

# Pullers

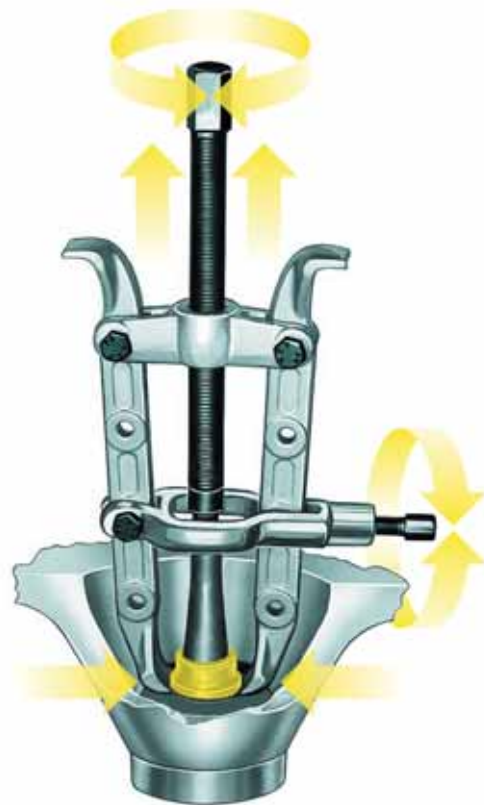


## STAHLWILLE pullers

*Designed with practical applications in mind, drop forged, precision machined on the latest machine tools, hardened and tempered. STAHLWILLE pullers are conscientiously assembled and tested under load. They are ideal tools for removing gearwheels, ball bearings and pulleys from shafts, axles etc.*

### **Product benefits at a glance:**

- high flexural strength thanks to struts with accurately calculated profiles and milled, smooth guides.
- highly load-bearing extractor hooks made of oil-hardened chrome vanadium steel with milled-profile jaws and specially-designed grip geometry for use in confined spaces and optimised radii for shafts and axles.
- smooth running and high force transmission through the nut with its hard-wearing, smooth thread contours.
- high extraction force with ease is made possible even where there is high friction and counterforces due to the CNC milled precision thread.
- damage to the thread of the nut is effectively prevented, even if the full length of the thread is used, due to the clearance at the end of the thread.
- excellent running characteristics of the thread itself thanks to high-grade hardening and tempering and the special coatings on the thrust spindles.
- to enable stubborn parts to be loosened, it may be necessary to tap the puller with a hammer after it has been tensioned. For this reason, the spindle head is equipped with a rounded impact head.
- close-tolerance, performance-matched jaw sizes on the spindle head ensure non-slip contact with the drive tool.
- to prevent damage to the shafts while extraction force is applied, the centre is freely-swivelling.



**How a two-armed puller works**

**Battery terminal puller in use on a car battery**





Separating fixture  
in use for removing  
ball bearings

Puller in use  
for removing  
gearwheels

## Numerous pullers are available for different applications.

- Standard pullers
- Battery terminal pullers
- Ball joint separators
- Internal pullers
- Counter stays
- Separating fixtures
- Wheel hub pullers



### Standard pullers

**Two- or three-armed puller?**

**A three-armed puller is generally preferable to a two-armed one provided there is sufficient space because it distributes the pulling forces more evenly.**



After attaching and locking the puller No. 11060/11061 1, the central threaded spindle 2 is turned to ease the bearing off its mount without causing damage.





## 11050 Standard pullers

**two-armed**, with sliding permanently parallel extractor hooks, zinc plated; for extracting gearwheels, ball bearings, pulleys and similar parts from shafts or axles; for removing ball bearings, bearing outer races and bushes from holes; hooks can be used as internal or external hooks.



Code	size	Clamp. width mm	Clamp. depth mm	$\Delta$ g	
71 1300 11	1	25-80	100	1000	1
71 1300 12	2	25-130	100	1100	1
71 1300 13	3	50-160	150	2800	1
71 1300 14	4	60-200	150	3200	1
71 1300 15	5	80-250	200	6700	1
71 1300 16	6	80-350	200	8000	1

## H 11050 Arms for pullers No 11050/11051

1 piece

Code	size	for puller No	$\Delta$ g	
79 1300 11	1	11050-1, -2 11051-1, -2	238	1
79 1300 12	3	11050-3, -4 11051-3, -4	580	1
79 1300 13	5	11050-5, -6	1615	1

## 11053 Standard pullers

**two-armed**, with swivelling extractor hooks for larger reaches, zinc plated; for extracting gearwheels, ball bearings, pulleys and similar parts from shafts or axles; hooks can be used as internal or external hooks; for internal extraction, simply turn the hooks and spindle round; the large leverage effect ensures a firm grip on the part to be extracted, whether internal or external.



Code	size	Clamp. width mm	Clamp. depth mm	$\Delta$ g	
71 1502 11	1	50-300	270	4500	1
71 1502 12	2	50-400	400	5800	1

## 11051 Standard pullers

**three-armed**, with sliding permanently parallel extractor hooks, zinc plated; for extracting gearwheels, ball bearings, pulleys, fan wheels and similar parts from shafts or axles; for removing ball bearings, bearing outer races and bushes from holes; hooks can be used as internal or external hooks.



Code	size	Clamp. width mm	Clamp. depth mm	$\Delta$ g	
71 0800 11	1	25-80	100	1280	1
71 0800 12	2	25-120	100	1600	1
71 0800 13	3	25-160	150	3600	1
71 0800 14	4	25-200	150	3690	1

## 11054 Pullers

**three-armed**, with swivelling extractor hooks for larger reaches, zinc plated; for extracting gearwheels, ball bearings, pulleys and similar parts from shafts or axles; hooks can be used as internal or external hooks; for internal extraction, simply turn the hooks and spindle round; the efficient leverage effect forces the hooks firmly onto the part to be extracted.



Code	size	Clamp. width mm	Clamp. depth mm	$\Delta$ g	
71 1503 11	1	50-300	270	5700	1
71 1503 12	2	50-400	400	8000	1

## 11056 Set: Pullers

consisting of the most common two- and three-armed pullers with two- and three-armed, sliding, parallel extractor hooks; for extracting gearwheels, ball bearings, pulleys and similar parts from shafts or axles; hooks can be used as internal or external hooks; the efficient leverage effect forces the hooks firmly onto the part to be extracted.



Code	Clamp. width mm	Clamp. depth mm	$\Delta$ g	
96 71 13 11	120	100/200/250	7000	1



## 12150 Pullers

**two-armed** version with swivelling, double-action extractor hooks, zinc plated; for extracting gearwheels, ball bearings, pulleys and similar parts from shafts or axles; for removing ball bearings, bearing outer races and bushes from holes; for internal extraction, simply swivel the hooks and turn the spindle round or just turn the hooks round.



Code	size	Clamp. width mm	Clamp. depth mm	△△ g	
<b>71 1402 11</b>	<b>1</b>	20–150	80	720	1
<b>71 1402 12</b>	<b>2</b>	40–220	130	1675	1

## 12152 Three arm pullers

**three-armed** version with swivelling, double-action extractor hooks, zinc plated; for extracting gearwheels, ball bearings, pulleys and similar parts from shafts or axles; for removing ball bearings, bearing outer races and bushes from holes; for internal extraction, simply swivel the hooks and turn the spindle round or just turn the hooks round.



Code	size	Clamp. width mm	Clamp. depth mm	△△ g	
<b>71 1403 11</b>	<b>1</b>	20–150	80	920	1
<b>71 1403 12</b>	<b>2</b>	40–200	130	2235	1

## 11055 Two arm pullers

**two-armed**, with swivelling extractor hooks and lateral clamp clip, zinc plated; when the clamp clip is tightened, the claws of the extractor hooks locate under the part to be extracted and lever it free as force is applied before extraction begins; for extracting gearwheels, ball bearings, pulleys, drop arms and similar parts from shafts or axles; the clamp clip presses the extractor hooks firmly against the part being extracted.



Code	size	Clamp. width mm	Clamp. depth mm	△△ g	
<b>71 1900 11</b>	<b>1</b>	20–70	85	1211	1
<b>71 1900 12</b>	<b>2</b>	20–100	100	1643	1
<b>71 1900 13</b>	<b>3</b>	30–150	150	2907	1

## 11040 Battery terminal pullers

**two-armed**, with a self-centring quick-action clamp and automatic feed, zinc plated; for extracting battery terminal clamps, smaller ball bearings, pulleys etc.; as force is applied through the spindle, the extractor hooks automatically apply increasing force to the part being extracted; particularly suited to car electrics, compressed air system repairs and similar applications due to the compact design and small hooks.



Code	size	Clamp. width mm	Clamp. depth mm	△△ g	
<b>71 1200 11</b>	<b>1</b>	10–60	45	245	1
<b>71 1200 12</b>	<b>2</b>	10–70	65	261	1
<b>71 1200 13</b>	<b>3</b>	10–100	80	560	1

## 11042 Battery terminal pullers

**three-armed**, with a self-centring quick-action clamp and automatic feed, zinc plated; for extracting battery terminal clamps, smaller ball bearings, pulleys etc.; as force is applied through the spindle, the extractor hooks automatically apply increasing force to the part being extracted; particularly suited to car electrics, compressed air system repairs and similar applications due to the compact design and small hooks.



Code	size	Clamp. width mm	Clamp. depth mm	△△ g	
<b>71 1800 11</b>	<b>1</b>	10–60	45	299	1
<b>71 1800 12</b>	<b>2</b>	10–70	65	340	1
<b>71 1800 13</b>	<b>3</b>	10–100	80	692	1

## 11060 Internal pullers

for extracting ball bearings, bearing outer races and bushes, zinc plated; to be used with Counter stay No 11061 and Slide hammer No 11062; even bearings which are tight up against the walls are securely gripped due to the excellent clamping effect.



Code	size	Clamp. width mm	△△ g	
<b>71 1600 10</b>	<b>0</b>	8–12	100	1
<b>71 16 10 11</b>	<b>1</b>	12–16	110	1
<b>71 1600 21</b>	<b>1a</b>	16–20	120	1
<b>71 1600 12</b>	<b>2</b>	20–27	131	1
<b>71 1600 13</b>	<b>3</b>	27–36	365	1
<b>71 1600 15</b>	<b>5</b>	36–46	385	1
<b>71 1600 16</b>	<b>6</b>	46–58	558	1
<b>71 1600 17</b>	<b>7</b>	58–70	612	1
<b>71 1600 18</b>	<b>8</b>	70–100	1659	1