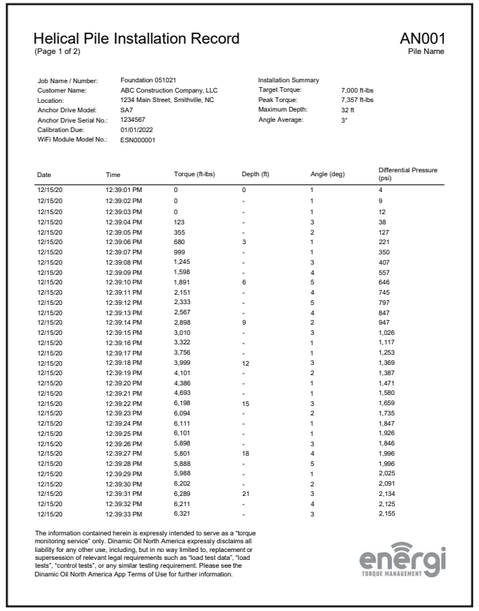
**Individual Pile Report**



Helical Pile Installation Record
(Page 1 of 2)

AN001
Pile Name

| | | | |
|---|---|---|---|
| Job Name / Number: | Foundation 051021 | Installation Summary | |
| Customer Name: | ABC Construction Company, LLC | Target Torque: | 7,000 ft-lbs |
| Location: | 1234 Main Street, Smithville, NC | Peak Torque: | 7,357 ft-lbs |
| Anchor Drive Model: | SA7 | Maximum Depth: | 32 ft |
| Anchor Drive Serial No.: | 1234567 | Angle Average: | 3° |
| Calibration Due: | 01/01/2022 | | |
| WiFi Module Model No.: | ESN000001 | | |

| Date | Time | Torque (ft-lbs) | Depth (ft) | Angle (deg) | Differential Pressure (psi) |
|---|---|---|---|---|---|
| 12/15/20 | 12:39:01 PM | 0 | 0 | 1 | 4 |
| 12/15/20 | 12:39:02 PM | 0 | - | 1 | 9 |
| 12/15/20 | 12:39:03 PM | 0 | - | 1 | 12 |
| 12/15/20 | 12:39:04 PM | 123 | - | 3 | 38 |
| 12/15/20 | 12:39:05 PM | 355 | - | 2 | 127 |
| 12/15/20 | 12:39:06 PM | 680 | 3 | 1 | 221 |
| 12/15/20 | 12:39:07 PM | 999 | - | 1 | 350 |
| 12/15/20 | 12:39:08 PM | 1,245 | - | 3 | 407 |
| 12/15/20 | 12:39:09 PM | 1,598 | - | 4 | 557 |
| 12/15/20 | 12:39:10 PM | 1,891 | 6 | 5 | 646 |
| 12/15/20 | 12:39:11 PM | 2,151 | - | 4 | 745 |
| 12/15/20 | 12:39:12 PM | 2,333 | - | 5 | 797 |
| 12/15/20 | 12:39:13 PM | 2,567 | - | 4 | 847 |
| 12/15/20 | 12:39:14 PM | 2,898 | 9 | 2 | 947 |
| 12/15/20 | 12:39:15 PM | 3,010 | - | 3 | 1,026 |
| 12/15/20 | 12:39:16 PM | 3,322 | - | 1 | 1,117 |
| 12/15/20 | 12:39:17 PM | 3,756 | - | 1 | 1,253 |
| 12/15/20 | 12:39:18 PM | 3,999 | 12 | 3 | 1,369 |
| 12/15/20 | 12:39:19 PM | 4,101 | - | 2 | 1,387 |
| 12/15/20 | 12:39:20 PM | 4,386 | - | 1 | 1,471 |
| 12/15/20 | 12:39:21 PM | 4,693 | - | 1 | 1,580 |
| 12/15/20 | 12:39:22 PM | 6,198 | 15 | 3 | 1,659 |
| 12/15/20 | 12:39:23 PM | 6,094 | - | 2 | 1,735 |
| 12/15/20 | 12:39:24 PM | 6,111 | - | 1 | 1,847 |
| 12/15/20 | 12:39:25 PM | 6,101 | - | 1 | 1,926 |
| 12/15/20 | 12:39:26 PM | 5,898 | - | 3 | 1,846 |
| 12/15/20 | 12:39:27 PM | 5,801 | 18 | 4 | 1,996 |
| 12/15/20 | 12:39:28 PM | 5,888 | - | 5 | 1,996 |
| 12/15/20 | 12:39:29 PM | 5,988 | - | 1 | 2,025 |
| 12/15/20 | 12:39:30 PM | 6,202 | - | 2 | 2,091 |
| 12/15/20 | 12:39:31 PM | 6,289 | 21 | 3 | 2,134 |
| 12/15/20 | 12:39:32 PM | 6,211 | - | 4 | 2,125 |
| 12/15/20 | 12:39:33 PM | 6,321 | - | 3 | 2,155 |



energi TORQUE MANAGEMENT

# RELIABLE. EFFECTIVE. SIMPLE.

The Pressure Relief and Differential Kit (PRD Kit) provides the ability to monitor and calculate the differential pressure applied to the Anchor Drive. Two liquid-filled gauges mounted to an aluminum block with a relief valve can be used with any prime mover and single-speed make/model of Anchor Drive.

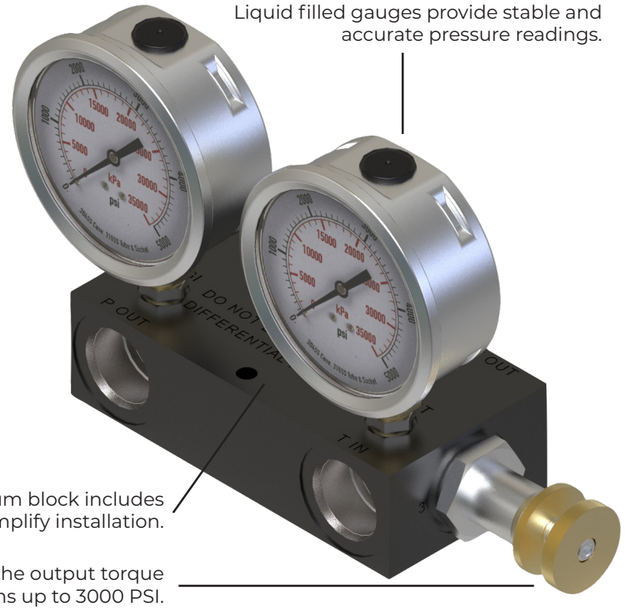
## CONNECTING TO THE POWER SOURCE

Connect the pressure hose from the parent machine (power source) to the port marked **“P-IN”**.

Connect the port marked **“P-OUT”** to the pressure side of the drive motor.

Connect the tank hose from the parent machine (power source) to the port marked **“T-OUT”**.

Connect the port marked **“T-IN”** to the tank side of the drive motor




Liquid filled gauges provide stable and accurate pressure readings.

The anodized aluminum block includes mounting holes to simplify installation.

The integrated relief valve allows the operator to control the output torque during helical pile installations. Available for applications up to 3000 PSI.

**Ready to Upgrade?** Take control of the job site and your valuable installation data with Energi Pressure Management.


This next generation system easily adapts to any make and model of Anchor Drive. Combining tried and true pressure monitoring with next-generation data acquisition technology.

Energi-PM uses your mobile device to monitor and record helical pile installations. Features include real-time data monitoring and preformatted reports.

# MODULAR DESIGN + EXTRA REACH

Dinamic Oil's innovative Tele-Mount is the ultimate utility tool for Anchor Drive attachments. Not only does it have industry first features like boom rollers, two Drive connection points, and integrated transport stabilizers it provides excellent operator visibility. Safety and productivity are maximized!

**ONE MOUNT - TWO MACHINES**

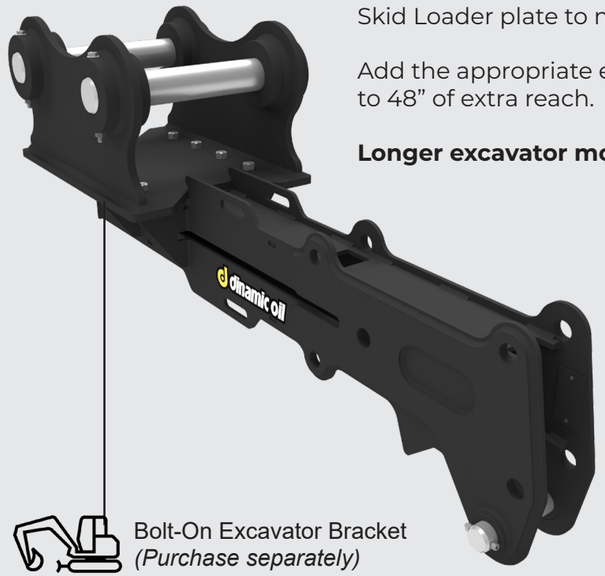
The Tele-Mount is designed to be adaptable and can be used in three different configurations on two different prime movers making this the most modular Anchor Drive mount available in the helical pile installation industry.

Ideal mounting solution for contractors that utilize Skid Steer Loaders and Excavators when installing piles.


The Tele-Mount's extended reach is ideal for installing long pile sections and in areas where the prime mover can not be close to the pile due to soil conditions or obstructions.








Bolt-On Excavator Bracket
*(Purchase separately)*

The Jib Mount section of the Tele-Mount can be removed from the Skid Loader plate to make a fully functional excavator mount.

Add the appropriate excavator mounting bracket, quickly gaining up to 48" of extra reach.

**Longer excavator mount = longer pile installation!**


## INNOVATIVE FEATURES

Up to 14 feet of pin height when used on large skid steer loaders.

Removable stabilizers are included – no need to pay extra for a storage frame.

Built-in rollers allow the telescopic boom to slide easily inside the receiver.

Telescopic boom can be pinned at various lengths to make installation heights manageable.

Safety stop feature prevents the boom from accidental separation.

Excavator mounting bracket installs easily and quickly with universal bolt plate.

# BIG PERFORMANCE. SMALL FOOTPRINT

The multi-position compact-mount is designed with the hardworking operator in mind. Ideally suited for tight access job sites requiring long pile sections, the Dinamic Oil compact-mount improves productivity with up to 10 feet of ground clearance and the unique center gimbal mount lets the drive head install pile sections at any angle.



Available for universal mini-skid loader quick attach and Bobcat® Bob-Tach® attachment plates.

The innovative mounting system boasts industry-leading ground clearance in a compact frame for easy transportation and improved maneuverability on tight access job sites.

With various Drive attachments available and universal mounting plates for quick hookup, this Anchor Drive system can tackle any job.

## THE TORQUE YOU WANT. THE SIZE THE JOB DEMANDS.

The multi-position compact-mount provides ultimate interchangeability and can be outfitted with five different Anchor Drive models.

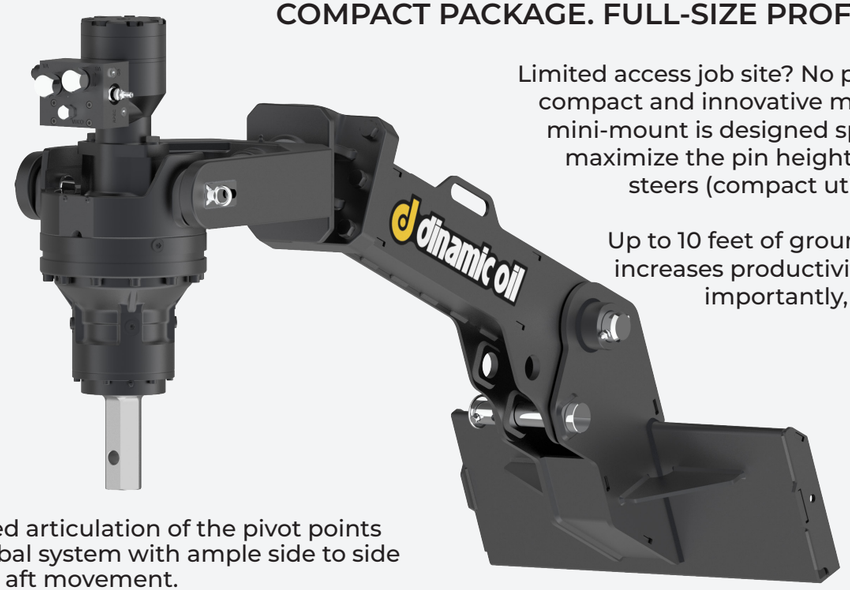
| Model | Torque | Speed | Pressure | Flow | Output Shaft |
|---|---|---|---|---|---|
| **SA3** | 3,297 (4,471) | 28 | 2,500 (172) | 15 (56) | 2” Hex |
| **SA5** | 5,104 (6,919) | 30 | 2,500 (172) | 25 (94) | 2” Hex |
| **SA6** | 6,253 (8,477) | 25 | 2,500 (172) | 25 (94) | 2” Hex |
| **SA7** | 7,381 (10,007) | 21 | 2,500 (172) | 25 (94) | 2” Hex |
| **SA8** | 8,119 (11,007) | 20 | 2,750 (189) | 25 (94) | 2-1/2” Hex |

Imperial values: Ft-Lbs, PSI, GPM. Metric values: Nm, Bar, LPM shown in parenthesis (*)



Mounting Kit | Compact SSL Mount

## COMPACT PACKAGE. FULL-SIZE PROFITABILITY




Limited access job site? No problem. The compact and innovative multi-position mini-mount is designed specifically to maximize the pin height of mini skid steers (compact utility loaders).

Up to 10 feet of ground clearance increases productivity and, most importantly, profitability.

The combined articulation of the pivot points create a gimbal system with ample side to side and fore and aft movement.


Leveraging the multi-position feature of the mini-mount can quickly reduce setup/tear-down time and decrease transportation costs.

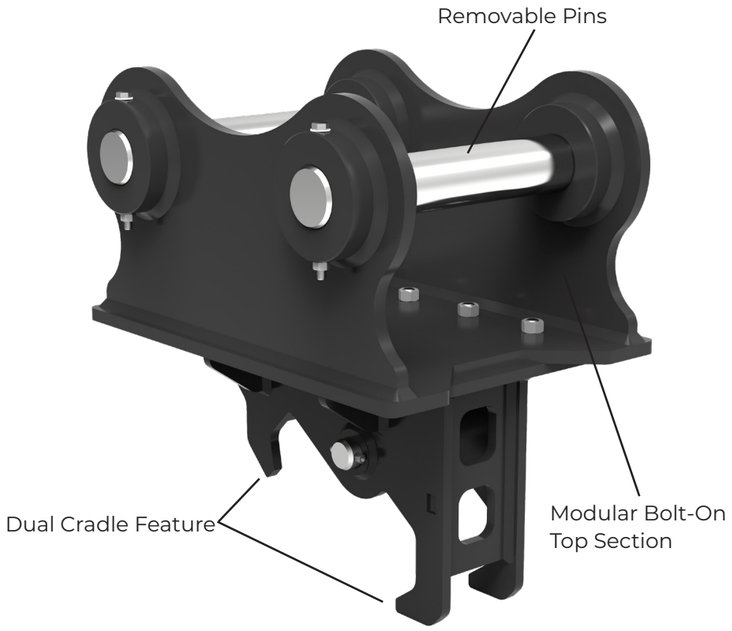
The entire Drive and Mount fit easily in the bed of a full-size truck.

Pull one pin and mount transforms from transport to operational position.

**Simple, Fast, Effective!**

# CREATIVE MOUNTING SOLUTION

The Saber Mount is designed to take the demanding torsional loads of helical pile installation. All Saber mounts provide full articulation allowing for accurate pile placement and installation. The integrated dual cradle feature provides user-friendly and productive Anchor Drive operation.


## INNOVATIVE FEATURES

The removable top section allows the Saber Series to be used on a wide range of prime movers.

The pin-on link arm allows for full Anchor Drive articulation.

The dual cradle feature can position the Anchor Drive in ideal positions to improve pile connections and stops the Drive from swinging during transport.

The geometry of the dual cradle allows the Drive to be positioned parallel with the ground making pile connections safe and easy.





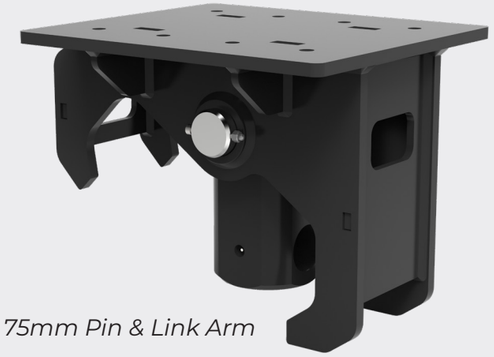
## 45MM SABER MOUNT

*45mm Pin & Link Arm*

**Compatible Anchor Drive Models:**
SA5, SA6, SA7, SA8, SA12, SA16, SA20, TA16, TA20

**Torque Capacity:** 20,000 ft-lbs (27,116 Nm)

## 75MM SABER MOUNT



*75mm Pin & Link Arm*

**Compatible Anchor Drive Models:**
SA30, TA30, TA40, TA60, TA80

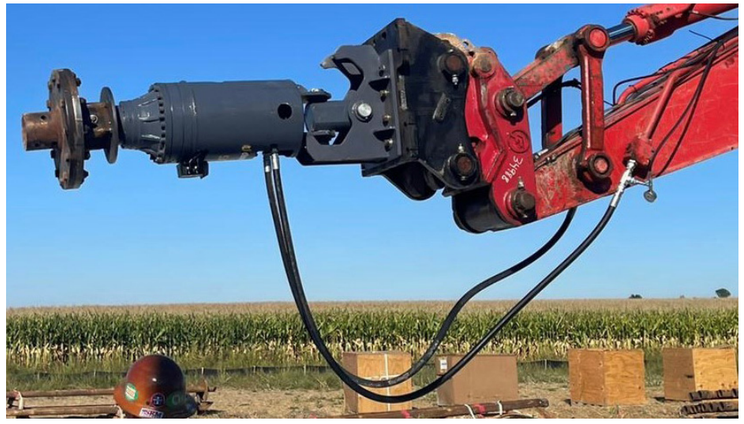
**Torque Capacity:** 80,000 ft-lbs (108,465 Nm)

**ULTIMATE ADAPTABILITY** - Designed to fit any type of backhoe or excavator.

**PILE CONNECTIONS MADE EASY**
The Saber Mount gives the operator complete control of the job site and the pile connection.

Position the Anchor Drive in any position to make quick work of pile connections.

The Anchor Drive can be positioned with the shaft pointed away or towards the operator using the front or rear cradle features.



# Excavator Mounting Kit Information

Dinamic Oil can provide excavator ear mounting brackets upon request. Below is an example of the information we require to ensure proper fitment of the customers excavator.

Please use the web link provided to download the necessary form and submit it to your Regional Sales Manger for quote and ordering.

**https://dinamicoil.us/wp-content/uploads/2022/07/Excavator-Bucket-Mnt-Form_061722.pdf**

**Example of the information that is required on the form:**

Date

Customer Name

Excavator Model

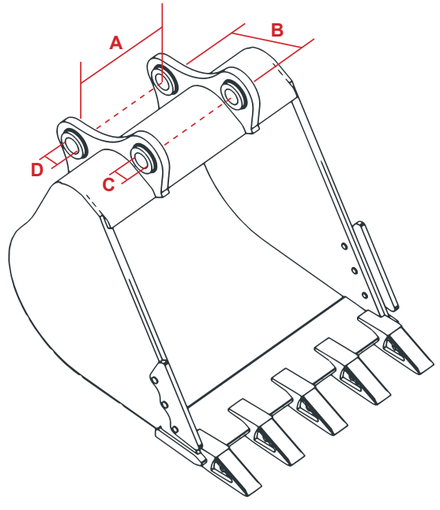
Quick Coupler Model

Dimension A (Bushing to Bushing Width)

Dimension B (Center to Center)

Dimension C (Front Diameter)

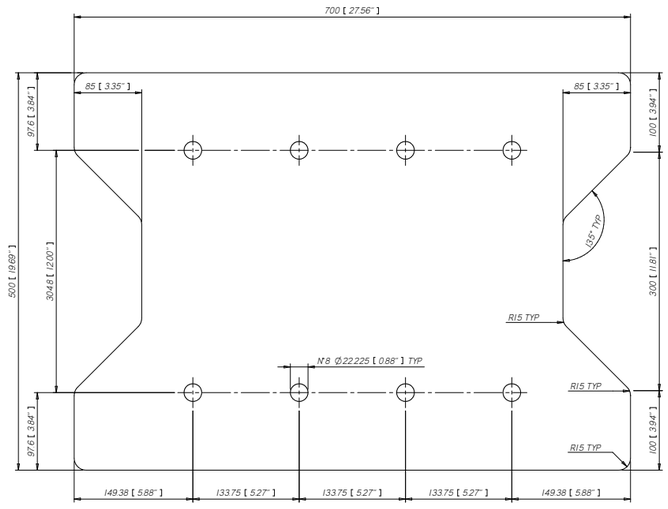
Dimension D (Back Diameter)




# Universal Mounting Plate Information

Universal plate is compatible with all Saber Series mounting brackets and the Tele-Mount SSL mount and Jib Attachment.

*The dimensional drawing provides the necessary information when an end user is building their own mounting bracket.*






# Warranty Information

Dinamic Oil North America (DONA) warrants its gearbox for a period of twenty-four (24) months and twelve (12) months on the hydraulic motor from invoice date to the original user.

DONA warranty covers faulty workmanship and defective parts manufactured by DONA. The warranty does not extend to transportation cost of parts, nor does it cover consequential loss or damage to prime mover equipment. Dinamic Oil Construction Attachments must be operated in accordance with the recommended procedures and within the specified operating parameters, both on the unit and contained in the operating manual. DONA will not be responsible for or accept any charges for work carried out by any repairs, or for any charges for any spare parts fitted to any DONA products without written approval from DONA. This warranty is void if field repairs have been made to the hydraulic motors, gearboxes and controls without written approval. The complete unit must be available for inspection in its original but alleged failed condition.

Dinamic Oil North America reserves the right to make design, specification and price changes without notice, and obligations to the effect of such changes.

LIMITATION OF LIABILITY - DONA takes no responsibility for Goods selection, operation, and use, regardless of any recommendations or suggestions made by the DONA. Buyer shall make selections based upon its own analysis with regard to function, material compatibility, fitness for use or intended purpose, and Goods ratings. Any such analysis, including testing, shall be the sole responsibility of Buyer. Proper installation, operation, and maintenance are solely the responsibility of Buyer or its customer. Any specifications listed in DONA's datasheets, catalog, and website are for reference only and are subject to change without notice.

## RETURNED GOODS (RGA)

Dinamic Oil reserves the right to determine whether products claimed to be defective shall be inspected by our personnel in the field or returned to the factory. If determined to be defective in material or workmanship, the product will be replaced or a credit issued at the option of Dinamic Oil North America.

All returns for replacement or credit MUST be accompanied by a RGA number. **Products returned without an RGA number will be rejected and returned to the sender freight collect.** All returns must be shipped "prepaid". Products shipped "collect" will be refused. Proof of purchase such as invoice number must accompany returns. **All RGA's must be returned within 30 days of the request.**

## PARTS / SERVICE

Minimize downtime and maintain peak performance by choosing genuine Dinamic Oil parts and maintenance kits for your gear products. For assistance, please contact us:

EMAIL: service.usa@dinamicoil.com
PHONE: 704.587.4600

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