

## SWAGE TOOLING AND ACCESSORIES

Founded in 1984, AFL is an international manufacturer providing end-to-end solutions to the energy, service provider, enterprise, hyperscale and industrial markets.

AFL's products are in use in over 130 countries and include fiber optic cable and hardware, transmission and substation accessories, outside plant equipment, connectivity, test and inspection equipment, and fusion splicing systems.

AFL also offers a wide variety of services supporting data center, enterprise, wireless and outside plant applications.

AFL is dedicated to bringing our customers a quality product as well as delivering superior value.



**COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV GL  
= ISO 9001 =**

## Table of Contents

Pictorial Index . . . . .2  
Swage Tooling Cross Reference. . . . .3

### Tooling

#### Grounding and Bus Tools

115TPUHAD Swage 115 Ton Press Assembly . . . . .4  
85TPUHAD Swage 85 Ton Press Assembly . . . . .5  
65TPUHAD Swage 65 Ton Press Assembly . . . . .6  
65THA Swage 65 Ton Press Head . . . . .7  
65TPU Swage 65 Ton Power Unit . . . . .8  
65TD Swage 65 Ton Die Set . . . . .9  
SWGGB Swage Inspection Gauge . . . . .10

#### Cable Tools

45TPUHAD Swage 45 Ton Press Assembly . . . . .11  
45THA Swage 45 Ton Press Head . . . . .12  
45TPU Swage 45 Ton Power Unit . . . . .13  
45TD Swage 45 Ton Die Set . . . . .14  
SWGGC Swage Cable Gauge . . . . .15

### Tooling Accessories

#### Accessories

SWGRS Swage Grease . . . . .16  
AFL Filler Compound . . . . .17

#### Pumps and Hoses

PE-NUT Electric Two-Speed Pump . . . . .18  
15GBM Gas Hydraulic Pump. . . . .19  
30GBM Gas Hydraulic Pump. . . . .20  
30GHR Gas Hydraulic Pump . . . . .21  
Hydraulic Hoses . . . . .22

### Installation Instructions

Swage Tool Assembly and Overview Instructions . . . . .23  
Swage Tool Maintenance Instructions . . . . .25

## Swage Tools and Accessories

| Bus Tools   |                    |
|---|--------------------|
|    | 115TPUHAD<br>PG. 4 |
|    | 85TPUHAD<br>PG. 5  |
|    | 65TPUHAD<br>PG. 6  |
|   | 65THA<br>PG. 7     |
|  | 65TPU<br>PG. 8     |
|  | 65TD<br>PG. 9      |
|  | SWGGB<br>PG. 10    |

| Cable and Grounding Tools   |                    |
|---|--------------------|
|    | 45TPUHAD<br>PG. 11 |
|    | 45THA<br>PG. 12    |
|   | 45TPU<br>PG. 13    |
|  | 45TD<br>PG. 14     |
|  | SWGGC<br>PG. 15    |

| Accessories   |  |
|---|--|
|    | SWGRS<br>PG. 16                          |
|    | AFL Filler Compound<br>PG. 17            |
| Pumps and Hoses   |  |
|   | PE-NUT Electric Two-Speed Pump<br>PG. 18 |
|  | 15GBM Gas Hydraulic Pump<br>PG. 19       |
|  | 30GBM Gas Hydraulic Pump<br>PG. 20       |
|  | 30GHR Gas Hydraulic Pump<br>PG. 21       |
|  | Hydraulic Hoses<br>PG. 22                |

## Swage Tooling Cross Reference

### BUS—1" TO 6" PIPE SIZES

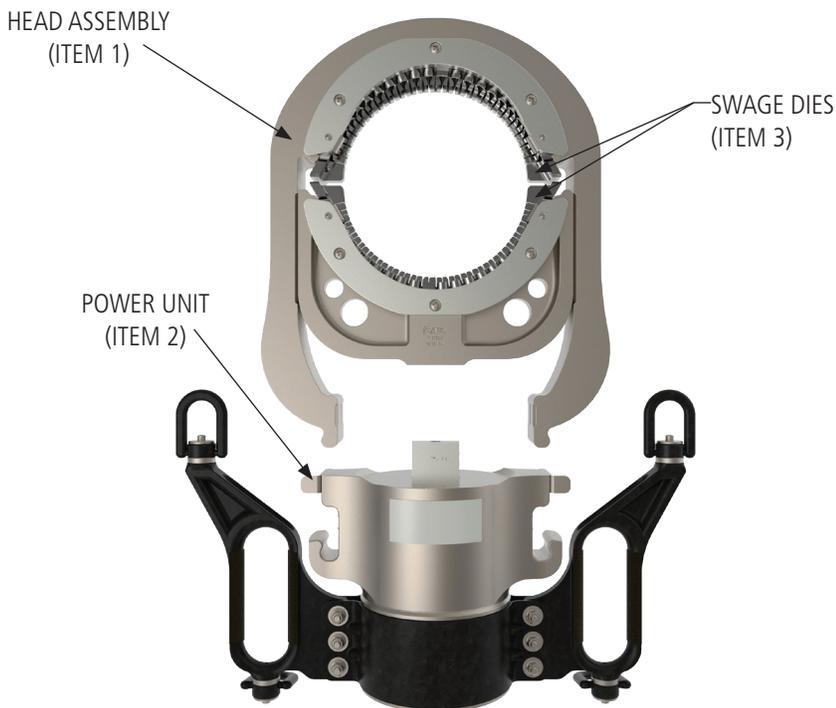
| NOMINAL PIPE SIZE | AFL HEAD ASSEMBLY | DMC HEAD ASSEMBLY              | DIES     |                | INSPECTION GAUGE |              | POWER UNIT    |   |
|-------------------|-------------------|--------------------------------|----------|----------------|------------------|--------------|---------------|---|
|                   |                   |                                | AFL      | DMC            | AFL              | DMC          | AFL           | DMC   |
| 1                 | 65THAD100         | DLT65PLHA0016 OR DLT57PLHA0016 | 65TD100  | DLT56PLDI0016  | SWGGB100         | PLKIG2000-16 | 65TPU         | DLT58MAPW0000 OR DLT65MAPW0000<br><br>Depending on Head Assembly Used |
| 1.5               | 65THAD150         | DLT65PLHA0024 OR DLT57PLHA0024 | 65TD150  | DLT56PLDI0024  | SWGGB150         | PLKIG2000-24 |               |   |
| 2                 | 65THAD200         | DLT65PLHA0032 OR DLT57PLHA0032 | 65TD200  | DLT56PLDI0032  | SWGGB200         | PLKIG2000-32 |               |   |
| 2.5               | 65THAD250         | DLT65PLHA0040 OR DLT57PLHA0040 | 65TD250  | DLT56PLDI0040  | SWGGB250         | PLKIG2000-40 |               |   |
| 3                 | 65THAD300         | DLT65PLHA0048 OR DLT57PLHA0048 | 65TD300  | DLT56PLDI0048  | SWGGB300         | PLKIG2000-48 |               |   |
| 3.5               | 65THAD350         | DLT65PLHA0056                  | 65TD350  | DLT65PLDI0056  | SWGGB350         | PLKIG2000-56 |               |   |
| 4                 | 65THAD400         | DLT65PLHA0064                  | 65TD400  | DLT65PLDI0064  | SWGGB400         | PLKIG2000-64 | DLT65MAPW0000 |   |
| 5                 | 85THA500          | DLT85PLHA0080                  | 85TD500  | DLT85PLDI0080  | SWGGB500         | PLKIG2000-80 | 85TPU         | DLT86MAPW0000   |
| 6                 | 115THA600         | PLT115PLTA0000                 | 115TD600 | DLT115PLDI0096 | SWGGB600         | PLKIG2000-96 | 115TPU        | PLT115MAPE1000  |

### CABLE—1" TO 2.75" O.D. FITTING SIZE

| FITTING O.D. (INCHES) | AFL HEAD ASSEMBLY | DMC HEAD ASSEMBLY | DIES     |                | FILLER DIES |                 | INSPECTION GAUGE |                | POWER UNIT |               |
|-----------------------|-------------------|-------------------|----------|----------------|-------------|-----------------|------------------|----------------|------------|---------------|
|                       |                   |                   | AFL      | DMC            | AFL         | DMC             | AFL              | DMC            | AFL        | DMC           |
| 1                     | 45THAD16          | DLT45CLHA02500    | 45TD16   | DLT45CLDI02500 | —           | —               | SWGGC16          | DLT45CLIG02500 | 45TPU      | DLT45MAPW0000 |
| 1.25                  | 45THAD20          | DLT45CLHA03975    | 45TD20   | DLT45CLDI03975 | —           | —               | SWGGC20          | DLT45CLIG03975 |            |               |
| 1.5                   | 45THAD24          | DLT45CLHA05565    | 45TD24   | DLT45CLDI05565 | B11336-15   | DLT45CLFDI08745 | SWGGC24          | DLT45CLIG05565 |            |               |
| 1.75                  | 45THAD28          | DLT45CLHA07155    | 45TD28   | DLT45CLDI07155 | B11336-15   | DLT45CLFDI08745 | SWGGC28          | DLT45CLIG07155 |            |               |
| 1.875                 | 45THAD30          | DLT45CLHA08745    | 45TD30   | DLT45CLDI08745 | B11336-15   | DLT45CLFDI08745 | SWGGC30          | DLT45CLIG08745 |            |               |
| 2                     | 45THAD32          | DLT45CLHA11130    | 45TD32   | DLT45CLDI11130 | —           | —               | SWGGC32          | DLT45CLIG11130 |            |               |
| 2.25                  | 45THAD36          | DLT45CLHA15900    | 45TD36   | DLT45CLDI15900 | —           | —               | SWGGC36          | DLT45CLIG15900 |            |               |
| 2.75                  | 65THAD44-L        | DLT58CLHA25000    | 65TD44-L | DLT58CLDI25000 | —           | —               | SWGGC44          | DLT45CLIG25000 | 65TPU      | DLT58MAPW0000 |

## 115TPUHAD Swage 115 Ton Press Assembly

A Swage 115 Ton Press Assembly is a portable construction and maintenance tool designed to Swage 6-inch bus accessories onto a bus. The power unit works with the 6-inch Head Assembly. The Catalog Number below provides everything needed for 6-inch pipe.

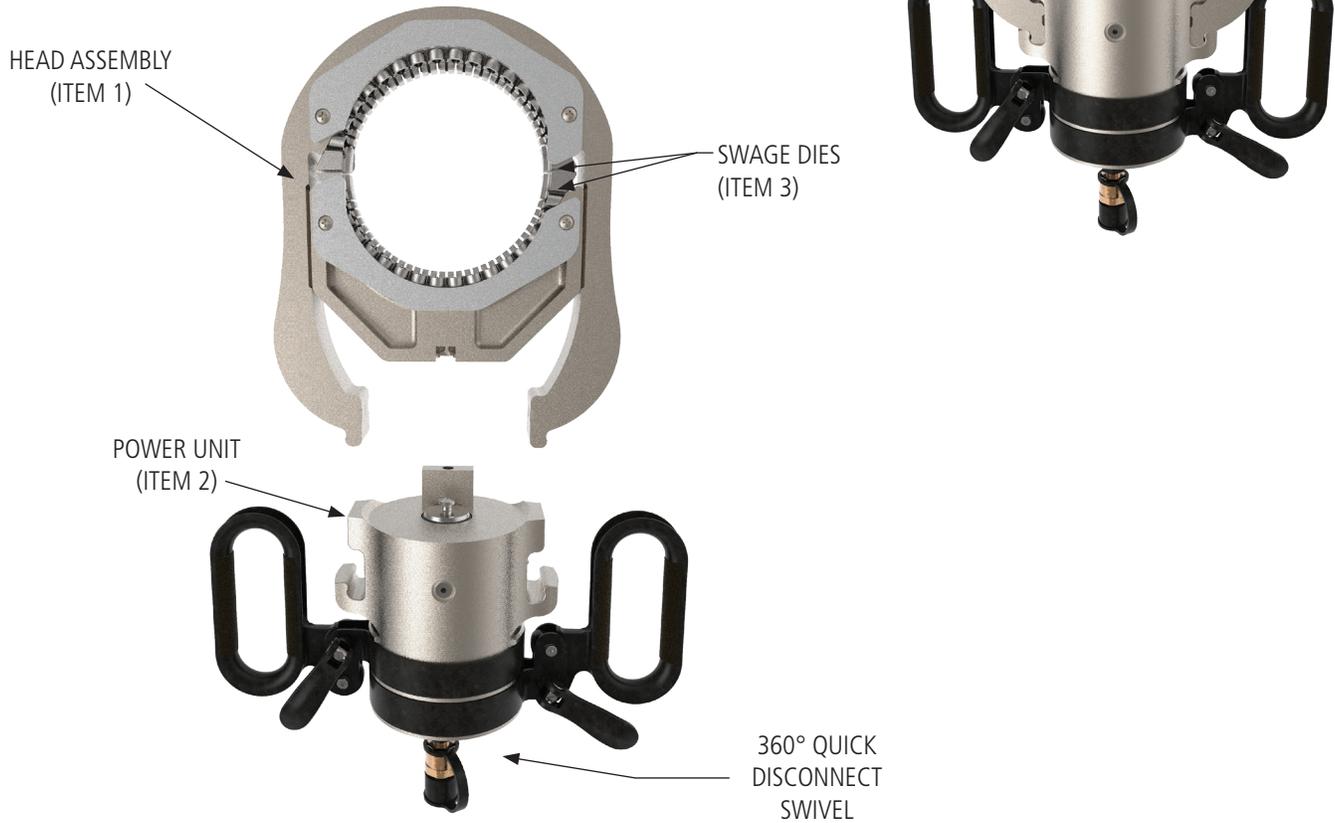


### Ordering Information

| AFL NO.      | S.P.S. | ITEM 1     | ITEM 2     | ITEM 3   | ITEM 4           |
|--------------|--------|------------|------------|----------|------------------|
|              |        | PRESS HEAD | POWER UNIT | DIE      | INSPECTION GAUGE |
| 115TPUHAD600 | 6      | 115THA600  | 115TPU     | 115TD600 | SWGGB600         |

## 85TPUHAD Swage 85 Ton Press Assembly

A Swage 85 Ton Press Assembly is a portable construction and maintenance tool designed to Swage 5-inch bus accessories onto a bus. The power unit works with the 5-inch Head Assembly. The Catalog Number below provides everything needed for 5-inch pipe.



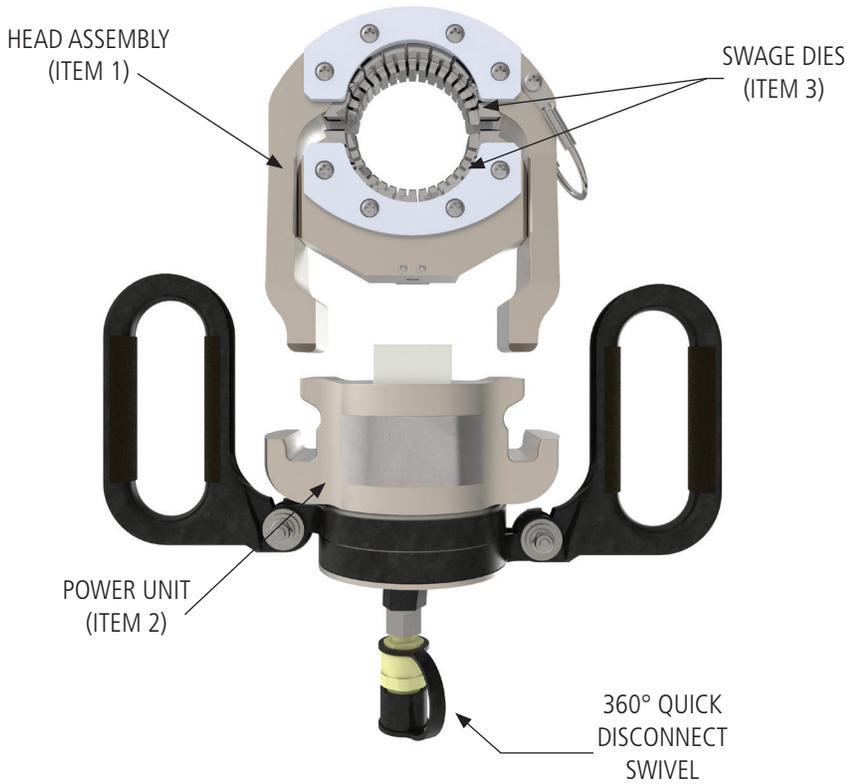
### Ordering Information

| AFL NO.     | S.P.S. | ITEM 1     | ITEM 2     | ITEM 3  | ITEM 4           |
|-------------|--------|------------|------------|---------|------------------|
|             |        | PRESS HEAD | POWER UNIT | DIE     | INSPECTION GAUGE |
| 85TPUHAD500 | 5      | 85THA500   | 85TPU      | 85TD500 | SWGGB500         |

SWAGE TOOLING

## 65TPUHAD Swage 65 Ton Press Assembly

A Swage 65 Ton Press Assembly is a portable construction and maintenance tool designed to Swage bus and cable accessories onto a bus pipe or cable. The power unit works with 1" through 4" Head Assemblies. The Catalog Number below provides everything needed for each pipe size. For more sizes, order extra press heads and dies from the Head and Dies section.



SWAGE TOOLING

### Ordering Information

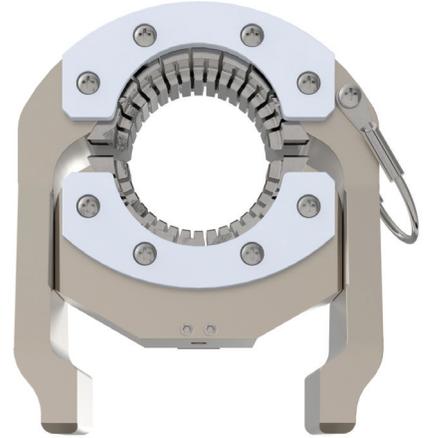
| AFL NO.     | S.P.S.    | ITEM 1     | ITEM 2     | ITEM 3  | ITEM 4           |
|-------------|-----------|------------|------------|---------|------------------|
|             |           | PRESS HEAD | POWER UNIT | DIE     | INSPECTION GAUGE |
| 65TPUHAD100 | 1         | 65THA200-L | 65TPU-L    | 65TD100 | SWGGB100         |
| 65TPUHAD150 | 1.5       |            |            | 65TD150 | SWGGB150         |
| 65TPUHAD200 | 2         |            |            | 65TD200 | SWGGB200         |
| 65TPUHAD44  | 2.75 O.D. |            |            | 65TD44L | SWGGB44          |
| 65TPUHAD250 | 2.5       | 65THA300   |            | 65TD250 | SWGGB250         |
| 65TPUHAD300 | 3         |            |            | 65TD300 | SWGGB300         |
| 65TPUHAD350 | 3.5       | 65THA400   |            | 65TD350 | SWGGB350         |
| 65TPUHAD400 | 4         |            |            | 65TD400 | SWGGB400         |

## 65THA Swage 65 Ton Press Head

A Swage 65 Ton Press Head comes with the Press Head, Die Block, Die Retainers and mounting screws. There are three different press heads that fit different dies.

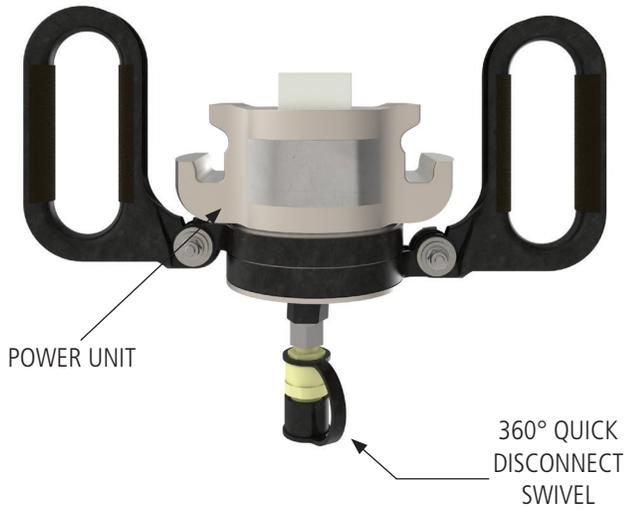
### Ordering Information

| AFL NO.    | S.P.S.    | DIE SIZE |
|------------|-----------|----------|
| 65THA200-L | 1         | 65TD100  |
|            | 1.5       | 65TD150  |
|            | 2         | 65TD200  |
|            | 2.75 O.D. | 65TD44L  |
| 65THA300   | 2.5       | 65TD250  |
|            | 3         | 65TD300  |
| 65THA400   | 3.5       | 65TD350  |
|            | 4         | 65TD400  |



## 65TPU Swage 65 Ton Power Unit

A Swage 65 Ton Power Unit is a 65 ton construction and maintenance tool designed to cover a full range of Swage accessories which works with 2" through 4" Head Assemblies. The 65TPU features a 360 degree hose swivel for ease of movement for the user to make the Swage process quick and easy.



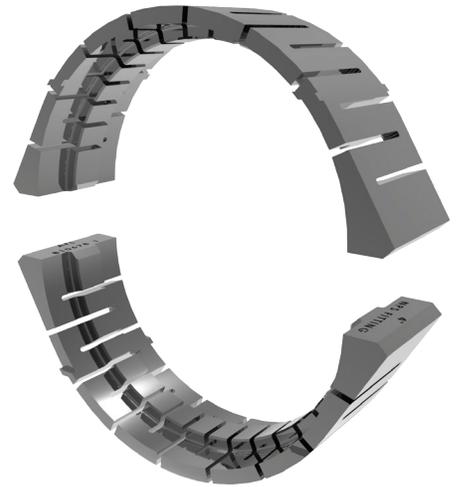
### Ordering Information

| AFL NO. | S.P.S.    | DIE SIZE |
|---------|-----------|----------|
| 65TPU-L | 1         | 65TD100  |
|         | 1.5       | 65TD150  |
|         | 2         | 65TD200  |
|         | 2.75 O.D. | 65TD44L  |
|         | 2.5       | 65TD250  |
|         | 3         | 65TD300  |
|         | 3.5       | 65TD350  |
|         | 4         | 65TD400  |

SWAGE TOOLING

## 65TD Swage 65 Ton Die Set

A Swage 65 Ton Die Set comes with two dies per pipe size. These dies are available in 1", 1.5", 2", 2.5", 2.75" O.D., 3", 3.5" and 4" dies. Not all dies fit one press head—ensure you have the correct head assembly for the size dies needed.



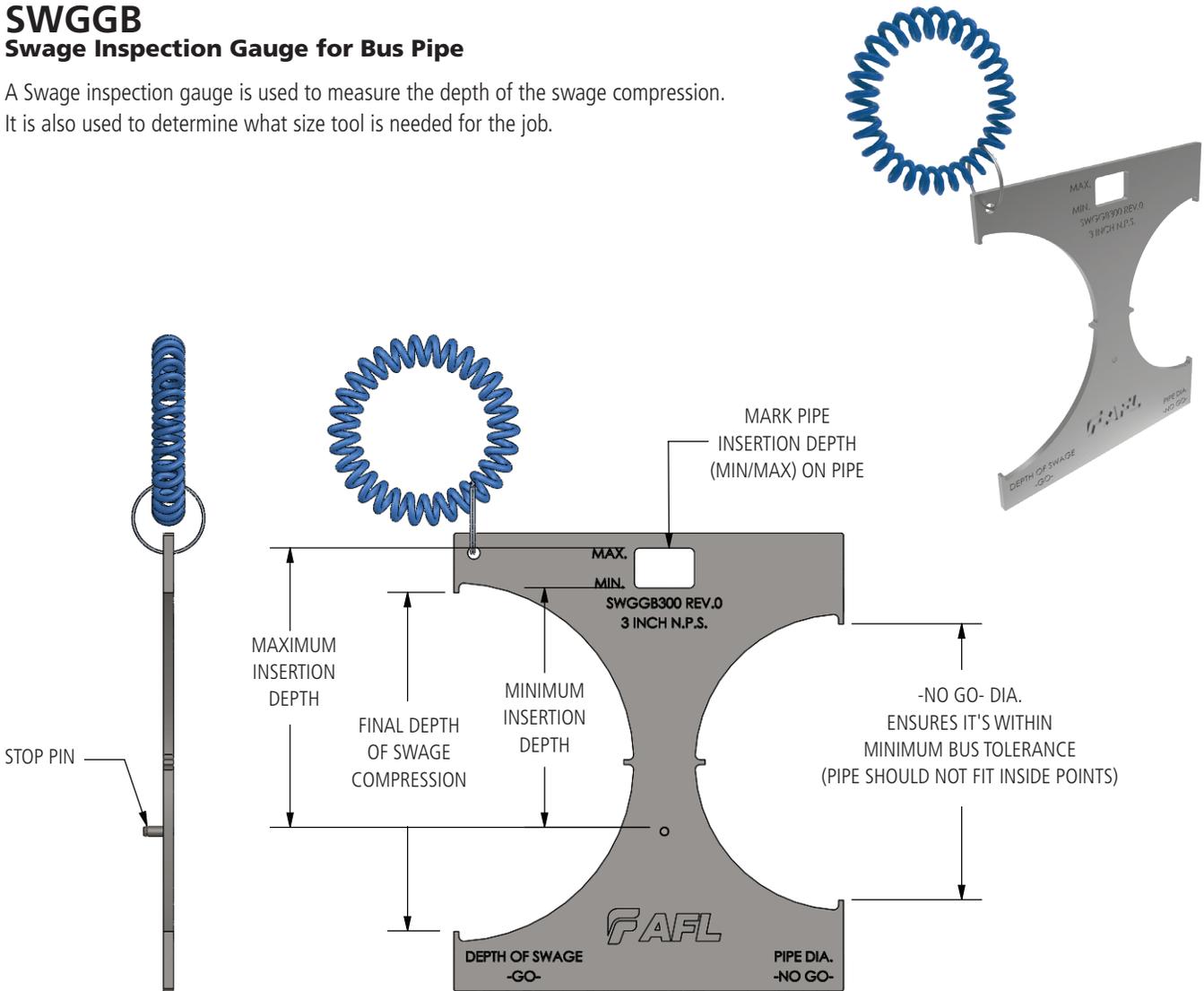
### Ordering Information

| AFL NO.   | S.P.S.    | COMPATIBLE WITH PRESS HEAD | DIE SIZE |
|---|-----------|----------------------------|----------|
| <b>DIES FOR SWAGE GROUNDING AND CABLE ACCESSORIES</b> |           |                            |          |
| 65TD44L   | 2.75 O.D. | 65THA200-L                 | 65TD44L  |
| <b>DIES FOR SWAGE BUS ACCESSORIES</b>                 |           |                            |          |
| 65TD100   | 1         | 65THA200-L                 | 65TD100  |
| 65TD150   | 1.5       |                            | 65TD150  |
| 65TD200   | 2         |                            | 65TD200  |
| 65TD250   | 2.5       | 65THA300                   | 65TD250  |
| 65TD300   | 3         |                            | 65TD300  |
| 65TD350   | 3.5       | 65THA400                   | 65TD350  |
| 65TD400   | 4         |                            | 65TD400  |

**Note:** 2.75" O.D. is for Swage Grounding and Cable Accessories.

## SWGGB Swage Inspection Gauge for Bus Pipe

A Swage inspection gauge is used to measure the depth of the swage compression. It is also used to determine what size tool is needed for the job.



### Ordering Information

| AFL NO.  | S.P.S. | DEPTH OF INSERTION |      | DIE SIZE |
|----------|--------|--------------------|------|----------|
|          |        | MIN.               | MAX. |          |
| SWGGB100 | 1      | 1.5                | 2    | 65TD100  |
| SWGGB150 | 1.5    | 1.5                | 2    | 65TD150  |
| SWGGB200 | 2      | 2                  | 2.5  | 65TD200  |
| SWGGB250 | 2.5    | 2                  | 2.5  | 65TD250  |
| SWGGB300 | 3      | 3                  | 3.5  | 65TD300  |
| SWGGB350 | 3.5    | 3                  | 3.5  | 65TD350  |
| SWGGB400 | 4      | 3                  | 3.5  | 65TD400  |
| SWGGB500 | 5      | 5                  | 5.75 | 85TD500  |
| SWGGB600 | 6      | 6                  | 6.75 | 115TD600 |

**Note:** Not used for Swage Grounding and Cable Accessories.

## 45TPUHAD Swage 45 Ton Press Assembly

A Swage 45 Ton Press Assembly is a portable construction and maintenance tool designed to Swage cable and grounding accessories onto a cable. The power unit works with 1.00" O.D. through 2.25" O.D. Head Assemblies. The Catalog Number below provides everything needed for each size. For more sizes, order extra press heads and dies from the Head and Dies section.



SWGGC INSPECTION GAUGE  
(PURCHASED SEPARATELY)

### Ordering Information

| AFL NO.    | FITTING O.D. (INCHES) | ITEM 1     | ITEM 2     | ITEM 3  | ITEM 4     | ITEM 5           |
|------------|-----------------------|------------|------------|---------|------------|------------------|
|            |                       | PRESS HEAD | POWER UNIT | DIE     | FILLER DIE | INSPECTION GAUGE |
| 45TPUHAD16 | 1.00                  | 45THA20    | 45TPU      | 45TD16  | —          | SWGGC16          |
| 45TPUHAD20 | 1.25                  | 45THA20    | 45TPU      | 45TD20  | —          | SWGGC20          |
| 45TPUHAD24 | 1.50                  | 45THA36    | 45TPU      | 45TD24* | B11336-15  | SWGGC24          |
| 45TPUHAD28 | 1.75                  | 45THA36    | 45TPU      | 45TD28* | B11336-15  | SWGGC28          |
| 45TPUHAD30 | 1.88                  | 45THA36    | 45TPU      | 45TD30* | B11336-15  | SWGGC30          |
| 45TPUHAD32 | 2.00                  | 45THA36    | 45TPU      | 45TD32  | —          | SWGGC32          |
| 45TPUHAD36 | 2.25                  | 45THA36    | 45TPU      | 45TD36  | —          | SWGGC36          |

\* Filler die is required for this die size.

## 45THA Swage 45 Ton Press Head

A Swage 45 Ton Press Head comes with the Press Head, Die Block, Die Retainers and mounting screws. There are two different press heads that fit different dies.

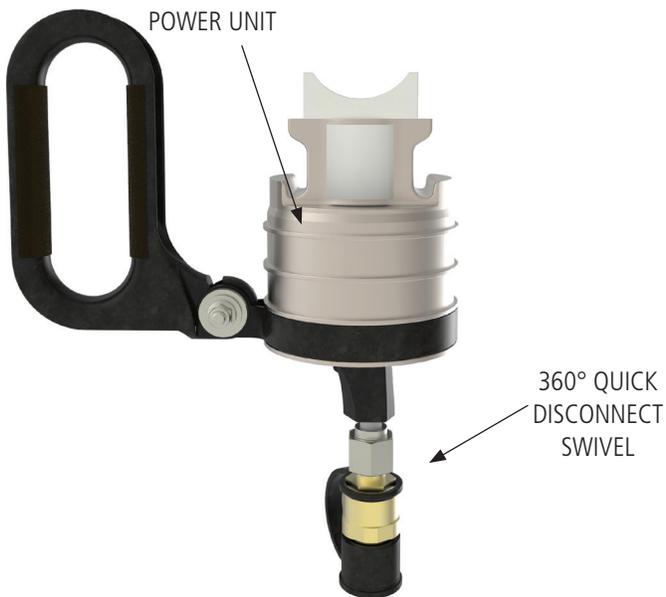
### Ordering Information

| AFL NO. | FITTING O.D. (INCHES) | DIE SIZE | FILLER DIE |
|---------|-----------------------|----------|------------|
| 45THA20 | 1.00                  | 45TD16   | —          |
|         | 1.25                  | 45TD20   | —          |
| 45THA36 | 1.50                  | 45TD24   | B11336-15  |
|         | 1.75                  | 45TD28   | B11336-15  |
|         | 1.88                  | 45TD30   | B11336-15  |
|         | 2.00                  | 45TD32   | —          |
|         | 2.25                  | 45TD36   | —          |



## 45TPU Swage 45 Ton Power Unit

A Swage 45 Ton Power Unit is a 45 Ton construction and maintenance tool designed to cover a full range of Swage cable and grounding accessories. The power unit works with 1.00" O.D. through 2.25" O.D. Head Assemblies. The 45TPU features a 360-degree hose swivel for ease of movement for the user to make the Swage process quick and easy.

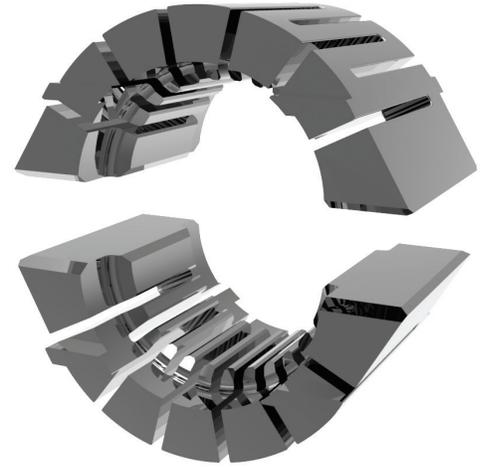


### Ordering Information

| AFL NO. | FITTING O.D. (INCHES) | DIE SIZE |
|---------|-----------------------|----------|
| 45TPU   | 1.000                 | 45TD16   |
|         | 1.250                 | 45TD20   |
|         | 1.500                 | 45TD24   |
|         | 1.750                 | 45TD28   |
|         | 1.875                 | 45TD30   |
|         | 2.000                 | 45TD32   |
|         | 2.250                 | 45TD36   |

## 45TD Swage 45 Ton Die Set

A Swage 45 Ton Die Set comes with two dies per pipe size. Not all dies fit one press head—ensure you have the correct head assembly for the size dies needed.

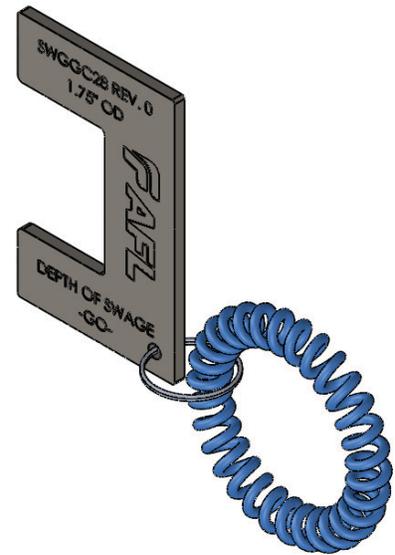
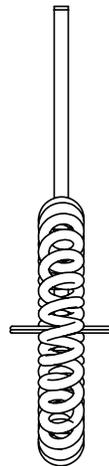
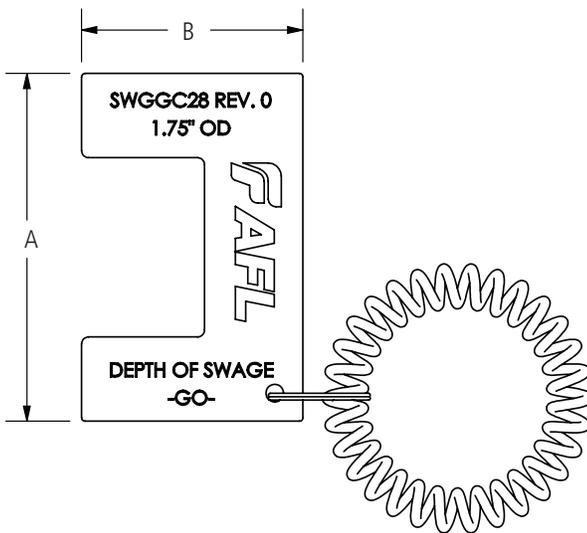


### Ordering Information

| AFL NO. | FITTING O.D. (INCHES) | COMPATIBLE WITH PRESS HEAD | DIE SIZE | FILLER DIE |
|---------|-----------------------|----------------------------|----------|------------|
| 45TD16  | 1.000                 | 45THA20                    | 45TD16   | —          |
| 45TD20  | 1.250                 | 45THA20                    | 45TD20   | —          |
| 45TD24  | 1.500                 | 45THA36                    | 45TD24   | B11336-15  |
| 45TD28  | 1.750                 | 45THA36                    | 45TD28   | B11336-15  |
| 45TD30  | 1.875                 | 45THA36                    | 45TD30   | B11336-15  |
| 45TD32  | 2.000                 | 45THA36                    | 45TD32   | —          |
| 45TD36  | 2.250                 | 45THA36                    | 45TD36   | —          |

## SWGGC Swage Cable Gauge

A Swage cable gauge is used to measure the depth of the swage compression. It is also used to determine what size tool is needed for the job.



### Ordering Information

| AFL NO. | FITTING O.D. (INCHES) | DIE SIZE |
|---------|-----------------------|----------|
| SWGGC16 | 1                     | 45TD16   |
| SWGGC20 | 1.25                  | 45TD20   |
| SWGGC24 | 1.5                   | 45TD24   |
| SWGGC28 | 1.75                  | 45TD28   |
| SWGGC30 | 1.875                 | 45TD30   |
| SWGGC32 | 2                     | 45TD32   |
| SWGGC36 | 2.25                  | 45TD36   |
| SWGGC44 | 2.75                  | 65TD44   |

## SWGRS

### Swage Grease, 4 oz. bottle

Swage Grease is used to cut down on friction and contact between the Swage Dies and the Press Head and Die Block. This will ensure long life for dies, press head and die block.

### Application

Swage Grease is applied generously to the back of each die and to the contacting surfaces of the die head and die block using the squirt bottle. After application, spread out grease with finger to ensure complete coverage is achieved between the surfaces. **NOTE:** Apply Swage Grease each time after cleaning tool.

### Ordering Information

| AFL NO. | DESCRIPTION                |
|---------|----------------------------|
| SWGRS   | Swage Grease, 4 oz. bottle |





## AFL Filler Compound

AFL Filler Compound (AFC) improves the mechanical holding strength and conductivity of compression fittings. Stored in a dry environment, AFC has an infinite shelf life.

### Application

Filler compound for compression accessories operating at temperatures up to 180°C (355°F). Example: dead ends, compression joints, terminals and jumper connectors.

### Features

#### Wide Temperature Tolerance

AFC is stiff but workable at low temperatures. To improve the workability, AFC can be diluted with 5% kerosene (by weight).

#### Improves Holding Strength and Conductivity

AFC contains hard, metallic particles (grit). During compression, the grit is embedded between the conductor and the accessory, creating an irregular surface which provides two benefits: (1) increases the holding strength when tension is applied and (2) improves conductivity by breaking the oxide layer on bare metal to metal connections.

#### Weather Resistant

AFC is forced between the conductor strands during compression, filling voids and sealing out the harmful effects of air and moisture

#### Fits Standard Caulking Gun

For easy filling of compression accessories, AFC is available in a tube that fits a standard caulking gun.

#### Visible Fill Line

AFL is the only supplier that features a visible fill line along the length of the cartridge which allows the user to visually check the fullness of the tube.

### Ordering Information

| AFL NO. | PACKAGING  |
|---------|--|
| AFC10T  | Carton of 10, 1 lb. (451 g) Tubes - Fits Standard Caulking Gun |
| AFC1GAL | 1 Gallon Pail, 11 lbs. (5 kg)                                  |
| AFC5GAL | 5 Gallon Pail, 55 lbs. (25 kg)                                 |

For more information, contact the AFL Technical Support Team at 1.800.866.7385.

## PE-NUT Electric Two-Stage Pump



**CAUTION: Designed for Crimping Application Only!** This system should not be used for lifting.

The PE-NUT Electric Two-Stage Pump is extremely durable yet lightweight. It will operate under low-line voltage conditions. The two-stage pumping system of this unique, intermittent-duty pump is designed for years of dependable service. The PE-NUT pump is ideal for running any 10,000 PSI tool up to and including the 60 ton press.

### Features

- 5/8 HP universal electric motor (50/60 cycle)
- Two-stage pump for rapid ram advance
- Operational under low-line voltage conditions
- Optional operating pressures available; consult AFL for details
- Designed for use with spring-returned remote tools
- High-pressure safety relief valve
- Remote hand control with 10-foot cord
- Carrying handle
- Factory filled oil reservoir
- Pressure matched quick-coupler supplied
- Optional carrying case
- Unique, intermittent duty pump
- Piston-type high-pressure pump supercharged by a low-pressure pump

### Specifications

| PARAMETER               | VALUE   |
|-------------------------|---|
| Electric Motor          | 5/8 HP dual phase, 115 VAC, 50/60 Hz, 11 amps |
| Electric Control        | Remote control with 10-foot cord              |
| Oil Delivery per minute | 160 cu. in. per min. @ 100 PSI                |
|                         | 30 cu. in. per min. @ 10,000 PSI              |
| Oil Reservoir           | 0.4 gallon (1.5 liters)                       |
| Overall Length          | 14.38 in (36.53 cm)                           |
| Overall Width           | 6.5 in (16.51 in)                             |
| Overall Height          | 8.25 in (20.95 in)                            |
| Pump Weight with oil    | 28 lbs (12.70 kg)                             |

### Ordering Information

| AFL NO. | DESCRIPTION   |
|---------|---|
| PE-NUTC | 10,000 PSI Electric Two-Stage Pump with Remote Control and Case |

**WARNING: Do not operate any compression tool without dies.**

## 15GBM Gas Hydraulic Pump



The 15GBM is a gas powered pump that produces 10,000 PSI of hydraulic pressure. It is designed to handle any high pressure tool up to and including the 60 ton press. The two-stage pumping system allows for rapid ram advance. The “suc-o-matic” valve helps tools retract faster. The manual control has three settings: advance, hold and retract. Whether making one crimp or 1,000 crimps, the 15GBM is the lightweight, portable answer.

### Features

- 10,000 PSI high-pressure pump
- Powered by a 3.75 HP Briggs and Stratton engine
- Manual control valve
- Designed to operate single acting tools
- High pressure relief valve
- Pressure matched quick coupler supplied
- Protective carrying cage
- “Suc-o-matic” valve reduces retraction time
- Sight gauge to determine hydraulic oil level

### Technical Data

| PARAMETER               | VALUE  |
|-------------------------|--|
| Gas Powered Motor       | 3.75 HP Briggs and Stratton Engine           |
| Control                 | Manual control valve                         |
| Oil Delivery per minute | 400 cu in @ 600 PSI<br>50 cu in @ 10,000 PSI |
| Oil Reservoir           | 2 gallons (7.40 liters)                      |
| Overall Length          | 12.25 in (31.12 cm)                          |
| Overall Width           | 12.25 in (31.13 cm)                          |
| Overall Height          | 20.25 in (51.44 cm)                          |
| Pump Weight with oil    | 53 lbs (24.09 kg)                            |

### Ordering Information

| AFL NO. | DESCRIPTION   |
|---------|---|
| 15GBM   | 10,000 PSI Gas Powered Hydraulic Pump with Manual Control |

**WARNING: Do not operate any compression tool without dies.**

## 30GBM Gas Hydraulic Pump



The 30GBM is a gas powered pump that produces 10,000 PSI of hydraulic pressure. It is designed to operate any 10,000 PSI compression tool. The two-stage pumping system allows for rapid ram advance. The “suc-o-matic” valve helps tools retract faster. The manual control has three settings: advance, hold and retract. The 30GBM is designed for continuous duty.

### Features

- 10,000 PSI high-pressure pump
- Powered by a 6 HP Briggs and Stratton engine
- Manual control valve
- Designed to operate single acting tools only
- High pressure relief valve
- Pressure matched quick coupler supplied
- Protective carrying cage
- Sight gauge to determine hydraulic oil level

### Technical Data

| PARAMETER               | VALUE                             |
|-------------------------|-----------------------------------|
| Gas Powered Motor       | 6.0 HP Briggs and Stratton Engine |
| Control                 | Manual control valve              |
| Oil Delivery per minute | 430 cu in @ 400 PSI               |
|                         | 125 cu in @ 10,000 PSI            |
| Oil Reservoir           | 2 gallons (7.40 liters)           |
| Overall Length          | 21.75 in (55.25 cm)               |
| Overall Width           | 19.75 in (50.17 cm)               |
| Overall Height          | 24.50 in (62.23 cm)               |
| Pump Weight with oil    | 135 lbs (61.36 kg)                |

### Ordering Information

| AFL NO. | DESCRIPTION   |
|---------|---|
| 30GBM   | 10,000 PSI Gas Powered Hydraulic Pump with Manual Control |

**WARNING: Do not operate any compression tool without dies.**

## 30GHR Gas Hydraulic Pump



The 30GHR is a gas powered pump that produces 10,000 PSI of hydraulic pressure. The two-stage pumping system allows for rapid ram advance. The unloading pressure of the pump is 1,000 PSI. The 30GHR comes with a remote control with a 10 foot cord and is designed for continuous duty.

### Features

- 10,000 PSI high-pressure pump
- Powered by a 5.5 HP Honda engine
- Remote control with 10 foot cord
- Designed to operate single acting and double acting tools
- High-pressure relief valve
- Pressure matched quick coupler supplied
- Protective carrying cage
- Sight gauge to monitor hydraulic oil level

### Technical Data

| PARAMETER               | VALUE                            |
|-------------------------|----------------------------------|
| Gas Powered Motor       | 5.5 HP Honda Engine              |
| Control                 | Remote Control with 10 foot cord |
| Oil Delivery per minute | 430 cu in @ 400 PSI              |
|                         | 125 cu in @ 10,000 PSI           |
| Oil Reservoir           | 2 gallons (7.40 liters)          |
| Overall Length          | 21.75 in (55.25 cm)              |
| Overall Width           | 19.75 in (50.17 cm)              |
| Overall Height          | 24.50 in (62.23 cm)              |
| Pump Weight with oil    | 135 lbs (61.36 kg)               |

### Ordering Information

| AFL NO. | DESCRIPTION   |
|---------|---|
| 30GHR   | 10,000 PSI Gas Powered Hydraulic Pump with Remote Control |

**WARNING: Do not operate any compression tool without dies.**

## Hydraulic Hoses

HOSES



The 1/4" (0.635 cm) non-conductive, orange hose is made of an insulated, synthetic material. It allows a high flow rate for faster ram movement. Hoses are available with or without couplers for operating pressures of 10,000 PSI with a 4 to 1 burst ratio. Hoses are pre-filled with oil and pressure tested. The hoses are 3/8" NPT male thread on both ends and quick disconnects are 3/8" NPT female.

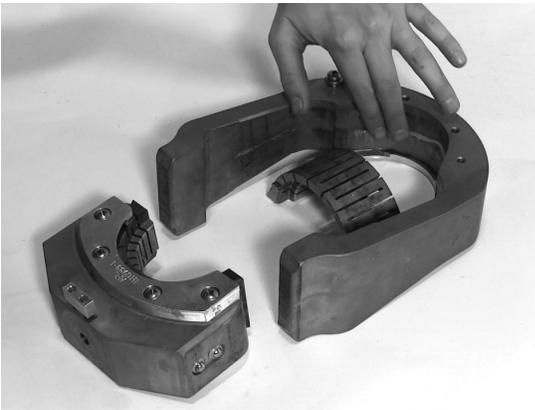
### Ordering Information

| AFL NO.   | DESCRIPTION  |
|-----------|--|
| 6HOSEM/M  | 6 Foot Hose with Male/male Couplers (1.83 Meters)    |
| 10HOSEM/M | 10 Foot Hose with Male/male Couplers (3.04 Meters)   |
| 15HOSEM/M | 15 Foot Hose with Male/male Couplers (4.37 Meters)   |
| 25HOSEM/M | 25 Foot Hose with Male/male Couplers (7.62 Meters)   |
| 6HOSEM/F  | 6 Foot Hose with Male/female Couplers (1.83 Meters)  |
| 10HOSEM/F | 10 Foot Hose with Male/female Couplers (3.04 Meters) |
| 15HOSEM/F | 15 Foot Hose with Male/female Couplers (4.37 Meters) |
| 25HOSEM/F | 25 Foot Hose with Male/female Couplers (7.62 Meters) |

**WARNING:** Hoses connecting hydraulic equipment should not extend straight upward more than 25 feet (7.6 meters).

## Swage Tool Assembly and Overview Instructions

1. Apply Swage lube to the head, die block and the outside of each Swage die. Spread evenly with fingers.
2. With the die faceplate off, slide die into grooved area of the head ensuring it sits correctly in the bottom faceplate.



3. Install the top faceplate to lock the die into the head assembly using a Phillips head screw driver. Repeat steps for the die block assembly.



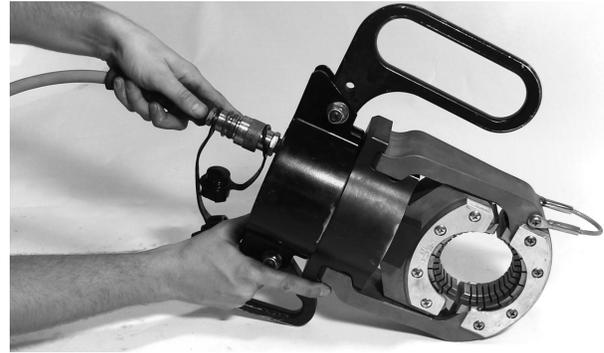
*continued*  
→

## Swage Tool Assembly and Overview Instructions (cont.)

4. Attach the die block to power unit by holding the unlock button on the side of the die block. Slide the pin into bottom and release lock.



6. Remove safety caps from the bottom of power unit and the hose fitting. Insert hose fitting into power unit and tighten to ensure a tight seal.



5. Slide the head assembly on to the power unit and ensure the rollers on the die block roll into place. (**Note:** Incorrect assembly could damage the tool and dies when compressed. Ensure your press head is aligned with the power unit.)



*continued*  
→

## Swage Tool Maintenance Instructions

1. Disassemble press head from power unit.
2. Disassemble press head: Remove the die face plates and the top die.
3. Use aerosol parts cleaner to spray press head, die and face plates. Wipe off with a clean rag to remove any grease, dirt or debris.
4. Reassemble press head: Re-install one face plate on the press head, apply Swage grease to the press head surface that comes in contact with the die when assembled, apply Swage grease to the outside of the die, then install the die into the press head. Next, install the second face plate.
5. Remove the die block from the power unit.
6. Disassemble the die block by removing both face plates and die.
7. Use aerosol parts cleaner to spray die block, die and face plates. Wipe off with a clean rag to remove any grease, dirt or debris.
8. Reassemble die block: Re-install one face plate on the die block, apply Swage grease to the die block surface that comes in contact with the die when assembled, apply Swage grease to the outside of the die, then install the die into the die block. Next, install the second face plate.
9. Use aerosol parts cleaner to spray the power unit. Wipe off with a clean rag to remove any grease, dirt or debris.
10. Re-install the die block onto the power unit. Then re-install the press head assembly.

**NOTE: THE 45 AND 65 TON PRESS SHOULD BE CLEANED AFTER EACH USE AND/OR WHEN DIES ARE CHANGED.**

### Preventive Maintenance Instructions

#### Before Each Use:

- Ensure the swivel is secured tightly.
- Ensure the quick disconnect is tight and works properly
- Ensure the piston is fully retracted and flush with the top of the power unit surface.
- Ensure the die block lock button is operating properly and that the die block engages into the power unit correctly.
- Ensure the quick disconnect is tight and works properly.
- After the 45 or 65 Ton Press is fully assembled, run to full compression a few times to ensure there are no leaks and/or lack of compression.

#### Other Things to Inspect:

- Check Swage dies for debris between slots and for any cracks. Clean the dies using a wire brush and a rag to remove metal chips, excess grease and dirt between the slots of the dies. Use a rag to “floss” each groove in the die blocks. (See Tool Maintenance Instructions for more information.)
- Perform die penetrate inspection on the cylinder and head at least once per year.



**Please contact your AFL Sales Representative for information about our other products or services.**

**FIBER OPTIC CABLE  
(OPGW, ADSS, Loose Tube)**



**FIBER OPTIC CABLE  
ACCESSORIES**

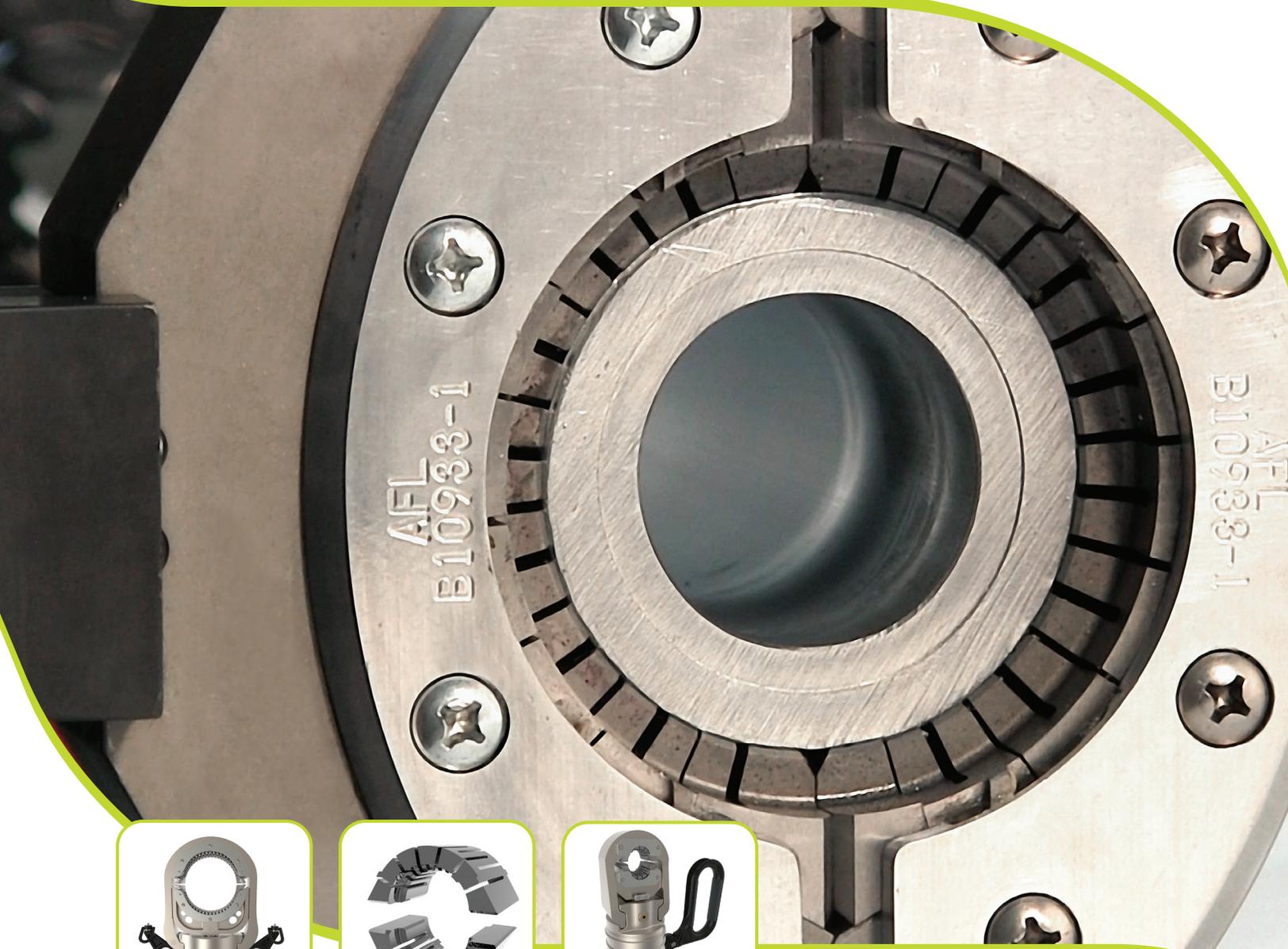


**TRANSMISSION AND  
DISTRIBUTION**



**SUBSTATION AND  
NETWORK UNDERGROUND**





AFL  
B10933-1

AFL  
B10933-1

