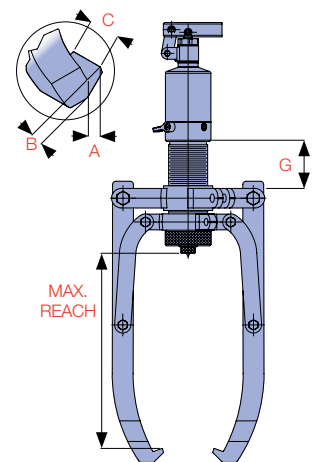
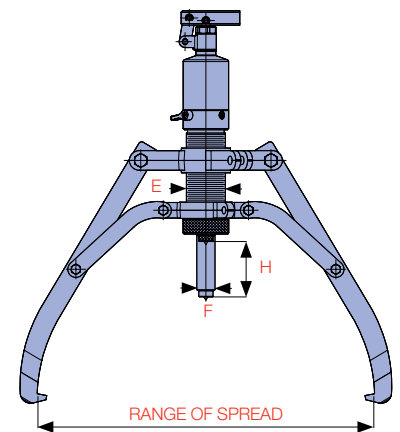
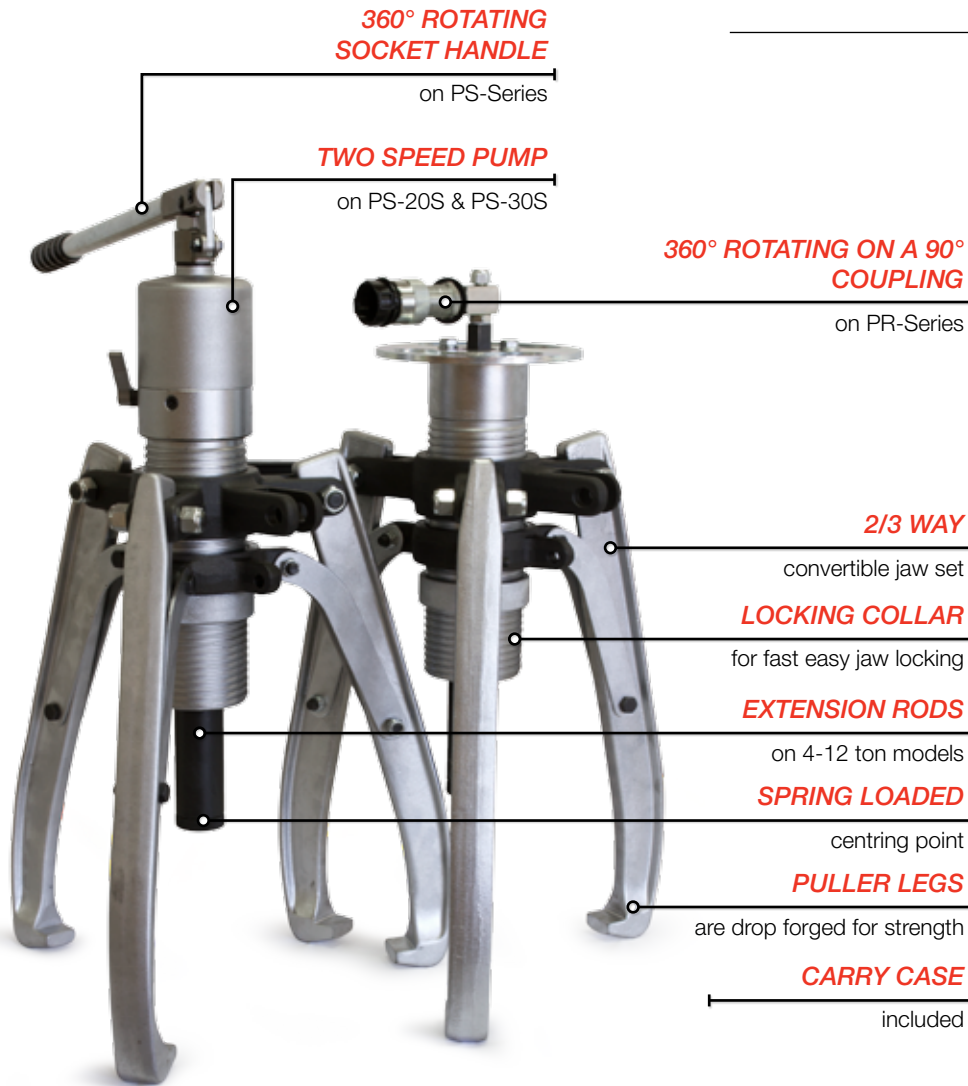


THE **PR & PS-SERIES** PULLERS ARE A CONVERTIBLE 2 OR 3 WAY UNIT FOR A ONE PERSON OPERATION.

Available in remote and self-contained versions from 4-30 ton capacity. The PS-Series 3 in 1 puller is a double acting unit designed for pushing, outer pulling and inner pulling.



| Model No. | Puller Type    | Capacity (ton) | Max. Reach (mm) | Range of Spread (mm) | Extension Rods | Jaw Tip (mm) |      |      | Hydraulic Cylinder (mm) |    |    | Stroke (mm) | Weight (kg) |
|-----------|----------------|----------------|-----------------|----------------------|----------------|--------------|------|------|-------------------------|----|----|-------------|-------------|
|           |                |                |                 |                      | 58 mm - Qty    | A            | B    | C    | E                       | F  | G  |             |             |
| PS-04S    | Self-contained | 4              | 190             | 67.5 - 325           | 2              | 13           | 10   | 22   | 42                      | 22 | 40 | 60          | 8           |
| PR-04     | Remote         |                | 190             | 67.5 - 325           | 2              | 13           | 10   | 22   | 42                      | 22 | 40 | 60          | 6           |
| PS-08S    | Self-contained | 8              | 280             | 107.0 - 450          | 3              | 13           | 13   | 27.5 | 50                      | 25 | 70 | 85          | 12          |
| PR-08     | Remote         |                | 280             | 107.0 - 450          | 3              | 13           | 13   | 27.5 | 50                      | 25 | 70 | 85          | 9           |
| PS-12S    | Self-contained | 12             | 305             | 94.5 - 485           | 4              | 15           | 16.5 | 29   | 60                      | 28 | 70 | 85          | 15          |
| PR-12     | Remote         |                | 305             | 94.5 - 485           | 4              | 15           | 16.5 | 29   | 60                      | 28 | 70 | 85          | 12          |
| PS-20S    | Self-contained | 20             | 365             | 128.4 - 570          | -              | 20           | 27   | 33   | 80                      | 40 | 62 | 111         | 26          |
| PR-20     | Remote         |                | 365             | 128.4 - 570          | -              | 20           | 27   | 33   | 80                      | 40 | 62 | 111         | 24          |
| PS-30S    | Self-contained | 30             | 465             | 128.5 - 680          | -              | 20           | 27   | 38   | 98                      | 50 | 85 | 111         | 36          |
| PR-30     | Remote         |                | 465             | 128.5 - 680          | -              | 20           | 27   | 38   | 98                      | 50 | 85 | 111         | 34          |

## SELF-CONTAINED HAND PUMP

rotates 360°

## DOUBLE ACTING CYLINDER

allows for pushing/outer pulling and inner pulling

## VARIABLE HEIGHT

extension legs

## 3 JAW STRUCTURE

provides even force

## STEEL CARRY CASE

included

## INTERNAL PULLER

allows removal of oil seals, bushings and bearings



CAPACITY

**4 - 30 ton**

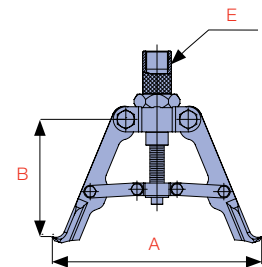
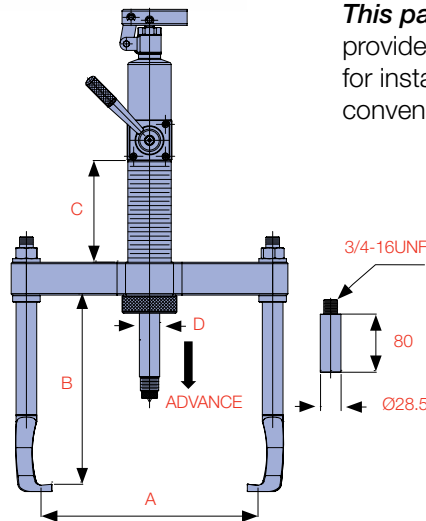
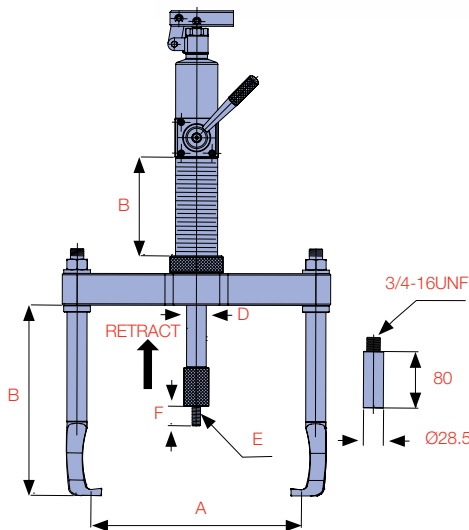
MAXIMUM OPERATING PRESSURE

**700 bar**

F

HYDRAULIC TOOLS

*This patented double acting design provides the operator with a 3 in 1 tool for installing, outer and inner pulling with convenience and safety.*



FOR OUTER PULLING



FOR OUTER/INNER INSTALLING



INNER PULLING ATTACHMENT

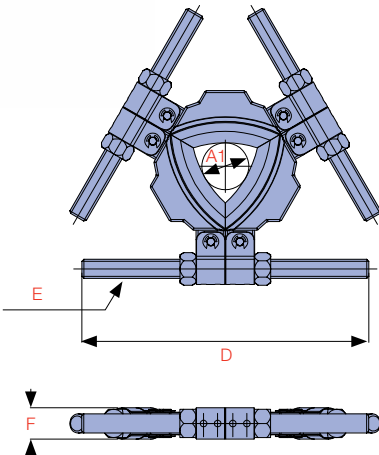
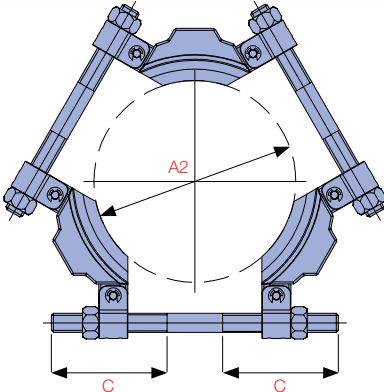
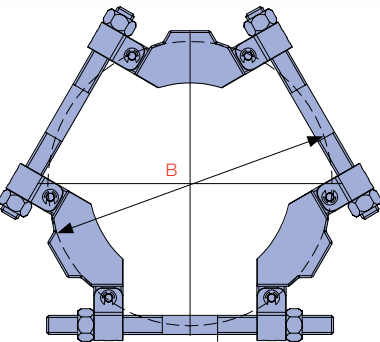
| Model No. | Puller Type   | Capacity (ton) | A (mm)  | B (mm)    | C (mm) | D (mm) | E          | F (mm) | Weight (kg) |
|-----------|---------------|----------------|---------|-----------|--------|--------|------------|--------|-------------|
| PS-1208D  | Installing    | 8              | 44-280  | 270 + 80  | 140    | 28     | M12 x 1.75 | 30     | 19.5        |
|           | Outer Pulling | 12             | 85-300  | 260 + 80  | 140    | 28     | -          | -      |             |
|           | Inner Pulling | 8              | 110-210 | 130 - 150 | -      | -      | 1"-12UNF   | -      |             |

THE **ET-SERIES** TRI-SECTIONAL PLATES ARE SPECIALLY DESIGNED FOR USE WITH THE PR & PS-SERIES PULLERS.

The unique and patented swing design creates the maximum spread and provides the most even force. The plates grip behind the inner and outer rings of the bearing together which prevents the pulling force from being transmitted through the rolling parts, minimising the risk of bearing damage.



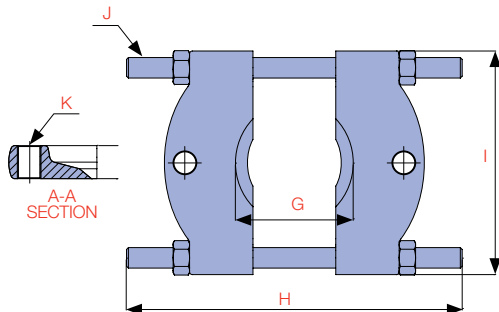
Swivel point allows wide spread



| Model No. | Rated Capacity (ton) | Shaft Diameter |           | B Max. Spread (mm) | C (mm) | D (mm) | E            | F (mm) | Weight (kg) |
|-----------|----------------------|----------------|-----------|--------------------|--------|--------|--------------|--------|-------------|
|           |                      | A1 (Min.)      | A2 (Max.) |                    |        |        |              |        |             |
| ET3-210   | 8                    | 50             | 210       | 280                | 117    | 285    | 7/8"-14UNF   | 31     | 5.5         |
| ET3-340   | 20                   | 90             | 340       | 460                | 175    | 460    | 1 1/4"-12UNF | 47     | 18          |
| ET3-495   | 30                   | 140            | 495       | 660                | 235    | 660    | 1 3/4"-12UNF | 63     | 45          |

THE **BS-SERIES** CROSS BEARING ATTACHMENTS PROVIDE A KNIFE-LIKE EDGE TO GET BEHIND PARTS FOR ADDED VERSATILITY AND SECURE REMOVAL OF PARTS.

Great for parts that do not offer adequate grip with jaw type pullers. All bearing/pulley attachments include the bearing attachment, a pair of sized thread-in legs and a sliding cross head. Simply add the hydraulic cylinder from your PR/PS-Series puller set.



| Model No. | G<br>(Min./Max.) | H<br>(mm) | I<br>(mm) | J          | K          | Weight<br>(kg) |
|-----------|------------------|-----------|-----------|------------|------------|----------------|
| BS-5-60   | 5-60             | 125       | 70        | 3/8"-24UNF | 3/8"-16UNC | 0.6            |
| BS-15-60  | 15-60            | 135       | 127       | 1/2"-20UNF | 3/8"-16UNC | 1.4            |
| BS-12-70  | 12-70            | 163       | 156       | 5/8"-18UNF | 1/2"-12UNC | 2.5            |
| BS-28-150 | 28-150           | 260       | 204       | 3/4"-16UNF | 5/8"-11UNC | 5.5            |
| BS-20-200 | 20-200           | 350       | 288       | 1"-14UN    | 3/4"-10UNC | 8.5            |

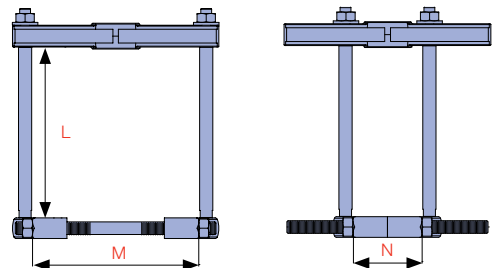


F

HYDRAULIC TOOLS



BEARING/PULLEY ATTACHMENT SET



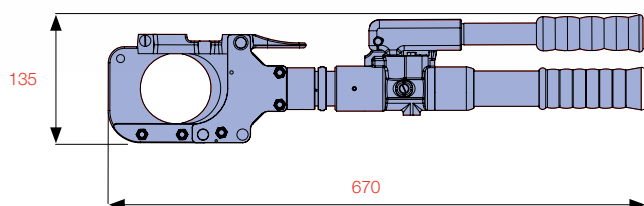
| *Model No. | Capacity<br>(ton) | Reach<br>L<br>(mm) | Spread    |           | Weight<br>(kg) | Inc. Bearing<br>Attachment |
|------------|-------------------|--------------------|-----------|-----------|----------------|----------------------------|
|            |                   |                    | M<br>(mm) | N<br>(mm) |                |                            |
| BS-04250   | 4                 | 250                | 110       | 55        | 6.5            | BS-12-70                   |
| BS-08270   | 8                 | 270                | 220       | 95        | 9.5            | BS-28-150                  |
| BS-12380   | 12                | 380                | 290       | 225       | 13             | BS-20-200                  |

\* Excludes cylinder pump

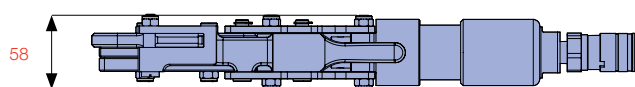
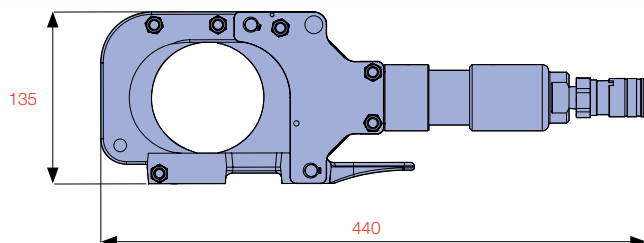




HC-85S



HC-85R

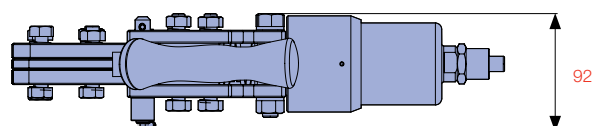
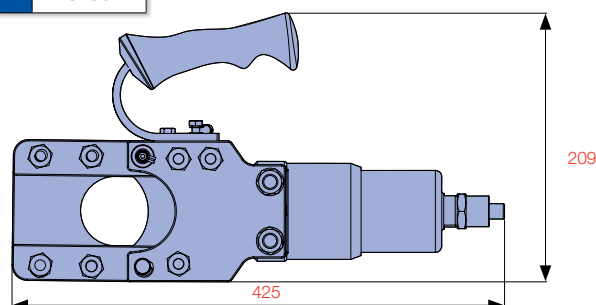


THE **HC-SERIES** OF REMOTE AND SELF-CONTAINED HYDRAULIC CUTTERS CONSISTS OF SIX MODELS WITH A CUTTING CAPACITY UP TO 120 MM DIAMETER.

They cut with ease through cable, round bar, wire rope, wire strand and more. They are a proven performer in the electrical, railway, mining, manufacturing and construction industries. The HC Series Cutters feature superior guillotine-type cutting, flip-top latch for easy insertion of cutting material and blades that are easily replaceable. The two larger self-contained models incorporate a two stage pump. All models are spring return and the self-contained models have a 180° rotating head. The remote models can be operated by a 700 bar single acting hydraulic pump or power unit. They are compact, lightweight, easy to use and are supplied in a heavy duty canvas carry bag.



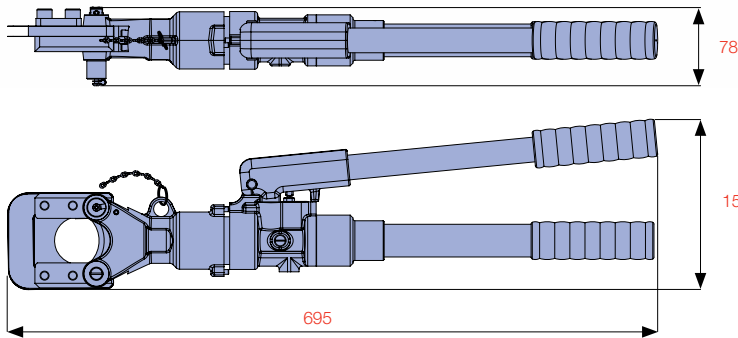
HC-55R



| Model No. | Operation      | Wire Rope |           |           | Soft Steel Bar (mm) | Reinforcing Rod (mm) | Copper Cable (mm) | Aluminium Cable (mm) | ACSR (mm) |
|-----------|----------------|-----------|-----------|-----------|---------------------|----------------------|-------------------|----------------------|-----------|
|           |                | 6x7 (mm)  | 6x12 (mm) | 6x19 (mm) |                     |                      |                   |                      |           |
| HC-24S    | Self-contained | 18        | 24        | 24        | 20                  | 16                   | 24                | 24                   | 24        |
| HC-45S    | Self-contained | 22        | 25        | 25        | 20                  | 16                   | 45                | 45                   | 45        |
| HC-55R    | Remote         | 25        | 30        | 30        | 22                  | 19                   | 50                | 50                   | 50        |
| HC-85R    | Remote         | -         | -         | -         | -                   | -                    | 85                | 85                   | -         |
| HC-85S    | Self-contained | -         | -         | -         | -                   | -                    | 85                | 85                   | -         |
| HC-120R   | Remote         | -         | -         | -         | -                   | -                    | 120               | 120                  | -         |



HC-45S



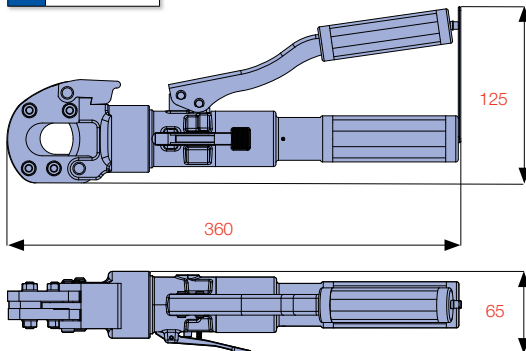
CUTTING CAPACITY UP TO  
**120 mm diam.**

OPERATION  
**Remote &  
Self-Contained**

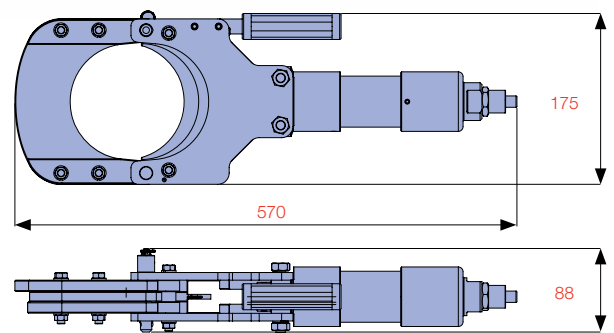
MAXIMUM OPERATING  
PRESSURE  
**700 bar**



HC-24S






HC-120R



| Guy Wire |           | CCP Cable (mm) | Max. Pressure (bar) | Oil Required (cc) | Max. Output (ton) | Cylinder Stroke (mm) | Weight (kg) |
|----------|-----------|----------------|---------------------|-------------------|-------------------|----------------------|-------------|
| 1x7 (mm) | 1x19 (mm) |                |                     |                   |                   |                      |             |
| 16       | 16        | -              | 700                 | 56                | 6.7               | 28.0                 | 4.0         |
| 16       | 20        | -              | 700                 | 145               | 10.0              | 50.0                 | 7.0         |
| 16       | 20        | -              | 700                 | 106               | 14.9              | 55.6                 | 9.0         |
| -        | -         | 85             | 700                 | 73                | 5.6               | 90.8                 | 5.1         |
| -        | -         | 85             | 700                 | 168               | 5.6               | 90.8                 | 9.0         |
| -        | -         | 120            | 700                 | 193               | 10.6              | 129.6                | 10.0        |

THE **CRK-SERIES** MAINTENANCE AND REPAIR KITS ARE AN INDISPENSABLE HYDRAULICALLY POWERED TOOL SET.

They can be used for pressing, spreading, lifting, straightening and clamping in workshops and collision repair centres. Most components are threaded for durability and the extension tubes feature a heavy wall for increased resistance to bending and deformation. All kits are supplied with industry standard high flow hydraulic couplings and dust caps.

| PART DESCRIPTION  | Maintenance & Repair Kit Model |         |         |
|---|--------------------------------|---------|---------|
|   | CRK-10                         | CRK-10D | CRK-20D |
|   | 10 ton                         | 10 ton  | 20 ton  |
| <br>2-SPEED 700 BAR PUMP            | P-260                          | P-260   | P-270   |
| <br>1.5 MTR HOSE & COUPLER          | ✓                              | ✓       | ✓       |
| <br>10 TON CYLINDER<br>150 MM STROKE | RC-106T                        | RC-106T |         |
| <br>20 TON CYLINDER<br>127 MM STROKE |                                |         | RC-205T |
| <br>1/2 TON<br>SPREADER             | DHS-05                         | DHS-05  |         |
| <br>5 TON 154 MM<br>PULL CYLINDER   |                                | RP-56   |         |
| <br>GAUGE ADAPTOR                   | ✓                              | ✓       | ✓       |
| <br>LIQUID FILLED<br>FORCE GAUGE     | ✓                              | ✓       | ✓       |

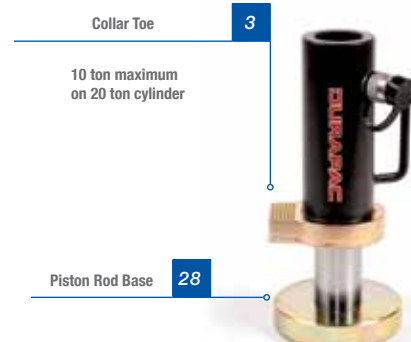
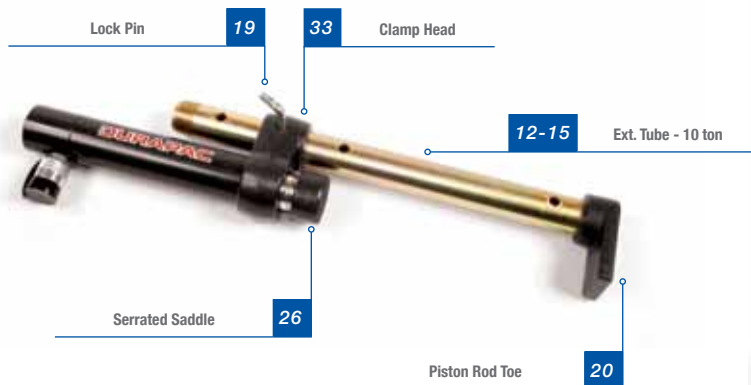
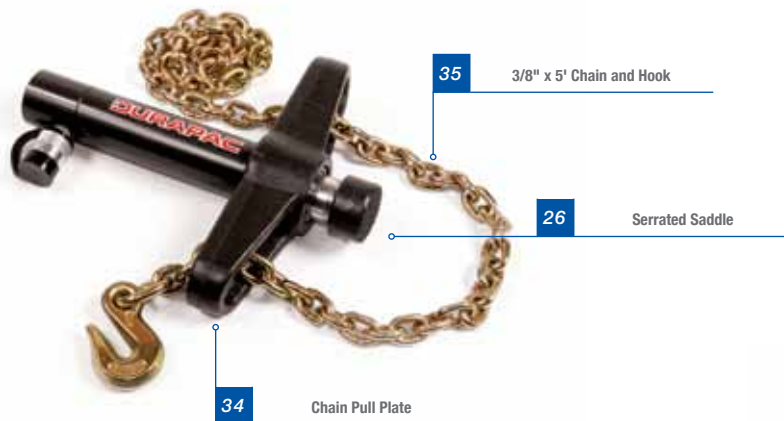
NOTE - SEE TABLE ON PAGE 126 FOR ADDITIONAL COMPONENTS

## APPLICATION EXAMPLES



### WARNING

When cylinders are used with maintenance set attachments or components, the maximum system pressure must generally be limited to half the rated pressure (350 bar).



CAPACITY

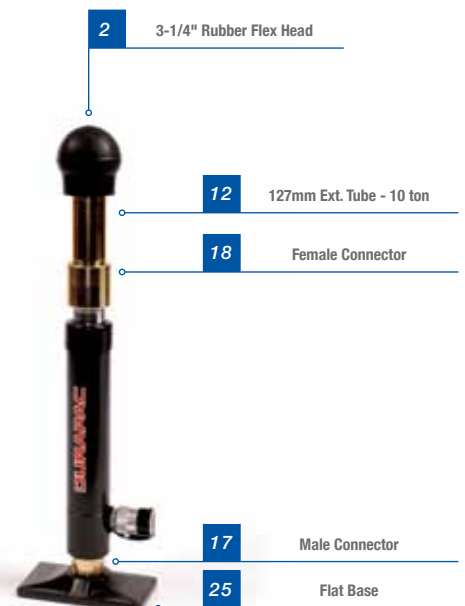
**10 & 20 ton**

MAXIMUM OPERATING PRESSURE

**700 bar**

F

HYDRAULIC TOOLS





**F**
**HYDRAULIC TOOLS**

|    | DESCRIPTION                     | STANDARD<br>CRK-10 | DELUXE<br>CRK-10D | STANDARD<br>CRK-20D |
|----|---------------------------------|--------------------|-------------------|---------------------|
| 1  | Adj. Body Spoon                 |                    | ZAL1002           |                     |
| 2  | 3-1/4" Rubber Flex Head         | ZAL1003            | ZAL1003           |                     |
| 3  | Collar Toe                      |                    |                   | ZAL1039             |
| 4  | Pull Ring x 2                   |                    | ZAL1040           |                     |
| 5  | Pull Clamp x 2                  |                    | ZAL1063           |                     |
| 6  | Box Clamp x 2                   |                    | ZAL1064           |                     |
| 7  | Female Connector x 3            |                    |                   | ZAL1068             |
| 8  | 127 mm Ext. Tube                |                    |                   | ZAL1069             |
| 9  | 254 mm Ext. Tube                |                    |                   | ZAL1070             |
| 10 | 508 mm Ext. Tube                |                    |                   | ZAL1071             |
| 11 | 699 mm Ext. Tube                |                    |                   | ZAL1072             |
| 12 | 127 mm Ext. Tube                | ZAL1076            | ZAL1076           |                     |
| 13 | 254 mm Ext. Tube                | ZAL1077            | ZAL1077           |                     |
| 14 | 508 mm Ext. Tube                | ZAL1078            | ZAL1078           |                     |
| 15 | 635 mm Ext. Tube                | ZAL1079            | ZAL1079           |                     |
| 16 | Male Connector x 3              |                    |                   | ZAL1073             |
| 17 | Male Connector x 2              | ZAL1074            | ZAL1074           |                     |
| 18 | Female Connector x 2            | ZAL1075            | ZAL1075           |                     |
| 19 | Lock Pin x 1 ( x 2 for CRK10D ) | ZAL1101            | ZAL1101           | ZAL1101             |
| 20 | Piston Rod Toe                  | ZAL1177            | ZAL1177           |                     |
| 21 | Spreader Toe                    |                    | ZAL1178           |                     |
| 22 | 90° V Base                      | ZAL1179            | ZAL1179           |                     |
| 23 | Wedge Head                      | ZAL1180            | ZAL1180           |                     |
| 24 | Wedge Head                      |                    |                   | ZAL1100             |
| 25 | Flat Base                       | ZAL1181            | ZAL1181           |                     |
| 26 | Serrated Saddle                 | ZAL1182            | ZAL1182           |                     |
| 27 | Serrated Saddle                 |                    |                   | ZAL1097             |
| 28 | Piston Rod Base x 2             |                    |                   | ZAL1098             |
| 29 | Vee Head                        |                    |                   | ZAL1099             |
| 30 | Offset Pull Toe x 2             |                    | ZAL1183           |                     |
| 31 | Clamp End Toe                   |                    | ZAL1184           |                     |
| 32 | Collar Toe                      | ZAL1186            | ZAL1186           |                     |
| 33 | Clamp Head                      |                    | ZAL1189           |                     |
| 34 | Chain Pull Plate                |                    | ZAL1190           |                     |
| 35 | 3/8" x 5' Chain & Hook x 2      |                    | ZAL1386           |                     |
| 36 | 3-Shelf Service Cart            |                    | ZAL1009           | ZAL1009             |
| 37 | Metal Box                       | ZAL1405            |                   |                     |
|    | Weight                          | 39.5 kg            | 81.5 kg           | 76.5 kg             |

**1 ZAL1002**

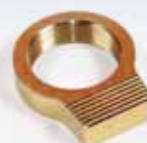
Adj. Body Spoon


**2 ZAL1003**

3-1/4" Rubber Flex Head


**3 ZAL1039**

Collar Toe


**4 ZAL1040**

Pull Ring


**5 ZAL1063**

Pull Clamp


**6 ZAL1064**

Box Clamp


**7 ZAL1068**

Female Connector - 20 ton


**8-11 ZAL1069/70/71/72**

127-699 mm Ext. Tube - 20 ton


**12-15 ZAL1076/77/78/79**

127-635 mm Ext. Tube - 10 ton

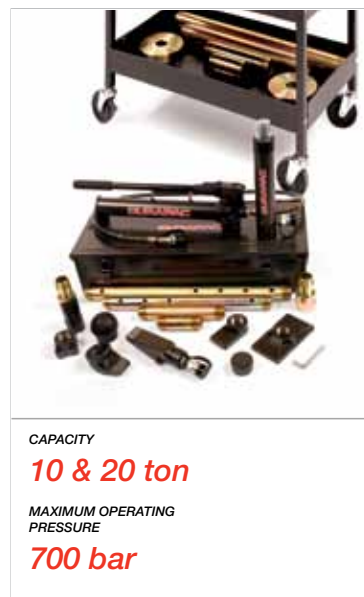

**16 ZAL1073**

Male Connector - 20 ton



## WARNING

When cylinders are used with maintenance set attachments or components, the maximum system pressure must generally be limited to half the rated pressure (350 bar).



\*NOT INCLUDED IN KITS