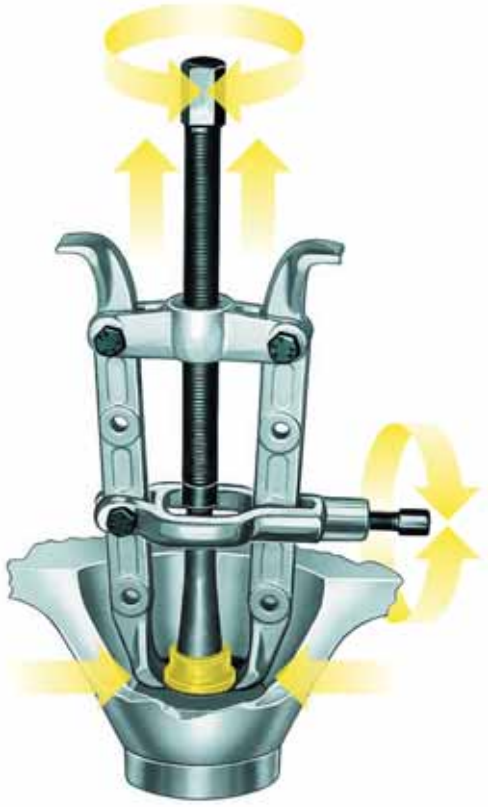
Pullers

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	g	
71 13 00 11	**1**	25–80	100	1000	1
71 13 00 12	**2**	25–130	100	1100	1
71 13 00 13	**3**	50–160	150	2800	1
71 13 00 14	**4**	60–200	150	3200	1
71 13 00 15	**5**	80–250	200	6700	1
71 13 00 16	**6**	80–350	200	8000	1

H 11050 Arms for pullers No 11050/11051

1 piece

Code	size	for puller No	g	
79 13 00 11	**1**	11050-1, -2		
		11051-1, -2	238	1
79 13 00 12	**3**	11050-3, -4		
		11051-3, -4	580	1
79 13 00 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	g	
71 15 02 11	**1**	50–300	270	4500	1
71 15 02 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	g	
71 08 00 11	**1**	25–80	100	1280	1
71 08 00 12	**2**	25–120	100	1600	1
71 08 00 13	**3**	25–160	150	3600	1
71 08 00 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	g	
71 15 03 11	**1**	50–300	270	5700	1
71 15 03 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	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	
71 14 02 11	**1**	20–150	80	720	1
71 14 02 12	**2**	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	
71 14 03 11	**1**	20–150	80	920	1
71 14 03 12	**2**	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	
71 19 00 11	**1**	20–70	85	1211	1
71 19 00 12	**2**	20–100	100	1643	1
71 19 00 13	**3**	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	
71 12 00 11	**1**	10–60	45	245	1
71 12 00 12	**2**	10–70	65	261	1
71 12 00 13	**3**	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	
71 18 00 11	**1**	10–60	45	299	1
71 18 00 12	**2**	10–70	65	340	1
71 18 00 13	**3**	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	
71 16 00 10	**0**	8–12	100	1
71 16 10 11	**1**	12–16	110	1
71 16 00 21	**1a**	16–20	120	1
71 16 00 12	**2**	20–27	131	1
71 16 00 13	**3**	27–36	365	1
71 16 00 15	**5**	36–46	385	1
71 16 00 16	**6**	46–58	558	1
71 16 00 17	**7**	58–70	612	1
71 16 00 18	**8**	70–100	1659	1

11061 Counter stays

to be used with Internal Puller No 11060; zinc plated;
insert and open up the internal puller;
screw the spindle of the counter-stay into the internal puller; extract the workpiece.

Code	size	suitable for No 11060	g	
71 17 00 11	**1**	sizes 0–2	654	1
71 17 00 12	**2**	sizes 3–7	1500	1
71 17 00 13	**3**	size 8	2317	1

11062 Slide hammers

to be used with Internal Puller No 11060; zinc plated; for extracting ball bearings if it is not possible to use Puller No 11061 because there is insufficient space.

Code	size	suitable for No 11060	g	
71 16 10 01	**1**	sizes 0–2	650	1
71 16 10 02	**2**	sizes 3; 5	1435	1

12613 Separating fixtures

zinc plated; for use with No 12614 of same sizes;
for separating and extracting ball bearings, roller bearings, bushes, wheels and other tightly fitting parts;
applying uniform pulling force to the side bolts will gently separate workpieces;
apply puller No 12614; apply force to pull off.

Code	size	Clamp. width mm	Opening mm	g	
71 03 00 10	**0**	5–60	60	562	1
71 03 00 11	**1**	12–75	75	787	1
71 03 00 12	**2**	22–115	115	2100	1
71 03 00 13	**3**	30–155	155	4462	1

12614 Pullers

zinc plated; for use with No 12613 of same sizes;
for extracting ball bearings, roller bearings, bushes, wheels and other tight fitting parts;
the puller is connected to separator No 12613 to enable the workpiece to be extracted.

Code	size	Clamp. width mm	Extraction bolts mm	g	
71 04 00 10	**0**	45–110	110	910	1
71 04 00 11	**1**	55–140	155	1220	1
71 04 00 12	**2**	60–215	200	2800	1
71 04 00 13	**3**	85–295	315	6000	1

V 12614 Extensions

1 pair, for use with puller No 12614; extensions for the extraction bolts on the puller for use with longer workpieces.

Code	size	for No	L mm	g	
79 44 00 11	**1**	12614-0, -1	100	89	1
79 44 00 12	**2**	12614-2	150	233	1
79 44 00 13	**3**	12614-3	150	743	1

11030 Universal wheel hub pullers

with three extractor hooks, zinc plated;
for extracting wheel hubs on HGV's and cars up to a hole diameter of 225 mm;
the axially mounted threaded bush enables the workpiece to be freed by gently tapping the end of the spindle.

Code	size	Arms	g	
71 11 00 13	**1**	3	3566	1
71 11 00 15	**2**	5	4568	1

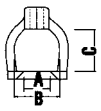
H 11030 Arm for No 11030

1 piece

Code	g	
79 10 00 10	524	1

11041 Ball joint separators

for forcing out ball pins on vehicles, zinc plated.



Code	size	A mm	B mm	C mm	g	
71230011	**1**	18	37	37	309	1
71230012	**2**	23	45	45	476	1
71230013	**3**	29	55	60	1300	1
71230014	**4**	39	70	80	2000	1

size 1 for passenger vehicles
size 2 for passenger vehicles and vans
size 3 + 4 for trucks

Spindles

Code	No	for puller No	g	
79281011	**SP 11040-1**	11040-1; 11042-1	108	1
79281111	**SP 11040-2**	11040-2; 11042-2	120	1
79281012	**SP 11040-3**	11040-3; 11042-3	80	1
79281013	**SP 11050-1**	11050-1, -2; 11051-1, -2; 12150-1, 12152-1, 12614-0, -1	171	1
79281014	**SP 11050-3**	11050-3, -4; 11051-3, -4; 12614-2	590	1
79281015	**SP 11050-5**	11050-5, -6	1210	1
79281016	**SP 11055-1**	11055-1	177	1
79281017	**SP 11055-2**	11055-2	176	1
79281018	**SP 11055-3**	11055-3	600	1
79281019	**SP 11041-1**	11041-1	80	1
79281020	**SP 11041-2**	11041-2	94	1
79281021	**SP 11041-3**	11041-3	360	1
79281022	**SP 11041-4**	11041-4	231	1
79281023	**SP 11053-1**	11053-1, -2; 11054-1, -2	880	1
79281034	**SP 12150-2**	12150-2; 12152-2	440	1

12616 Universal ball joint separator

zinc plated, DIN/ISO 7803,
for extracting ball-joints on cars
and light delivery vans.

Code	size	Fork opening mm	Clear height mm	g	
71050010	**1**	18–22	20–50	611	1

12623 Ball joint separator

zinc plated; for extracting ball-joints especially
on BMW, Fiat, Ford, Mercedes-Benz, Nissan,
Opel, Toyota, VW/Audi and Volvo cars.

Code	Fork opening mm	Clear height mm	g	
71050011	20	12–50	1284	1

12623-1 Ball joint separator

for vehicles with aluminium chassis;
zinc plated; for extracting ball-joints,
especially on AUDI A6 and A8 after
model year 1999 and for other vehicles
with limited work space.

Code	Fork opening mm	Clear height mm	g	
71050012	24	60–80	1577	1

12623-3 Ball joint separator

on heavy goods vehicles, buses
and construction site vehicles;
zinc plated.

Code	Fork opening mm	Clear height mm	g	
71050014	35–45	115	6000	1

12623-4 Ball joint separator

on medium-sized and heavy HGV's,
buses and construction site and
other special vehicles; zinc plated.

Code	Fork opening mm	Clear height mm	g	
71050015	27–36	90	3438	1

And certified to DIN EN ISO 9001

After STAHLWILLE was certified,
as one of the very first companies back in 1990,
to DIN EN ISO 9002, our Quality Assurance System
was also certified to DIN EN ISO 9001 in 1992.

CERTIFICATE

DQS GmbH
Deutsche Gesellschaft zur Zertifizierung von Managementsystemen

hereby certifies that the company

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for the scope
manufacture of tools

has implemented and maintains a
Quality Management System.

An audit, documented in a report, has verified that this quality management system fulfills the requirements of the following standard:

ISO 9001:2008
November 2008 edition

This certificate is valid until 2012-06-03
Certificate Registration No. 000018 QM08
Frankfurt am Main 2009-06-04

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