



DV-30

**PENGO**

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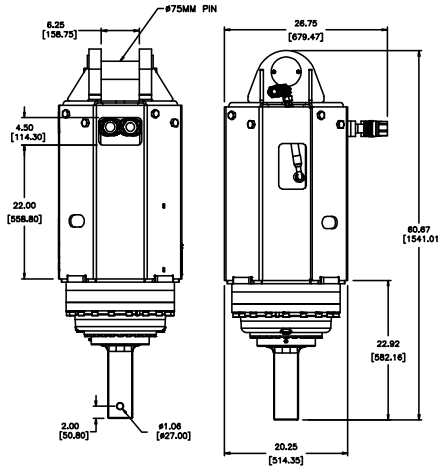


The High Speed DV-30 Drive is compatible with Pengo's Excavator Auger system. The drive will drill holes up to 20' deep and 6' in diameter in rock, dirt and frozen ground. *Note that both theoretical and actual torque values are listed, but that PENGO recommends to go by ACTUAL torque listings.*

EXCAVATOR  
SIZE: 20T-30T  
MAX HOLE  
SIZE: 6' (72")  
MAX HOLE  
DEPTH: 20' (240")

**4" SQUARE CONNECTION**

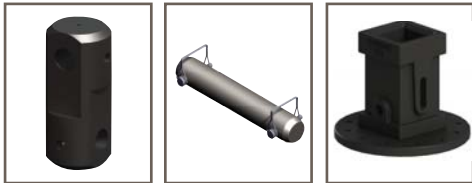
Part No. 610384 15T-25T Excavator 1250 lbs. (566 Kg)



Drive will start in high speed and will build torque as drilling resistance increases.

**Variable-Speed Models Must Have a Drain Line.**

**ACCESSORIES:**



**75mm Link Arm**  
610202  
137 lbs.

**75mm Pin Assembly**  
660554  
10 lbs.

**4" Square Drive Tool**  
660951  
42 lbs.



**TruLink Class 2**  
with 4" Monitor Part No. 615001  
with 8" Monitor Part No. 615003



**HYDRAULIC MOTOR INFORMATION**

Displacement	10.06 cu/in (165cc)
Motor Type	Variable Speed Bi-Directional
Motor Output Shaft	8/16 Spline 13T
Motor Mount	SAE - D 2 Bolt
Motor Ports	Radial (Quick Coupler)
Cross Over Pressure Relief	None

**PLANETARY GEARBOX INFORMATION**

Gearbox Type	Planetary Three Stage
Reduction Ratio	69.70:1
Output Shaft	4" Square
Internal Oil Capacity	3.1 Gallons
Oil Type	SAE 80W90 GL-5
Shaft Pull Out (lbs.)	60,000 lbs.

**REFERENCE SPEED CHART**

Flow GPM (Liter)	Low (rpm)	High (rpm)
40 (151)	11	27
45 (169)	13	31
50 (188)	14	34
55 (206)	15	37
60 (225)	17	41

Note: Revolution Drive units are not recommended for DTH and will not be covered under warranty for damage due to down the hole drilling.

**BELOW CHART FOR LOW TORQUE/HIGH SPEED OUTPUT**

**REFERENCE TORQUE CHART (LT / HS)**

Pressure (psi)	THEORETICAL Torque (ft/lb)	ACTUAL Torque (ft/lb)
2000	7675	6524
2200	8442	7176
2400	9210	7829
2600	9978	8481
2800	10745	9133
3000	11513	9786
3200	12280	10438
3400	13048	11091
3600	13815	11743
3800	14583	12396
4000	15350	13048

**BELOW CHART FOR HIGH TORQUE/LOW SPEED OUTPUT**

**REFERENCE TORQUE CHART (HT / LS)**

Pressure (psi)	THEORETICAL Torque (ft/lb)	ACTUAL Torque (ft/lb)
2000	18624	15830
2200	20486	17413
2400	22349	18997
2600	24211	20579
2800	26073	22162
3000	27936	23746
3200	29798	25328
3400	31661	26912
3600	33523	28495
3800	35386	30078
4000	37248	31661

DRILLING DRIVES

**CARRIER GUIDE:**



Pengo lists output speeds at both theoretical and actual. Actual torque numbers are NOT listed at 100% efficiency. Maximum efficiencies have been applied to the torque and speed charts according to the manufacturer's recommendations. Speed and torque output are dependent on the overall system efficiencies associated with the prime movers hydraulic system. When the purchaser is determining criteria for specific applications please contact Pengo. Pengo has made every attempt to present accurate and suitable information published in this document. This document should be used for information and comparative purposes only. When application-specific information is required, please contact Pengo.

Images not to scale.

# EXCAVATOR AUGER SYSTEM



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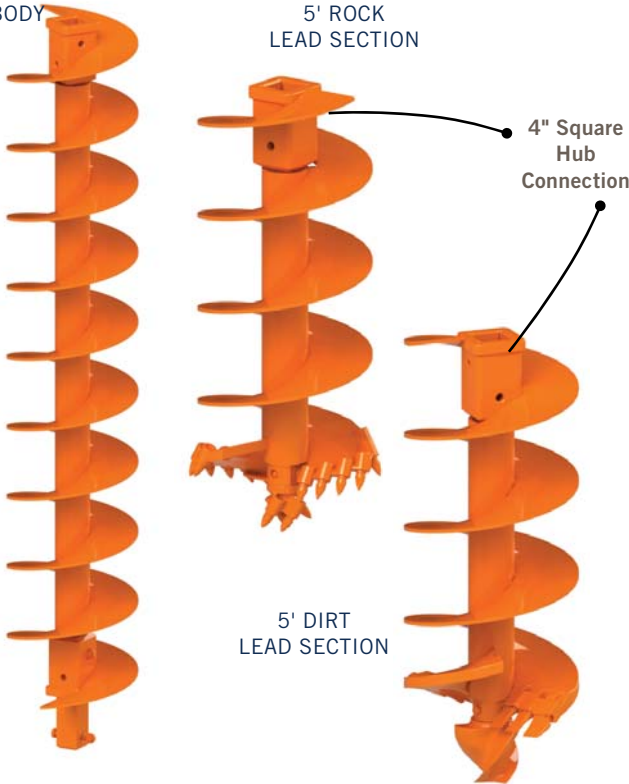
EXCAVATOR AUGERS

FLIGHT BODY

5' ROCK  
LEAD SECTION

4" Square  
Hub  
Connection

5' DIRT  
LEAD SECTION



**FLIGHT** | 5', 10' OR 20', S-400

ITEM	DIA.	5' P/N	10' P/N	20' P/N
FEX-16	16	165759	165712	165719
FEX-18	18	165762	165713	165720
FEX-20	20	165763	165714	165721
FEX-24	24	165764	165715	165722
FEX-30	30	165765	165592	165723
FEX-36	36	165766	165716	165724
FEX-42	42	165767	165717	165725
FEX-48	48	165768	165718	165726

ROCK LEAD -S400	DIA.	PART NO.	DIRT LEAD -S400	DIA.	PART NO.
EXC ROCK LEAD	16	165700	EXC DIRT LEAD	16	165706
EXC ROCK LEAD	18	165701	EXC DIRT LEAD	18	165707
EXC ROCK LEAD	20	165702	EXC DIRT LEAD	20	165708
EXC ROCK LEAD	24	165584	EXC DIRT LEAD	24	165585
EXC ROCK LEAD	30	165587	EXC DIRT LEAD	30	165588
EXC ROCK LEAD	36	165703	EXC DIRT LEAD	36	165709
EXC ROCK LEAD	42	165704	EXC DIRT LEAD	42	165710
EXC ROCK LEAD	48	165705	EXC DIRT LEAD	48	165711

## REORDER PARTS:



**TF-1000**  
137348  
43 lbs.



**2.5 Adapter**  
151598  
17.84 lbs.  
use with TF-1000



**2070 Dirt Fas-N-Lok Tooth**  
140002  
2 lbs.  
bucket qty. 20



**2072 Dirt Fas-N-Lok Tooth**  
140000  
2.3 lbs.  
bucket qty. 20



**WA-70 Pocket**  
158120  
2 lbs.



**C31-HD 2.5" Stem**  
135913  
2.5 Pin/Washer  
30 lbs.



**2.5 Adapter**  
151598  
6" OD  
17.84 lbs.  
use with C31HD



**SR-100 Tooth**  
850201  
38.5 lbs.  
bucket qty. 35



**S-31HD Tooth**  
850210  
38.5 lbs.  
bucket qty. 35



**S-31 Tooth**  
850208  
37 lbs.  
bucket qty. 35



**P-30 Holder**  
850224  
31.2 lbs.  
bucket qty. 12

**STRATA**  
DRILLING GRADE CARBIDE



Flight Section Overall Lengths: 5', 10' & 20'  
Lead Section Overall Length: 5'  
Standard Flight Thickness: 1/2"  
OD: 3 1/2" OD x .300" Wall  
Diameters Available: 16" to 48"

This addition to the excavator line of augers to be compatible was built to be compatible with the larger Revolution Series drilling drives. This auger system allows you to "build your own" auger by selecting the flight length and either a rock or dirt lead.

The rock lead is built with Strata® drilling grade carbide teeth which provide superior wear in tough drilling conditions.

The dirt lead is built with the patented TriFlow pilot bit and Pengo's own Fas-N-Lok dirt teeth.

When looking for the complete excavator auger and drive package, select Pengo.

Note: For use with the Revolution DV-30.

CARRIER GUIDE:



The above conical tooth part numbers are for buckets not each. When ordering buckets you may use these numbers.

Images not to scale.

STANDARD AUGERS LISTED ABOVE - Special Center Shafts and Custom Orders Available.  
Custom orders cannot be canceled and are non-returnable.