

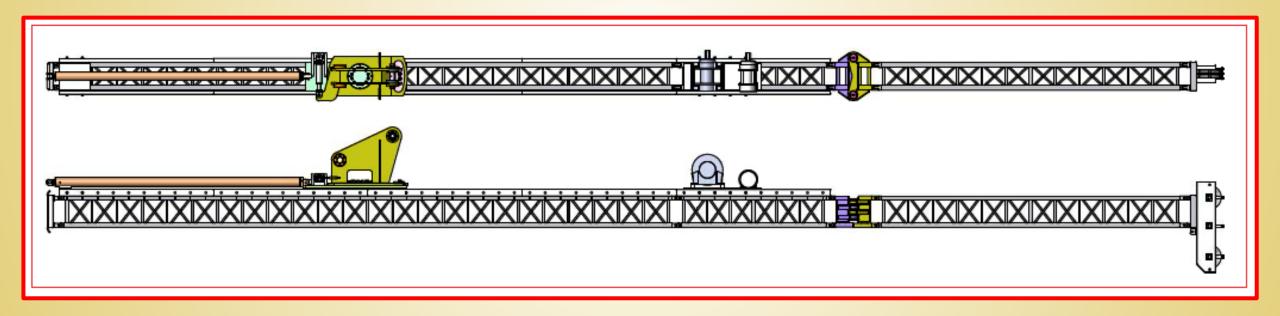
### INTRODUCING THE APE EXCAVATOR PILEDRIVING MAST SYSTEM

Revolutionizing the Piledriving Industry

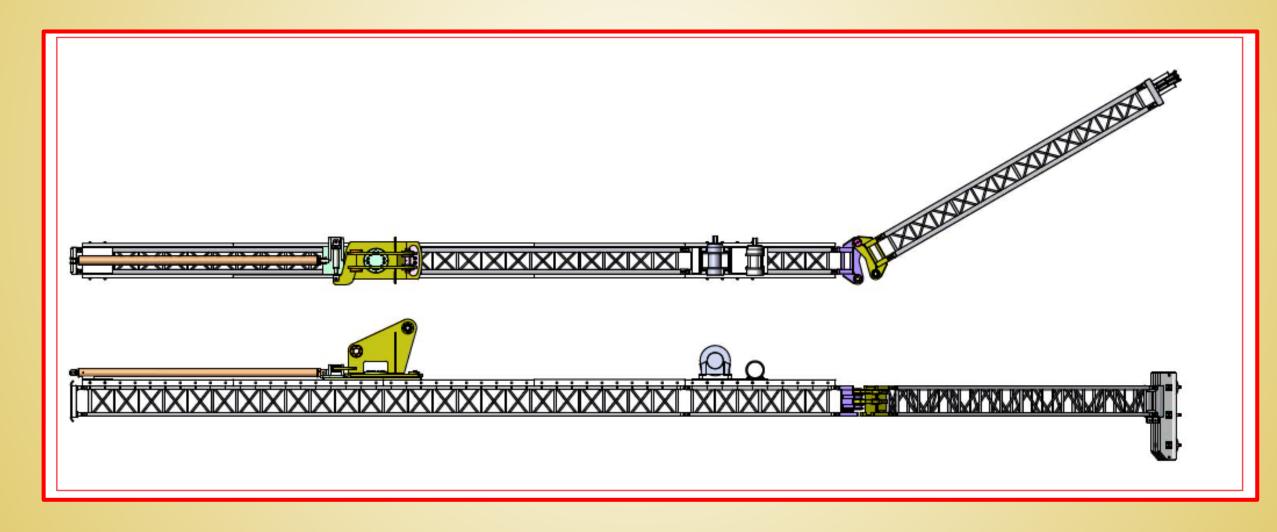
One Pile at a Time

#### **APE ST75 Excavator Mast System** Headblock The APE ST75 Rooster Sheave 20' Mid Standard **Excavator Mast System** can be customized to fit Dual Winch Package w/ Sled just about any size M25 Winch & M18 Winch excavator. **Boon Point Connector** Folding Hinge ASM w/ Sled and Hydraulic Manifold Assemby Vertical Travel Cyl. 40' Mid Standard w/ 30' Pin-up Rail Excavator Control Package M25 Crowd Winch Vertical Travel Sled Includes Cyl. Steady Sled - Universal Sled -Foot Block

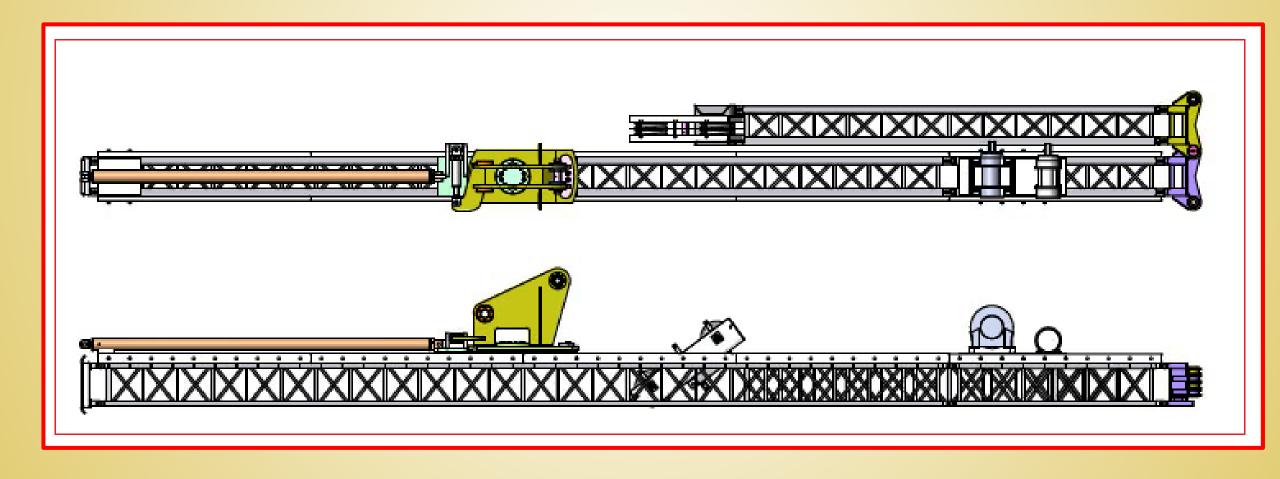
### Fully Extended Example

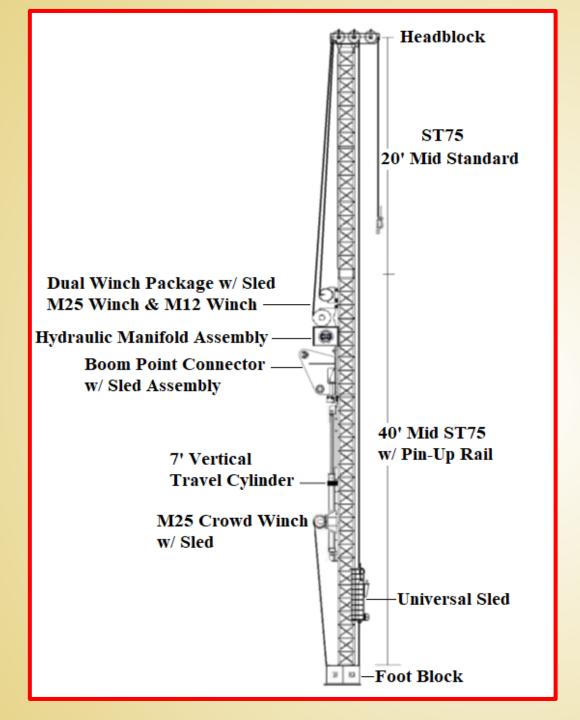


### Leader Folding Hinge



### Leader Folded for Transport





# Leader Components

Universal Boom Point Connector with Dual Cylinder 3° side tilt action and ST Leader Sled

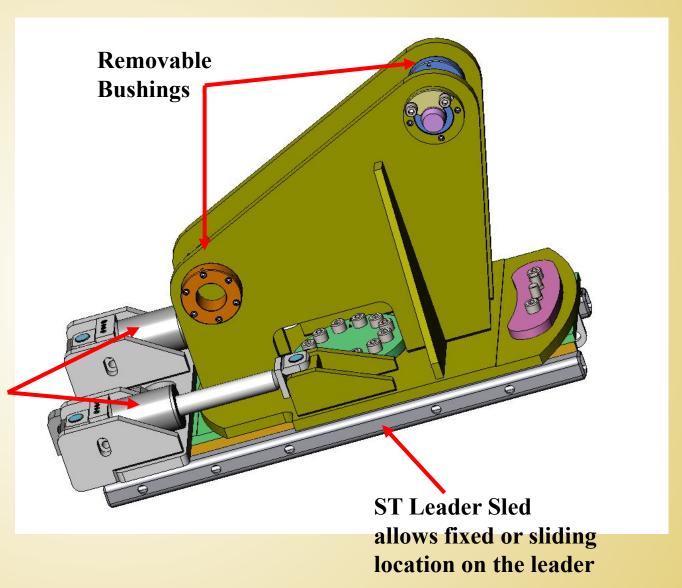
#### Note:

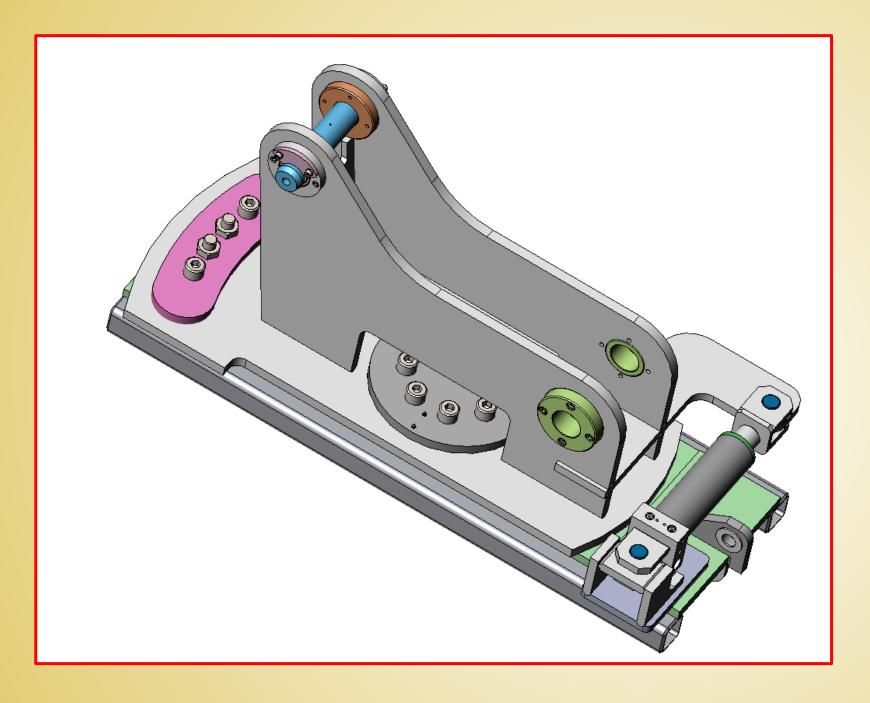
This Boom Point Connect has removable bushing that can be made for just about any excavator making this a universal fit item.

Note: This is a Heavy-Duty Boom Point Connector for extended Leader Systems and the larger size Excavators such as the JD670 or the Cat 374.

Dual Cylinder

3-degree tilt cylinders



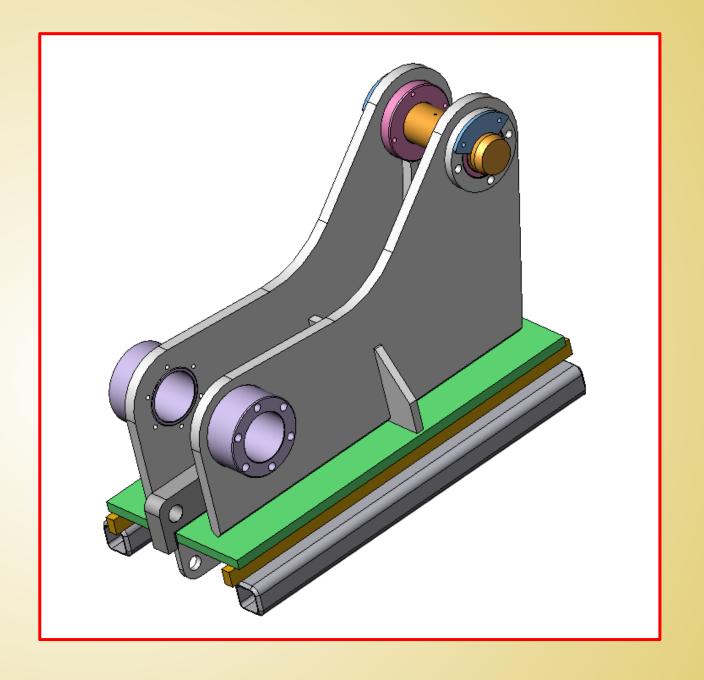


This is a smaller, Light Duty Universal Boom point connector that works on most systems up to a Cat 349 or Komatsu PC490.

This is a single cylinder, 3° side tilt Boom Point Connector with removable bushings for a Universal fit for different size and model excavators.

APE light duty Universal Boom Point Connector fits up to a 100K class excavator and does not boast a side tilt option.

Note that this Boom Point Connector does have removable bushings to fit different size and makes excavators.



#### **Manifold Assemblies**

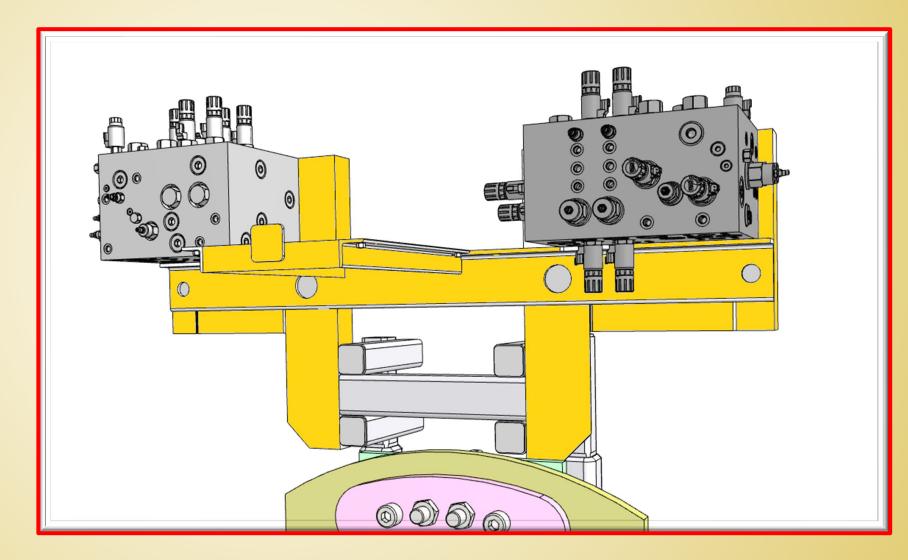
APE has two different versions of the Hydraulic Manifold Assemblies.

#### **Dual Full-Service Manifold**

This manifold does it all.

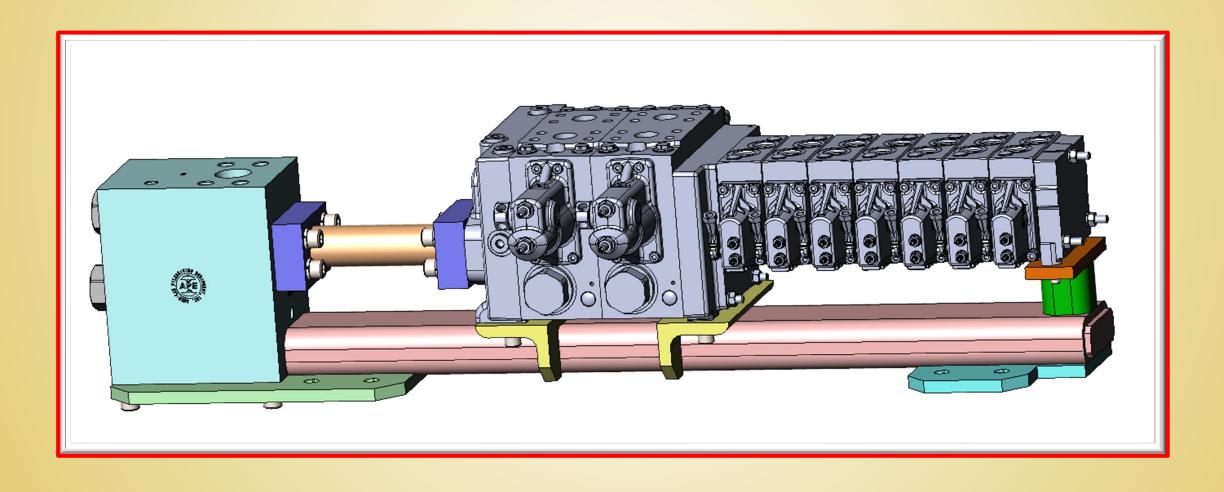
It operates all the winches, the vertical travel leader cylinder as well as all the different tools that can be used to run off the excavator hydraulics such as HD Drills, Vibratory Driver/ Extractors, Top Drive Augers, Hydraulic Impact Hammers or Diesel Hammer Hydraulic trip system.

Dual Full-Service Manifold ASM does it all.
Operates all winches, hydraulic cylinders and all tools compatible with the Excavator Hydraulic System.



The APE Danfoss System allows operations of chosen mast functions such as vertical travel, main and axillary winch operation, crowd winch operation and side tilt operation.

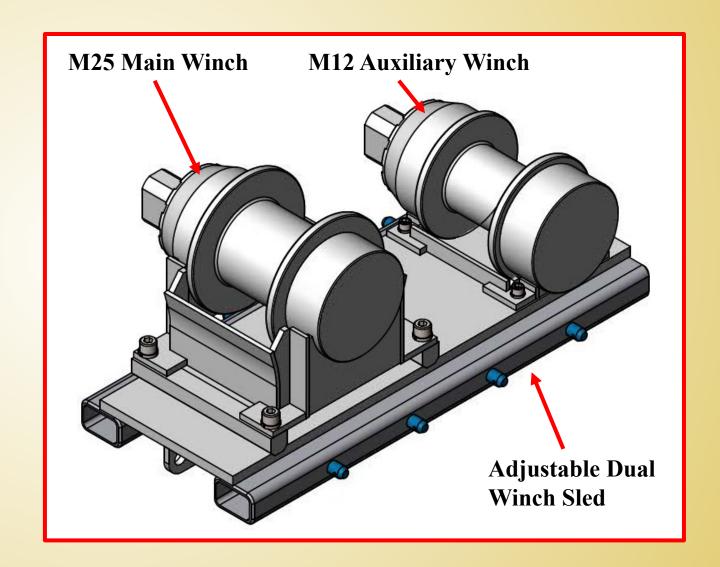
This manifold system is not designed to operate the tool such as a vibro, drill or Hydraulic Impact Hammer. It is selective.



#### **Dual Winch Package**

APE uses a Pull Master M25 for the main winch and a Pull Master M12 for the Auxiliary winch to complete the package.

We mount these on a ST Leader sled for ease of location on the leader.

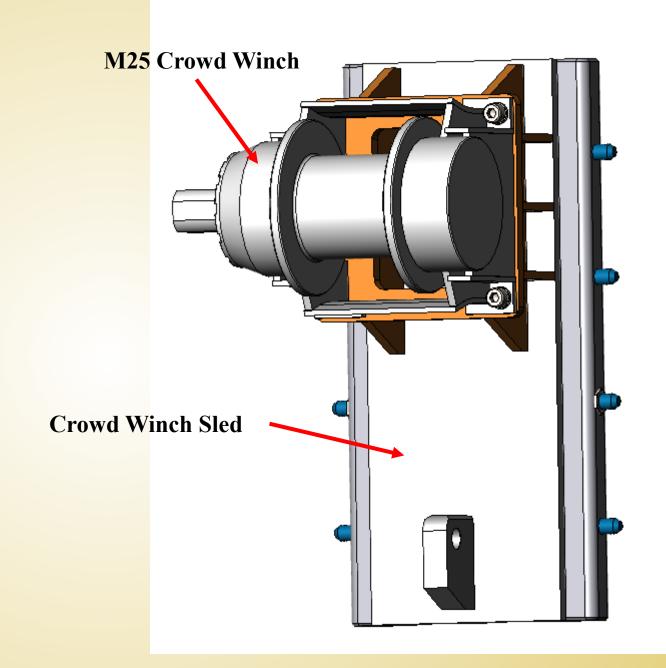


#### **Crowd Winch Assembly**

This crowd winch assembly is made up of a Pull Master M25 winch on a raised platform with an adjustable skid for the ST Leader System.

It enables the vertical travel cylinder to be in operation while crowding with the tool.

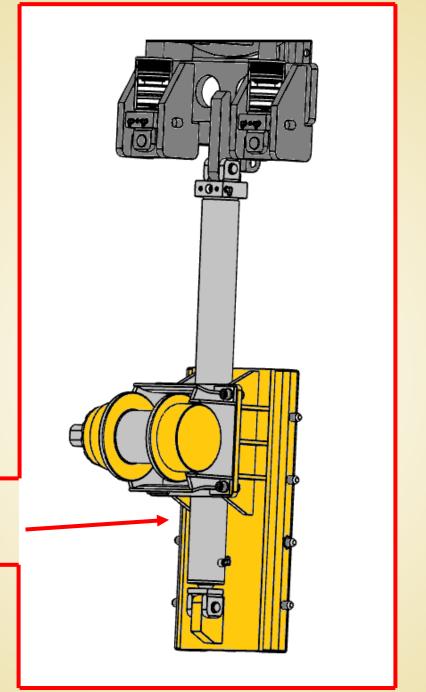
Tools that would be used with this crown system are a vibro or a drill.

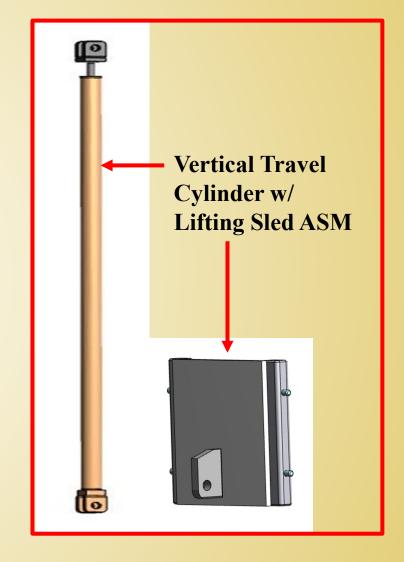


Vertical Travel Cylinder allows you to raise and lower the mast system 7'- 6".

It can be used with or without the crowd winch.

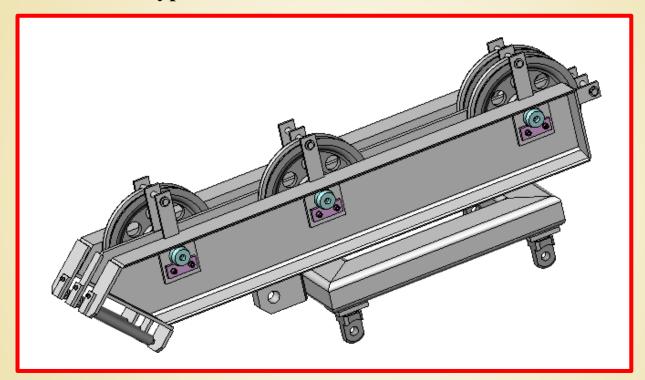
Vertical Travel Cylinder with Crowd Winch ASM



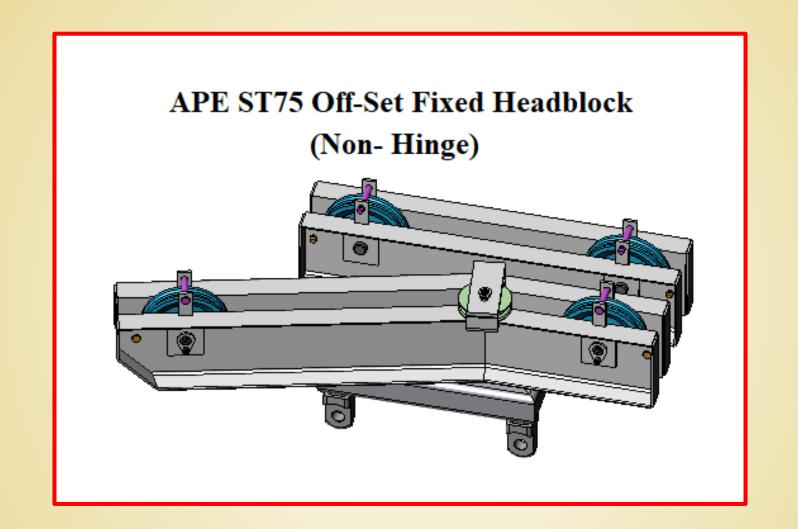


### **Headblock Assemblies**

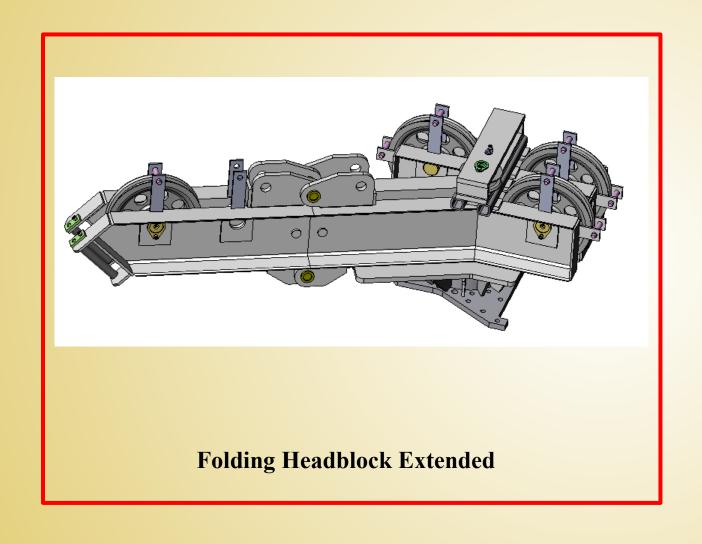
APE Offers two different types of Headblock Assemblies to fit the need of the application.

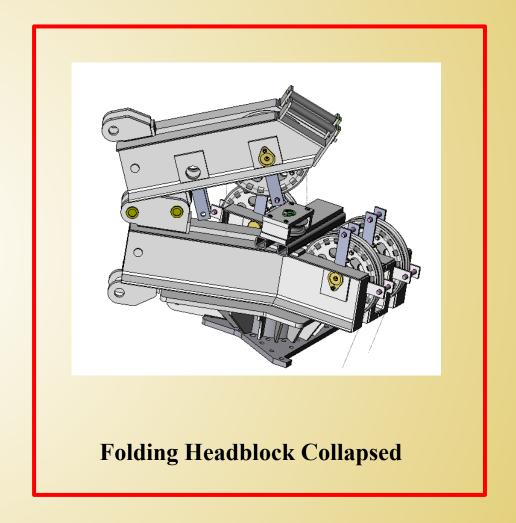


Standard 2-line Headblock



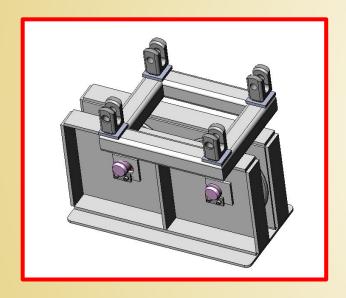
### **APE Folding Headblock Assembly**





#### Footblock ASM

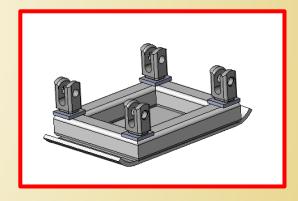
Depending on the application, APE offers three Footblock options.



Crowd Foot Block w/ sheave pack.
Used with Crowd
Winch Application



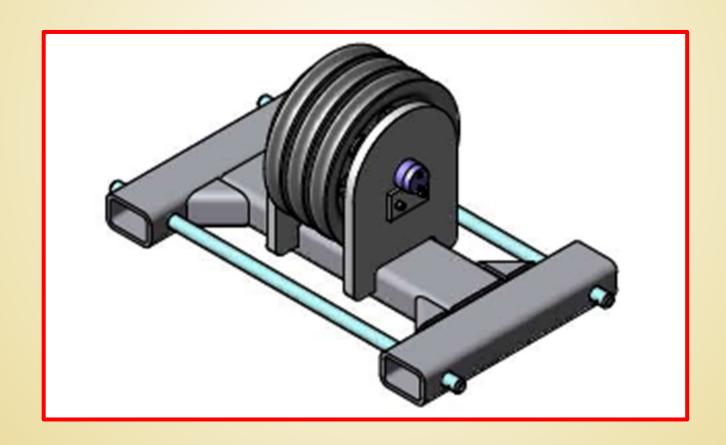
3' Extended
Footblock
Not for use
With Crowd Application



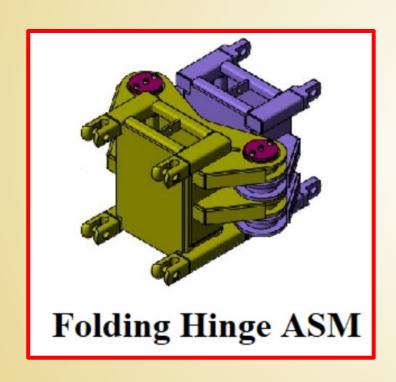
Standard Footblock
Not used with
Crowd Application

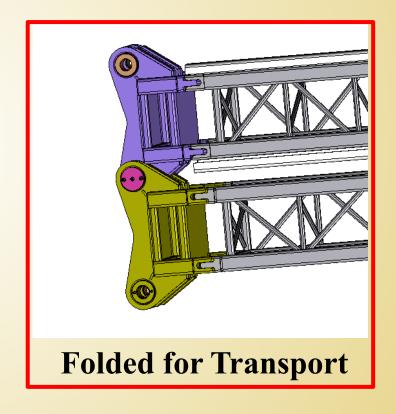
Some Assemblies may require a Rooster Sheave ASM depending on the length of the leader System.

Most Excavator Leader Systems do not require a Rooster Sheave ASM.



### **APE ST Lattice Style Folding Hinge Assembly**





### 40' APE ST Leader with Pin-Up Rail

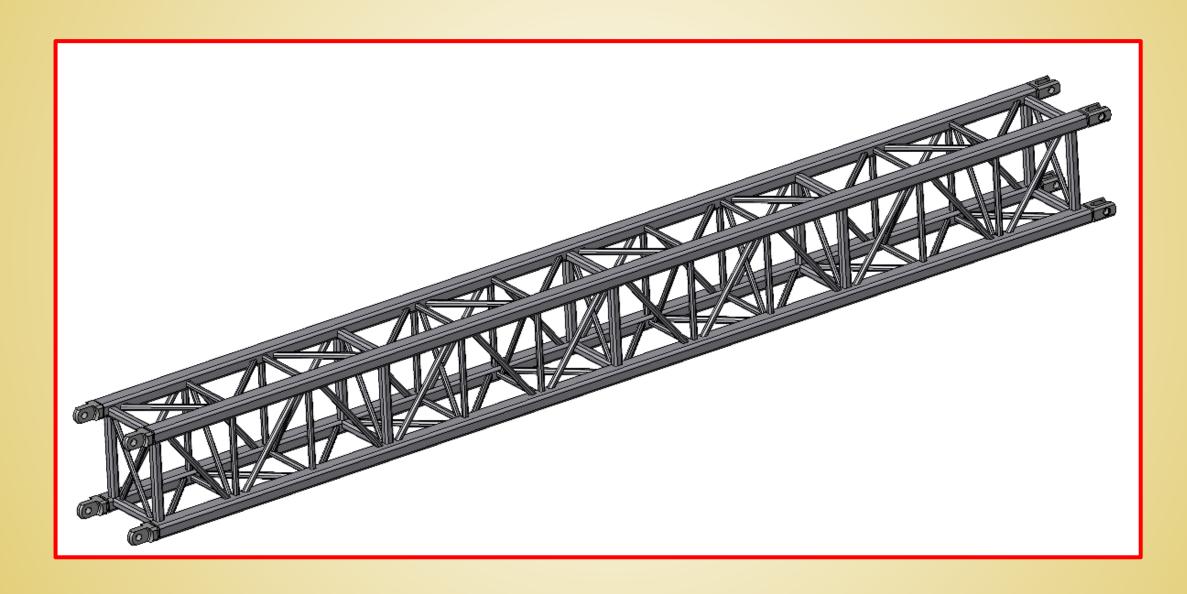
This is the base section of the leader assembly.

It houses all the leader components such as the Boom Point Connector and the Dual

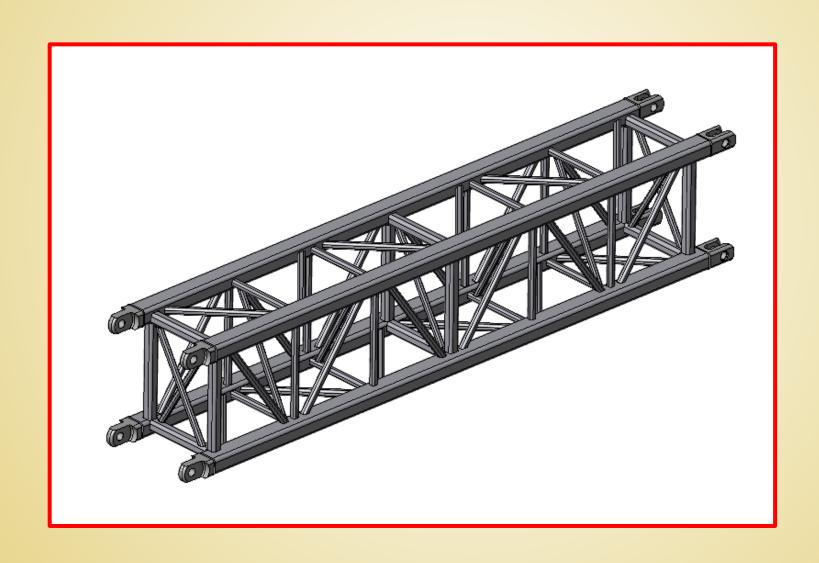
Winch Assembly and much more.



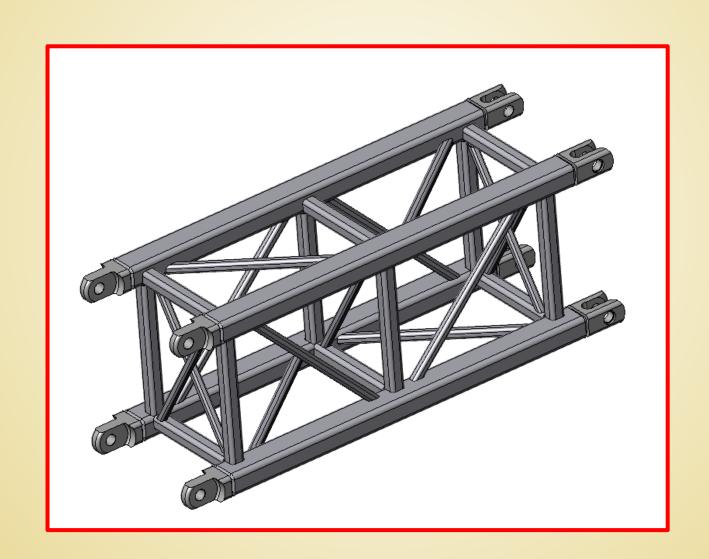
### 20' APE ST Lattice MID section

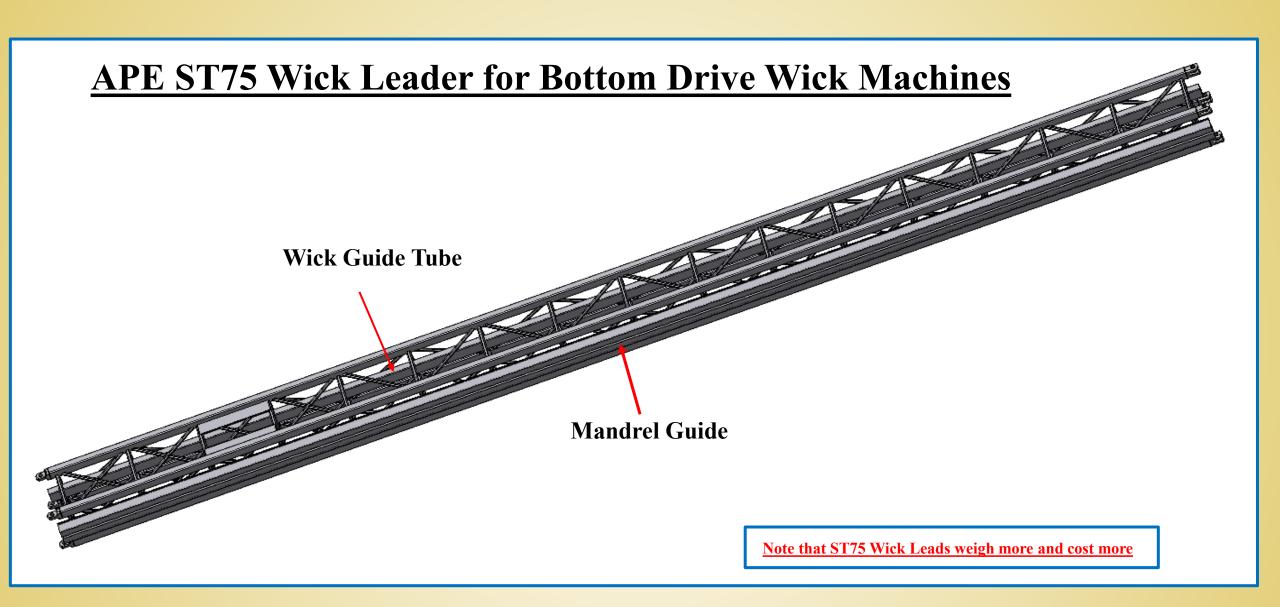


### 10' APE ST Lattice MID section



### 5' APE ST Lattice MID section

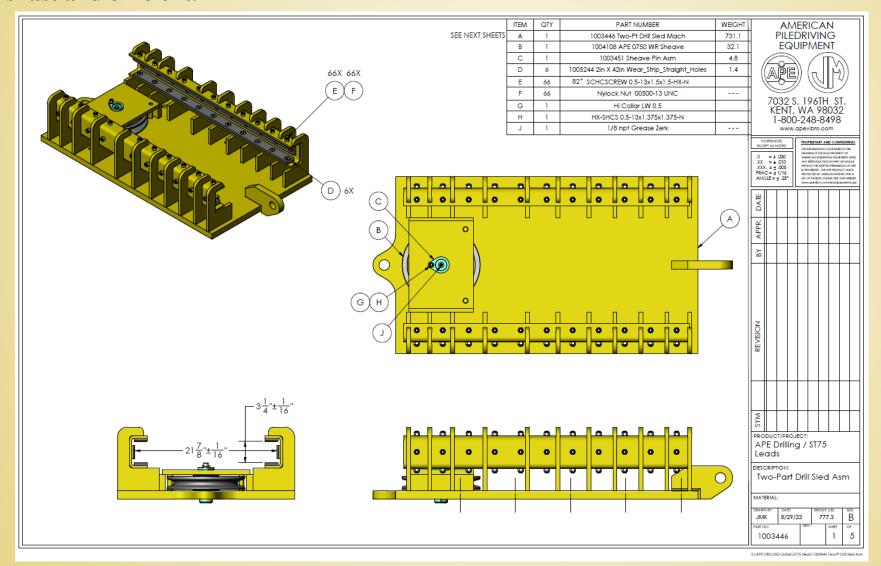




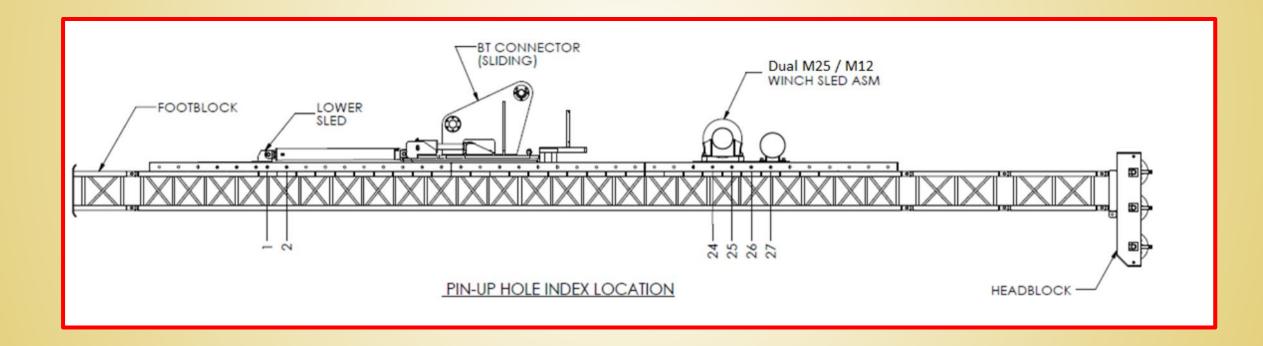
APE ST75 Wick Leads are manufactured in 40', 30', 20', 15', 10' & 5' sections as needed to customize your Wick installation project requitements

The Universal Sled is used for crowd applications such as vibro work or drilling work where crowding is beneficial.

The tool is quickly changed with a universal attachment that enables you to switch between tools fast and efficient.



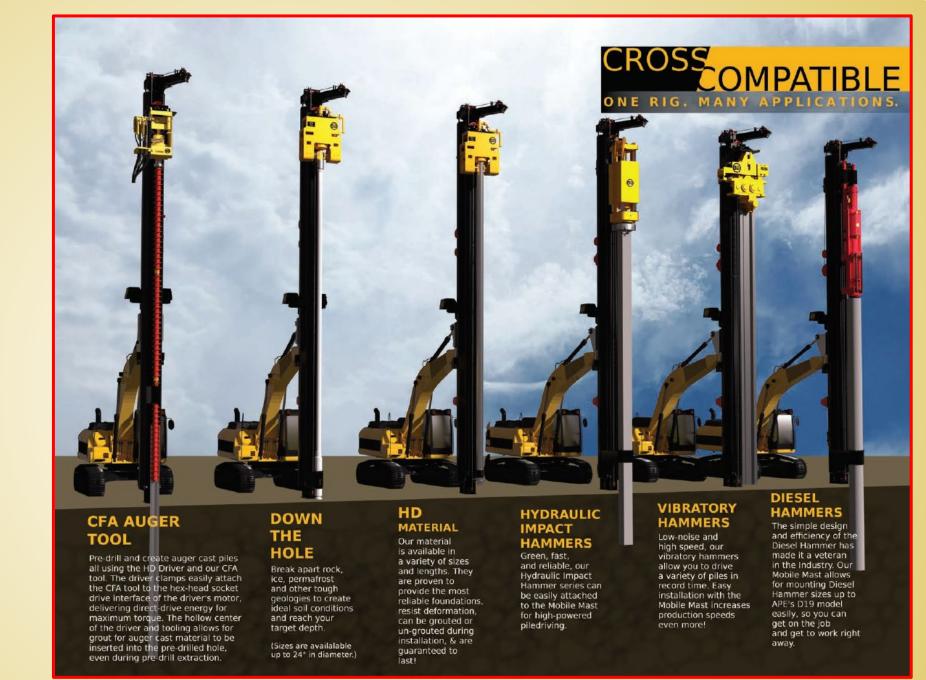
### Leader Example

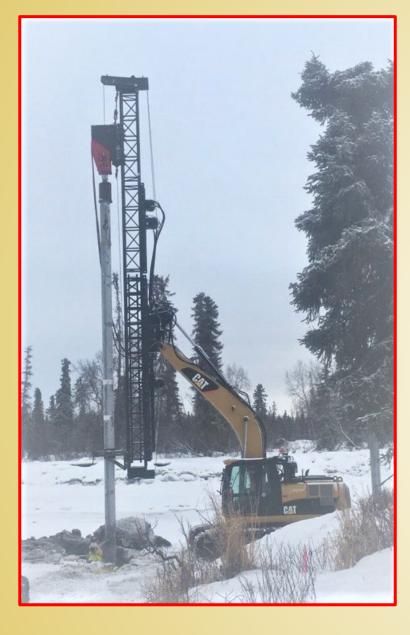


#### The Right tool for the Right job

APE offers a variety of tools that are functional with the APE Mast System.

Top Drive Auger
HD Helical Pile Driver
Hydraulic Impact Hammer
Vibratory Hammer
Diesel Hammer





#### **Drive Deep or Go Home**



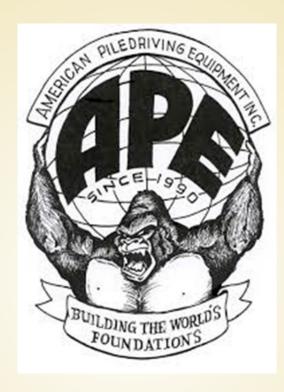
800-248-8498



### Hydraulic Impact Hammers



#### **Primal Strength**



Go APE 800-248-8498



### Vibro Driver/ Extractors



**Advanced Silverback Technology** 



Go APE 800-248-8498



### Drills / Auger Cast

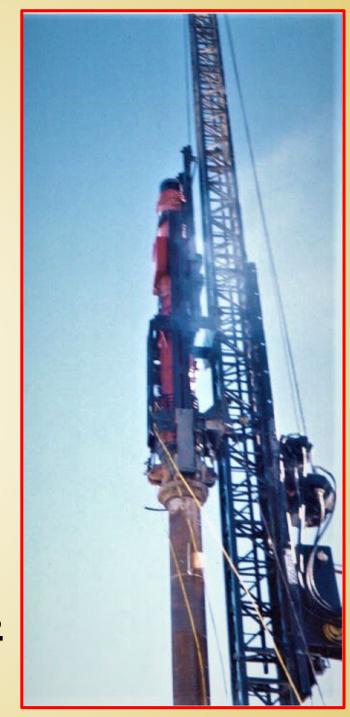


#### **Power to Drive**



Go APE 800-248-8498

### **Diesel Impact Hammers**





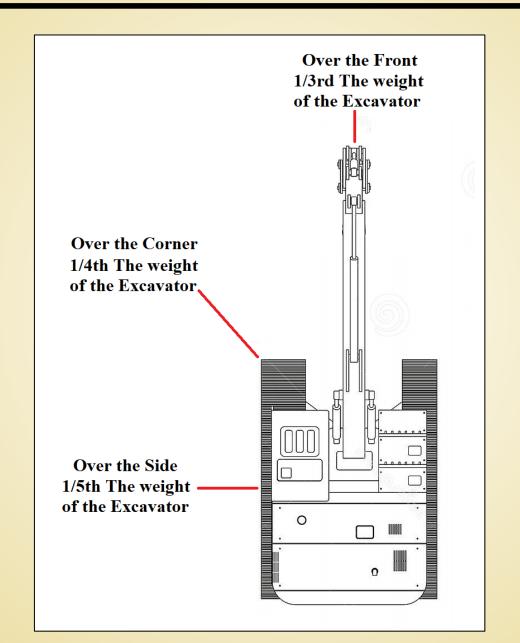
#### **Bottom Drive Wick Machine**



Go APE 800-248-8498



### Safe Workload "Rule of Thumb"



#### **Example**

	PART	WT	
1	TWO SERVICE LINE HEADBLOCK	1,300	Headblock Assembly
2	20' X ST75 STANDARD MID LEADER	1,650	
3	40' X ST75 MID LEADER W/ PIN-UP RAIL	4,550	
4	FOOTBLOCK (NO SHEAVES)	300	
5	DUAL WINCH SLED ASM (M12 & M25)	2,700	20° X ST75 Lead APE 5-2 HIH
6	SINGLE-CYL BT CONN ASM	4,500	
7	VERTICAL TRAVEL SLED	310	
8	7' VERTICAL TRAVEL CYLINDER	300	
9	MECHANICAL PILE GATE	100	10' X ST75 Lead
10	WIRE ROPE PACKAGE	250	Dual Winch Package w/ Sled M25 Winch & M12 Winch 40' X ST75 Lead
11	HYDRAULIC MANIFOLD ASSEMBLY	300	Hydraulic Manifold Assembly Boom Point Connector
12	PILE WEIGHT	2,000	w/ Sled
13	5-2 HIH (Direct Drive)	15,200	/ <sup>3</sup>
	TOTAL MAST WEIGHT w/ TOOL & PILE	33,460	40' X 12" X 3.8" V Pipe Pile
		Excavator Control Packa	Vertical Travel
	Not to Scale		5° X ST75  Footblock  Footblock

When sizing a mast system for your excavator, using the "Rule of Thumb" be sure to add in the entire weight of the system including:

- 1) Leader and component weights
- 2) Equipment/ Tool weight
- 3) Pile weight

"Rule of Thumb" excavator size weight:

100,000 lbs Excavator for over the front work only

134,000 lbs Excavator for over the front

and over the corner work

168,000 lbs Excavator for full 360 work including over the side

#### **APE ST75 Excavator Mast System**

Dual Winch Package (Includes Adjustable Mounting Sled)

\*Standard Headblock (Non Folding Option)

\*Folding Headblock (Allows Headblock to fold up for transportation)

5' ST75 Standard Mid

10' ST75 Standard Mid

20' ST75 Standard Mid

40' ST75 Mid w/ Pin-Up Rail (Base Section)

Universal Sled

\*Foot Block (No Sheaves)

\*Foot Block (w/ Crowd Sheaves)

Vertical Travel Sled w/ Hyd. Cylinder (No Winch Mount)

Vertical Travel Sled w/ Hyd. Cylinder (With Winch Mount)

M25 Crowd Winch

**Excavator Control Package** 

\*Boom Point Connector w/ Sled (No Side Tilt)

\*Standard Single Cylinder Boom Point Connector w/ Sled (3° Side Tilt)

\*HD Dual Cylinder Boom Point Connector w/ Sled (3° Side Tilt)

\*APE Danfoss Hydraulic Manifold (Selective)

\*APE HD Manifold Assembly (Operates All Accessories and Tools)

Wire Rope Package

Rooster Sheave Assy (Optional for 60' plus length leaders)

ST75 Folding Hinge ASM (allows leads to fold up for transportation)

(\* Indicates Options)

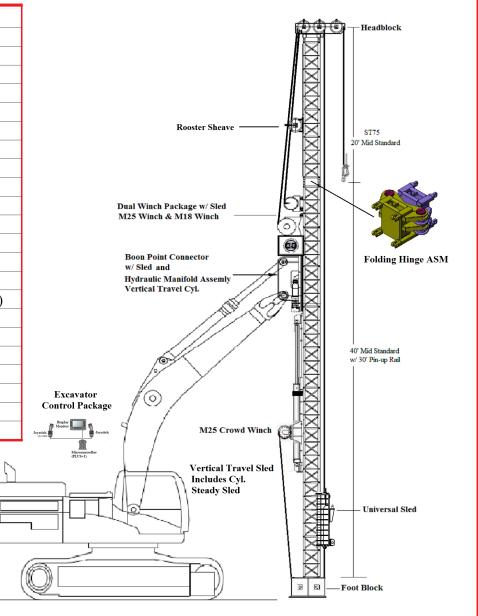
#### **Excavator Quick Guide:**

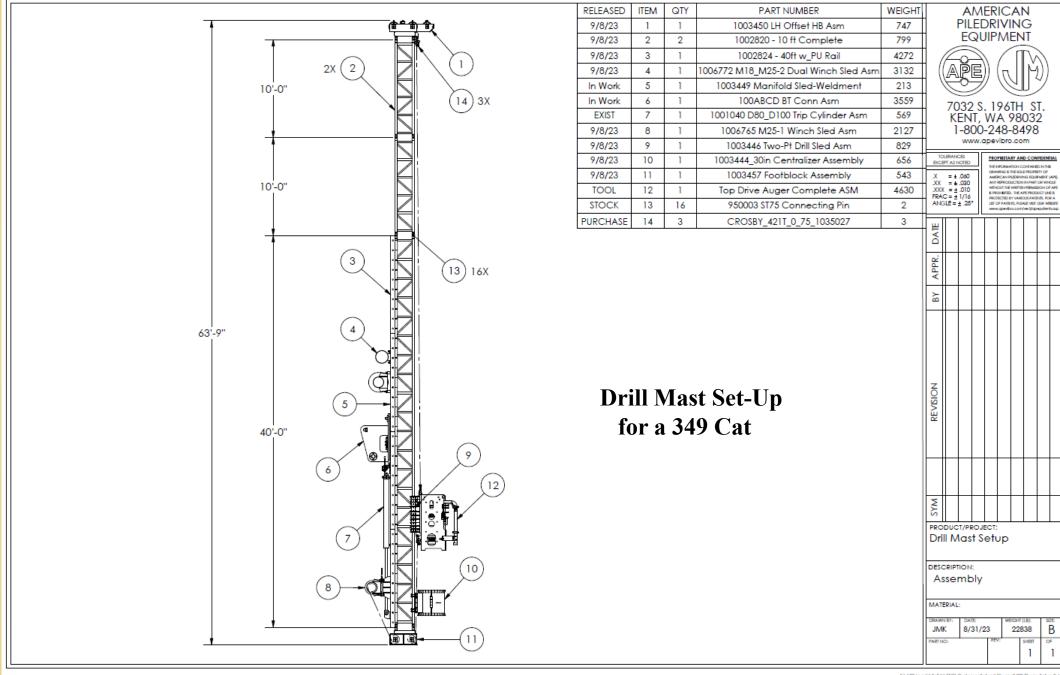
 40' - 50' System
 75k Excavator

 50' - 70' System
 100k Excavator

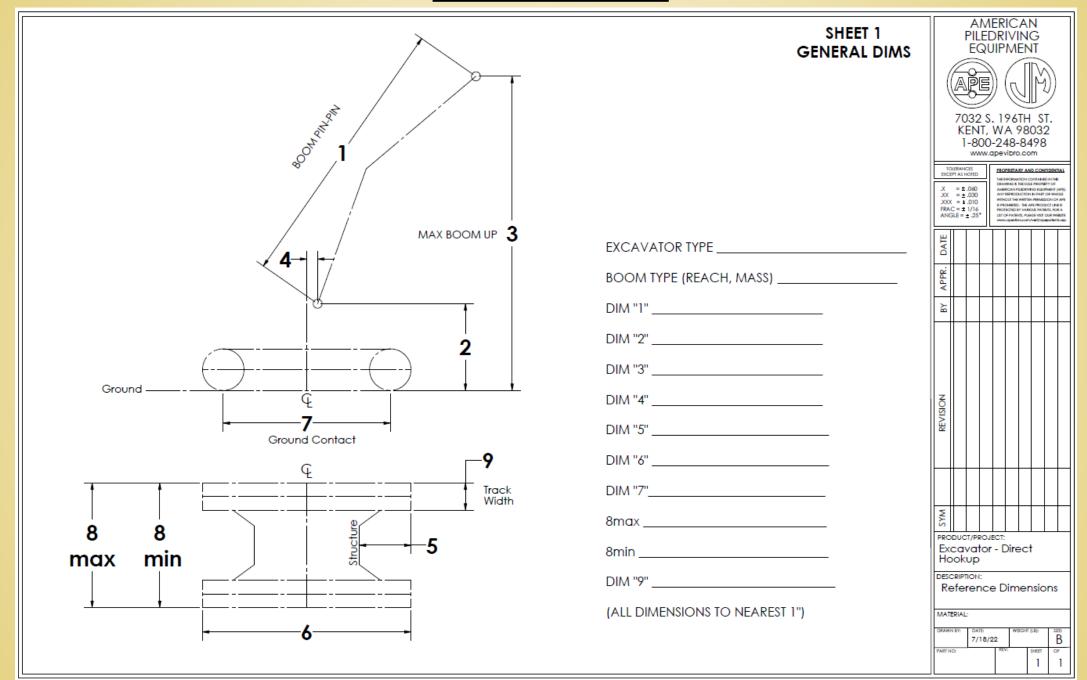
 70'-100' System
 150k Excavator

Contingent upon job requirement and engineering approval.

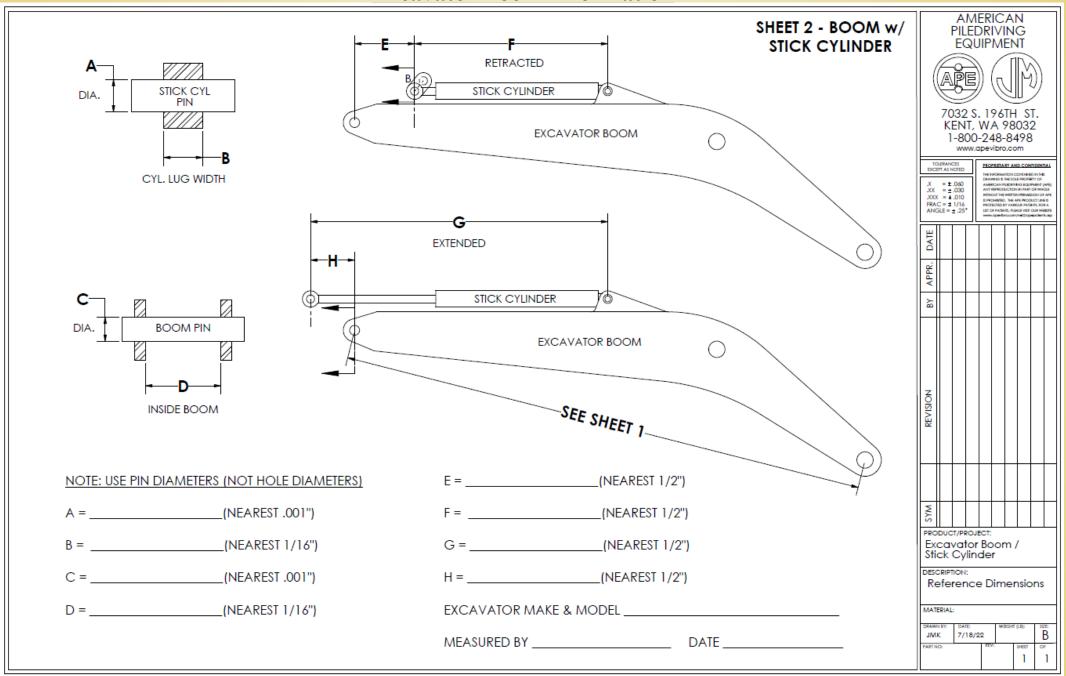




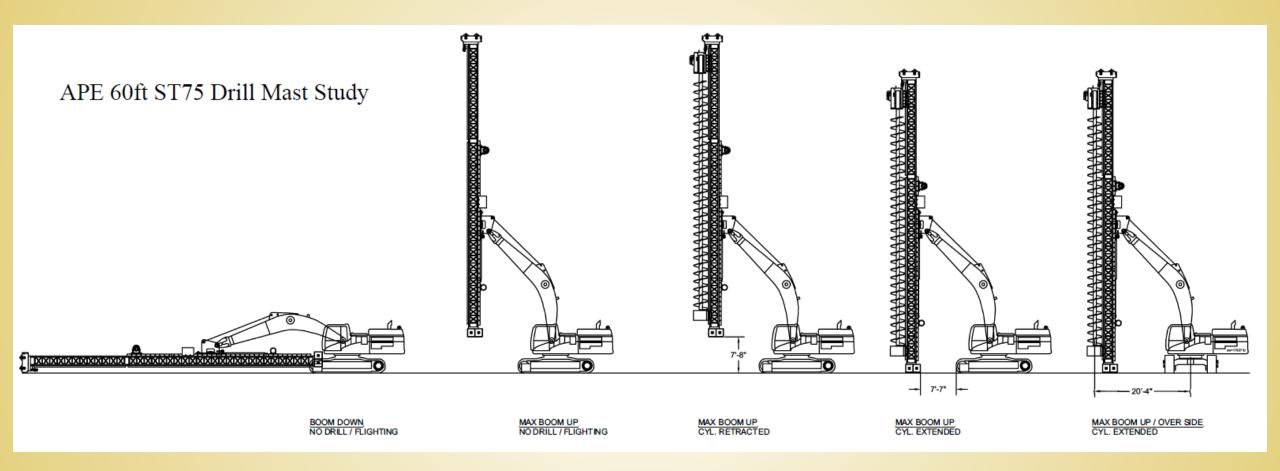
#### **Excavator Information**



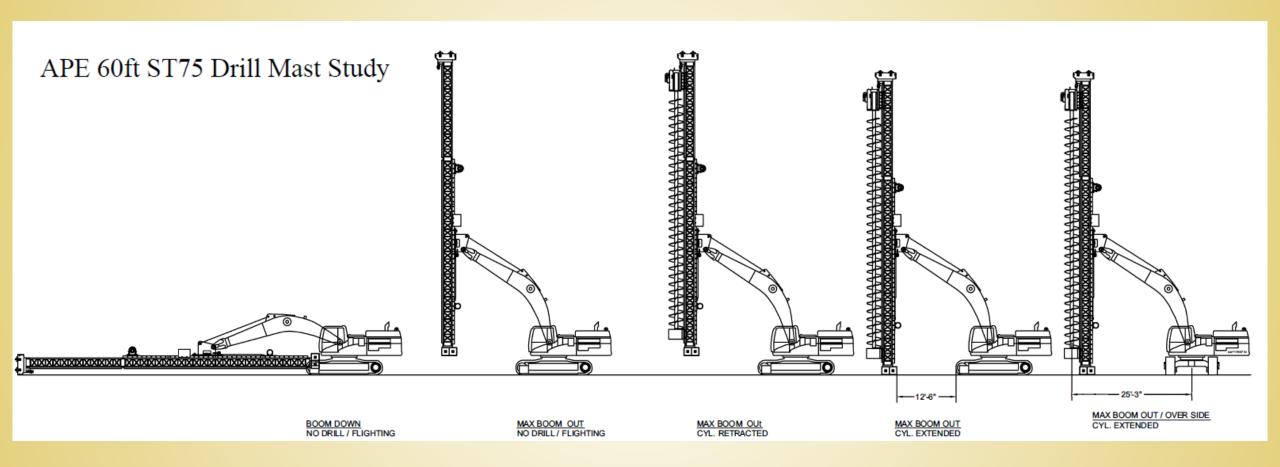
#### **Excavator Boom Information**



### Lifting Sequence



### Lifting Sequence



With 11 locations strategically placed around the USA, Canada and Mexico, APE has the finest and fastest service to meet the contractors needs.

APE also has the largest foundation equipment rental fleet of in the world to meet the needs of the contractor.

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HAWAII Hild

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