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STAHLWILLE Pullers

1

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.

2

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.

3

Numerous pullers are available for different applications:

Standard pullers, battery terminal pullers, ball joint separators, internal pullers, counter stays, separating fixtures, wheel hub pullers.

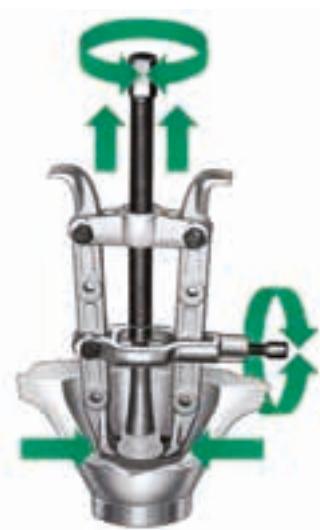
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After attaching and locking the puller No 11060/11061 **1**, the central threaded spindle **2** is turned to ease the bearing off its mount without causing damage.

1**2**

1


Battery terminal puller in use on a car battery

2


How a two-armed puller works



Separating fixture in use for removing ball bearings



Puller in use for removing gearwheels

9
3


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.

Pullers

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	Max. loading in t	Max. torque in N·m	g	box
71 13 00 11	1	25-80	100	4.5	80	999	1
71 13 00 12	2	25-130	100	4.5	80	1103	1
71 13 00 13	3	50-160	150	6.5	150	2754	1
71 13 00 14	4	60-200	150	6.5	150	3085	1
71 13 00 15	5	80-250	200	11.0	320	7000	1
71 13 00 16	6	80-350	200	11.0	320	8400	1

H 11050 Arms for pullers No 11050/11051

1 piece

Code	size	for puller No	g	box
79 13 00 11	1	11050-1, -2		
		11051-1, -2	238	1
79 13 00 12	3	11050-3, -4		
		11051-3, -4	602	1
79 13 00 13	5	11050-5, -6	1596	1



Made in
Germany

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	Max. loading in t	Max. torque in N·m	g	box
71 15 02 11	1	50-300	270	6.0	120	4330	1
71 15 02 12	2	50-400	400	6.0	120	6000	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	Max. loading in t	Max. torque in N·m	g	box
71 08 00 11	1	25-80	100	5.5	55	1280	1
71 08 00 12	2	25-120	100	5.5	55	1422	1
71 08 00 13	3	25-160	150	7.0	70	3507	1
71 08 00 14	4	25-200	150	7.0	70	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	Max. loading in t	Max. torque in N·m	g	box
71 15 03 11	1	50-300	270	12.0	220	4990	1
71 15 03 12	2	50-400	400	12.0	220	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	box
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	Max. loading in t	Max. torque in N·m	Ø g	Box
71140211	1	20-150	80	3.5	50	708	1
71140212	2	40-220	130	4.0	60	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	Max. loading in t	Max. torque in N·m	Ø g	Box
71140311	1	20-150	80	4.0	60	920	1
71140312	2	40-200	130	4.5	70	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	Max. loading in t	Max. torque in N·m	Ø g	Box
71190011	1	20-70	85	5.0	120	1211	1
71190012	2	20-100	100	6.0	120	1643	1
71190013	3	30-150	150	8.0	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	Max. loading in t	Max. torque in N·m	Ø g	Box
71120011	1	10-60	45	2.5	25	245	1
71120012	2	10-70	65	3.0	35	261	1
71120013	3	10-100	80	3.5	45	315	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	Max. loading in t	Max. torque in N·m	Ø g	Box
71180011	1	10-60	45	2.5	25	299	1
71180012	2	10-70	65	3.0	35	340	1
71180013	3	10-100	80	3.5	45	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	Max. torque in N·m	Ø g
71160010	0	8-12	30	102
71161011	1	12-16	30	110
71160021	1a	16-20	30	116
71160012	2	20-27	30	131
71160013	3	27-36	60	365
71160015	5	36-46	60	385
71160016	6	46-58	60	558
71160017	7	58-70	60	612
71160018	8	70-100	60	1659

Pullers

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	Max. torque in N·m	Ø Ø g	Box
71170011	1	sizes 0-2	30	654	1
71170012	2	sizes 3-7	60	1518	1
71170013	3	size 8	60	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	Ø Ø g	Box
71161001	1	sizes 0-2	650	1
71161002	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	Max. loading in t	Max. torque in N·m	Ø Ø g	Box
71030010	0	5-60	60	2.0	30	562	1
71030011	1	12-75	75	2.5	40	787	1
71030012	2	22-115	115	4.0	70	2020	1
71030013	3	30-155	155	5.0	90	3740	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	Max. loading in t	Max. torque in N·m	Ø Ø g	Box
71040010	0	45-110	110	2.0	30	910	1
71040011	1	55-140	155	2.5	40	1220	1
71040012	2	60-215	200	4.0	70	2802	1
71040013	3	85-295	315	5.0	90	6820	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	Ø Ø g	Box
79440011	1	12614-0, -1	100	89	1
79440012	2	12614-2	150	233	1
79440013	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	Max. loading in t	Max. torque in N·m	Ø Ø g	Box
71110013	1	3	14.0	280	3566	1
71110015	2	5	14.0	280	4568	1

H 11030

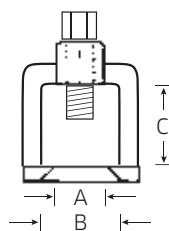
Arm for No 11030

1 piece

Code	Ø Ø g	Box
79100010	524	1

11041 Ball joint separators

for forcing out ball pins on vehicles, zinc plated.



Code	size	A mm	B mm	C mm	Max. torque in N·m	Ø Ø g	Box
71230011	1	18	37	37	50	309	1
71230012	2	23	45	45	120	476	1
71230013	3	29	55	60	160	1321	1
71230014	4	39	70	80	280	2024	1

size 1 for passenger vehicles

size 2 for passenger vehicles and vans

size 3 + 4 for trucks

SP 11040-12150 Spindles

Code	No	for puller No	Ø Ø g	Box
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; 11056; 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	592	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	876	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	Max. loading in t	Max. torque in N·m	Ø Ø g	Box
71050010	1	18-22	20-50	3.5	70	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	Max. loading in t	Max. torque in N·m	Ø Ø g	Box
71050011	20	12-50	3.5	40	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	Max. loading in t	Max. torque in N·m	Ø Ø g	Box
71050012	24	60-80	3.5	40	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	Max. loading in t	Max. torque in N·m	Ø Ø g	Box
71050014	35-45	115	20	200	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	Max. loading in t	Max. torque in N·m	Ø Ø g	Box
71050015	27-36	90	10	100	2995	1

Made in
Germany

