

# PULLERS

 Sykes-Pickavant®



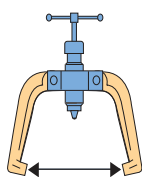


Sykes-Pickavant pullers are manufactured to a very high specification and subjected to rigorous testing - far exceeding their stated capacities. The legs and beams are drop forged from high quality steel and then heat treated for extra strength and durability. Pullers are normally classified as either hydraulic or mechanical with many different types within these two styles.

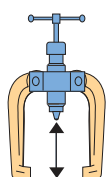
### CHOOSING THE RIGHT PULLER FOR THE JOB



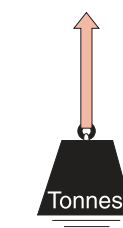
**Always use a 3 leg puller if possible**  
This gives a better load distribution and is much safer in use



Decide what 'spread' is required. This is determined by the width of the part to be pulled



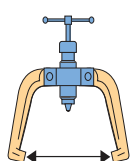
Decide what 'reach' is required. This must be at least equal to or larger than the depth of the part which needs removal



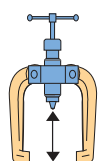
Estimate out what 'force' is required. More force may be required for rusted parts or where there is a large area of surface contact. Hydraulic pullers enable maximum force to be applied with minimum effort.

Alternatively, choose a puller whose force screw diameter is at least half the size of the shaft of the item to be removed. If in doubt, use the next largest - using an undersized puller will slow down the job and lead to frustration

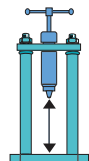
### QUICK REFERENCE GUIDE



Puller Spread  
Max mm



Puller Reach  
Max mm



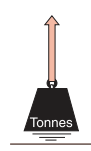
External Reach  
Max mm



Adaptor  
Diameter



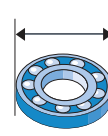
Leg  
Style



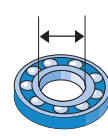
Safe Working  
Load (tonnes)



Ram Extension  
mm



External Spread  
mm



Internal Spread  
mm

## TYPES OF PULLER



### Hydraulic Pullers

These have a simple, grease-filled ram instead of a mechanical force screw, producing extra power with ease. The spring loaded plunger provides direct, non twisting application of thrust which is more effective and more secure



### Loadstar Hydraulic Pullers

Various styles available including Loadstar 8, 12 & 20 tonne and Loadstar 'Plus' 20, 30 & 50 tonne. For heavy duty pulling and extracting



### Mechanical Pullers

These use a mechanical force screw



### Thin Jaw Pullers

These have special legs for use where clearance is limited behind the gear or bearing race. Available in both hydraulic and mechanical



### Hub Pullers

Available in mechanical type with mechanical screw and also hydraulic with hydraulic ram. Sets to suit both light car and commercial vehicles. Additional legs and stud plates can be purchased if required



### Blind Housing Bearing Removers

These operate without the need to dismantle machinery or remove the running shaft. Enables bearings to be removed from shafts when a long reach is required



### Separators

For where all round support is required or where there is insufficient space for standard puller legs



### Slide Hammers

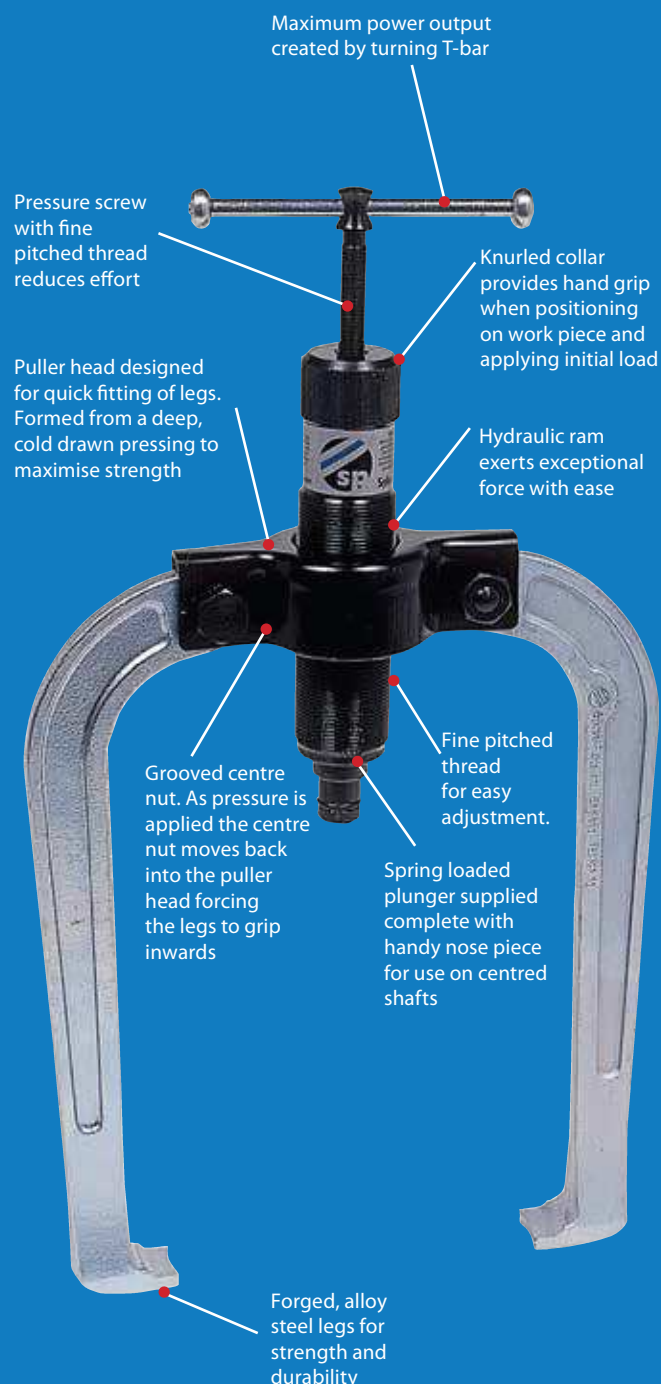
Used when there is no shaft, making a conventional puller unsuitable



### Split Collet Extractors

For blind housing internal use. The split collet is pushed into the centre of the bearing and then expanded via the hex nut on the end of the collet

## Hydraulic 1500 Series



# MECHANICAL GEAR



## Mechanical Gear Pullers

- For the quick and safe removal of gears, races, bearings, pulleys, sprockets etc
- Essential service tools for all classes of industrial and automotive maintenance work
- Pressure on the force screw automatically increases the grip of legs
- The legs on the 6"/150mm and 8"/200mm pullers are double-ended enabling them to be reversed for internal and external applications, whilst on the larger pullers the legs can be adjusted to vary the length of reach
- Forged steel legs, beams and jaws, heat treated for additional strength and durability

### TWIN LEG

- Two legs for removing gears, races, bearings and sprockets
- Can be upgraded for triple leg pulling
- Supplied in carton
- Refer to pages 167-170 for component illustrations

#### Specifications

Part No.	Spread Min - Max mm	Reach Max mm	Leg Style
083000	0 - 150	80	Double ended reversible
083100	0 - 200	140	
083200	0 - 300	250	Standard adjustable
083300	0 - 350	380	







# MECHANICAL GEAR

## TRIPLE LEG

- Three legs for removing gears, races, bearings and sprockets
- Supplied in carton
- Refer to pages 167-170 for component illustrations

### Specifications

 Part No.	 Spread Min - Max mm	 Reach Max mm	 Leg Style
082700	0 - 150	80	Double ended reversible
082800	0 - 200	140	
082900	0 - 300	250	Standard adjustable
083400	0 - 350	380	



082700



082800



082900







083400

## TWIN/TRIPLE LEG

- Twin and triple head (changed from beam) and double ended legs for a wide range of pulling options (082705, 082805)
- Two way & three way combination in one beam (660375)
- Supplied in carton
- Refer to pages 167-170 for component illustrations

### Specifications

 Part No.	 Spread Min - Max mm	 Reach Max mm	No. of Puller Combinations	 Leg Style
660375	0 - 100	75	4	Double ended reversible
082705	0 - 150	80	4	
082805	0 - 200	140	4	



660375

082705

### Contents

Part No.	Part No.	Qty	Description
660375	660361	1	Forcing Screw
	660364	1	Twin/Triple Head
	082714	3	Leg Assembly-Reversible
082705	082711	1	Forcing Screw
	660362	1	Twin Head
	660363	1	Triple Head
	082714	3	Leg Assembly-Reversible
082805	082811	1	Forcing Screw
	082812	1	Twin Head
	082813	1	Triple Head
	082814	3	Leg Assembly-Reversible



082805

# MECHANICAL GEAR

## MINI - Twin/Triple Leg

082300

### Mini Bearing Puller - Twin/Triple

- Fine pitch force screw with built in 'T' bar for smooth operation
- Two position adjustable leg for further pulling option
- 1 tonne capacity

**Specifications**

Part No.	Spread Min - Max mm	Reach Max mm	Leg Style
082300	0 - 60	50	Standard adjustable



082300

082450

### Mini Puller - 4 way

- Ideal for windscreen wiper arms
- Unique four way design allows for four different jaw widths to be selected
- Reversible and interchangeable legs
- Removable centrepiece for wider application coverage
- Capacity from 19-36mm



082450



Four Assembly Options

082150

### Fast Fit Micro Puller

- For rapid removal of small bearings
- Covers a wide range of automotive and engineering applications including alternators/generators, domestic appliances, power tools and pumps
- Self-centring force screw with 'T' bar and 13mm hexagon drive
- Drop forged legs with independent leaf springs
- Securing collar tightens under load for positive, non slip pulling action
- Suitable for ISO referenced bearings
- 1 tonne capacity

**Specifications**

Part No.	Spread Min - Max mm	Reach Min - Max mm
082150	19 - 45	19 - 73

**Contents**

Part No.	Qty	Description
082103	1	Forcing Screw
082104	1	Nose Piece Extension
082105	3	Leg



082150



## KITS - Twin/Triple Leg

### Twin/Triple Reversible Leg Kit

- Twin and triple head (changed from beam) and double ended legs for a wide range of pulling options
- Contains both **082705** and **082805** twin/triple leg pullers
- Supplied in metal case (**084900**) or carton (**084903**)
- Refer to pages 167-170 for component illustrations

#### Specifications

Part No.	Spread Min - Max mm	Reach Max mm	No. of Puller Combinations	Leg Style	Pkg
<b>084900</b>	0 - 200	140	4	Double ended reversible	Metal
<b>084903</b>	0 - 200	140	4		Carton

#### Contents 084900 & 084903

Part No.	Qty	Description
082711	1	Forcing Screw
082811	1	Forcing Screw
660362	1	Twin Head
082812	1	Twin Head
660363	1	Triple Head
082813	1	Triple Head
082714	3	Leg Assembly-Reversible
082814	3	Leg Assembly-Reversible



### 084200

### Mechanical Twin/Triple Leg Kit

- Makes 12 separate mechanical 2 or 3 leg pullers
- Twin and triple heads, double ended reversible and standard adjustable legs
- For a wide range of pulling options
- Supplied in metal case
- Refer to pages 167-170 for component illustrations

#### Specifications

Part No.	Spread Min - Max mm	Reach Max mm	No. of Puller Combinations	Leg Style
<b>084200</b>	0 - 350	380	12	Double ended reversible/standard adjustable



#### Contents

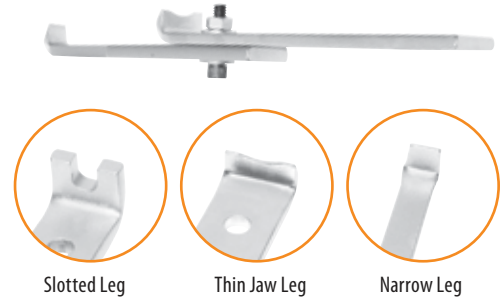
Part No.	Qty	Description	Part No.	Qty	Description
082711	1	Forcing Screw	082814	3	Leg Assembly - Reversible
660362	1	Twin Head	082911	1	Forcing Screw
660363	1	Triple Head	082912	1	Twin Head
082714	3	Leg Assembly - Reversible	082913	1	Triple Head
082811	1	Forcing Screw	082914	3	Leg Assembly - Standard Adjustable
082812	1	Twin Head	083314	3	Leg Assembly - Standard Adjustable
082813	1	Triple Head			

# MECHANICAL GEAR

## KITS - Twin/Triple Leg cont.

### Combi-Puller System

- Many puller/leg assembly combinations available
- Graduated beam for accurate leg positioning
- Legs can be bolted together to extend reach
- Four different leg shapes to cover wide application
- Available as twin or triple puller kit
- Available in 5 tonne and 10 tonne capacity
- Twin puller supplied in carton
- Triple puller supplied in sturdy metal box

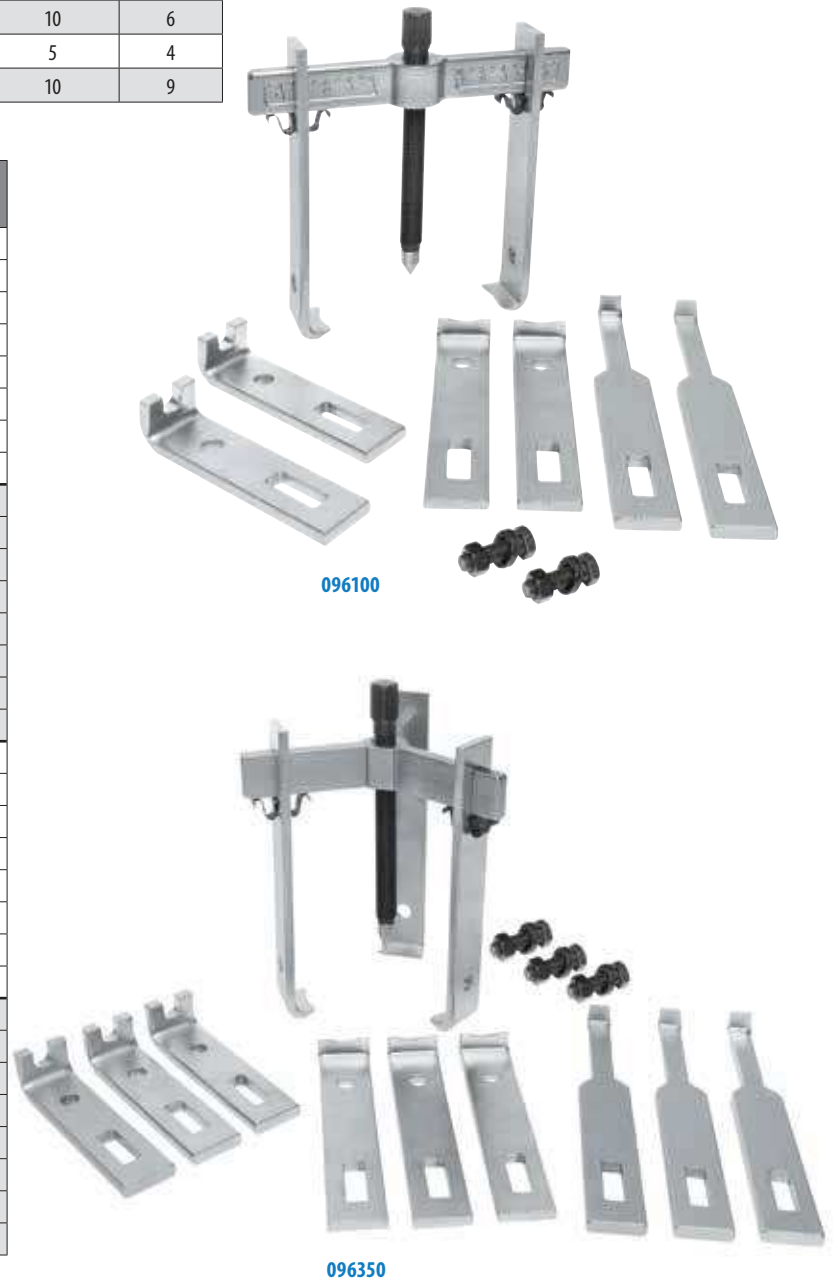


### Specifications

Part No.	Kit Style	Spread Min - Max mm	Reach Max mm	Load Capacity	Weight
096050	Twin	10 - 173	140	5	2.7
096100	Twin	20 - 250	182	10	6
096350	Triple	10 - 173	140	5	4
096450	Triple	20 - 250	182	10	9

### Contents

Kit Part No.	Part No.	Qty	Description
096050	096011	1	5T Force Screw
	096012	1	5T Twin Head
	096053	2	5T Narrow Leg - Long
	096054	2	5T Slotted Leg - Short
	096055	2	5T Thin Jaw Leg - Short
	096056	2	5T Thin Jaw Leg - Long
	096016	1	5T Leg Clips - Set of 4
	096014	2	5T Connecting Bolt Assembly
096100	096111	1	10T Force Screw
	096112	1	10T Twin Head
	096153	2	10T Narrow Leg - Long
	096154	2	10T Slotted Leg - Short
	096155	2	10T Thin Jaw Leg - Short
	096156	2	10T Thin Jaw Leg - Long
	096116	1	10T Leg Clips - Set of 4
	096114	2	10T Connecting Bolt Assembly
096350	096011	1	5T Force Screw
	096013	1	5T Triple Head
	096053	3	5T Narrow Leg - Long
	096054	3	5T Slotted Leg - Short
	096055	3	5T Thin Jaw Leg - Short
	096056	3	5T Thin Jaw Leg - Long
	096016	1	5T Leg Clips - Set of 4
	096014	3	5T Connecting Bolt Assembly
096450	096111	1	10T Force Screw
	096113	1	10T Triple Head
	096153	3	10T Narrow Leg - Long
	096154	3	10T Slotted Leg - Short
	096155	3	10T Thin Jaw Leg - Short
	096156	3	10T Thin Jaw Leg - Long
	096116	1	10T Leg Clips - Set of 4
	096114	3	10T Connecting Bolt Assembly





## KITS - Twin/Triple Leg & Separator

084906

### Mechanical Puller & Separator Kit

- Makes 8 separate mechanical 2 leg or 3 leg pullers with 2 bearing separator options
- Double ended reversible legs for a wide range of pulling options
- Supplied in metal case
- Refer to pages 167-170 for component illustrations

#### Specifications

Part No.	Spread Min - Max mm	Reach Max mm	External Spread Max mm	Leg Style
084906	200	140	105	Double ended reversible

#### Contents

Part No.	Qty	Description
082711	1	Forcing Screw
082714	3	Leg Assembly - Reversible
082811	1	Forcing Screw
082812	1	Twin Head
082813	1	Triple Head
082814	3	Leg - Double Ended Reversible
095000	1	Separator 10-55mm
095100	1	Separator 20-105mm
660362	1	Twin Head
660363	1	Triple Head



# MECHANICAL GEAR

## KITS - Twin/Triple Leg & Separator cont.

084206

### Mechanical Puller & Separator Kit

- Makes 12 separate mechanical 2 or 3 leg pullers with 3 bearing separator options
- Twin and triple heads and double ended reversible legs for a wide range of pulling options
- Supplied in metal case
- Refer to pages 167-170 for component illustrations



084206

#### Specifications

Part No.	Spread Max mm	Reach Max mm	External Spread Max mm	Leg Style
084206	350	380	140	Double ended reversible/standard adjustable

#### Contents

Part No.	Qty	Description	Part No.	Qty	Description
082711	1	Forcing Screw	082911	1	Forcing Screw
660362	1	Twin Head	082912	1	Twin Head
660363	1	Triple Head	082913	1	Triple Head
082714	3	Leg Assembly - Reversible	082914	3	Leg Assembly - Standard Adjustable
082811	1	Forcing Screw	083314	3	Leg Assembly - Standard Adjustable
082812	1	Twin Head	095000	1	Separator 10-55mm
082813	1	Triple Head	095100	1	Separator 20-105mm
082814	3	Leg Assembly - Reversible	095200	1	Separator 35-140mm

094003

### Multi Puller Pack

- Makes 5 different mechanical puller/separator combinations
- Consists of a thin jaw puller, reversible leg puller and bearing separator - the ideal combination for light applications
- Supplied in carton with foam inlays
- Refer to pages 167-170 for component illustrations



094003

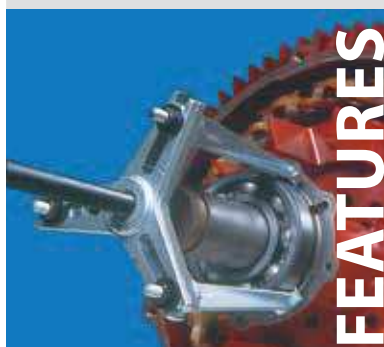
#### Specifications

Part No.	Spread Max mm	Reach Max mm	External Spread Max mm	Leg Style
094003	140	89	55	Double ended reversible/thin jaw

#### Contents

Part No.	Qty	Description	Part No.	Qty	Description
082718	2	M8 X 30 Bolt & Nut	660361	1	Forcing Screw
082811	1	Forcing Screw	095000	1	Separator 10-55mm
086014	2	Leg 75mm - Thin Jaw	660362	1	Twin Head
093012	1	Twin Beam	660363	1	Triple Head
093015	2	Main Rod	082714	3	Leg - Double Ended Reversible

# MECHANICAL THIN JAW GEAR



## Thin Jaw Pullers

- Specially designed leg jaw profile for pulling tasks where there is limited clearance behind the component to be removed. The jaw profile also features a wider load bearing surface than standard puller legs in order to provide a secure grip
- Manufactured to the same high specifications as the standard leg and using the same materials
- Available with either mechanical or 1500 series hydraulic power (see hydraulic section page 118)

### TWIN LEG - Thin Jaw

- Two legs for removing gears, races, bearings and sprockets
- Can be upgraded for triple leg pulling
- Supplied in carton
- Refer to pages 167-170 for component illustrations

#### Specifications

Part No.	Spread Min - Max mm	Reach Max mm	Leg Style
086000	0 - 75	75	Thin Jaw
086020*	0 - 75	125	
086100	0 - 150	150	
086200	0 - 225	225	
086300	0 - 150	225	

\* Includes force screw extension (50mm).



### TRIPLE LEG - Thin Jaw

- Three legs for removing gears, races, bearings and sprockets
- Supplied in carton
- Refer to pages 167-170 for component illustrations

#### Specifications

Part No.	Spread Min - Max mm	Reach Max mm	Leg Style
086010	0 - 75	75	Thin Jaw
086030*	0 - 75	125	
086400	0 - 150	150	
086500	0 - 150	225	

\* Includes force screw extension (50mm).



# MECHANICAL THIN JAW GEAR





## KITS - Thin Jaw Twin/Triple Leg

086003

### Mechanical Puller Kit - Thin Jaw

- Makes 4 mechanical 2 or 3 leg pullers
- Thin jaws enable access where clearance behind components is limited
- Supplied in carton
- Refer to pages 167-170 for component illustrations

#### Specifications

 Part No.	 Spread Max mm	 Reach Max mm	No. of Puller Combinations	 Leg Style
086003	75	115	4	Thin Jaw

#### Contents

Part No.	Qty	Description
082711	1	Forcing Screw
086012	1	Twin Beam
086013	1	Triple Beam
086014	3	Leg 75mm - Thin Jaw
086016	1	Extension
086024	3	Leg 110mm - Thin Jaw







086504

### Mechanical Puller Kit - Thin Jaw

- Contains components to make up 7 thin jaw leg pullers
- Thin jaws enable access where clearance behind components is limited
- Also available on display panel **086505**, see page 156
- Refer to pages 167-170 for component illustrations

#### Specifications

 Part No.	 Spread Max mm	 Reach Max mm	No. of Puller Combinations	 Leg Style
086504	184	225	7	Thin Jaw

#### Contents

Part No.	Qty	Description
086111	1	Forcing Screw
082911	1	Forcing Screw
086000	1	Puller - Thin Jaw
086112	1	Twin Beam
086212	1	Twin Beam
086513	1	Triple Beam
086114	3	Leg 150mm - Thin Jaw
086214	3	Leg 225mm - Thin Jaw



# MECHANICAL THIN JAW GEAR

## KITS - Thin Jaw Puller & Separator

093003

### Mechanical Puller & Separator Kit - Thin Jaw

- Combination small capacity puller and bearing separator pack
- Thin jaws enable access where clearance behind component is limited
- Supplied in carton
- Refer to pages 167-170 for component illustrations

#### Specifications

Part No.	Spread Max mm	Reach Max mm	External Spread Max mm	Leg Style
093003	75	115	55	Thin Jaw

#### Contents

Part No.	Qty	Description
082300	1	Mini Bearing Puller
086014	2	Leg 75mm - Thin Jaw
086024	2	Leg 110mm - Thin Jaw
082811	1	Forcing Screw
093012	1	Twin Beam
093015	2	Main Rod
095000	1	Separator 10-55mm



093003

093005

### Mechanical Puller & Separator Kit - Thin Jaw

- Pulling unit with small capacity bearing separator and thin jaw legs will remove bearings inaccessible to standard puller jaws
- Supplied in carton
- Refer to pages 167-170 for component illustrations

#### Specifications

Part No.	Spread Max mm	Reach Max mm	External Spread Max mm	Leg Style
093005	75	75	55	Thin Jaw

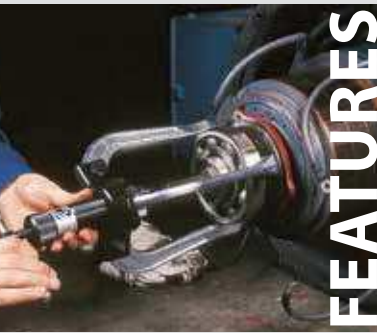
#### Contents

Part No.	Qty	Description
082811	1	Forcing Screw
086014	2	Leg 75mm - Thin Jaw
093012	1	Beam Twin
093015	2	Main Rod
095000	1	Separator 10-55mm



093005

# HYDRAULIC GEAR



## Hydraulic Gear Pullers

- Ideal for wide range of automotive and industrial applications including gear pulling, bearing extraction and hub removal
- Powered by the 1500 series hydraulic ram – applies 8 tonnes of force with ease
- Three basic components – the ram, a twin head and a triple head – provide the basis for a highly versatile pulling system. Capacity can be varied simply by changing legs and additional attachments are available for hub and bearing pulling. Unnecessary duplication of parts is avoided
- Safe and easy to use, simple to adjust, self centring and self locking
- Non-twisting for improved stability
- Forged alloy steel legs for strength and durability

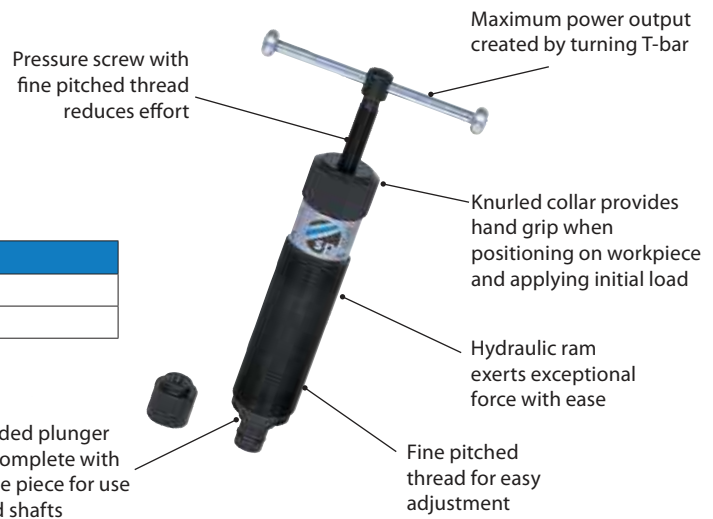
### 1500 SERIES HYDRAULIC RAM

#### 150000

#### 1500 Series Hydraulic Ram

- Grease filled
- Direct force improves stability under load
- Provides maximum withdrawal force of 80 KN

Part No.	Qty	Description
150000	1	Hydraulic Ram
	1	Nose Piece



#### 150024

#### 1500 Series Hydraulic Ram Repair Kit

- Contains seals and grease required to repair **150000** Hydraulic Ram
- Supplied with installation manual



#### 127300

#### Hydraulic Ram Converter

- Converts the 1500 series hydraulic ram to mechanical, using forcing screw and shock handle
- In addition the impact shock handle to screw has a sliding centre spindle which allows the operator to strike the end when fully loaded. This assists the release of stubborn joints or taper fits

#### Contents


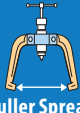
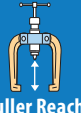
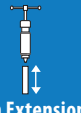

Part No.	Qty	Description
082519	1	Shock Handle 203mm
127311	1	Forcing Screw 285mm 1.5" X 16 BSW



TWIN LEG

- Two legs for removing gears, bearings, pulleys and sprockets
- Supplied with nose piece for use on centred shafts
- Can be upgraded for triple leg pulling
- Supplied in carton
- Refer to pages 171-175 for component illustrations

Specifications


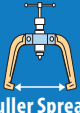
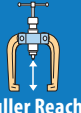


 Part No.	 Puller Spread Min-Max mm	 Puller Reach Max mm	 Ram Extension mm	 Leg Style
152400	50 - 100	100	50	Standard
152600	75 - 150	150	100	
152700	75 - 150	250	150	
152800	100 - 200	200	150	
152900	130 - 250	250	150	

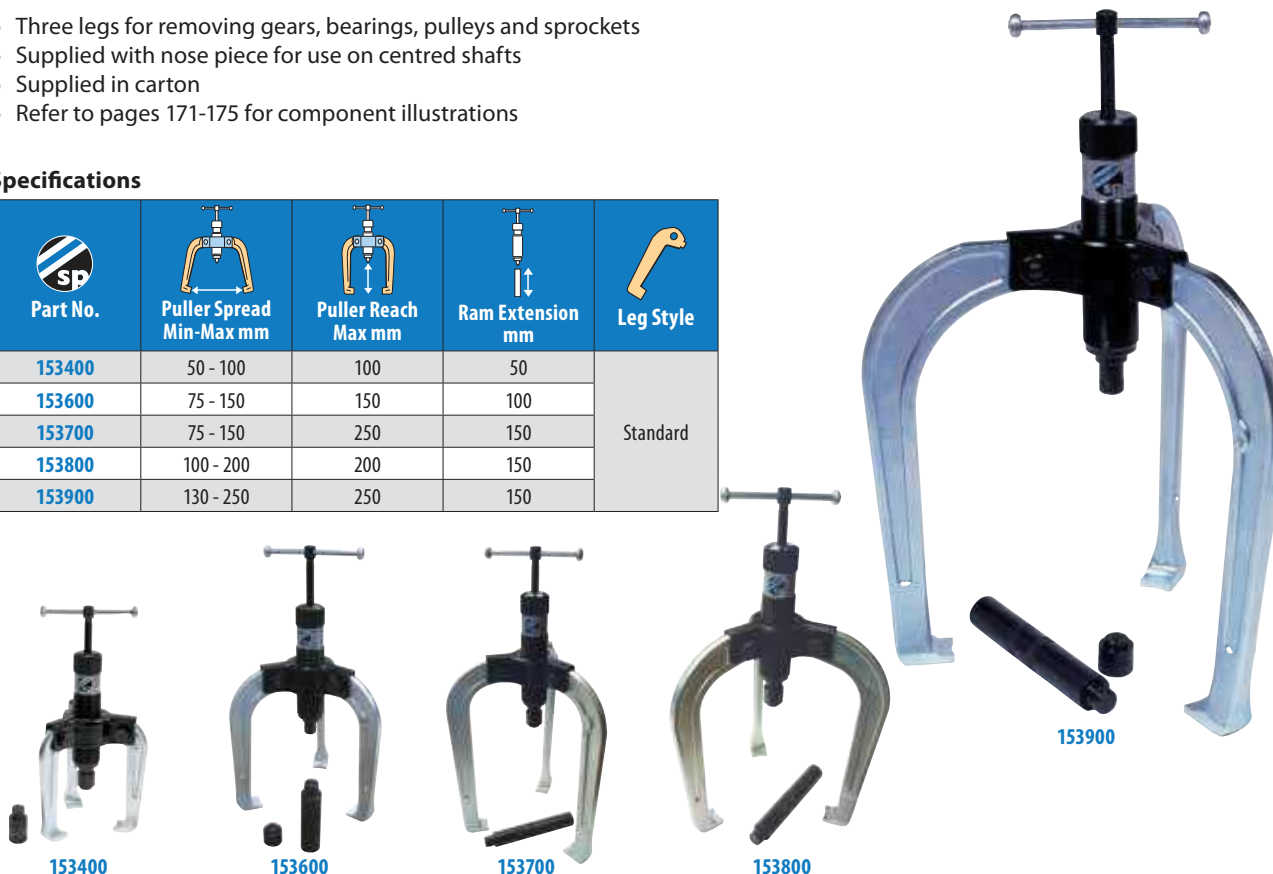


TRIPLE LEG

- Three legs for removing gears, bearings, pulleys and sprockets
- Supplied with nose piece for use on centred shafts
- Supplied in carton
- Refer to pages 171-175 for component illustrations

Specifications

 Part No.	 Puller Spread Min-Max mm	 Puller Reach Max mm	 Ram Extension mm	 Leg Style
153400	50 - 100	100	50	Standard
153600	75 - 150	150	100	
153700	75 - 150	250	150	
153800	100 - 200	200	150	
153900	130 - 250	250	150	



PULLERS

# HYDRAULIC GEAR

## KITS - Twin/Triple Leg

154900

### Hydraulic Twin Leg Kit

- Makes 2 different pullers
- Self centring and self locking
- Refer to pages 171-175 for component illustrations

#### Specifications

Part No.	Puller Spread Min-Max mm	Puller Reach Max mm	Ram Extension mm	Leg Style
154900	75 - 100	150	50 / 100	Standard

#### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece
152412	1	Twin Head
152422	1	Ram Extension - 50mm
152624	1	Ram Extension - 100mm
152424	2	Leg 100mm
152626	2	Leg 150mm



154900

153405

### Hydraulic Twin/Triple Leg Kit

- Combination twin/triple leg puller kit complete with ram extension offers a wide range of pulling options
- Makes 2 different twin/triple leg pullers
- Wide range of kits to suit most applications
- Supplied in carton
- Refer to pages 171-175 for component illustrations

#### Specifications

Part No.	Puller Spread Min-Max mm	Puller Reach Max mm	Ram Extension mm	Leg Style
153405	50 - 100	100	50	Standard

#### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece
152412	1	Twin Head
153413	1	Triple Head
152422	1	Ram Extension - 50mm
152424	3	Leg - 100mm



153405








## 155000 & 155003

### Hydraulic Twin/Triple Leg Kits

- Makes 3 different twin/triple leg pullers
- Supplied in metal case (**155000**) or in carton (**155003**)
- Refer to pages 171-175 for component illustrations

#### Specifications

 Part No.	 Puller Spread Min-Max mm	 Puller Reach Max mm	 Ram Extension mm	 Leg Style	Pkg
<b>155000</b>	75 - 150	150	50 / 100	Standard	Metal
<b>155003</b>	75 - 150	150	50 / 100	Standard	Carton

#### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece
152412	1	Twin Head
153413	1	Triple Head
152422	1	Ram Extension - 50mm
152624	1	Ram Extension - 100mm
152424	3	Leg - 100mm
152626	3	Leg - 150mm








155000 & 155003

## 155008

### Hydraulic Twin/Triple Leg Kit

- Makes 6 different twin/triple leg pullers
- Supplied in metal case
- Refer to pages 171-175 for component illustrations

#### Specifications

 Part No.	 Puller Spread Min-Max mm	 Puller Reach Max mm	 Ram Extension mm	 Leg Style
<b>155008</b>	50 - 200	200	50 / 100	Standard

#### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram with Nose Piece
152412	1	Twin Head
153413	1	Triple Head
152422	1	Ram Extension - 50mm
152624	1	Ram Extension - 100mm
152424	3	Leg - 100mm
152626	3	Leg - 150mm
152828	3	Leg - 200mm



155008

# HYDRAULIC GEAR






## KITS - Twin/Triple Leg cont.

155100

### Hydraulic Twin/Triple Leg Puller Kit

- Makes 10 different twin/triple leg pullers
- Supplied in metal case
- Refer to pages 171-175 for component illustrations

#### Specifications

				
<b>Part No.</b>	<b>Puller Spread mm</b>	<b>Puller Reach Max mm</b>	<b>Ram Extension mm</b>	<b>Leg Style</b>
155100	50 - 250	250	50 / 100 / 150	Standard

#### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece
152412	1	Twin Head
153413	1	Triple Head
152422	1	Ram Extension - 50mm
152624	1	Ram Extension - 100mm
152726	1	Ram Extension - 150mm
152424	3	Leg - 100mm
152626	3	Leg - 150mm
152828	3	Leg - 200mm
152727	3	Leg - 250mm
152929	3	Leg - 250mm (extra wide)








## KITS - Combination Twin/Triple Leg

154003

### Hydraulic Combination Twin Leg Kit

- Makes 4 different hydraulic pullers
- Combination standard and thin jaw leg puller
- Refer to pages 171-175 for component illustrations

#### Specifications

				
<b>Part No.</b>	<b>Puller Spread mm</b>	<b>Puller Reach Max mm</b>	<b>Ram Extension mm</b>	<b>Leg Style</b>
154003	50 - 150	225	50 / 100	Standard/Thin Jaw

#### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece
152412	1	Twin Head Assembly
193112	1	Twin Beam
152422	1	Ram Extension – 50mm
152624	1	Ram Extension – 100mm
152424	2	Leg - 100mm
152626	2	Leg - 150mm
086114	2	Leg 150mm - Thin Jaw
086214	2	Leg 225mm - Thin Jaw








154003

155004

### Hydraulic Combination Twin/Triple Leg Kit

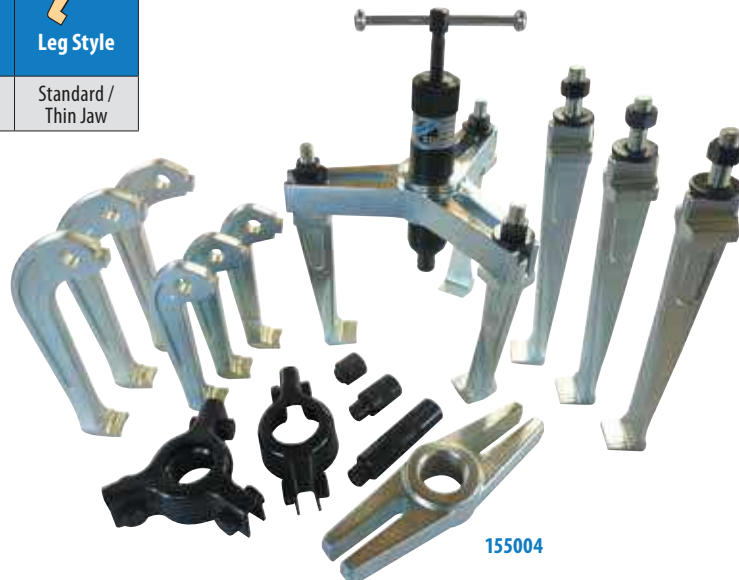
- Makes 8 different hydraulic pullers
- Combination standard and thin jaw leg puller
- Supplied in metal case
- Refer to pages 171-175 for component illustrations

#### Specifications

				
<b>Part No.</b>	<b>Puller Spread mm</b>	<b>Puller Reach Max mm</b>	<b>Ram Extension mm</b>	<b>Leg Style</b>
155004	50 - 225	225	50 / 100	Standard / Thin Jaw

#### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece
152412	1	Twin Head Assembly
193112	1	Twin Beam
153413	1	Triple Head Assembly
186513	1	Triple Beam
152422	1	Ram Extension – 50mm
152624	1	Ram Extension – 100mm
152424	3	Leg - 100mm
152626	3	Leg - 150mm
086114	3	Leg 150mm - Thin Jaw
086214	3	Leg 225mm - Thin Jaw



155004

# HYDRAULIC GEAR





## KITS - Twin/ Triple Leg & Separator

193100

### Hydraulic Separator Kit

- Versatile tool where a long reach is required to draw a bearing from a shaft
- Also available without hydraulic ram as kit **193101** (in carton)
- The tapered edges of the bearing separator provide all round support and can fit behind bearings where normal puller legs cannot gain access
- Supplied in metal case
- Refer to pages 171-175 for component illustrations

#### Specifications

 Part No.	 External Spread Min-Max mm	 External Reach Max mm	 Ram Extension mm
193100	20 - 105	876	100

#### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece
152624	1	Ram Extension - 100mm
193112	1	Twin Beam
095100	1	Separator 20-105mm
093115	2	Main Rod
093119	4	Extension Rod
093123	2	Extension Rod 5 inch







193100

193200

### Hydraulic Separator Kit - Heavy Duty

- Versatile tool where a long reach is required to draw a bearing from a shaft
- Also available without hydraulic ram as kit **193201** (in carton)
- The tapered edges of the bearing separator provide all round support and can fit behind bearings where normal puller legs cannot gain access
- Supplied in metal case
- Refer to pages 171-175 for component illustrations

#### Specifications

 Part No.	 External Spread Min-Max mm	 External Reach Max mm	 Ram Extension mm
193200	35 - 140	863	150

#### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece
152726	1	Ram Extension - 150mm
193212	1	Twin Beam
095200	1	Separator 35-140mm
093215	2	Main Rod
093219	4	Extension Rod
093223	2	Extension Rod 5 inch







193200

## 156000

### Hydraulic Internal/External Puller & Separator Kit

- For removing bearings, gears etc. where access behind components is too restricted to use standard pullers
- Drop forged, high quality steel, heat treated for strength and durability
- Separators have tapered edge for insertion behind close fitting bearings, gears etc
- Internal puller has screw adjustable legs for positive fit
- Supplied in metal case
- Refer to pages 171-175 for component illustrations

#### Specifications

			
<b>Part No.</b>	<b>External Spread Min-Max mm</b>	<b>External Reach Min-Max mm</b>	<b>Ram Extension mm</b>
156000	35 - 140	40 - 150	863

#### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece
152726	1	Ram Extension - 150mm
193212	1	Twin Beam
095200	1	Separator 35-145mm
093215	2	Main Rod
093219	4	Extension Rod
093223	2	Extension Rod 5 inch
093500	1	Internal Race Extractor

Part No.	Qty	Description
093111	1	Forcing Screw c/w Nut
093121	1	Thrust Race
093122	1	Convertor
093220	2	Protector









## 155200

### Hydraulic Puller & Separator Kit

- Makes 4 different twin/triple leg pullers, plus bearing separator kit
- Supplied in metal case
- Refer to pages 171-175 for component illustrations

#### Specifications

					
<b>Part No.</b>	<b>Puller Spread Min-Max mm</b>	<b>Puller Reach Max mm</b>	<b>External Spread Min-Max mm</b>	<b>External Reach Max mm</b>	<b>Leg Style</b>
155200	50 - 150	150	20 - 105	876	Standard

#### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece
152412	1	Twin Head
153413	1	Triple Head
152422	1	Ram Extension - 50mm
152624	1	Ram Extension - 100mm
152424	3	Leg - 100mm
152626	3	Leg - 150mm
193112	1	Twin Beam
095100	1	Separator 20-105mm

Part No.	Qty	Description
093115	2	Main Rod
093119	4	Extension Rod
093123	2	Extension Rod 5 inch



PULLERS

# HYDRAULIC GEAR

## KITS - Twin/Triple Leg & Separator cont.

155208

### Hydraulic Puller & Separator Kit

- Makes 6 different twin/triple leg pullers, plus bearing separator kit
- Supplied in metal case
- Refer to pages 171-175 for component illustrations

#### Specifications

Part No.	Puller Spread Min-Max mm	Puller Reach Max mm	External Spread mm	External Reach Max mm	Leg Style
155208	50 - 200	200	20 - 105	876	Standard

#### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece
152412	1	Twin Head
153413	1	Triple Head
152422	1	Ram Extension - 50mm
152624	1	Ram Extension - 100mm
152424	3	Leg - 100mm
152626	3	Leg - 150mm
152828	3	Leg - 200mm
193112	1	Twin Beam
095100	1	Separator 20-105mm
093115	2	Main Rod
093119	4	Extension Rod
093123	2	Extension Rod 5 inch



**155400**

## Hydraulic Puller & Separator Kit

- Versatile tool where a long reach is required to draw a bearing from a shaft
- The tapered edges of the bearing separator provide all round support and can fit behind bearings where normal puller legs cannot gain access
- Supplied in metal case
- Refer to pages 171-175 for component illustrations
- Also available on display panel **155405**, see page 159

### Specifications

Part No.	Puller Spread Min-Max mm	Puller Reach Max mm	External Spread mm	External Reach Max mm	Leg Style
155400	50 - 200	200	20 - 105	876	Standard



155405

### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece
152412	1	Twin Head
153413	1	Triple Head
152422	1	Ram Extension - 50mm
152624	1	Ram Extension - 100mm
152726	1	Ram Extension - 150mm
152424	3	Leg - 100mm
152626	3	Leg - 150mm
152828	3	Leg - 200mm
152727	3	Leg - 250mm
152929	3	Leg - 250mm (Extra Wide)
193112	1	Twin Beam
095100	1	Separator 20-105mm
093115	2	Main Rod
093119	4	Extension Rod
093123	2	Extension Rod 5 inch



155400

PULLERS

# HYDRAULIC GEAR

## KITS - Twin/Triple Leg & Separator cont.

155700

### Hydraulic Internal Extractor, Puller & Separator Kit

- Makes 10 different twin/triple leg pullers, plus bearing separator kit and internal extractor kit
- Supplied in metal case
- Refer to pages 171-175 for component illustrations

#### Specifications

Part No.	Puller Spread Min-Max mm	Puller Reach Max mm	External Spread mm	External Reach Max mm	Leg Style
155700	20 - 200	250	20 - 105	876	Standard

#### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram with Nose Piece
152412	1	Twin Head
153413	1	Triple Head
152422	1	Ram Extension - 50mm
152624	1	Ram Extension - 100mm
152726	1	Ram Extension - 150mm
152424	3	Leg - 100mm
152626	3	Leg - 150mm
152828	3	Leg - 200mm
152727	3	Leg - 250mm
152929	3	Leg - 250mm (extra wide)
193112	1	Twin Beam
095100	1	Separator 20-105mm
093115	2	Main Rod
093119	4	Extension Rod
093123	2	Extension Rod 5 inch
093500	1	Internal Race Extractor
093111	1	Forcing Screw c/w Nut
093121	1	Thrust Race
093122	1	Converter
093120	2	Protector



155700









**155800**

## Hydraulic Internal Extractor, Puller & Heavy Duty Separator Kit

- Makes 10 different twin/triple leg pullers, plus heavy duty bearing separator kit and internal extractor kit
- Supplied in metal case
- Refer to pages 171-175 for component illustrations

### Specifications

 Part No.	 Puller Spread Min-Max mm	 Puller Reach Max mm	 External Spread mm	 External Reach Max mm	 Leg Style
155800	35 - 250	250	35 - 140	863	Standard

### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece
152412	1	Twin Head
153413	1	Triple Head
152422	1	Ram Extension - 50mm
152624	1	Ram Extension - 100mm
152726	1	Ram Extension - 150mm
152424	3	Leg - 100mm
152626	3	Leg - 150mm
152828	3	Leg - 200mm
152727	3	Leg - 250mm
152929	3	Leg - 250mm (Extra Wide)
193212	1	Twin Beam
095200	1	Separator 35-145mm
093215	2	Main Rod
093219	4	Extension Rod
093223	2	Extension Rod 5 inch
093500	1	Internal Race Extractor
093111	1	Forcing Screw c/w Nut
093121	1	Thrust Race
093122	1	Convertor
093220	2	Protector



155800

# HYDRAULIC GEAR

## KITS - Twin/Triple Leg & Separator cont.

155900

### Hydraulic Internal Extractor, Puller & Separator Kit - Master Set

- Makes 10 different twin/triple leg pullers, plus heavy duty bearing separator kit and internal extractor kit
- Supplied in metal case
- Refer to pages 171-175 for component illustrations

#### Specifications

Part No.	Puller Spread mm	Puller Reach Max mm	External Spread mm	External Reach Max mm	Leg Style
155900	20 - 250	250	20 - 140	876	Standard

#### Contents

Part No.	Qty	Description	Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece	093119	4	Extension Rod
152412	1	Twin Head	093123	2	Extension Rod 5 inch
153413	1	Triple Head	193212	1	Twin Beam
152422	1	Ram Extension - 50mm	095200	1	Separator 35-145mm
152624	1	Ram Extension - 100mm	093215	2	Main Rod
152726	1	Ram Extension - 150mm	093219	4	Extension Rod
152424	3	Leg - 100mm	093223	2	Extension Rod 5 inch
152626	3	Leg - 150mm	093500	1	Internal Race Extractor
152828	3	Leg - 200mm	093111	1	Forcing Screw c/w Nut
152727	3	Leg - 250mm	093121	1	Thrust Race
152929	3	Leg - 250mm (Extra Wide)	093122	1	Convertor
193112	1	Twin Beam	093120	2	Protector
095100	1	Separator 20-105mm	093220	2	Protector
093115	2	Main Rod			



155900

# HYDRAULIC THIN JAW GEAR



## Hydraulic Thin Jaw Pullers

- Designed for pulling jobs where clearance behind the component is limited. These jobs often require wide bearing surfaces on the jaws to give a secure grip - the thin jaw range meets these requirements
- Powered by the 1500 series hydraulic ram - applies 8 tonnes of force with ease
- Safe and easy to use, simple to adjust, self centring and self locking
- Non-twisting for improved stability
- Forged alloy steel legs for strength and durability

### TWIN LEG - Thin Jaw

- Two legs for removing gears, bearings, pulleys and sprockets
- Can be upgraded for triple leg pulling
- Thin jaws enable access where clearance behind components is limited
- Supplied in carton
- Refer to pages 171-175 for component illustrations

#### Specifications

Part No.	Puller Spread Min-Max mm	Puller Reach Max mm	Ram Extension mm	Leg Style
186100	50 - 150	150	50	Thin Jaw
186300	50 - 150	225	150	
186200	50 - 225	225	150	



### TRIPLE LEG - Thin Jaw

- Three legs for removing gears, bearings, pulleys and sprockets
- Thin jaws enable access where clearance behind components is limited
- Supplied in carton
- Refer to pages 171-175 for component illustrations

#### Specifications

Part No.	Puller Spread Min-Max mm	Puller Reach Max mm	Ram Extension mm	Leg Style
186400	50 - 150	150	50	Thin Jaw
186500	50 - 150	225	150	



PULLERS

# HYDRAULIC THIN JAW GEAR


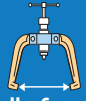
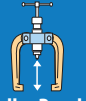


## KITS - Thin Jaw Twin/Triple Leg

186504

### Hydraulic Twin/Triple Leg Puller Kit - Thin Jaw

- Makes 5 different hydraulic and 1 mechanical thin jaw puller
- Supplied in metal case
- Refer to pages 171-175 for component illustrations
- Also available on display panel **186505**, see page 157

#### Specifications

				
<b>Part No.</b>	<b>Puller Spread Min-Max mm</b>	<b>Puller Reach Max mm</b>	<b>Ram Extension mm</b>	<b>Leg Style</b>
186504	50 - 225	225	50 / 150	Thin Jaw

#### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece
152422	1	Ram Extension - 50mm
152726	1	Ram Extension - 150mm
086012	1	Twin Beam
186212	1	Twin Beam
186513	1	Triple Beam
193112	1	Twin Beam
086014	2	Leg 75mm - Thin Jaw
086214	3	Leg 225mm - Thin Jaw
082711	1	Forcing Screw 12 X 1.75 X 150mm
086114	3	Leg 150mm - Thin Jaw



186504



186505






## KITS - Combination Twin/Triple Leg

154003

### Hydraulic Combination Twin Leg Kit

- Makes 4 different hydraulic pullers
- Combination standard and thin jaw leg puller
- Refer to pages 171-175 for component illustrations

#### Specifications

				
<b>Part No.</b>	<b>Puller Spread Min-Max mm</b>	<b>Puller Reach Max mm</b>	<b>Ram Extension mm</b>	<b>Leg Style</b>
154003	50 - 150	225	50 / 100	Standard/Thin Jaw

#### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece
152412	1	Twin Head Assembly
193112	1	Twin Beam
152422	1	Ram Extension - 50mm
152624	1	Ram Extension - 100mm
152424	2	Leg - 100mm
152626	2	Leg - 150mm
086114	2	Leg 150mm - Thin Jaw
086214	2	Leg 225mm - Thin Jaw



154003

# HYDRAULIC THIN JAW GEAR

155004






## Hydraulic Combination Twin/Triple Leg Kit

- Makes 8 different hydraulic pullers
- Combination standard and thin jaw leg puller
- Supplied in metal case
- Refer to pages 171-175 for component illustrations



155004

### Specifications

 Part No.	 Puller Spread Min-Max mm	 Puller Reach Max mm	 Ram Extension mm	 Leg Style
155004	50 - 225	225	50 / 100	Standard/ Thin Jaw

### Contents

Part No.	Qty	Description	Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece	152624	1	Ram Extension – 100mm
152412	1	Twin Head Assembly	152424	3	Leg - 100mm
193112	1	Twin Beam	152626	3	Leg - 150mm
153413	1	Triple Head Assembly	086114	3	Leg 150mm - Thin Jaw
186513	1	Triple Beam	086214	3	Leg 225mm - Thin Jaw
152422	1	Ram Extension – 50mm			






## KITS - Thin Jaw Twin Leg & Separator

193103

## Hydraulic Puller & Separator Kit - Thin Jaw

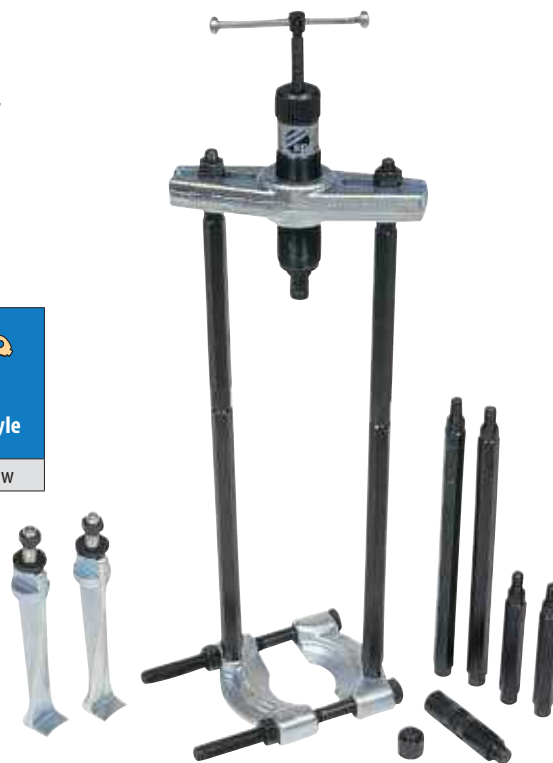
- Combination pack consisting of a medium duty hydraulic thin jaw puller and bearing separator
- Supplied in carton
- Refer to pages 171-175 for component illustrations
- Also available as **193104** kit without 150000 hydraulic ram\*

### Specifications

 Part No.	 Puller Spread Min-Max mm	 Puller Reach Max mm	 Ram Extension mm	 Leg Style
193103	50 - 105	876	50 / 100 / 150	Thin Jaw

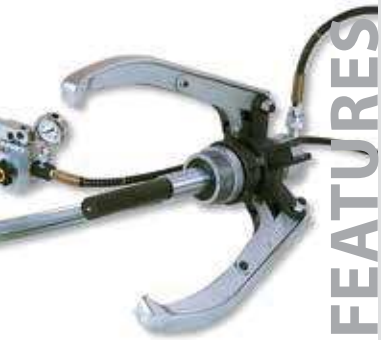
### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece*
152624	1	Ram Extension - 100mm
086114	2	Leg 150mm - Thin Jaw
193112	1	Twin Beam
095100	1	Separator 20-105mm
093115	2	Main Rod
093119	4	Extension Rod
093123	2	Extension Rod 5 inch



193103

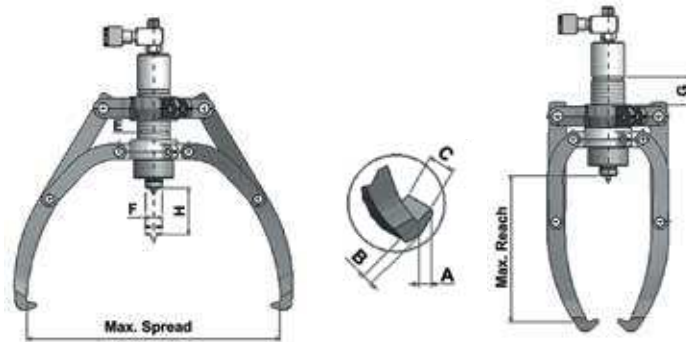
# LOADSTAR HEAVY DUTY



FEATURES

## Loadstar Pullers

- Self centring self locking puller legs, grip increases as load increases
- Easy one man operation, 2 and 3 way options
- 360 degree swivel hose coupling for optimum access
- Lightweight aluminium hydraulic pump included
- Selection of ram extension rods supplied to increase stroke
- In-built safety valve to prevent overloading



### Specifications

Capacity Tonnes	Part No.	Puller Spread Max mm	Puller Reach Max mm	Stroke mm H	Ram Dia mm E	Nose Dia. mm F	Travel mm G	Jaw Tip mm A	Jaw Tip mm B	Jaw Tip mm C	Weight kg
8 Tonne	201008	450	280	85	50	25	70	13	13	27.5	26
12 Tonne	201012	485	305	85	60	28	70	15	16.5	29	36
20 Tonne	201020	570	365	111	80	40	62	20	27	33	66

## LOADSTAR PULLERS

### 201008

#### Loadstar Puller 8 Tonne

- 8 tonne hydraulic ram and pump
- Selection of three ram extension rods supplied to increase stroke
- Spread 450mm
- Reach 280mm
- Puller supplied in sturdy plastic storage case
- Pump supplied in steel storage case
- See above for specifications

### Contents

Part No.	Qty	Description
200170	1	Hydraulic Pump Assembly
217200	1	High Pressure Hose 1.8m Long
217900	1	Gauge & Gauge Block
20100810	1	8T Hydraulic Ram
20100814	1	Leg Assembly
20100812	1	Head Assembly - Upper
20100813	1	Head Assembly - Lower
20100820	1	Ram Extension Set (3 piece)



201008

# LOADSTAR HEAVY DUTY

## 201012

### Loadstar Puller 12 Tonne

- 12 tonne hydraulic ram and pump
- Selection of four ram extension rods supplied to increase stroke
- Spread 485mm
- Reach 305mm
- Puller supplied in sturdy plastic storage case
- Pump supplied in steel storage case
- See page 134 for specifications

#### Contents

Part No.	Qty	Description
200170	1	Hydraulic Pump Assembly
217200	1	High Pressure Hose 1.8m Long
217900	1	Gauge & Gauge Block
20101210	1	12T Hydraulic Ram
20101214	1	Leg Assembly
20101212	1	Head Assembly - Upper
20101213	1	Head Assembly - Lower
20101220	1	Ram Extension Set (4 piece)



201012

## 201020

### Loadstar Puller 20 Tonne

- 20 tonne hydraulic ram and pump
- Puller and pump supplied in steel storage case
- Selection of four ram extension rods supplied to increase stroke
- Spread 570mm
- Reach 365mm
- Supplied in steel storage cases
- See page 134 for specifications

#### Contents

Part No.	Qty	Description
200170	1	Hydraulic Pump Assembly
217200	1	High Pressure Hose 1.8m Long
217900	1	Gauge & Gauge Block
20102010	1	20T Hydraulic Ram
20102014	1	Leg Assembly
20102012	1	Head Assembly - Upper
20102013	1	Head Assembly - Lower
20102020	1	Ram Extension Set (4 piece)



201020

# LOADSTAR HEAVY DUTY



## Loadstar "Plus" Pullers

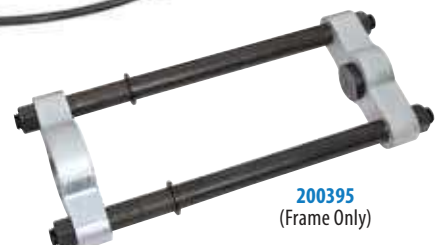
- Loadstar "Plus" heavy duty pullers offer a comprehensive range of pulling and extracting options
- Available in 20 tonne, 30 tonne and 50 tonne
- Choices range from fully equipped comprehensive kits or entry level puller kits with the capability to add on extra packs as required
- These extra packs consist of separator packs, accessory packs and in the 20 tonne version there is also a press frame pack available
- The Loadstar "Plus" series is a versatile range with options to suit all heavy duty pulling and extraction situations

### Loadstar "Plus" Specifications

Capacity Tonnes	Part No.	Pulling		External		Internal	200395 Press Frame				Stroke mm	Weight kg
		Spread mm	Reach mm	Spread Min - Max mm	Reach mm	Spread Min - Max mm	Throat		Extractor			
							Depth Min - Max mm	Width Min - Max mm	Pin Dia. Min - Max mm	Pin Length Min - Max mm		
20 Tonne	202000	530	760	-	-	-	-	-	-	-	152	88
	202001	530	760	-	-	-	-	-	-	-	152	83
	202020	-	-	50 - 175	420	-	-	-	-	-	152	54
	202040	-	-	-	-	-	365 - 460	165	18 - 50	17 - 150	152	47
	202045	530	760	50 - 175	420	75 - 225	-	-	-	-	152	150
	212000	-	-	-	-	-	365 - 460	165	18 - 50	17 - 150	152	71
	212001	-	-	-	-	-	365 - 460	165	18 - 50	17 - 150	152	65
	202050	530	760	50 - 175	420	75 - 225	365 - 460	165	18 - 50	17 - 150	152	195
30 Tonne	203000	530	580	-	-	-	-	-	-	-	50	92
	203001	530	580	-	-	-	-	-	-	-	50	86
	203020	-	-	50 - 175	860	-	-	-	-	-	50	63
	203050	530	580	50 - 175	860	75 - 225	-	-	-	-	50	160
50 Tonne	205000	530	470	-	-	-	-	-	-	-	50	106
	205001	530	470	-	-	-	-	-	-	-	50	100
	205020	-	-	50 - 175	750	-	-	-	-	-	50	68
	205050	530	470	50 - 175	750	75 - 225	-	-	-	-	50	180

### 200170 Hydraulic Pump Assembly Spare Parts

Part No.	Description
217200	High Pressure Hose 1.8m long
217400	Quick Coupling - Complete
217401	Quick Coupling - Male
217402	Quick Coupling - Female
217900	Gauge & Gauge Block
218000	Hydraulic Oil - 5 Litres





## LOADSTAR HEAVY DUTY

## 20 TONNE - Loadstar "Plus"

202000

## 20 Tonne Loadstar "Plus" Entry Level Kit

- 20 tonne hydraulic cylinder and pump
- Four pulling combinations
- Supplied in steel storage case
- 3 x cranked legs
- 3 x straight legs
- 3 x leg extensions
- Spread 530mm
- Reach 760mm
- See page 139 for kit contents
- See page 136 for specifications and hydraulic pump assembly spare parts



202001

## 20 Tonne Loadstar "Plus" Entry Level Kit (minus pump)

- 20 tonne hydraulic cylinder
- Capability as above for those customers who already have a suitable hydraulic pump (10,000 psi) with standard 3/4" hydraulic quick coupler
- Supplied in steel storage case
- 3 x cranked legs
- 3 x straight legs
- 3 x leg extensions
- Spread 530mm
- Reach 760mm
- See page 139 for kit contents
- See page 136 for specifications



202020

## 20 Tonne Loadstar "Plus" Separator Add-On Pack

- Provides all additional components to add bearing separator capability to the entry level kit without any duplication of parts
- Supplied in steel storage case
- See page 139 for kit contents
- See page 136 for specifications



202030

## 20 Tonne Loadstar "Plus" Accessories Add-On Pack

- Provides a range of accessories which increase the capability of the entry level kit (with or without the Separator Add-On pack)
- Includes five extractor (pushing) pins for those hard to reach applications
- Auto-grip collar and adaptor for quick change of pins
- Ram bases and heads for jacking applications
- Supplied in steel storage case
- See page 139 for kit contents
- See page 136 for specifications



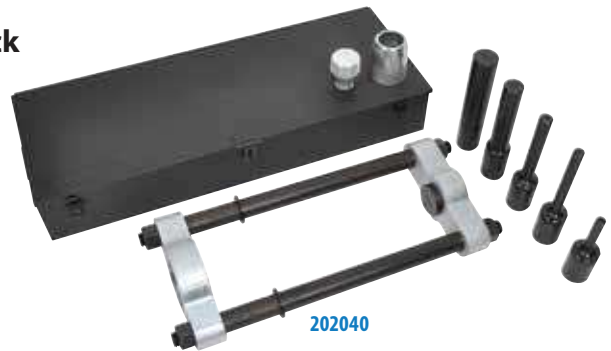
# LOADSTAR HEAVY DUTY

## 20 TONNE - Loadstar "Plus" cont.

**202040**

### 20 Tonne Loadstar "Plus" Press Frame Add-On Pack

- Press frame assembly to add portable press capability
- Particularly useful for removal of HGV suspension king pins
- Includes five extractor (pushing) pins for those hard to reach applications
- Auto grip collar and adaptor for quick change of pins
- Supplied in steel storage case
- See page 139 for kit contents
- See page 136 for specifications and hydraulic pump assembly spare parts



202040

**202045**

### 20 Tonne Loadstar "Plus" Puller/Separator Kit

- 20 tonne hydraulic cylinder and pump
- Contains full capability without any duplication of parts
- Four pulling combinations
- Bearing separator capability
- Supplied in steel storage case
- 3 x cranked legs
- 3 x straight legs
- 3 x leg extensions
- Spread 530mm
- Reach 760mm
- See page 139 for kit contents
- See page 136 for specifications and hydraulic pump assembly spare parts



202045

**212000**

### 20 Tonne Loadstar "Plus" Press Frame - Complete Kit

- 20 tonne hydraulic cylinder and pump
- Standalone portable press frame kit for pin pushing applications
- Particularly useful for removal of HGV suspension king pins
- Includes 5 extractor (pushing) pins for those hard to reach applications
- Auto grip collar and adaptor for quick change of pins
- Supplied in steel storage case
- See page 139 for kit contents
- See page 136 for specifications and hydraulic pump assembly spare parts

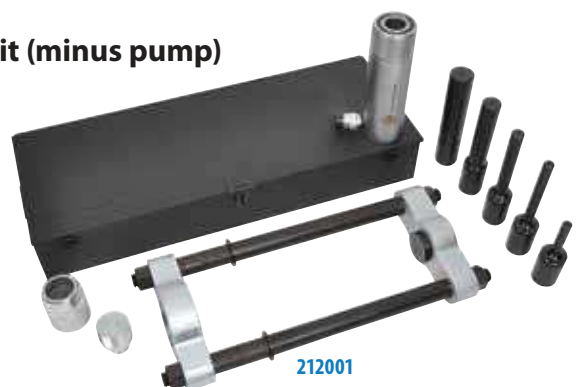


212000

**212001**

### 20 Tonne Loadstar "Plus" Press Frame - Complete Kit (minus pump)

- 20 tonne hydraulic cylinder
- Capability as above for those customers who already have a suitable hydraulic pump(10,000 psi) with standard 3/4" hydraulic quick coupler
- Supplied in steel storage case
- See page 139 for kit contents
- See page 136 for specifications



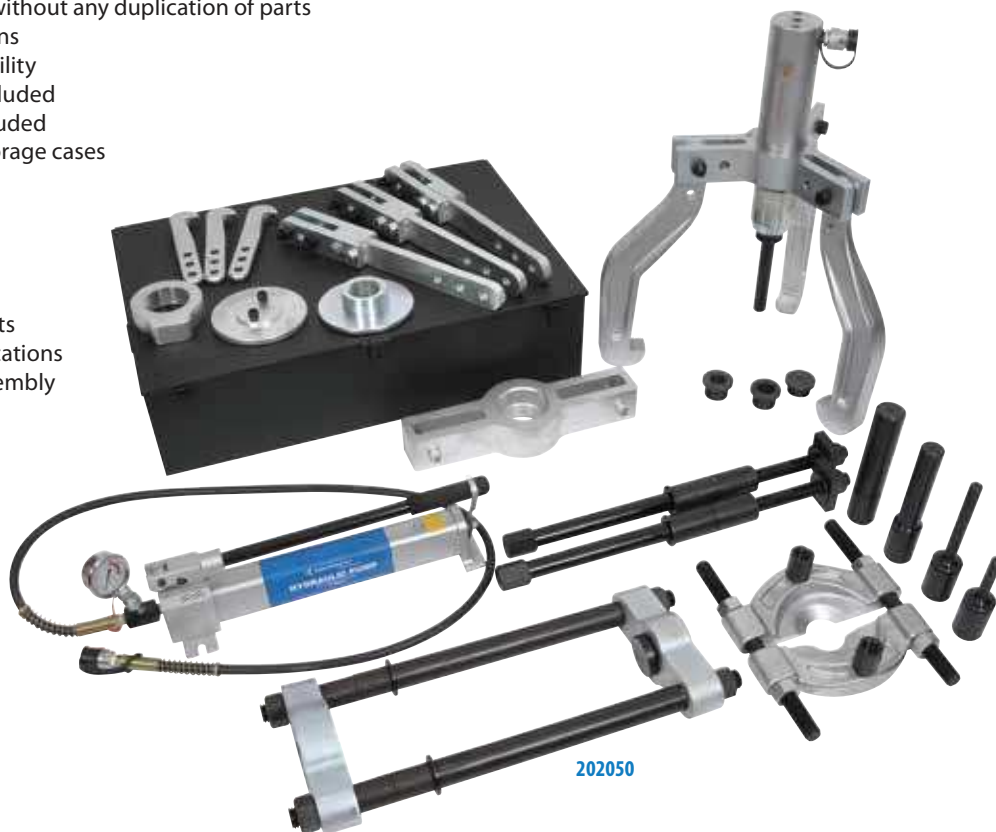
212001

# LOADSTAR HEAVY DUTY

**202050**

## 20 Tonne Loadstar "Plus" Master Kit

- 20 tonne hydraulic cylinder and pump
- Contains full capability without any duplication of parts
- Four pulling combinations
- Bearing separator capability
- Portable press frame included
- Internal pulling unit included
- Supplied in two steel storage cases
- 3 x cranked legs
- 3 x straight legs
- 3 x leg extensions
- Spread 530mm
- Reach 760mm
- See below for kit contents
- See page 136 for specifications and hydraulic pump assembly spare parts



202050

### Loadstar "Plus" 20 Tonne Kit Contents

Part No.	Description	Kit Part No.								
		202050	202000	202001	202020	202030	202040	202045	212000	212001
200170	Hydraulic Pump	1	1	-	-	-	-	1	1	-
200120	20T Hydraulic Cylinder	1	1	1	-	-	-	1	1	1
200285	20T 3 Way Beam incl. Pins & Nuts	1	1	1	-	-	-	1	-	-
200286	Puller Leg - Cranked	3	3	3	-	-	-	3	-	-
200284	Puller Leg - Straight	3	3	3	-	-	-	3	-	-
200192	Leg Extension incl Pins & Nuts	3	3	3	-	-	-	3	-	-
095300	Separator incl. Adaptors	1	-	-	1	-	-	1	-	-
200283	Twin Beam	1	-	-	1	-	-	1	-	-
200289	Rod Assembly	2	-	-	2	-	-	2	-	-
200124	Base Pushing Plate incl. Bolts	1	-	-	-	1	-	-	-	-
200121	Base	1	-	-	-	1	-	-	-	-
200123	Toe Lift Finished	1	-	-	-	1	-	-	-	-
200144	Extractor Pin 25 x 150	1	-	-	-	1	1	-	1	1
200145	Extractor Pin 50 x 150	1	-	-	-	1	1	-	1	1
200146	Extractor Pin 38 x 150	1	-	-	-	1	1	-	1	1
200147	Extractor Pin 18 x 75	1	-	-	-	1	1	-	1	1
200148	Extractor Pin 20 x 150	1	-	-	-	1	1	-	1	1
200149	Auto Grip Collar & Adaptor	1	-	-	-	1	1	-	1	1
200395	Press Frame	1	-	-	-	-	1	-	1	1
202083	Steel Storage Case	2	1	1	-	-	-	-	-	-
202084	Steel Storage Case	-	-	-	1	-	1	-	1	1
080382	Steel Storage Case	-	-	-	-	1	-	-	-	-

# LOADSTAR HEAVY DUTY

## 30 TONNE - Loadstar “Plus”

203000

### 30 Tonne Loadstar “Plus” Entry Level Kit

- 30 tonne hydraulic cylinder and pump
- Four pulling combinations
- Supplied in steel storage case
- 3 x cranked legs
- 3 x straight legs
- 3 x leg extensions
- Spread 530mm
- Reach 580mm
- See page 141 for kit contents
- See page 136 for specifications and hydraulic pump assembly spare parts



203001

### 30 Tonne Loadstar “Plus” Entry Level Kit (minus pump)

- 30 tonne hydraulic cylinder
- Capability as above for those customers who already have a suitable hydraulic pump (10,000 psi) with standard 3/4” hydraulic quick coupler
- Supplied in steel storage case
- Spread 530mm
- Reach 580mm
- See page 141 for kit contents
- See page 136 for specifications



203020

### 30 Tonne Loadstar “Plus” Separator Add-On Pack

- Provides all additional components to add bearing capability to the entry level kit without any duplication of parts
- Supplied in steel storage case
- See page 141 for kit contents
- See page 136 for specifications



## LOADSTAR HEAVY DUTY

203050

**30 Tonne Loadstar "Plus" Master Kit**

- 30 tonne hydraulic cylinder and pump
- Contains full capability without any duplication of parts
- Four pulling combinations
- Bearing separator capability
- Internal pulling unit included
- Supplied in two steel storage case
- 3 x cranked legs
- 3 x straight legs
- 3 x leg extensions
- Spread 530mm
- Reach 580mm
- See below for kit contents
- See page 136 for specifications and hydraulic pump assembly spare parts



203050

**Loadstar "Plus" 30 Tonne Kit Contents**

Part No.	Description	Kit Part No.			
		203050	203000	203001	203020
200170	Hydraulic Pump	1	1	-	-
200130	30T Hydraulic Cylinder	1	1	1	-
200384	30T Triple Beam incl Pins & Bolts	1	1	1	-
200286	Puller Leg – Cranked	3	3	3	-
200284	Puller Leg – Straight	3	3	3	-
200192	Leg Extension incl. Pins & Nuts	3	3	3	-
200131	Adjusting Screw	1	1	1	-
200132	Handle	1	1	1	-
200135	Rod End Cap	1	1	1	-
200481	M10 x 1.5 x 75mm Long Bolt	2	2	2	-
095300	Separator incl Adaptors	1	-	-	1
200584	Twin Beam	1	-	-	1
200289	Rod Assembly	2	-	-	2
200290	Extension Rod	2	-	-	2
200595	Internal Pulling Unit	1	-	-	-
300250	Connector	2	-	-	2
202083	Steel Storage Case	1	1	1	-
202084	Steel Storage Case	1	-	-	1

# LOADSTAR HEAVY DUTY

## 50 TONNE - Loadstar "Plus"

205000

### 50 Tonne Loadstar "Plus" Entry Level Kit

- 50 tonne hydraulic cylinder and pump
- Four pulling combinations
- Supplied in steel storage case
- 3 x cranked legs
- 3 x straight legs
- 3 x leg extensions
- Spread 530mm
- Reach 470mm
- See page 143 for kit contents
- See page 136 for specifications and hydraulic pump assembly spare parts



205001

### 50 Tonne Loadstar "Plus" Entry Level Kit (minus pump)

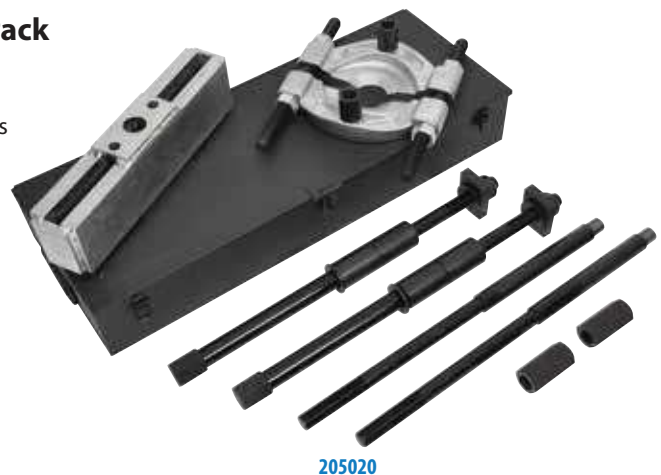
- 50 tonne hydraulic cylinder
- Capability as above for those customers who already have a suitable hydraulic pump (10,000 psi) with standard 3/4" hydraulic quick coupler
- Supplied in steel storage case
- Spread 530mm
- Reach 470mm
- See page 143 for kit contents
- See page 136 for specifications



205020

### 50 Tonne Loadstar "Plus" Separator Add-On Pack

- Provides all additional components to add bearing separator capability to the entry level kit without any duplication of parts
- Supplied in steel storage case
- See page 143 for kit contents
- See page 136 for specifications



# LOADSTAR HEAVY DUTY

## 205050

### 50 Tonne Loadstar "Plus" Comprehensive Kit

- 50 tonne hydraulic cylinder and pump
- Contains full capability without any duplication of parts
- Four pulling combinations
- Bearing separator capability
- Internal pulling unit included
- Supplied in two steel storage cases
- 3 x cranked legs
- 3 x straight legs
- 3 x leg extensions
- Spread 530mm
- Reach 470mm
- See below for kit contents
- See page 136 for specifications and hydraulic pump assembly spare parts



#### Loadstar "Plus" 50 Tonne Kit Contents

Part No.	Description	Kit Part No.			
		205050	205000	205001	205020
200170	Hydraulic Pump	1	1	-	-
200150	50T Hydraulic Cylinder	1	1	1	-
200682	50T Triple beam incl Pins, Nuts & Bolts	1	1	1	-
200286	Puller Leg - Cranked	3	3	3	-
200284	Puller Leg - Straight	3	3	3	-
200192	Leg Extension incl. Pins & Nuts	3	3	3	-
200151	Adjusting Screw	1	1	1	-
200152	Handle	1	1	1	-
200155	Adjusting Screw cap ADZ 60	1	1	1	-
095300	Separators incl Adaptors	1	-	-	1
200685	Twin Beam incl Bolts	1	-	-	1
200289	Rod Assembly	2	-	-	2
200290	Extension Rod	2	-	-	2
200595	Internal Pulling Unit	1	-	-	-
300250	Connector	2	-	-	2
202083	Steel Storage Case	1	1	1	-
202084	Steel Storage Case	1	-	-	1

# SLIDE HAMMER PULLERS



## Slide Hammer Pullers

- A pulling system that offers versatility with many different puller combinations
- The system covers a wide range of automotive, industrial and engineering applications for bearings, gears, oil seals, bearing outer races and pinions
- The slide hammer allows the tool to be used where a conventional screw puller is not suitable due to the absence of a shaft

### COMBI PULL - Slide Hammer Pullers

085400

#### Slide Hammer Puller Kit - Combi Pull

- 3 straight legs, 3 cranked reversible legs for internal and external pulling
- Adjustable cone ensures positive location, minimising risk of slippage
- Supplied in metal case
- Refer to pages 176-177 for component illustrations

#### Specifications

Part No.	Leg Style	External Spread Min - Max mm	Internal Spread Min - Max mm	External Reach Max mm
085400	Straight	66 - 105	23 - 83	75
	Cranked	66 - 105	33 - 70	65

#### Contents

Part No.	Qty	Description
085412	1	Twin Beam
085413	1	Triple Beam
085414	3	Leg - Large
085415	3	Leg - Small Cranked
085421	1	Slide Hammer Assembly 1kg
085418	1	Cone



085400



# SLIDE HAMMER PULLERS

085450

## Slide Hammer Puller Kit - Combi Pull

- 16 different puller combinations and slide hammer operation
- Force screw operation produces 1 tonne pressure
- 3 straight legs, 3 cranked reversible legs
- Internal/external
- Includes 'T' bar and screw for manual operation
- Supplied in metal case
- Refer to pages 176-177 for component illustrations



085450

### Specifications

Part No.	Leg Style	External Spread Min - Max mm	Internal Spread Min - Max mm	External Reach Max mm
085450	Straight	66 - 105	23 - 83	75
	Cranked	66 - 105	33 - 70	65

### Contents

Part No.	Qty	Description	Part No.	Qty	Description
082103	1	Forcing Screw	08545270	1	Adaptor Nut
082104	1	Extension Piece	085453	1	Cone
085414	3	Leg - Large	085454	1	Twin Beam
085415	3	Leg - Small Cranked	085455	1	Triple Beam
085421	1	Slide Hammer Assembly 1kg			

085403

## Slide Hammer Puller Kit - Combi Pull & Split Collet Extractor

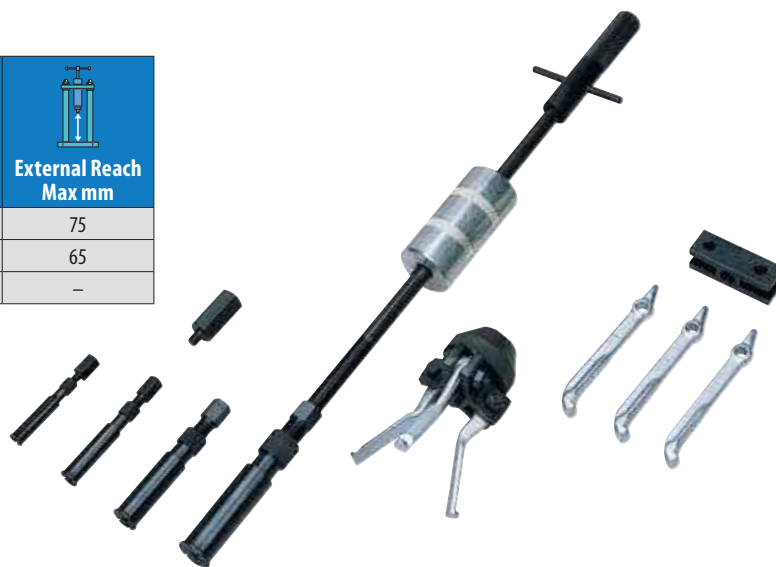
- 3 straight legs, 3 cranked reversible legs for internal and external pulling
- 4 split collet internal extractors
- Adjustable cone ensures positive location, minimising risk of slippage
- Supplied in carton
- Refer to pages 176-177 for component illustrations

### Specifications

Part No.	Leg Style	External Spread Min - Max mm	Internal Spread Min - Max mm	External Reach Max mm
085403	Straight	66 - 105	23 - 83	75
	Cranked	66 - 105	33 - 70	65
	Split Collets	-	10.5 - 30	-

### Contents

Part No.	Qty	Description
085400	1	Slide Hammer Puller Set
095811	1	Split Collet Extractor 10.5-13mm
095812	1	Split Collet Extractor 13-18mm
095813	1	Split Collet Extractor 18-22.5mm
095814	1	Split Collet Extractor 22.5-30mm
095820	1	Adaptor



085403



# SLIDE HAMMER PULLERS

## SPLIT COLLET EXTRACTOR PULLERS

### Internal Extractor Kits

- Extract components quickly and efficiently when conventional pullers cannot be used
- Removes bearings, oil seals etc
- Twin beam pulling unit attachment available **095805**
- Refer to pages 176-177 for component illustrations

### Specifications

 Part No.	 Internal Spread Min - Max mm	No. of Split Collet Extractors	Upgrade
<b>095801</b>	6 - 13	3	Twin Beam Pulling Unit p/n 095805
<b>095802</b>	13 - 30	3	
<b>095803</b>	30 - 60	3	
<b>095804</b>	8 - 22.5	4	

### Contents

Description	Qty	Kit Part No.				
		<b>095801</b>	<b>095802</b>	<b>095803</b>	<b>095804</b>	
Slide Hammer Assembly 1kg	1	085421	085421	085421	085421	
Split Collet Extractor	Extractor 6-8.5mm	1	095809	-	-	-
	Extractor 8-11mm	1	095810	-	-	095810
	Extractor 10.5-13mm	1	095811	-	-	095811
	Extractor 13-18mm	1	-	095812	-	095812
	Extractor 18-22.5mm	1	-	095813	-	095813
	Extractor 22.5-30mm	1	-	095814	-	-
	Extractor 30-38mm	1	-	-	095815	-
	Extractor 38-50mm	1	-	-	095816	-
	Extractor 50-60mm	1	-	-	095817	-
Adaptor	1	095820	095820	-	095820	



# SLIDE HAMMER PULLERS

## 095800

### Internal Split Collets Extractor Kit

- Extract components quickly and efficiently when conventional pullers cannot be used
- Removes gears, bearings, pinions, oil seals etc
- Can be upgraded for twin/triple leg pulling
- Supplied in metal case
- Refer to pages 176-177 for component illustrations

#### Specifications

Part No.	Internal Spread Min - Max mm	Twin Beam Pulling Unit 095805	No. of Split Collet Extractors
095800	6 - 60	Included	9

#### Contents

Spare Parts Part No.	Qty	Description
085421	1	Slide Hammer Assembly
095805	1	Pulling Unit
095809	1	Split Collet Extractor 6-8.5mm
095810	1	Split Collet Extractor 8-11mm
095811	1	Split Collet Extractor 10.5-13mm
095812	1	Split Collet Extractor 13-18mm
095813	1	Split Collet Extractor 18-22.5mm
095814	1	Split Collet Extractor 22.5-30mm
095815	1	Split Collet Extractor 30-38mm
095816	1	Split Collet Extractor 38-50mm
095817	1	Split Collet Extractor 50-60mm
095820	1	Adaptor



## 095805

### Twin Beam Pulling Unit

- Twin beam mechanical puller for use with Sykes-Pickavant split collet type internal extractors
- Mechanical force screw can then be used to draw extractors in place of slide hammer






# PULLERS AND BEARING SEPARATORS

## EXTERNAL BEARING PULLERS

- With tapered edge for insertion behind close fitting bearings, gears etc
- Drop forged, high quality alloy steel, heat treated for strength and durability
- Can be upgraded for internal pulling by adding internal pulling attachments **093500** or **093600**, see page 149
- Users should also use correct thread protector to fit bearing puller, see page 149
- Each kit supplied in metal case
- Refer to pages 177 for component illustrations

### Specifications

 Part No.	 Internal Spread Min - Max mm	 External Reach Max mm	Upgrade
<b>093000</b>	0 - 55	115	-
<b>093100</b>	20 - 105	876	093500
<b>093200</b>	35 - 140	860	
<b>093300</b>	50 - 175	760	093600

### Contents

Description	Qty	Kit Part No.			
		<b>093000</b>	<b>093100</b>	<b>093200</b>	<b>093300</b>
Beam	1	093012	093112	093212	093312
Screw/thrust nut	1	082811	093111	093211	093311
Thrust race	1	-	093121	093221	093321
Main rods, nuts & washers	2	093015	093115	093215	093315
5" Extension rods	2	-	093123	093223	-
Extension rods	4	-	093119	093219	093319
Separator	1	095000	095100	095200	095300

Pulling units without bearing separator are available. They contain twin beam, screw, thrust nut, thrust race and main rod assembly can be supplied if required.

These are related to kits described above as follows;

Kit No. 093000 = Pulling Unit No. 094000

Kit No. 093100 = Pulling Unit No. 094100

Kit No. 093200 = Pulling Unit No. 094200

Kit No. 093300 = Pulling Unit No. 094300






### 094500

## Mechanical Internal Extractor Kit

- For the extraction of bushes, sleeves and bearings from blind housings, when the centre shaft has been removed and does not allow the use of a mechanical puller
- Supplied in carton
- Refer to pages 177 for component illustrations

### Specifications

 Part No.	 Internal Spread Min - Max mm	 External Reach Max mm
<b>094500</b>	40 - 150	100






# PULLERS AND BEARING SEPARATORS

## Internal Pulling Attachments

- Pulling attachment for Sykes-Pickavant bearing pullers
- Users should also use correct thread protector to fit their bearing puller
- Supplied in carton

### Specifications

 Part No.	 Internal Spread Min - Max mm	 External Reach Max mm	Use with	Use screw adaptor
093500	40 - 150	100	093100 Kit*	none required
			093200 Kit*	093501
093600	75 - 230	150	093300 Kit*	093601



### \*Thread Protectors

When ordering an internal pulling attachment users should also order the correct thread protectors to fit their pulling unit or bearing puller kit.

Pulling Unit Part No. 094100 Pulling Kit Part No. 093100	Use Thread Protectors Part No. 093120 (2)
Pulling Unit Part No. 094200 Pulling Kit Part No. 093200	Use Thread Protectors Part No. 093220 (2)
Pulling Unit Part No. 094300 Pulling Kit Part No. 093300	Use Thread Protectors Part No. 093320 (2)





## BEARING SEPARATORS

- Individual separators for removing and refitting bearings, etc
- Can be used with any of the Sykes-Pickavant design of pullers where standard legs cannot gain access
- Tapered legs provide all round support
- Supplied in carton



### Specifications

 Part No.	 Internal Spread Min - Max mm	Use with
095000	10 - 55	Can be used with <b>083000</b> Twin Leg Puller or <b>094000</b> Twin Leg Pulling Unit
095100	20 - 105	Use with <b>083100</b> Twin Leg Puller or <b>094100</b> Twin Leg Pulling Unit
095200	35 - 140	Can be used with <b>083200</b> And <b>083300</b> Twin Leg Pullers or <b>094200</b> Twin Leg Pulling Unit
095300	50 - 175	Can be used with Sykes-Pickavant 'Loadstar' Heavy Duty Pullers or <b>094300</b> Twin Leg Pulling Unit

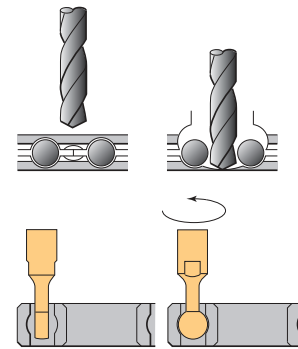


PULLERS

# PULLERS AND BEARING SEPARATORS

## MULTIPULL® BLIND HOUSING BEARING REMOVERS

- These special pullers will remove blind housing bearings without the need to dismantle machinery or remove the running shaft
- Positive seating allows even tension on inner and outer bearing rings, reducing resistance
- Stabilisers reduce sideways movement and self-centre the puller
- Three kits cover a wide range of ISO bearings. (To identify kit for bearings without an ISO reference, refer to puller spread and adaptor diameter)
- Supplied in blow mould case
- Refer to page 178 for component illustrations



### Specifications

Part No.	Min Spread mm	Max Spread mm	Adaptor Dia. mm	Puller Reach mm	ISO Bearing Designation			
					6004 - 6010	6299 - 6205	6300 - 6302	–
098000	20	95	5.5 - 8	125	6004 - 6010	6299 - 6205	6300 - 6302	–
098100	20	117	5.5 - 12.5	415	6004 - 6015	6200 - 6211	6300 - 6307	6403 - 6404
098200	56	210	16 - 31.75	490	–	6212 - 6222	6308 - 6319	6405 - 6414

### Contents

Description	Qty	Kit Part No.		
		098000	098100	098200
Beam	1	098012	098012	098212
	1	–	098112	–
Screw	1	098011	098011	093113
	1	–	082811	–
Thrust Nut	1	–	–	098214
Thrust Washer	1	–	–	098213
Rod Assembly	2	098015	098015	098215
	2	–	098115	–
Rod Extensions	2	098017 (95mm)	098017 (95mm)	098217 (195mm)
	2	098019 (30mm)	098019 (30mm)	098218 (295mm)
	2	–	098119 (95mm)	–
	2	–	098120 (195mm)	–

Description	Qty	Kit Part No.			
		098000	098100	098200	
Bearing Adaptors	No.1	2	098021 (5.5mm)	098021 (5.5mm)	–
	No.2	2	098022 (6mm)	098022 (6mm)	–
	No.3	2	098023 (8mm)	098023 (8mm)	–
	No.4	2	–	098124 (9mm)	–
	No.5	2	–	098125 (11mm)	–
	No.6	2	–	098126 (12.5mm)	–
	No.7	2	–	–	098227 (16mm)
	No.8	2	–	–	098228 (19mm)
	No.9	2	–	–	098229 (22mm)
	No.10	2	–	–	098230 (25mm)
	No.11	2	–	–	098231 (28mm)
	No.12	2	–	–	098232 (31.75mm)



098000



098100



098200

# HUB AND STUD PULLERS

## ADJUSTABLE HUB PULLERS - Car, LCV

- Comprehensive range of mechanical and hydraulic hub pullers to suit passenger and light commercial vehicles
- Manufactured with free moving legs mounted on a floating plunger enables quick and easy attachment to vehicle hubs
- 3 or 5 leg configurations provide up to 203mm of spread with a hole size suitable for studs up to 15.8mm in diameter
- Available as a combined kit or with a choice of:
  - Heavy duty hammer type handle for shock force use, or
  - 1500 series hydraulic ram for smooth, progressive force up to 8 tonnes
- All configurations feature a fine pitch outer thread for micro adjustment
- Manufactured from heat treated, drop forged steel
- Option to add additional legs



### Contents

Part No.	Description	Length (mm)	Kit Part No.				
			Mechanical		Hydraulic		Mechanical & Hydraulic
			082503	082505	127303	127305	127306
082514	Leg	158	3	5	3	5	5
127311	Force Screw	285	1	1	-	-	1
082519	Shock Handle	203	1	1	-	-	1
127312	Plunger Body	100 Dia.	1	1	1	1	1
150000	Hydraulic Ram	-	-	-	1	1	1
152422	Ram Extension	50	-	-	1	1	1



082503



082505



127303



127306

## ADJUSTABLE HUB PULLERS - Commercial Vehicles

- Specially designed free moving legs provide up to 305mm of spread with hole size suitable for studs up to 22mm in diameter
  - Heavy duty hammer type handle with fine pitch force screw allows for use of shock force for tight and troublesome applications
  - Manufactured from heat treated, drop forged steel
  - Available in 3 and 6 leg configurations
  - Option to add additional legs or upgrade to hydraulic style
- 082214** Leg (1)  
**150000** 1500 Series Hydraulic Ram  
**152422** Ram Extension (50mm)



082203



082206

### Contents

Part No.	Description	Length (mm)	Kit Part No.	
			082203	082206
082214	Leg	211	3	6
127311	Force Screw	285	1	1
082519	Shock Handle	203	1	1
082212	Plunger Body	152 Dia.	1	1

# HUB AND STUD PULLERS

## FIXED PLATE HUB PULLER KITS - Car, LCV

- Fix plate hub puller for cars and light commercials, featuring **085308** Hub Puller Plate which has been specially designed to meet the application requirements of modern vehicles
- Features a specially enlarged central dome to accommodate larger wheel hub caps (eg. Ford Focus) as found on many modern vehicles
- Designed with an extended spread pattern, to accommodate up to 160mm stud circle diameters
- Available in three configurations depending on the user requirements
  - Mechanical with converter and forcing screw
  - Hydraulic with 1500 series 8 tonne hydraulic ram
  - Slide hammer with converter and 1.6kg slide hammer unit
- Option to add additional components

### Specifications – Hub Puller Plate

Hub Centre Diameter	70mm
Hub Centre Depth	65mm
Min. Pitch Circle Diameter	100mm
Max. Pitch Circle Diameter	160mm
Centre Hole Screw Thread	1 1/2" x 16 Tpi

085308



085316 Hydraulic Puller



085300 Mechanical Puller



085306 Slide Hammer Hub Puller



### Contents

Part No.	Description	Specification	Kit Part No.		
			Mechanical	Hydraulic	Slide Hammer
085308	Hub Puller Plate	See table below	1	1	1
085312	Hub Puller Plate Mechanical Converter	1 1/2" x 16 Tpi (Ext. Thread) 5/8" UNF (Int. Thread)	1	-	1
085311	Mechanical Forcing Screw	5/8" UNF x 4" 24mm Hex Drive	1	-	-
085307	Slide Hammer	5/8" UNF, 1.6kg	-	-	1
150000	Hydraulic Ram	8 Tonne force	-	1	-

### 050500

## Impact Pitman/Drop Arm Puller

- Heavy duty puller for the removal of Pitman/drop arms from the toughest of vehicle applications
- Suits Land Rover Discovery 1 & 2, Range Rover P38, Land Rover Defender and Ford Transit
- The puller is designed to be used with the steering box already removed from the vehicle
- Includes an impact force screw allowing the technician to effectively shock the Pitman/drop arm loose from the steering box
- Spare Parts:
  - 127311** Impact Forcing Screw
  - 082519** Shock Handle

Puller Spread Max (mm)	Puller Reach Max (mm)
60	80





# HUB AND STUD PULLERS

085309

## Slide Hammer Assembly - 4.5kg

- Can be used with the full range of Sykes-Pickavant hub pullers to remove hubs and half shafts quickly and efficiently

### Specifications

Description	Length mm	Stud Hole Diameter	Thread	Hammer Weight
Hammer	165	100		4.5kg
Shaft	838	–	M20 x 2.5	–
Adaptor	40	–	M20 (int.), 1 1/2 whit (ext.)	–



085309

## TRUCK AND HGV

### Hydraulic Truck Wheel and Hub Puller

- This unique wheel and hub removal solution has been specifically developed for the truck servicing and repair industry
- 12 Tonne hydraulic pump with a series of unique chains and attachments provide the ability to remove truck wheels and hubs which have become seized over time due to road grime and general operation
- Supplied in a durable metal case for convenient storage or secure transportation. The metal case can be fixed to the mobile trolley attachment which is ideal for rapid workshop use
- Available in three configurations to cater for varying customer requirements, repair centres and mobile workshops
- **See next page for more information**



### Contents

Part No.	Description	Kit Part No.		
		Wheel Puller	Wheel Puller with Trolley	Combined Wheel & Hub Puller
		<b>08700</b>	<b>208750</b>	<b>208795</b>
208710	12T Hydraulic Pump	1	1	1
208711	Locking Ring	1	1	1
208712	Flame Cut Beam	1	1	1
208713	Chains with Clevis Pins	4	4	4
208714	Chain Connecting Pin	2	2	2
208715	R Clips	8	8	8
208716	Hook - Steel Rim Inner	4	4	4
208717	Hook - Steel Rim Outer	4	4	4
208722	Hook - Aluminium Rim Outer	4	4	4
208724	Hook - Aluminium Rim Inner	4	4	4
208718	Pusher Cage Top Plate	1	1	1
208719	Pusher Ring Large	1	1	1
208720	Connecting Rods	4	4	4
208723	Spigot Bung Assembly	1	1	1
208721	Pusher Ring Small	1	1	1
208782	Metal Box	1	1	1
208730	Mobile Trolley Attachment	Option	1	1
208725	Hub Puller - Hooks			4
208726	Hub Puller - Nose Piece		Option 208760	1
208727	Hub Puller - Nose Piece Extension- 2 Piece		Hub Puller Add-on Kit	1
208728	Hub Puller - Chains with Clevis Pins (7 Link)			4

# HUB AND STUD PULLERS

## TRUCK AND HGV cont.

### Wheel Pulling

- Designed for the removal of ten stud 22.5" HGV wheels and associated axle hubs
- Suitable for pulling inner and outer wheels on twin or single wheel hubs
- Equal load distribution is achieved via four high strength chains allowing 2, 3 or 4 point pulling
- Hook system incorporates four hook types designed for internal and external pulling applications
- Plastic coated hook set provides protection for use on alloy and polished wheels
- Centre spigot frame assembly features two ring sizes and covers most popular applications
  - 281mm centre hole diameter
  - 221mm centre hole diameter
- Locates on the spigot lugs on the hub or can push against hub cover bolt heads
- Reversible beam to provide extra adjustment



### Hub Pulling

- Contains a set of four shorter chains for close proximity to hub
- Four eyelet hooks designed specifically to attach to the hub wheel studs
- Ram nose piece applies force to the end of stub axle
- Two nose extension pieces to suit various hub configurations



**208760** Hub Puller Add-on Kit

### Mobile Trolley **208730**

- Enables rapid workshop use
- Provides additional support during wheel or hub removal
- Storage case mounts for secure storage and transportation



Pusher Cage and Ring



Aluminium Rim - Hooks



Steel Rim - Hooks



Hub Puller - Hooks



## Puller Boards

- Heavy duty display boards for convenient storage of pullers
- Suitable for wall mounting in any service bay, maintenance workshop or store
- Start with the basic kit then add with upgrade boards
- Keeps tools tidy and accessible, see when components are missing
- Powder coated backing board with vinyl overlay and shadows
- All boards 610 x 457mm except part number 155400

### 096500

#### Combi-Puller Kit

- 5 and 10 tonne capacity pulling solution
- Four different leg shapes to cover wide application
- Graduated beam for accurate leg positioning
- Legs can be bolted together to extend reach
- Latest design includes part number and description on shadow board for easy product identification

#### Specifications

Part No.	Capacity Tonne	Kit Style	Spread Min - Max mm	Reach Max mm
096500	5	Twin	10 - 173	140
		Triple	10 - 173	140
	10	Twin	20 - 250	182
		Triple	20 - 250	182

#### Contents

Part No.	Qty	Description
096011	1	5T Force Screw
096013	1	5T Triple Head
096053	3	5T Narrow Leg - Long
096054	3	5T Slotted Leg - Short
096055	3	5T Thin Jaw Leg - Short
096056	3	5T Thin Jaw Leg - Long
096016	1	5T Leg Clips - Set of 4
096014	3	5T Connecting Bolt Assembly
096111	1	10T Force Screw
096113	1	10T Triple Head
096153	3	10T Narrow Leg - Long
096154	3	10T Slotted Leg - Short
096155	3	10T Thin Jaw Leg - Short
096156	3	10T Thin Jaw Leg - Long
096116	1	10T Leg Clips - Set of 4
096114	3	10T Connecting Bolt Assembly
096012	1	5T Twin Head
096112	1	10T Twin Head



096500

# PULLER BOARDS

084907

## Mechanical Twin/Triple Puller - 4", 6", 8"

- Twin and triple beams and double ended legs for a wide range of pulling options
- For removing gears, races, bearings and sprockets
- Automotive and industrial applications
- Drop forged steel legs, beam and jaws
- Heat treated for strength and durability
- Latest design includes part number and description on shadow board for easy product identification

### Specifications

Part No.	Spread Min - Max mm	Reach Max mm	No. of Puller Combinations	Leg Style
084907	0 - 300	250	12	Standard adjustable/ Double ended reversible

### Contents

Part No.	Qty	Description
083000	1	Twin Leg Puller - Reversible
083100	1	Twin Leg Puller - Reversible
083200	1	Twin Leg Puller - Std Adjustable
082714	1	Leg Assembly - Reversible
082814	1	Leg Assembly - Reversible
082914	1	Leg Assembly - Std Adjustable
660363	1	Triple Head
082813	1	Triple Head
082913	1	Triple Head



084907

086505

## Mechanical Puller - Thin Jaw

- Contains components to make up 7 thin jaw leg pullers
- Thin jaws enable access where clearance behind components is limited
- On metal storage/display panel complete with hooks
- Also available in metal case **086504**, see page 116

### Specifications

Part No.	Spread Max mm	Reach Max mm	No. of Puller Combinations	Leg Style
086505	184	225	7	Standard adjustable/ Double ended reversible

### Contents

Part No.	Qty	Description
086111	1	Forcing Screw
082911	1	Forcing Screw
086000	1	Puller - Thin Jaw
086112	1	Twin Beam
086212	1	Twin Beam
086513	1	Triple Beam
086114	3	Leg 150mm - Thin Jaw
086214	3	Leg 225mm - Thin Jaw



086505

# PULLER BOARDS

084905

## Mechanical Combination Puller & Separator Kit

- Makes 9 mechanical 2 or 3 leg pullers and 1 separator
- On metal storage/display panel complete with hooks
- Thin jaws enable access where clearance behind component is limited
- Double ended legs for internal and external use

### Specifications

Part No.	Spread Max mm	Reach Max mm	External Spread Max mm	No. of Puller Combinations	Leg Style
084905	140	200	55	9	Standard adjustable/ Double ended reversible/ Thin Jaw

### Contents

Part No.	Qty	Description
082711	1	Forcing Screw
082811	1	Forcing Screw
660362	1	Twin Head
660363	1	Triple Head
082812	1	Twin Beam
082813	1	Triple Beam
082714	3	Leg Assembly - Reversible
082814	3	Leg Assembly - Reversible

Part No.	Qty	Description
095000	1	Separator 10-55mm
086014	2	Leg 75mm - Thin Jaw
093012	1	Twin Beam
093015	2	Main Rod



084905

186505

## Hydraulic Twin/Triple Leg Puller Kit - Thin Jaw

- Makes 5 different hydraulic and 1 mechanical thin jaw puller
- Refer to pages 171-175 for component illustrations
- On metal storage/display panel complete with hooks
- Also available in metal case **186504**, see page 132

### Specifications

Part No.	Puller Spread Min - Max mm	Puller Reach Max mm	Ram Extension mm	No. of Puller Combinations	Leg Style
186505	50 - 225	225	50 / 150	6	Thin Jaw

### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece
152422	1	Ram Extension - 50mm
152726	1	Ram Extension - 150mm
086012	1	Twin Beam
186212	1	Twin Beam
186513	1	Triple Beam
193112	1	Twin Beam
086014	2	Leg 75mm - Thin Jaw
086214	3	Leg 225mm - Thin Jaw
082711	1	Forcing Screw 12 X 1.75 X 150mm
086114	3	Leg 150mm - Thin Jaw



186505

PULLERS

# PULLER BOARDS

155106

## Hydraulic Twin/Triple Leg Puller Kit

- Removes gears, bearings, pulleys & sprockets
- Makes 3 different hydraulic twin/triple leg pullers
- Powered by 1500 series hydraulic ram
- 8 tonnes of force with minimum effort
- Latest design include part number and description on shadow board for easy product identification

### Specifications

Part No.	Puller Spread Min - Max mm	Puller Reach Max mm	Ram Extension mm	No. of Puller Combinations	Leg Style
155106	75 - 150	150	50 / 100	3	Standard

### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram with Nose Piece
152422	1	Ram Extension 50mm
152624	1	Ram Extension 100mm
152412	1	Twin Head
153413	1	Triple Head
152424	3	Standard Leg 100mm
152626	3	Standard Leg 150mm



155106

155107

## Hydraulic/Mechanical Twin/Triple Puller - Upgrade

- Combined with hydraulic puller board (155106) makes 8 different twin/triple leg pullers
- Larger size legs included to increase capacity
- Forcing screw with shock handle included so can be used without hydraulic ram - converts hydraulic beams to mechanical style pullers
- Latest design include part number and description on shadow board for easy product identification

### Specifications

Part No.	Puller Spread Min - Max mm	Puller Reach Max mm	Ram Extension mm	Leg Style
155107	50 - 250	250	50 / 100 / 150	Standard

### Contents

Part No.	Qty	Description
152726	1	Ram Extension 150mm
152828	3	Leg 200mm
152929	3	Leg 250mm (Extra wide)
127311	1	Forcing Screw 285mm -1.5" x 16 BSW
082519	1	Shock Handle 203mm -1.5" x 16 BSW



155107

## 155108

### Separator/Internal Race Extractor/Press Frame

- Individual separator included for removing and refitting bearings, etc
- Can be used with any of the Sykes-Pickavant design of pullers where standard legs cannot gain access
- Tapered legs provide all round support
- Includes pulling attachment for Sykes-Pickavant bearing pullers for the extraction of bushes, sleeves and bearings when the centre shaft has been removed and does not allow the use of a mechanical puller
- Latest design include part number and description on shadow board for easy product identification

#### Specifications

Part No.	External Spread Min - Max mm	Internal Spread Min - Max mm	External Reach Max mm
155108	20-105	40 - 150	876

#### Contents

Part No.	Qty	Description
095100	1	Separator 20-105mm
093500	1	Internal Race Extractor
193112	1	Twin Beam
093111	1	Screw with Nut
093115	2	Main Rod 254mm

Part No.	Qty	Description
093123	2	Extension Rod 127mm
093119	4	Extension Rod 285mm



155108

## 155405

### Hydraulic Puller & Separator Kit

- Versatile tool where a long reach is required to draw a bearing from a shaft
- Tapered edges of bearing separator provide all round support and can fit behind bearings where normal puller legs cannot gain access
- Refer to pages 171-175 for component illustrations
- On metal storage/display panel complete with hooks
- Also available in metal case **155400**, see page 127



155405

#### Specifications

Part No.	Puller Spread Min - Max mm	Puller Reach Max mm	Ram Extension mm	External Spread Max mm	Leg Style
155405	50 - 200	200	20 - 105	876	Standard

#### Contents

Part No.	Qty	Description	Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece	152828	3	Leg - 200mm
152412	1	Twin Head	152727	3	Leg - 250mm
153413	1	Triple Head	152929	3	Leg - 250mm (Extra Wide)
152422	1	Ram Extension - 50mm	193112	1	Twin Beam
152624	1	Ram Extension - 100mm	095100	1	Separator 20-105mm
152726	1	Ram Extension - 150mm	093115	2	Main Rod
152424	3	Leg - 100mm	093119	4	Extension Rod
152626	3	Leg - 150mm	093123	2	Extension Rod 5 inch

# PULLER BOARDS

193106

## Slide Hammer/Split Collet Extractor

- 3 straight legs, 3 cranked reversible legs and 6 split collet extractors for internal and external pulling
- Adjustable cone ensures positive location minimising risk of slippage
- The split collet is pushed into the centre of the bearing and then expanded via the hex nut on the end of the collet until a secure grip is achieved
- The slide hammer is then attached providing the necessary extracting force
- Latest design include part number and description on shadow board for easy product identification

### Slide Hammer Specifications

Part No.	Leg Style	External Spread Min - Max mm	Internal Spread Min - Max mm	External Reach Max mm
193106	Straight	66 - 105	23 - 83	75
	Cranked	66 - 105	33 - 70	65



193106

### Contents

Part No.	Qty	Description	Part No.	Qty	Description
085421	1	Slide Hammer	095809	1	Extractor 6-8.5mm
085414	3	Straight Legs	095810	1	Extractor 8-11mm
085415	3	Cranked Legs	095811	1	Extractor 10.5-13mm
095820	1	Adaptor	095812	1	Extractor 13-18mm
085412	1	2 Way Beam (Twin)	095813	1	Extractor 18-22.5mm
085413	1	3 Way Beam (Triple)	095814	1	Extractor 22.5-30mm
085418	1	Adjustable Cone			

155105

## Hydraulic Twin/Triple Leg Puller Kit

- Makes 8 different twin/triple leg pullers
- On metal storage/display panel complete with hooks
- Refer to pages 171-175 for component illustrations

### Specifications

Part No.	Puller Spread Min - Max mm	Puller Reach Max mm	Ram Extension mm	Leg Style
155105	50 - 250	250	50 / 100 / 150	Standard

### Contents

Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece
152412	1	Twin Head
153413	1	Triple Head
152422	1	Ram Extension - 50mm
152624	1	Ram Extension - 100mm
152726	1	Ram Extension - 150mm
152424	3	Leg - 100mm
152626	3	Leg - 150mm
152828	3	Leg - 200mm
152929	3	Leg - 250mm (Extra Wide)



155105








193105

**Hydraulic Internal Extractor, Puller & Separator Kit with Slide Hammer**

- For removing bearings, gears etc. where access behind components is too restricted to use standard pullers
- Drop forged, high quality steel, heat treated for strength and durability
- Extract components quickly and efficiently when conventional pullers cannot be used
- Slide hammer with 7 split collet internal extractors
- On metal storage/display panel complete with hooks

**Specifications**

				
<b>Part No.</b>	<b>External Spread Min - Max mm</b>	<b>Internal Spread Min - Max mm</b>	<b>External Reach Max mm</b>	<b>Leg Style</b>
193105	10 - 105	6 - 38	876	Thin Jaw



193105

**Contents**

Part No.	Qty	Description
150000	1	Hydraulic Ram With Nose Piece
193112	1	Twin Beam
086014	2	Leg 75mm - Thin Jaw
095000	1	Separator 10-55mm
095100	1	Separator 20-105mm
093115	2	Main Rod
093119	4	Extension Rod
093123	2	Extension Rod 5 inch
093500	1	Internal Race Extractor
085421	1	Slide Hammer
095809	1	Split Collet Extractor 6 - 8.5mm
095810	1	Split Collet Extractor 8 - 11mm
095811	1	Split Collet Extractor 10.5 - 13mm

Part No.	Qty	Description
095812	1	Split Collet Extractor 13 - 18mm
095813	1	Split Collet Extractor 18 - 22.5mm
095814	1	Split Collet Extractor 22.5 - 30mm
095815	1	Split Collet Extractor 30 - 38mm
095820	1	Adaptor
094000	1	Pulling Unit

155305









**Comprehensive Hydraulic Puller/Separator/Extractor Kit**

- Combines 155105 and 193105 above to make the most comprehensive set of pulling, separating and extracting options available
- Ideal workshop set for applications where a wide variety of pulling and extracting problems are likely to be encountered on daily basis
- Supplied on two wall mounted storage panels for ease of use and access
- Refer to the contents list previous page and above



155305

**Specifications**

							
<b>Part No.</b>	<b>Puller Spread Min - Max mm</b>	<b>Puller Reach Max mm</b>	<b>Ram Extension mm</b>	<b>External Spread Min - Max mm</b>	<b>Internal Spread Min - Max mm</b>	<b>External Reach Max mm</b>	<b>Leg Style</b>
155305	50 - 250	250	50 / 100 / 150	10 - 105	6 - 38	876	Standard/ Thin Jaw

PULLERS

# KIT CONTENTS

## Mechanical Puller Kit Contents

		Mechanical Pullers & Puller Kits																																	
Description	Part No.	082700	082705	082800	082805	082900	083000	083100	083200	083300	083400	084200	084206	084900	084903	084905	084906	086000	086003	086010	086020	086030	086100	086200	086300	086400	086500	086504	086505	093003	093005	094003	660375		
Leg (reversible)	082714	3	3				2					3	3	3	3	3	3																		
	082814			3	3			2				3	3	3	3	3	3																		
Leg (std adjustable)	082914					3			2			3	3																						
	083314									2	3	3	3																						
Leg (thin jaw)	086014															2	2	3	3									2	2	2	2	2			
	086114																					2				3		3	3						
	086214																						2	2			3	3	3						
	086024																		3		2	3								2					
Twin Head	660362		1				1					1	1	1	1	1	1																	1	
	082812				1			1				1	1	1	1	1	1																		
	082912								1	1		1	1																						
	660362																																		
Triple Head	660363	1	1									1	1	1	1	1	1																	1	
	082813			1	1							1	1	1	1	1	1																		
	082913					1					1	1	1																						
Twin/Triple Head	660364																																	1	
Twin Beam	086012																	1	1		1							1	1						
	086112																					1	1					1	1						
	086212																						1					1	1						
Triple Beam	086013																		1	1		1													
	086513																									1	1	1	1						
Forcing Screw	082711	1	1				1					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	082811			1	1			1				1	1	1	1	1	1													1	1	1			
	082911					1			1	1	1	1	1										1	1			1	1	1						
	086111																						1			1		1	1						
	660361																																	1	1
Separator	095000											1			1	1														1	1	1			
	095100											1				1																			
	095200											1																							
Main Rod	093015															2													1	2	2				
Twin Beam	093012														1														1	1	1				
Extension Piece	086016																		1		1	1													
Leg (double ended reversible)	660365																																	3	
Mini Bearing Puller	082300																													1					
Bolt & Nut M8 x 30	082718																																	2	
Metal Toolbox												•	•	•			•																		
Cardboard Carton		•	•	•	•	•	•	•	•	•	•				•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Display Panel																•																			

**Mechanical Puller Kit Contents**

Description	Part No.	Mechanical External Separator Kits				Hydraulic Separator Kits Heavy Duty	
		093000	093100	093200	093300	193100	193200
Screw/thrust nut	082811	1					
	085123						
	093111		1				
	093211			1			
	093311				1		
Twin/Triple Step Plate	085112						
	085124						
Rod	085125						
	085126						
Main Rods, Nuts & Washers	093015	2					
	093115		2			2	
	093215			2			2
	093315				2		
Extension Rod	093119		4			4	
	093123		2			2	
	093219			4			4
	093319				4		
Twin Beam	093012	1					
	093112		1				
	093212			1			
	093312				1		
	193112					1	
	193212						1
Thrust Race	093121		1				
	093221			1			
	093321				1		
Separator	095000	1					
	095100		1			1	
	095200			1			1
	095300				1		
Washer	085130						
Hydraulic Ram (1 1/2"Ø) & nose-piece	150000					1	1
Ram Extension 100mm (4")	152624					1	
Ram Extension 150mm (6")	152726						1

Description	Size (mm)	Part No.	Slide Hammer Puller & Extractor Kits							
			085400	085403	085450	095800	095801	095802	095803	095804
Slide Hammer		085421	1	1	1	1	1	1	1	1
Adaptor		095820		1		1	1	1		1
Extractor	6 - 8.5	095809				1	1			
	8 - 11	095810				1	1			1
	10.5 - 13	095811		1		1	1			1
	13 - 18	095812		1		1		1		1
	18 - 22.5	095813		1		1		1		1
	22.5 - 30	095814		1		1		1		
	30 - 38	095815				1				1
	38 - 50	095816				1				1
50 - 60	095817				1				1	
2 Way Beam		085412	1	1						
		085454								
3 Way Beam		085413	1	1	1					
		085455			1					
Adjustable Cone		085418	1	1						
		085453			1					
Straight Leg		085414	1	1	1					
Cranked Leg		085415	1	1	1					
Forcing Screw		082103			1					
Extension		082104			1					
Pulling Unit		095805				1				
Nut		08545270			1					
Bolt		085421			1					

**Hub Pullers Mechanical/Hydraulic**

Description	Part No.	082203	082206	082503	082505	127303	127305	127306
Hydraulic Ram (1 1/2"Ø) & nosepiece	150000					1	1	1
Ram Extension 50mm (2")	152422					1	1	1
Leg 211mm	082214	3	6					
Leg 158mm	082514			3	5	3	5	5
Shock Handle	082519	1	1	1	1			1
Plunger Body	082212	1	1					
	127312			1	1	1	1	1
Force Screw 285mm	127311	1	1	1	1			1





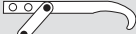


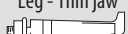






PULLERS



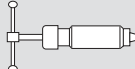








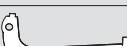

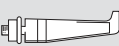






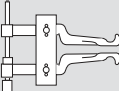







# KIT CONTENTS

## Mechanical Puller Component Dimensions (Actual)

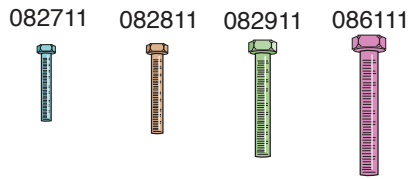
Description	Part No.	Dimension
 Forcing Screw	082711	147mm M12 x 1.75
	086111	217mm M24 x 3.00
	082811	230mm M16 x 2.00
	082911	292mm M24 x 3.00
	086111	217mm M24 x 3.00
	093113	305mm 3/4 x 12 BSF
	093213	305mm 1" x 10 BSF
	093313	380mm 1 1/4 x 12UNF
 Twin Head	660362	75mm long M12
	082812	110mm long M12
	082912	165mm long M12
 Triple Head	660363	38mm Radius M12
	082813	55mm Radius M16
	082913	38mm Radius M24
 Leg Assembly - reversible	082714	124mm Long
	082814	236mm Long
 Leg Assembly - adjustable	082914	3.5mm Long
	083314	437mm Long
 Twin Beam	086012	118mm Long M12
	086112	210mm Long M24
	086212	285mm Long M24
 Triple Beam	086013	59mm Radius M12
	086513	125mm Radius M24
 Leg - Thin jaw	086014	122mm Long (75mm working dimensions)
	086024	162mm Long (110mm working dimensions)
	086114	215mm Long (150mm working dimensions)
	086214	290mm Long (225mm working dimensions)
 Twin Beam	093012	118mm Long M16
	093112	205mm Long
	093212	290mm Long M24
	093312	330mm Long
 Main Rod	093015	160mm Long (3/8" x 20 BSF)
	093115	254mm Long (1/2" x 16 BSF)
	093215	332mm Long (5/8" x 14 BSF)
	093315	375mm Long (1" x 14 UNS)
 Extension Rod	093123	127mm Long (1/2" x 16 BSF)
	093223	152mm Long (5/8" x 14 BSF)
	093119	285mm Long (1/2" x 16 BSF)
	093219	272mm Long (5/8" x 14 BSF)
	093319	304mm Long (1" x 14 UNS)
	093123	127mm Long (1/2" x 16 BSF)
 Extension Rod	093223	152mm Long (1/2" x 14 BSF)
	093120	63mm Long (1/2" x 16 BSF)
 Protector	093220	38mm Long (5/8" x 14 BSF)
	 Separator	095000
095100		20 - 105mm External Spread (1/2" x 16 BSF)
095200		35 - 140mm External Spread (5/8" x 14 BSF)
095300		50 - 175mm External Spread (1" x 14 UNS)

## Hydraulic Puller Component Dimensions (Actual)

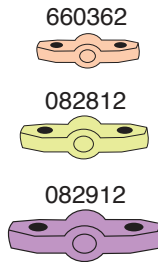
Description	Part No.	Dimension
 Hydraulic Ram with nose piece	150000	1 1/2" Dia. External
 Twin Head (with centre nut)	152412	1 1/2" Dia. Internal
 Triple Head (with centre nut)	153413	1 1/2" Dia. Internal
 Ram Extension	152422	50mm (2")
 Ram Extension	152624	100mm (4")
 Ram Extension	152726	150mm (6")
 Standard Leg	152424	165mm Long (100mm (4") Working Dimensions)
 Standard Leg	152626	215mm Long (150mm (6") Working Dimensions)
 Wide Standard Leg	152828	265mm Long (200mm (8") Working Dimensions)
 Standard Leg	152727	300mm Long (250mm (10") Working Dimensions)
 Wide Standard Leg	152929	300mm Long (250mm (10") Working Dimensions)
 Leg - Thin Jaw	086114	215mm Long (150mm (6") Working Dimensions)
	086214	290mm Long (225mm (9") Working Dimensions)
 Twin Beam	186212	290mm Long 1 1/2" Dia. Internal
	193112	210mm Long 1 1/2" Dia. Internal
	193212	290mm Long 1 1/2" Dia. Internal
 Triple Beam	186513	1 1/2" Dia. Internal
	 Separator	095000
095100		20-105mm (3/4" - 4 1/4")
095200		35-140mm (1 1/4" - 5 1/2")
 Main Rod	093115	254mm long (1/2" x 16 BSF)
	093215	332mm long (5/8" x 14 BSF)
 Extension Rod	093119	285mm long (1/2" x 16 BSF)
	093219	272mm long (5/8" x 14 BSF)
	093123	127mm long (1/2" x 16 BSF)
 Extension Rod 5 inch	093223	152mm long (5/8" x 14 BSF)
	093223	152mm long (5/8" x 14 BSF)
 Internal Race Extractor	093500	40 - 150mm
 Forcing Screw c/w Nut	093111	Forcing Screw c/w Nut
 Thrust Race	093121	-
 Beam Convertor	093122	-
 Protector	093120	63mm long (1/2" x 16 BSF)
	093220	38mm long (5/8" x 14 BSF)
 Twin Beam	086012	-

# MECHANICAL PULLER COMPONENT ILLUSTRATIONS

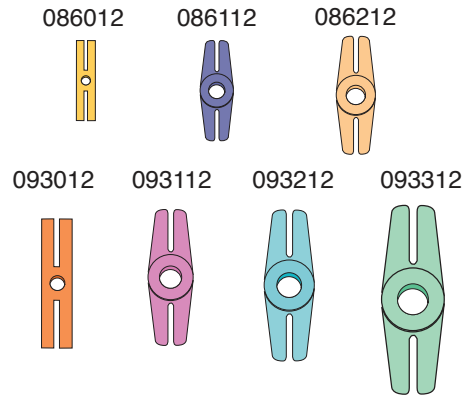
### Forcing Screws



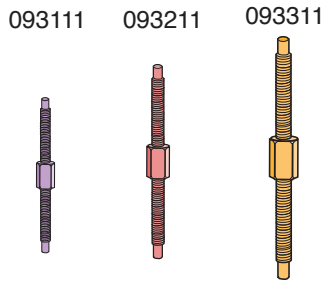
### Twin Heads



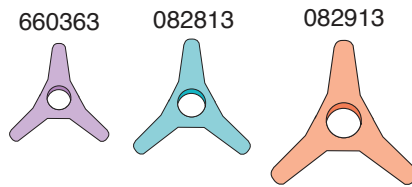
### Twin Beams



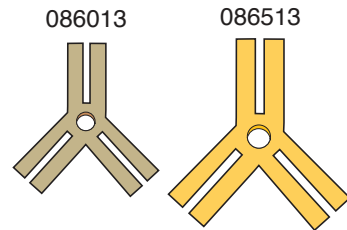
### Screws Complete with Thrust Nut



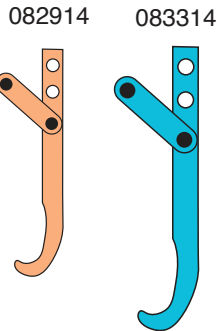
### Triple Heads



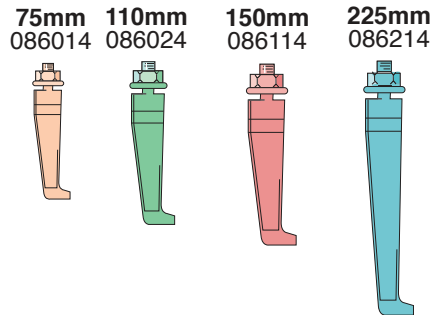
### Triple Beams



### Standard Adjustable Leg Assemblies



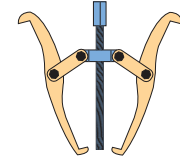
### Thin Jaw Leg Assemblies (Working Dimensions)



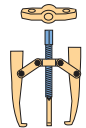
### Protectors



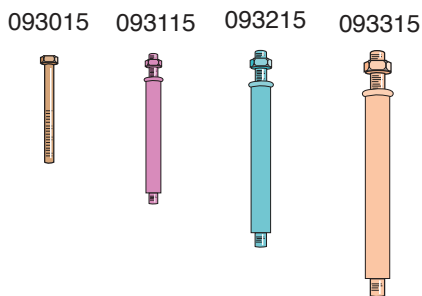
### Combination Twin/Triple Puller



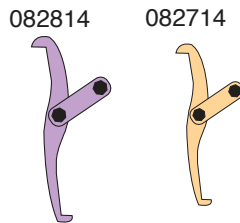
### Mini Bearing Puller



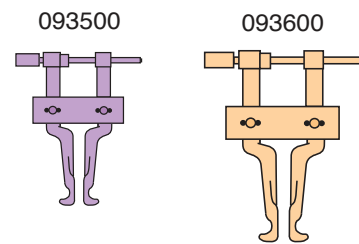
### Rod Assemblies



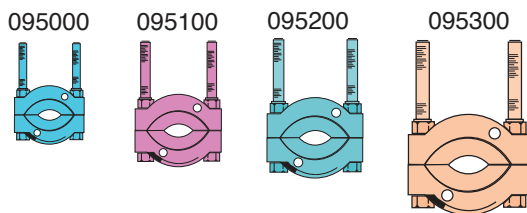
### Double Ended Reversible Leg Assemblies



### Internal Race Extractors



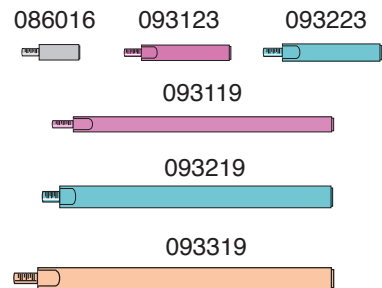
### Separators



### Thrust Races



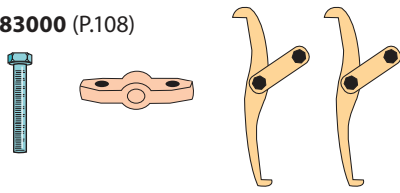
### Rod Extensions



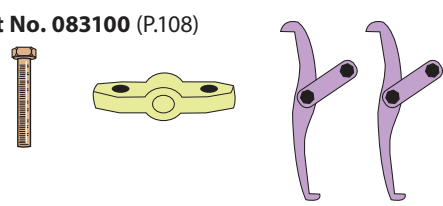
# MECHANICAL PULLER ILLUSTRATIONS

## TWIN LEG

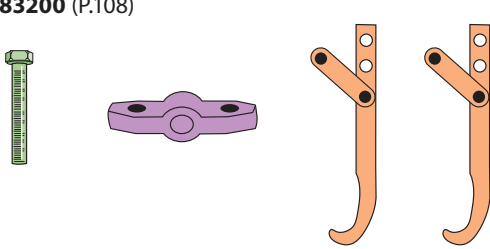
Part No. 083000 (P.108)



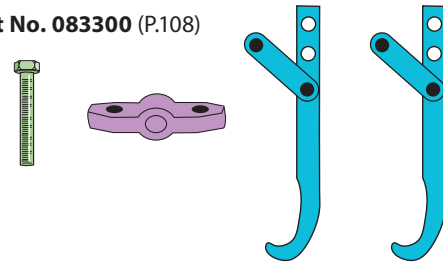
Part No. 083100 (P.108)



Part No. 083200 (P.108)

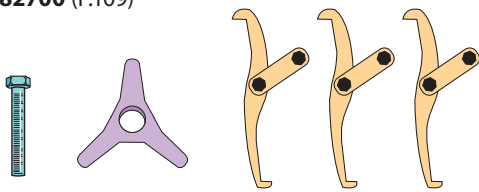


Part No. 083300 (P.108)

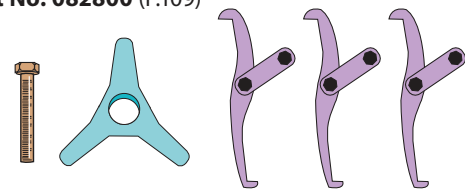


## TRIPLE LEG

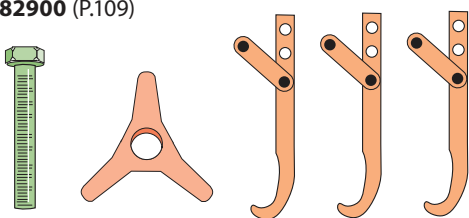
Part No. 082700 (P.109)



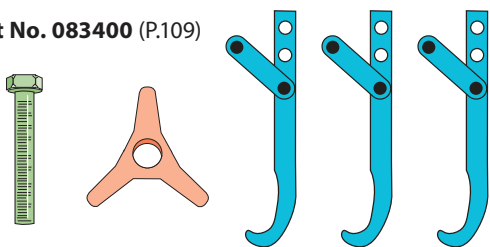
Part No. 082800 (P.109)



Part No. 082900 (P.109)

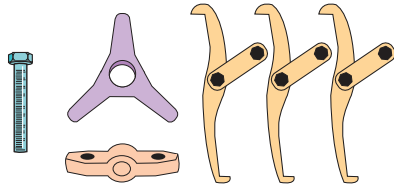


Part No. 083400 (P.109)

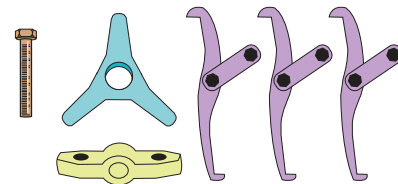


## TWIN/TRIPLE LEG

Part No. 082705 (P.109)



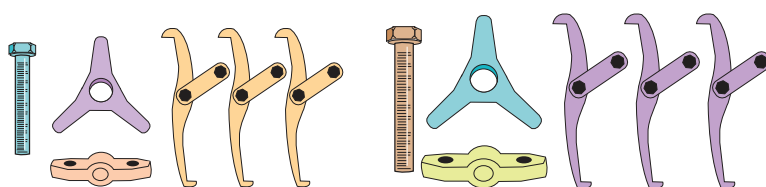
Part No. 082805 (P.109)



Part No. 084900 (P.111)



Part No. 084903 (P.111)

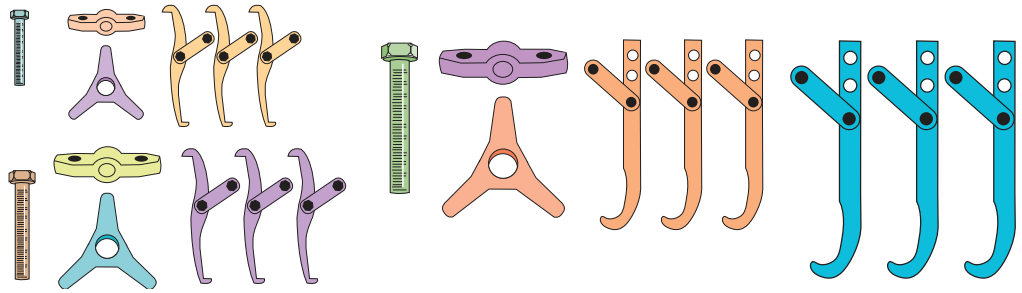




# MECHANICAL PULLER ILLUSTRATIONS

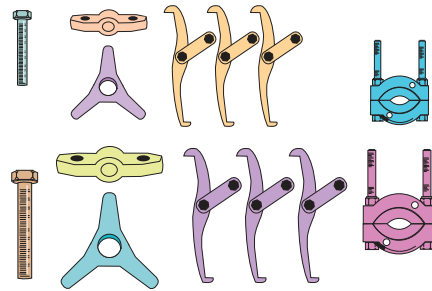
## KITS - Twin/Triple Leg cont.

Part No. 084200 (P.111)

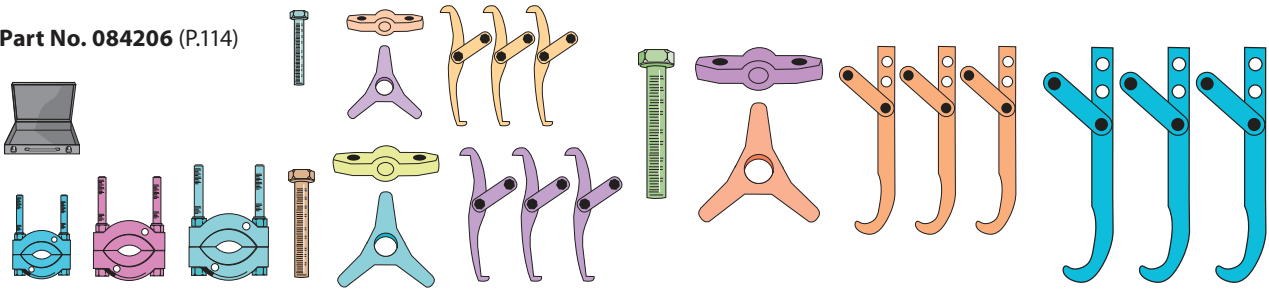


## KITS - Twin/Triple Leg & Separator

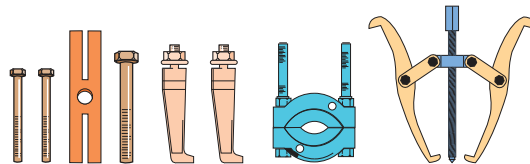
Part No. 084906 (P.113)



Part No. 084206 (P.114)

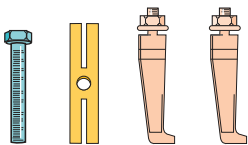


Part No. 094003 (P.114)

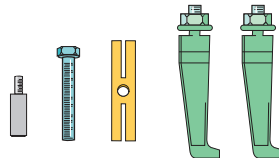


## TWIN LEG - Thin Jaw

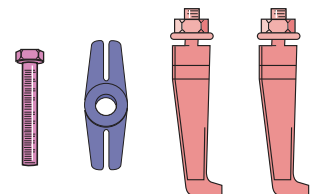
Part No. 086000 (P.115)



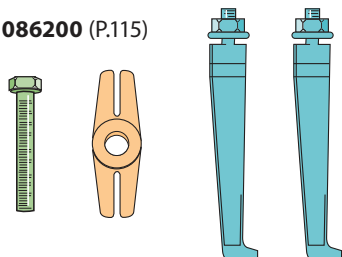
Part No. 086020 (P.115)



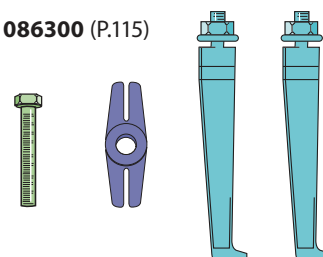
Part No. 086100 (P.115)



Part No. 086200 (P.115)



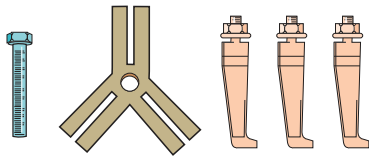
Part No. 086300 (P.115)



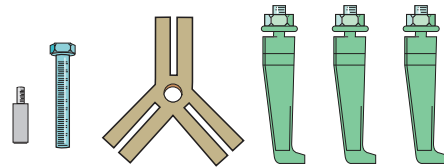
# MECHANICAL PULLER ILLUSTRATIONS

## TRIPLE LEG- Thin Jaw

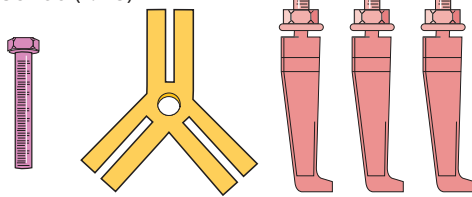
Part No. 086010 (P.115)



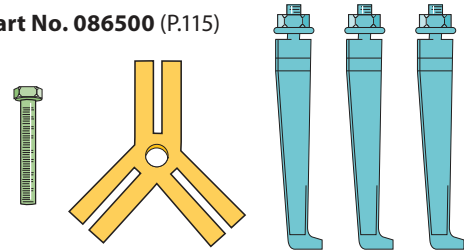
Part No. 086030 (P.115)



Part No. 086400 (P.115)

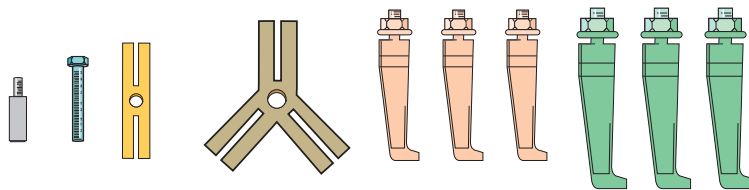


Part No. 086500 (P.115)

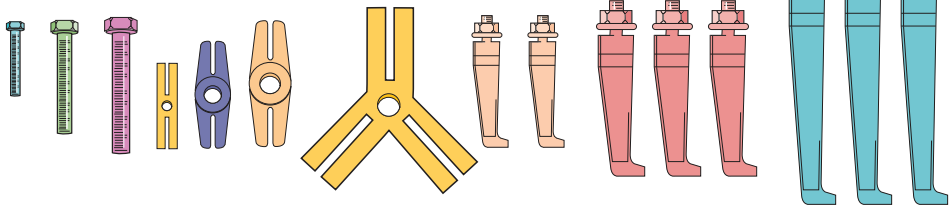


## KITS - Thin Jaw Twin/Triple Leg

Part No. 086003 (P.116)



Part No. 086504 (P.116)

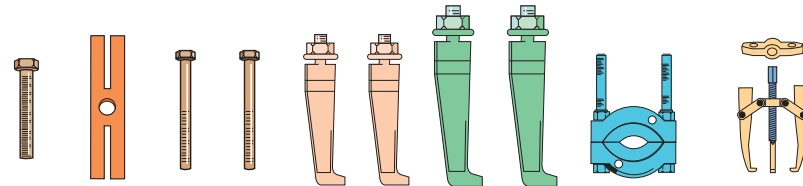


Part No. 086505 (P.116)

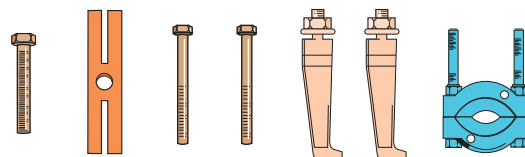


## KITS - Thin Jaw Puller & Separator




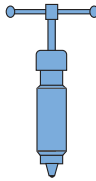



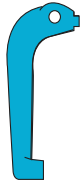
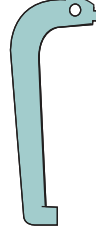
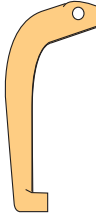
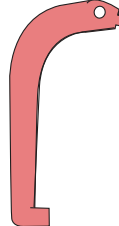
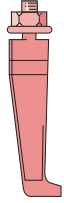
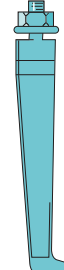


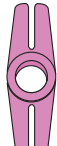
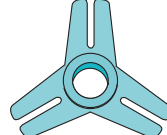
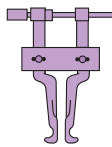



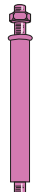
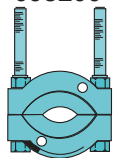
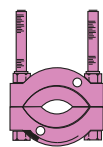








Part No. 093003 (P.117)



Part No. 093005 (P.117)



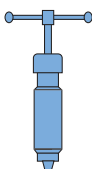
# HYDRAULIC PULLER COMPONENT ILLUSTRATIONS

<p><b>Ram Extensions</b></p> <p>150mm 152726</p>  <p>100mm 152624</p>  <p>50mm 152422</p> 	<p><b>Hydraulic Ram</b> complete with nose piece 150000</p> 	<p><b>Twin Head Assembly</b> 152412</p> 	<p><b>Triple Head Assembly</b> 153413</p> 	
<p><b>Standard Legs (Working Dimensions)</b></p>				
<p>100mm (4") 152424</p> 	<p>150mm (6") 152626</p> 	<p>250mm (10") 152727</p> 	<p>200mm (8") 152828</p> 	<p>250mm (10") 152929</p> 
<p><b>Thin Jaw Legs (Working Dimensions)</b></p> <p>150mm (6") 086114</p>  <p>225mm (9") 086214</p> 		<p><b>Twin Beams</b></p> <p>193212</p>  <p>186212</p>  <p>193112</p> 		<p><b>Triple Beam</b> 186513</p> 
<p><b>Internal Race Extractor</b> 093500</p> 	<p><b>Protectors</b></p> <p>093220</p>  <p>093120</p> 	<p><b>Rod Assemblies</b></p> <p>093215</p>  <p>093115</p> 	<p><b>Separators</b></p> <p>095200</p>  <p>095100</p>  <p>095000</p> 	
<p><b>Screw complete with thrust nut</b> 093111</p> 	<p><b>Thrust Race</b> 093121</p>  <p><b>Converter</b> 093122</p> 	<p><b>Rod Extensions</b></p> <p>093119</p>  <p>093123</p>  <p>093219</p>  <p>093223</p> 		

PULLERS

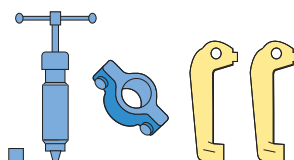
## 15000 RAM

Part No. 150000 (P.118)

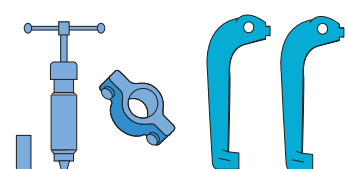


## TWIN LEG

Part No. 152400 (P.119)



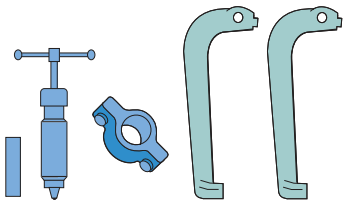
Part No. 152600 (P.119)



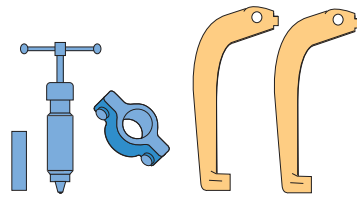
# HYDRAULIC PULLER ILLUSTRATIONS

## TWIN LEG cont.

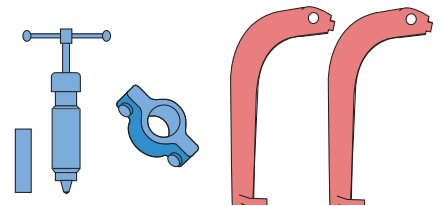
Part No. 152700 (P.119)



Part No. 152800 (P.119)

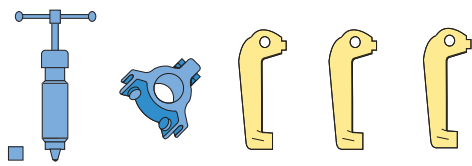


Part No. 12900 (P.119)

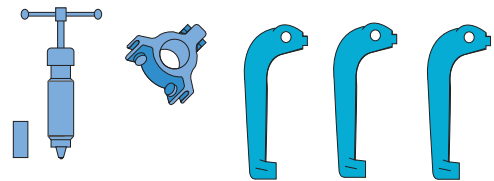


## TRIPLE LEG

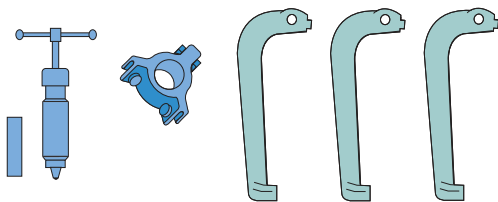
Part No. 153400 (P.119)



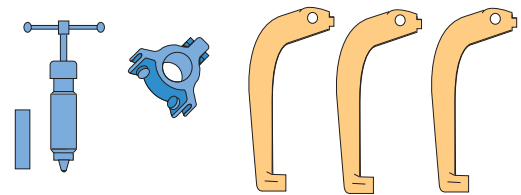
Part No. 153600 (P.119)



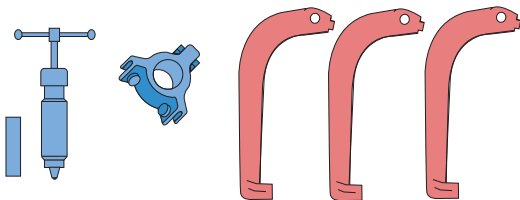
Part No. 153700 (P.119)



Part No. 153800 (P.119)

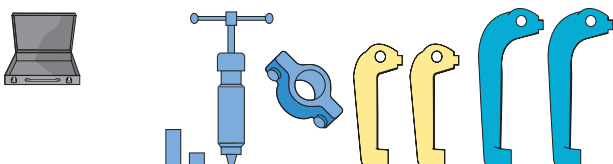


Part No. 153900 (P.119)

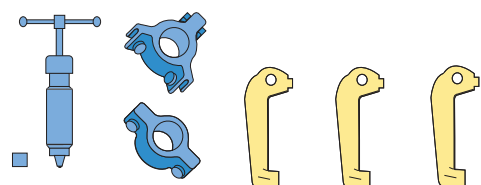


## KITS - Twin/Triple Leg

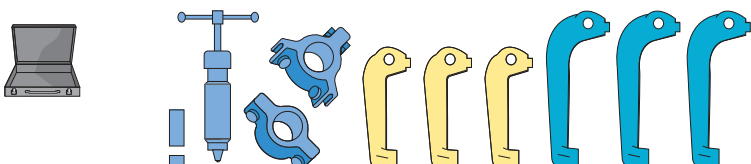
Part No. 154900 (P.120)



Part No. 153405 (P.120)



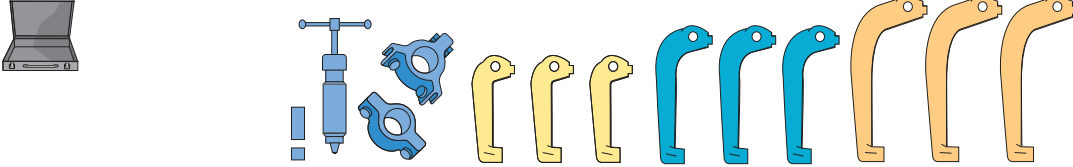
Part No. 155000 & 155003 (P.121)



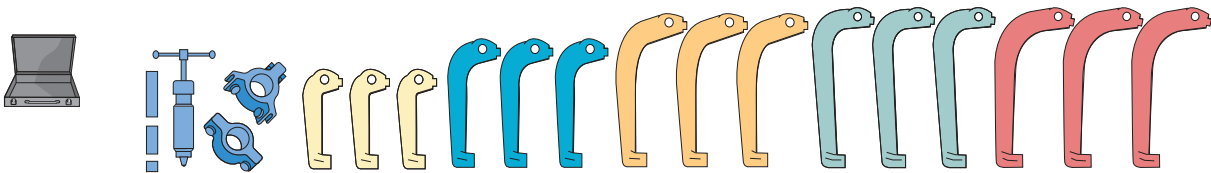
# HYDRAULIC PULLER ILLUSTRATIONS

## KITS - Twin/Triple Leg cont.

Part No. 155008 (P.121)

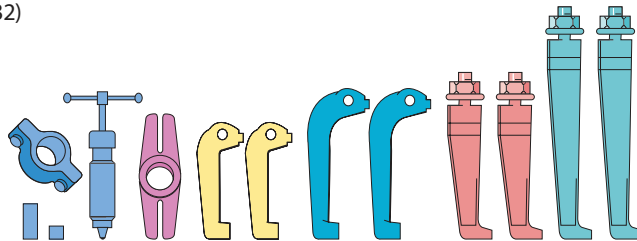


Part No. 155100 (P.122)

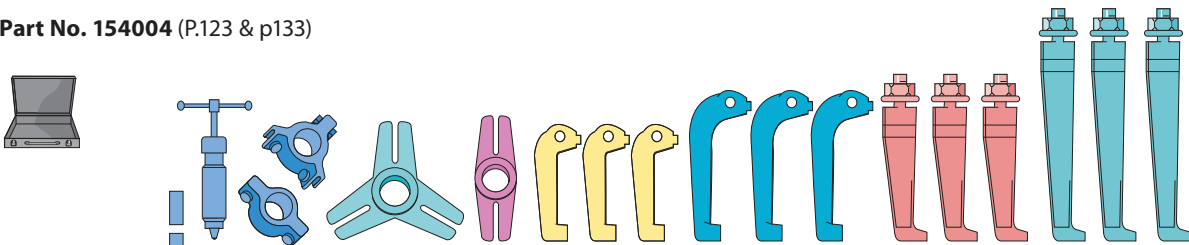


## KITS - Combination Twin/Triple Leg

Part No. 154003 (P.123 & P132)

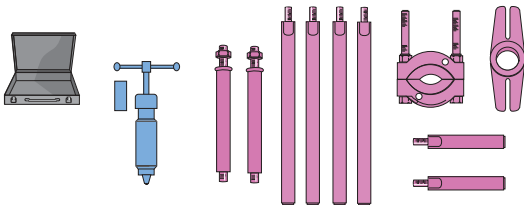


Part No. 154004 (P.123 & p133)

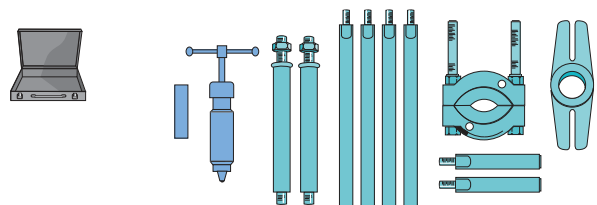


## KITS - Twin/Triple Leg & Separator

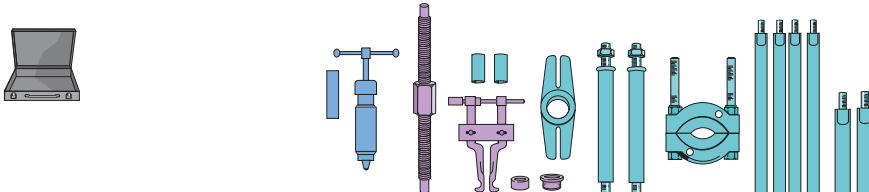
Part No. 193100 (P.124)



Part No. 193200 (P.124)



Part No. 156000 (P.125)

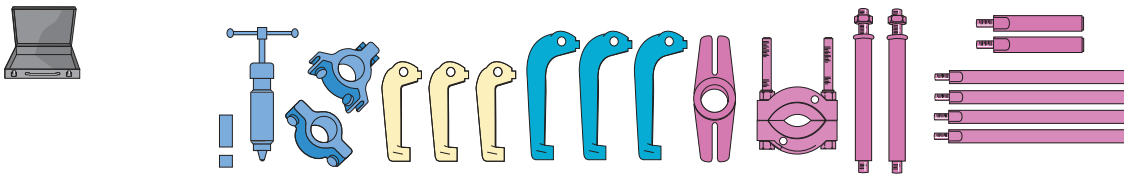


PULLERS

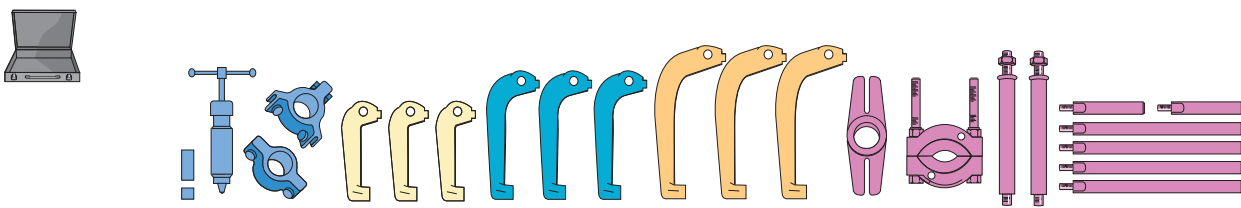
# HYDRAULIC PULLER ILLUSTRATIONS

## KITS - Twin/Triple Leg & Separator cont.

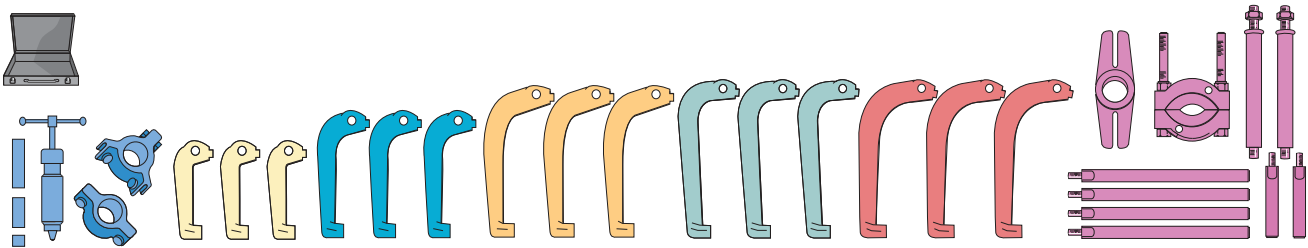
Part No. 155200 (P.125)



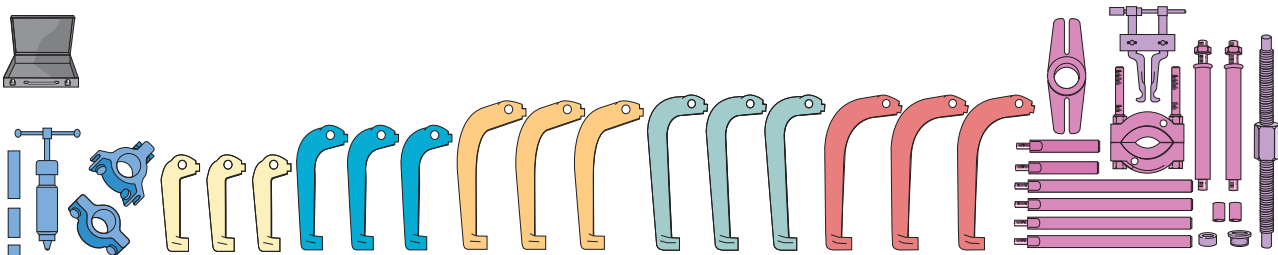
Part No. 155208 (P.126)



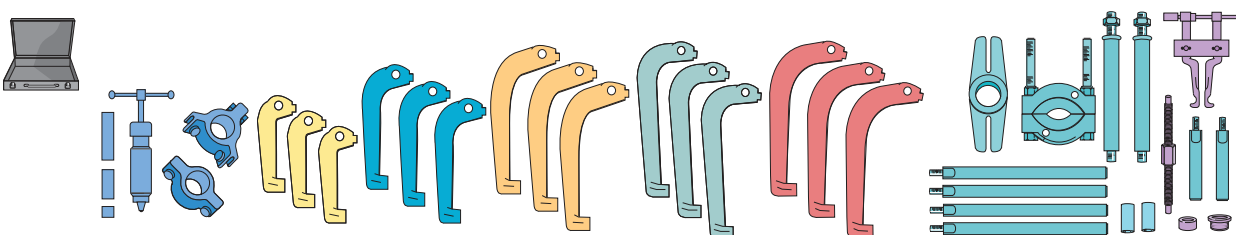
Part No. 155400 (P.127)



Part No. 155700 (P.128)



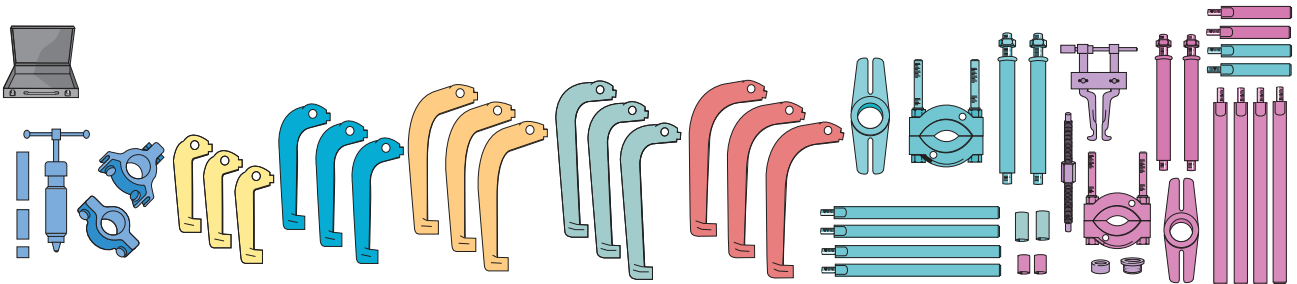
Part No. 155800 (P.129)



# HYDRAULIC PULLER ILLUSTRATIONS

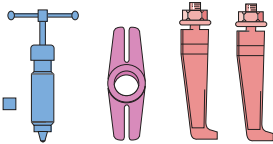
## KITS - Twin/Triple Leg & Separator cont.

Part No. 155900 (P.130)

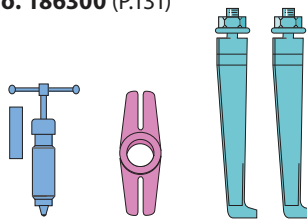


## TWIN LEG - Thin Jaw

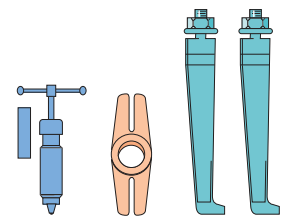
Part No. 186100 (P.131)



Part No. 186300 (P.131)

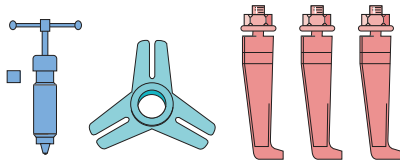


Part No. 186200 (P.131)

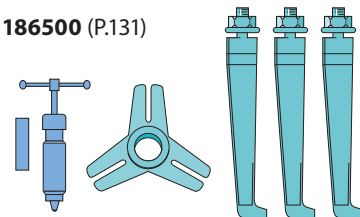


## TRIPLE LEG- Thin Jaw

Part No. 186400 (P.131)

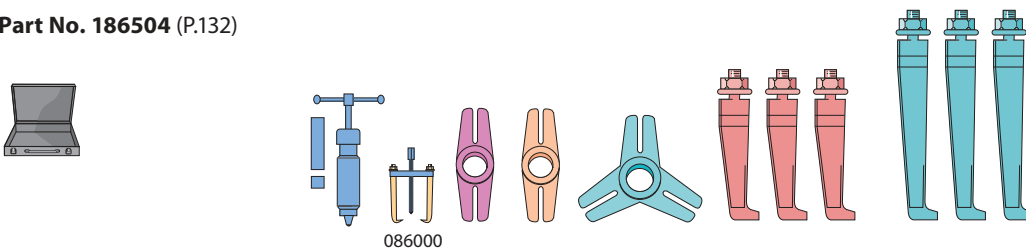


Part No. 186500 (P.131)



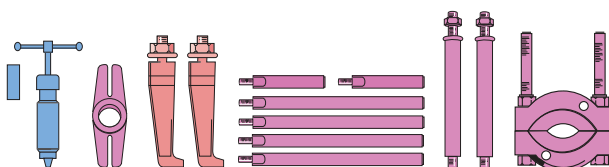
## KITS - Thin Jaw Twin/Triple Leg

Part No. 186504 (P.132)

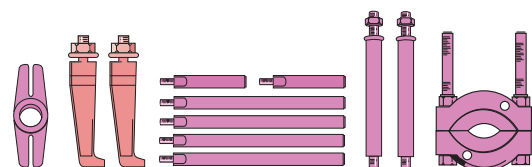


## KITS - Thin Jaw Twin/Triple Leg & Separator

Part No. 193103 (P.133)



Part No. 193104 (P.133)



PULLERS

# SLIDE HAMMER PULLER COMPONENTS & ILLUSTRATIONS

**Extractors**

095809 Ø 6-8.5mm	095810 Ø 8-11mm	095811 Ø 10.5-13mm	095812 Ø 13-18mm	095813 Ø 18-22.5mm	095814 Ø 22.5-30mm	095815 Ø 30-38mm	095816 Ø 38-50mm	095817 Ø 50-60mm
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**Slide Hammer Assembly**  
085421

**Straight Legs**  
085414

**Cranked Legs**  
085415

**Pulling Unit**  
095805

**Adjustable Cones**

085418	085453
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**Bolt**  
085451

**Nut**  
08545270

**2 Way Beams**

085412	085454
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**3 Way Beams**

085413	085455
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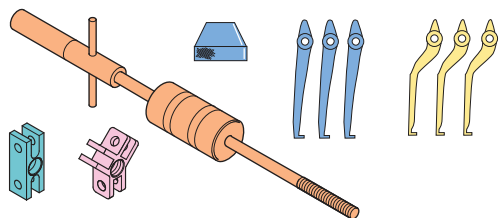
**Adaptor**  
095820

**Force Screw**  
082103

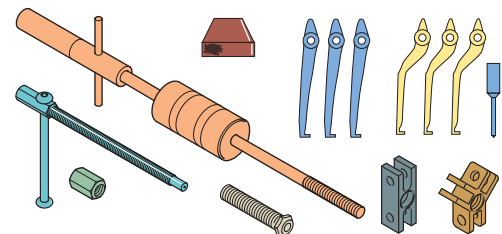
**Extension**  
082104

## COMBI PULL - Slide Hammer Pullers

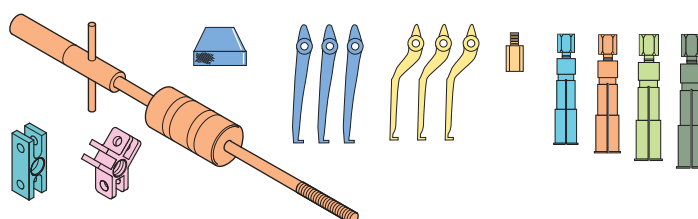
**Part No. 085400 (P.144)**



**Part No. 085450 (P.145)**



**Part No. 085403 (P.145)**

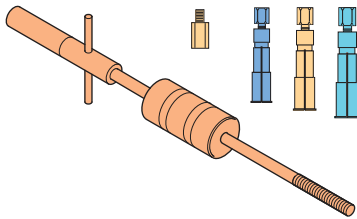




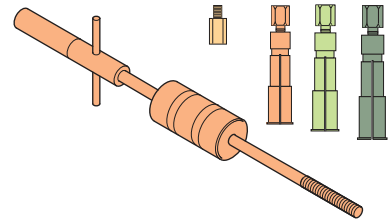
# SLIDE HAMMER PULLER ILLUSTRATIONS

## SPLIT COLLET EXTRACTOR PULLERS

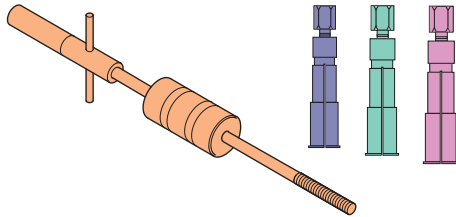
Part No. 095801 (P.146)



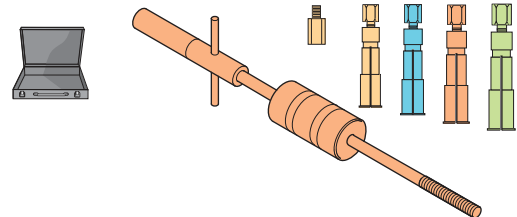
Part No. 095802 (P.146)



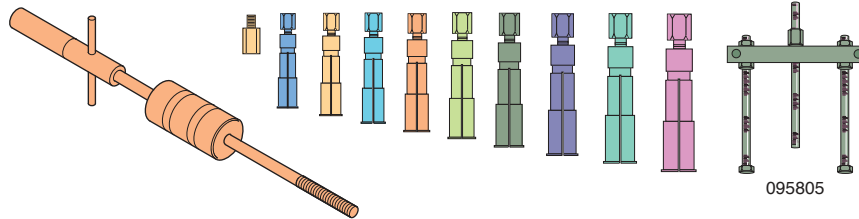
Part No. 095803 (P.146)



Part No. 095804 (P.146)

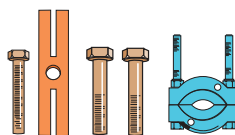


Part No. 095800 (P.147)



## EXTERNAL BEARING PULLERS

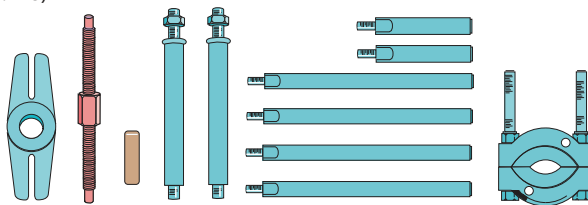
Part No. 093000 (P.148)



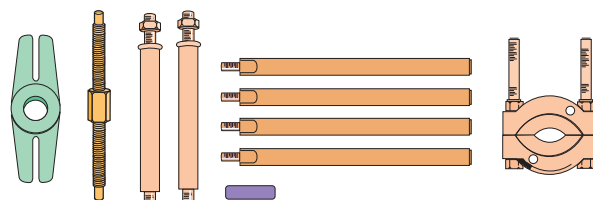
Part No. 093100 (P.148)



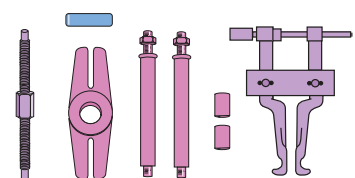
Part No. 093200 (P.148)



Part No. 093300 (P.148)



Part No. 094500 (P.148)

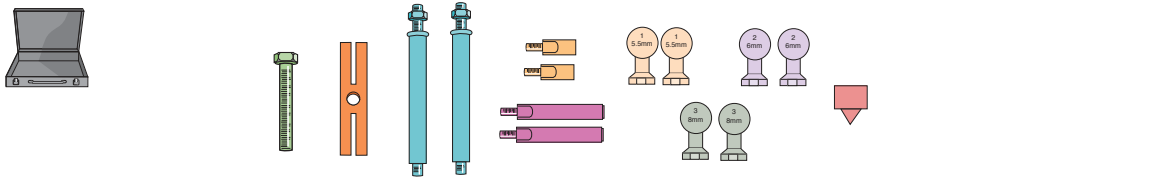


PULLERS

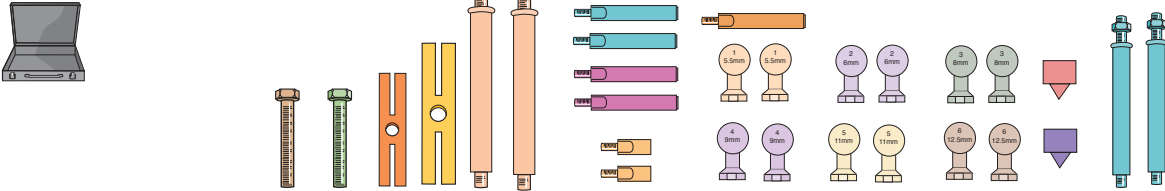
# MULTIPULL® COMPONENTS & ILLUSTRATIONS

<b>Forcing Screws</b> 098011   082811   093113 			<b>Beams</b> 098012   098112   098212 			<b>Rod Assemblies</b> 098015   098115   098215 		
<b>Rod Extensions</b> 098217 195mm for 098200  098218 295mm  098017 95mm for 098000  098120 195mm for 098100  098119 95mm for 098100  098019 			<b>Spindle End Pieces</b> 098239   098039   098139 			<b>Thrust Washer</b> 098213 		<b>Thrust Nut</b> 098214 
<b>Adaptors</b>								
098021 1 5.5mm 		098022 2 6mm 		098023 3 8mm 		098124 4 9mm 		
098125 5 11mm 		098126 6 12.5mm 		098227 7 16mm 		098228 8 19mm 		
098229 9 22mm 		098230 10 25mm 		098231 11 28mm 		098232 12 31.75mm 		

**Part No. 098000 (P.150)**



**Part No. 098100 (P.150)**



**Part No. 098200 (P.150)**

