

## 78010

### Mechanical nut splitter



- With a chisel
- Easy retraction of the chisel from the split nut through **pull-back technology**
- No catching
- Very sharp cutting edge through chamfer cut

#### Applications

For splitting nuts up to quality class 6 that are jammed and cannot be loosened.



78010



Size	AF mm	Length mm	78010	...
0	4 - 10	75		101
1	10 - 18	100		102
2	19 - 27	130		103
3	27 - 36	150		104

## 78015

### Mechanical nut splitter



- With double splitting effect through 2 chisels, zinc-plated
- Easy retraction of the chisel from the split nut through **pull-back technology**
- No catching
- Very sharp cutting edge through facet cut

#### Applications

For removing nuts up to quality classes 5, 6 and 8 that are jammed and cannot be loosened.

#### Quality

Chromium-vanadium steel.



78015



AF mm	Length mm	78015	...
10 - 27	130		101
17 - 36	160		102

## 78018

### Hydraulic nut splitter



- Very sharp cutting edge through chamfer cut

#### Applications

For splitting nuts up to quality classes 5, 6, 8 and 10 that are jammed and cannot be loosened. The double shoulder facilitates use even in narrow spaces. Only a small amount of force needs to be applied due to the hydraulics.

#### Quality

Special steel.



78018 101

78018 102

Size	For AF mm	For AF inch	For thread M	78018	...
1	7 - 22	9/32 - 7/8	-		101
2	22 - 36	7/8 - 1.7/16	-		102

## 78020

### Stud bolt inserter and extractor



Hardened and tempered, the stud bolt is securely clamped against the internal teeth by a knurling wheel in eccentric arrangement with a groove, operated by open-ended wrench or box wrench.

#### Applications

For stud bolts with right-hand and left-hand threads.

Size	For bolts mm	Inch	AF mm	78020	...
1	5 - 10	3/16 - 3/8	17		101
2	8 - 19	5/16 - 3/4	27		102
3	18 - 25	3/4 - 1	36		103



78020

## 78025

### Stud bolt inserter and extractor



#### Design

General purpose, continuously adjustable.

#### Applications

Can be used in extremely tight spaces, ideal even for rusted or scaled screws.

Clamping range mm	78025	...
6 - 12		101



78025

## 78029

### Stud bolt insert and extractor set



#### Design

For inserting and extracting stud bolts. For clockwise and anti-clockwise tightening. Strong steel body with a continuous longitudinal bore. The stud bolts are carefully gripped by three rollers in an eccentric arrangement. Simply place the device on the stud bolt and turn. The stud bolt is gripped and held automatically.

#### Applications

For bolts, express screws and stud screws.

#### Quality

CV steel, chrome-plated.

78029 101



Set contents	For bolt Ø mm	Square drive inch	Version	78029	...
4 pieces	6/8/10/12	1/2	In box		101

## 78030

### Stud bolt inserters and extractors



#### Design

For inserting and extracting stud bolts. For clockwise and anti-clockwise tightening. Strong steel body with a continuous longitudinal bore. The stud bolts are carefully gripped by three rollers in an eccentric arrangement. Simply place the device on the stud bolt and turn. The stud bolt is gripped and held automatically.

#### Applications

For bolts, express screws and stud screws.

#### Quality

CV steel, chrome-plated.

78030 206-208

78030 210-212



For bolt Ø mm	Outer Ø mm	Hex shoulder AF mm	Length mm	Square drive inch	78030	...
6	24	22	65	1/2		206
7	24	22	65	1/2		207
8	24	22	65	1/2		208
10	28	22	75	1/2		210
12	28	22	75	1/2		212

## 78050 - 78060

### Two-arm and three-arm puller sets



#### Design

- Quality tool steel, with 2 or 3 sliding, constantly parallel pullers in each size
- Good running properties and fixing of the hooks onto the cross beam through the new Glide & FIX technology
- The ARM-LOCK technology guarantees maximum stability of the suspension in the sliding piece through the cross hooks
- This prevents the puller from slipping off the part to be extracted
- Optimal adjustment of the spindle to the shaft through 2-sided spindle tip (ball and tip).

#### Applications

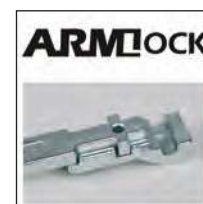
For universal use, interchangeable puller hooks for each required clamping depth. For hard-to-reach areas. Can be used as an internal and external extractor for centric and eccentric extraction.

78050

78060



Clamping width mm	Clamping depth mm	2-arm		3-arm	
		78050	...	78060	...
120	100/200 + 250		101		
120	100/200 + 250				101



## 78070

### Two-arm and three-arm universal extractor set



#### Design

- The set allows the assembly of 8 different extraction models through the combination of pullers and extensions
- Can be used as external or internal extractor by turning the pullers

- Optimal adjustment of the spindle to the shaft through 2-sided spindle tip (ball and tip)

#### Applications

For narrow spaces at multiple clamping depths.

78070



Comprising					
1 Two-arm puller with 3 pairs of puller hooks, clamping width 120 mm,					
1 Three-arm puller with 3 pairs of puller hooks, clamping width 130 mm.					
Clamping width mm	Clamping depth mm	Weight approx. kg	Version	78070	...
120	100/200/250	8.5	In L-BOXX		101

78101 - 78102

Two-arm and three-arm pullers



Design

- With automatic quick-action clamping
- Automatic guidance and centring of the hooks
- Optimal adjustment of the spindle to the shaft through 2-sided spindle tip (ball and tip)

Applications

For ball bearings, pinions, gear wheels, pulleys, pole terminals etc.



Size	Clamping width mm	Clamping depth mm	2-arm	
			78101	...
3/1	60	50	101	
3/2	70	70	102	
3/3	80	80	103	
4/1	100	100	104	
4/2	120	120	105	
4/3	160	160	106	
4/4	250	200	107	

Size	Clamping width mm	Clamping depth mm	3-arm	
			78102	...
3/11	60	50	101	
3/12	70	70	102	
3/13	80	80	103	
5/1	100	100	104	
5/2	120	120	105	
5/3	160	160	106	
5/4	250	200	107	

78103

Three-arm combi-puller set



Design

- Universal application through the use of 2-arm and 3-arm cross beam
- 2 pairs of puller hooks for internal and external extraction included
- Self-locking retaining pins ensure fast and easy replacement of the puller hooks without the need to relieve the compression spring
- Puller hook position is fixed via easily accessible locking lever

- Innovative spring technology allows for a compact and maintenance-free construction
- Ergonomic design for better handling
- Long durability through encapsulated mechanism
- Optimal adjustment of the spindle to the shaft through 2-sided spindle tip (ball and tip)
- The puller can also be used with a slide hammer

Applications

Changing the puller hooks enables use as both an internal and external extractor.



78103

Clamping width outer mm	Clamping width inner mm	Slide hammer length mm	Connecting thread	Load max. t	Version	Weight kg	78103	...
22 - 160	55 - 180	320	M 16x1.5	4.5 (5.5 US)	In L-BOXX	2.4		101

78105

Two-arm puller



Design

- Quality tool steel
- Good running properties and fixing of the puller hooks onto the cross beam through Glide & FIX technology
- The ARM-LOCK technology guarantees maximum stability of the suspension in the sliding piece through the cross hooks

- This prevents the puller from slipping off the part to be extracted
- Optimal adjustment of the spindle to the shaft through 2-sided spindle tip (ball and tip)

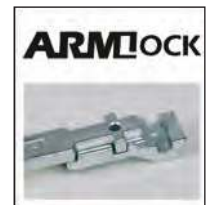
Applications

Can be used as an internal and external extractor.



78105

Size	Clamping width mm	Clamping depth mm	78105	...
1	90	100	101	
10	120	100	102	
2	160	150	103	
20	200	150	104	
3	250	200	105	
30	350	200	106	
4	520	200	107	



78106

Spare hook for two-arm puller art. no. 78105



Design

Complete with sliding piece, in pairs. Quality tool steel.

For size	Clamping depth mm	Standard	
		78106	...
1/10	100	101	
2/20	150	102	
3/30/4	200	103	



78106

**78108 Two-arm puller with quick adjustment**



**Design**

- Quality tool steel
- Mechanical puller with standard hooks and lengths and **Quik-adjust** for quickly releasing and moving the hooks on the beam without a wrench
- Good running properties and fixing of the hooks onto the cross beam through the **Glide & FIX technology**

- The **ARM-LOCK technology** guarantees maximum stability of the suspension in the sliding piece through the cross hooks
- This prevents the puller from slipping off the part to be extracted
- Optimal adjustment of the spindle to the shaft through 2-sided spindle tip (ball and tip).

**Applications**

Can be used as an internal and external extractor.

Size	Clamping width mm	Clamping depth mm	78108	...
1	90	100		<b>101</b>
10	120	100		<b>102</b>
2	160	150		<b>103</b>
20	200	150		<b>104</b>
3	250	200		<b>105</b>
30	350	200		<b>106</b>



78108

**78110 Hydraulic ancillary presses**



**Design**

Steel body with hydraulic mechanism.

**Applications**

These presses are good tools to significantly increase the pressure capacity of mechanical pullers when removing particularly seized parts. To prevent overloading, use only with pullers with a minimum spindle diameter of 25 or 30 mm.

**Operation:**

Place press with screwed-back spindle between the shaft and the puller spindle and clamp with the puller spindle. The hydraulic system is activated by tightening the spindle.

Size	Force kN	Maximum torque Nm	Stroke mm	Height mm	Ø mm	For spindles from Ø mm	78110	...
9/1	100	35	10	62	37	25		<b>101</b>
9/2	150	50	12	80	50	30		<b>102</b>



78110

**78115 Separators and pullers**



**Design**

- Quality tool steel

**Applications**

Gripper for normal use and for releasing flush-fitted parts.

**Note:**

The blades are pressed behind the parts by the clamp and then removed.

Size	Clamping width mm	Clamping depth mm	78115	...
1	95	170		<b>101</b>
2	135	270		<b>102</b>



78115

**78125 Three-arm puller**



**Design**

Quality tool steel, with slim puller arms for difficult-to-reach locations.

**Applications**

For extracting ball bearings, gear wheels, pulleys etc.

**Note:**

The clamping width is adjusted with a wrench. It is not possible for the hooks to slip from the parts to be extracted.

Size	Clamping width mm	Clamping depth mm	78125	...
1	100	100		<b>101</b>
2	150	125		<b>102</b>
3	200	180		<b>103</b>
4	250	225		<b>104</b>
5	350	275		<b>105</b>



78125 101-103

78125 104-105



Workshop equipment

78126

## Three-arm puller



## Design

- Three-arm universal puller with standard puller hooks guarantees uniform load distribution with a particularly secure hold
- Good running properties and fixing of the hooks through the new **Glide & FIX technology**
- Puller hooks parallel in any position
- Optimal adjustment of the spindle to the shaft through 2-sided spindle tip (ball and tip).

## Applications

Can be used as external or internal extractor by turning the puller hooks.



78126

Size	Clamping width mm	Clamping depth mm	78126	...
1	90	100		101
10	120	100		102
2	160	150		103
20	200	150		104
3	250	200		105

78128

## Three-arm universal extractor with quick adjustment



## Design

- Quality tool steel
- Mechanical puller with standard puller hooks in standard lengths and **Quik-adjust** for quickly releasing and moving the hooks on the cross beams without a wrench
- Good running properties and fixing of the hooks onto the cross beam through the **Glide & FIX technology**
- **The ARM-LOCK technology** guarantees maximum stability of the suspension in the sliding piece through the cross hooks
- This prevents the puller from slipping off the part to be extracted by 2-sided spindle tip
- Optimal adjustment of the spindle to the shaft through 2-sided spindle tip (ball and tip)

## Applications

Can be used as an internal and external extractor.



78128 101-106

Size	Clamping width mm	Clamping depth mm	78128	...
1	90	100		101
10	130	100		102
2	160	150		103
20	200	150		104
3	250	200		105
30	350	200		106



78129

## Three-arm puller



## Design

- Quality tool steel
- With mechanical pressure spindle

## Applications

For heavy-duty use, for careful extracting of heavy gear wheels, pulleys etc. Can be used as internal and external extractor.

Size	Clamping width mm	Clamping depth mm	78129	...
11/0	375	200		101
11/1	520	200		102
11/2	650	200		103



78129

**78140 - 78141 Ball bearing internal extractors**



**Design**

Made of quality tool steel.

**Applications**

For extracting ball bearings, ball bearing outer rings, bushings etc.

**Note:**

Even bearings seated fully on the rear wall are securely gripped and quickly extracted. The complete extraction device consists of an internal extractor and counter-support.

**78141**

**Counter-support Design**

Easy actuation of the counter-support nut through integral pressure bearing. The friction resistance is reduced to a minimum (**easy-screw technology**). Smooth, adjustable hooks through the internal spring (**Light-Shift technology**).

**Applications**

For internal extractor, art. no. 78140.



78140

78141



**78140**

**Internal extractor**

Internal extractor			
Size	For bores mm	78140	...
0	5 - 8		201
00	6 - 10		202
01	8 - 12		203
02	10 - 14		204
1	12 - 16		205
2	14 - 19		206
3	18 - 23		207

Internal extractor			
Size	For bores mm	78140	...
4	20 - 30		208
5	28 - 40		209
6	36 - 46		210
7	45 - 58		211
8	56 - 70		212
9	70 - 100		213

Counter-support			
Size	For Size	78141	...
1	0 - 5		101
2	3 - 8		102
3	9		103

**78150 Ball bearing puller and extractor sets**



**Design**

- Quality tool steel

**Applications**

For extracting ball bearings, ball bearing outer rings, bushings etc.

**Note:**

Even bearings seated fully on the rear wall are securely gripped and quickly extracted.

78150 104



78150 101

78150 102

78150 103



Type	No. of parts	For ball bearing inside Ø mm	Version	Weight approx. kg	78150	...
25-K	4	6 - 19	In i-BOXX	3.5		101
25-A	8	12 - 46	In L-BOXX	7.0		102
25-B	10	12 - 70	In L-BOXX	9.9		103
25-C	11	12 - 110	In L-BOXX	17.8		104

**78165 Puller with slide hammer**



**Design**

Complete with thread inserts M3/M4/M5/M6/M8/M10/M12/M14/M16/M18 and slide hammer device.

**Applications**

For pulling and extracting pins with female thread (DIN 7978/ISO 8736 or DIN 7979/ISO 8735) and parts with thread holes. The corresponding thread

insert is screwed into the thread hole of the part to be extracted and extracted with knocks of the slide hammer.



78165

For thread	78165	...
M3 - M18		101

Workshop equipment

## 78164

## Sleeking hammer device for internal extractor



### Design

Very practical, since the sleeking hammer device can also be used where space is limited because no support surface is required. Suitable for many workshop applications, especially if a strong shock effect is required.

### Applications

For extracting close-fitting ball bearings, ball bearing outer rings and bushings.

For art. no. 78140.

### Note:

With 78164 103, the striking weight and thus the impact force can optionally be increased by screwing in one or more additional weights.

78164 101



78164 102



78164 103



L mm	Striking length mm	Sliding piece weight approx. kg	Weight approx. kg	78164	...
250	150	0.50	0.70		101
340	230	1.70	2.50		102
530	340	5.00	6.50		103

## 78166

## Slide hammer set



### Design

### Contents:

1 slide hammer,

6 adapters, bronzed, each with M12 connecting thread to attach onto the slide hammer base. The interchangeable set screws on the adapter end side have thread sizes M3/M4/M5/M6/M8 and M10.

3 adapters, zinc-plated, for attaching all KUKKO internal extractors from size 00 to 9.

### Applications

For KUKKO internal extractor art. no. 78140 and other applications. The stop in the impact weight optimally utilises the length of the slide hammer guide rod with low space requirement and prevents injuries from crushing.

78166



Contents	Version	78166	...
10 pieces	In plastic case with foam insert		101

## 78168

## Ball joint puller



### Design

- Quality tool steel

### Applications

For pressing out the ball pins when removing the ball joints.

Size	Clear height A mm	Clear width B mm	Opening C mm	78168	...
1	38	36	18		101
2	48	45	23		102
3	60	60	29		103
4	80	60	40		104
5	100	75	46		105

78168 104

78168 101-103+105



## 78170

## Ball bearing puller and extractor sets



KUKKO BOX SYSTEM

### Applications

For universal use for extracting ball bearings, bearings, gear wheels, separable bearing inner rings, deep groove ball bearings, etc. For extracting close-fitting ball bearings, outer rings and bushings.

### Set consisting of:

Art. no. 78170 101, size 1

6 internal extractors (sizes 1-6) 12-46 mm

2 counter-supports (sizes 1 and 2)

1 battery terminal puller size 1

1 two-arm puller (size 1) 90 mm

1 pull-off chuck

art. no. 78140,

art. no. 78141,

art. no. 78101,

art. no. 78105,

art. no. 78160.

Art. no. 78170 102, size 2

As with size 1, in addition:

2 internal extractors (sizes 7 and 8) 45-70 mm,

1 two-arm puller (size 2) 160 mm.

art. no. 78140,

art. no. 78105.

Art. no. 78170 103, size 3

As with size 1, in addition:

1 internal extractor (size 7) 45-58 mm,

1 internal extractor (sizes 8 and 9) 56-110 mm

1 counter-support (for sizes 8 and 9),

1 two-arm puller (size 2) 160 mm.

art. no. 78140,

art. no. 78140,

art. no. 78141,

art. no. 78105.

78170

Size	Version	78170	...
1	In L-Boxx		101
2	In L-Boxx		102
3	In L-Boxx		103



78182

Ball bearing extractor set



KUKKO  
BOX  
SYSTEM

Applications

For extracting deep-groove ball bearings. Selection table with ball bearing numbers in the case lid.

Operation:

Place the hooks with claws between the balls in the outer bearing ring. Squeeze the hooks together at the top and press with the recesses around the hub collar. Tighten the tension disk, sliding the retaining bushing over the hooks. The ball bearing can only be extracted if the tension disk is securely tightened.

Version	78182	...
In L-Boxx	101	

Set consisting of:

- 1 Puller size 1 and 1 set of hooks 150 mm in length, for ball bearings 6000-6003, 6200,
- 1 Set of hooks 150 mm in length, for ball bearings 6004-6006, 6201-6203, 6300,
- 1 Set of hooks 170 mm in length, for ball bearings 6204-6205, 6301-6303,
- 1 Puller size 2 and 1 set of hooks 180 mm in length, for ball bearings 6007-6010, 6013,
- 1 Set of hooks 180 mm in length, for ball bearings 6011-6012, 6206-6207, 6304-6306,
- 1 Puller size 3 and 1 set of hooks 217 mm in length, for ball bearings 6208-6210, 6307, 6403, 6407,
- 1 Set of hooks 217 mm in length, for ball bearings 6211-6212, 6308-6311, 6404-6406, 6408,
- 26 Support rings.

78182



78183

Deep-groove ball bearing extractor set



KUKKO  
BOX  
SYSTEM

Applications

For extracting deep-groove ball bearings both seated on a shaft and embedded in a housing due to the installation conditions. Simple mounting in the inner ring is possible due to the guide ring.

Comprising

- 7 Set of puller hooks with ball heads,
  - 1 set of hooks, 3 pieces, 150 mm in length, for ball bearings 6000-6003, 6200,
  - 1 set of hooks, 3 pieces, 150 mm in length, for ball bearings 6004-6006, 6201-6203, 6300,
  - 1 set of hooks, 3 pieces, 170 mm in length, for ball bearings 6204, 6205, 6301-6303,
  - 1 set of hooks, 4 pieces, 180 mm in length, for ball bearings 6007-6010, 6013,
  - 1 set of hooks, 4 pieces, 180 mm in length, for ball bearings 6011, 6012, 6206, 6207, 6304-6306,
  - 1 set of hooks, 4 pieces, 217 mm in length, for ball bearings 6208-6210, 6307, 6403, 6407,
  - 1 set of hooks, 4 pieces, 217 mm in length, for ball bearings 6211, 6212, 6308-6311, 6404-6406, 6408,
- 2 Index plates with jam nut and spindle,
- 2 Guide rings and
- 26 Different support rings.

Version	78183	...
In L-Boxx	101	

78183



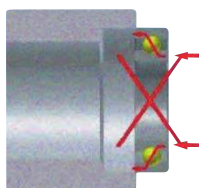
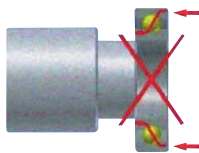
Info

Expert installation of roller bearings

Roller bearings can be damaged by improper installation.

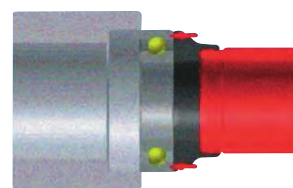
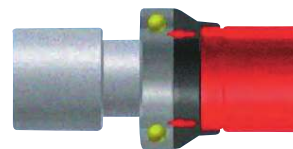
This leads to premature bearing failure and thus to machine or plant downtime.

For this reason, skilled operators and specialist companies use an installation tool set!



Improper installation

When installing a roller bearing, it is important to ensure that the installation forces are not transferred to the bearing seat via the rolling element.



Professional installation of rolling bearings

Through an installation tool set, the installation forces are transferred directly to the inner or outer ring of the bearing. The recoil-free soft-face hammer ensures a clean distribution of the force.



**78185**

**Roller bearing installation tool set**



**Applications**

For safe, fast and precise mounting of bearings, bushings, sealing rings and pulleys with hole diameter 10-50 mm. For SKF, FAG, Timken, NTN and corresponding bearings from other manufacturers. The light design makes it especially suitable for use on construction sites and off-site assembly.

Comprising	
33	Impact rings made of extremely impact-resistant plastic,
3	Impact tubes made of anodised aluminium,
1	Recoil-free hammer,
1	Selection table for roller bearings.



78185

Set contents	Version	78185	...
38 pieces	In L-BOXX		201

**78187**

**Roller bearing installation tool set**



**Applications**

For fast and safe installation of roller bearings with hole diameter up to 50 mm and problem-free mounting of bushings, sealing rings, pulleys and similar parts. For SKF, FAG, NTN and corresponding bearings from other manufacturers.

Set contents	
33	Different hardened impact rings,
5	Impact sleeves, which can be slid up to 220 mm over the end of each shaft,
1	Recoil-free hammer 0.7 kg with sparkless soft head (nylon).



78187

Set contents	Version	78187	...
39 pieces	In L-BOXX		101

**78189**

**Separator and puller sets**



**Design**

- With 2-screw tightening
- Quality tool steel

**Applications**

For extracting close-fitting ball bearings, inner rings, etc. The blades of the separator jaws press behind

the parts to be extracted and release them from their seat.

**Note:**

The separator is connected with a suitable puller for extraction.



78189

Article no.	Separator size	Puller size	Extension (1 pair) length mm
78189 101	0	0	100
78189 102	1	1	100
78189 103	2	2	100
78189 104	3	3	100

Clamping range mm	Weight approx. kg	Version	78189	...
60	2.7	In L-Boxx		101
75	4.7	In L-Boxx		102
115	8.4	In L-Boxx		103
155	14.7	In L-Boxx		104 <b>NEW</b>

**78190 - 78192**

**Separators and pullers**



**Design**

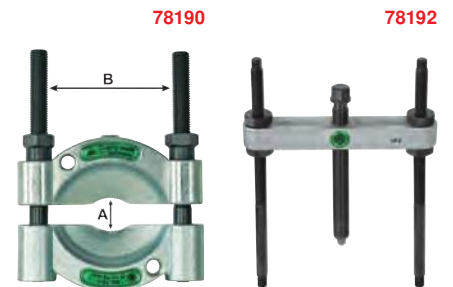
- With 2-screw tightening
- Quality tool steel

**Applications**

For extracting close-fitting ball bearings, inner rings, etc. The blades of the separator jaws press behind the parts to be extracted and release them from their seat.

**Note:**

To connect with the separators, the tension bolts are screwed into the thread holes of the separator jaws.



Size	A mm	B mm	Clamping width mm	Length of tension bolt mm	Separators		Pullers	
					78190	...	78192	...
0	8 - 60	60	50 - 110	150		101	101	
1	12 - 75	75	60 - 150	200		102	102	
2	22 - 115	115	60 - 200	250		103	103	
3	25 - 155	155	80 - 300	300		104	104	

# Thread repair kits

## 14800 HELICOIL® plus repair kit

**HELICOIL® plus**  
made by BOLLHOFF

### Applications

The record holder for fast thread repairs:  
 - For scrap recovery and thread repair  
 - For repair of damaged or worn threads  
 - For thread reinforcement, where low-shear-strength materials, e.g. aluminium, are used (mechanical engineering, automotive, electrical and medical technology, etc.)  
 - Absolutely secure positioning, even under the most extreme loads, abrasion-resistant thread insert made of corrosion-resistant, wear-resistant and heat-resistant CrNi steel, ideal power transmission and increased load capacity of nut and bolt threads

**230 pieces, set contents:**  
**20 each of thread inserts**  
 M 5 x 5/M 5 x 7.5/M 5 x 10/M 6 x 6/M 6 x 9/M 6 x 12,  
**10 each of thread inserts**  
 M 8 x 8/M 8 x 12/M 8 x 16/M 10 x 10/M 10 x 15/M 10 x 20/M 12 x 12/M 12 x 18/M 12 x 24,  
**5 twist drills,**  
**5 hand taps,**  
**5 installation mandrels,**  
**5 tang break mandrels.**

14800



Set contents	Set size	14800	...
230 pieces	M 5 - M 12	202	

## 14810 HELICOIL® plus repair packs

**HELICOIL® plus**  
made by BOLLHOFF

### Applications

For standard metric ISO thread DIN 13.

### Quality

Thread inserts made of stainless steel.

### 14810 103-106

#### Design

#### Set contents:

**60 thread inserts (20 per nominal length),**  
 1 twist drills,  
 1 hand taps,  
 1 installation mandrel,  
 1 tang break mandrel.

### 14810 107-112

#### Design

#### Set contents:

**30 thread inserts (10 per nominal length),**  
 1 twist drills,  
 1 hand taps,  
 1 installation mandrel,  
 1 tang break mandrel.

### 14810 113-114

#### Design

#### Set contents:

**30 thread inserts (10 per nominal length),**  
 1 hand taps,  
 1 installation mandrel.



14810 103-106



14810 107-112



14810 113



14810 114

d mm	Nominal length mm	Core hole Ø mm	Number of inserts	14810	...
M 3	3/4.5/6	3.2	60	103	
M 4	4/6/8	4.2	60	104	
M 5	5/7.5/10	5.2	60	105	
M 6	6/9/12	6.3	60	106	
M 7	7/10.5/14	7.3	30	107	
M 8	8/12/16	8.4	30	108	

d mm	Nominal length mm	Core hole Ø mm	Number of inserts	14810	...
M 9	9/13.5/18	9.4	30	109	
M 10	10/15/20	10.5	30	110	
M 11	11/17.5/22	11.5	30	111	
M 12	12/18/24	12.5	30	112	
M 14	14/21/28	14.5	30	113	
M 16	16/24/32	16.5	30	114	

**HELICOIL® plus**  
made by BOLLHOFF

14802

Thread inserts

M 3–M 6, pack = 20 pieces,  
M 8–M 12, pack = 10 pieces.

14804

Short screw tap, HSS.

14806

Installation mandrel.

14808

Tang break-off tool.



14802



14804



14806



14808

Size	Core hole Ø mm	Thread inserts		Screw tap		Installation mandrel		Tang break-off tool	
		14802	...	14804	...	14806	...	14808	...
M 3 x 3	3.2		114		102		102		102
M 3 x 4.5	3.2		115		102		102		102
M 3 x 6	3.2		116		102		102		102
M 4 x 4	4.2		120		104		104		103
M 4 x 6	4.2		121		104		104		103
M 4 x 8	4.2		122		104		104		103
M 5 x 5	5.2		126		106		106		104
M 5 x 7.5	5.2		127		106		106		104
M 5 x 10	5.2		128		106		106		104
M 6 x 6	6.3		130		107		107		104
M 6 x 9	6.3		131		107		107		104
M 6 x 12	6.3		132		107		107		104
M 8 x 8	8.4		141		109		109		105
M 8 x 12	8.4		142		109		109		105
M 8 x 16	8.4		143		109		109		105
M 10 x 10	10.5		156		112		112		106
M 10 x 15	10.5		157		112		112		106
M 10 x 20	10.5		158		112		112		106
M 12 x 12	12.5		176		116		116		107
M 12 x 18	12.5		177		116		116		107
M 12 x 24	12.5		178		116		116		107

# Tap destroying tools | Screw tap extractors | Bolt extractors

11069

## Solid-carbide tap removal tools

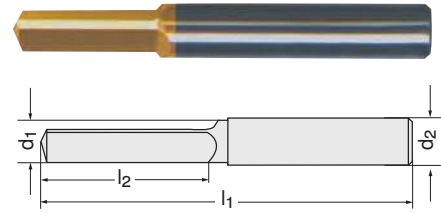


**Design**  
With straight shank, self-centring.

**Note:**  
Stable clamping is required. Hole dry and free from cutting oil.

**Applications**  
For drilling out broken-off HSS and HSS-E screw taps.

**Quality**  
Solid-carbide micro-fine grain/TiN-coated.



11069

d <sub>1</sub> h9	l <sub>2</sub>	l <sub>1</sub>	d <sub>2</sub> h6	11069	...
mm	mm	mm	mm		
3.3	15	50	6		101
4.2	15	50	6		103

d <sub>1</sub> h9	l <sub>2</sub>	l <sub>1</sub>	d <sub>2</sub> h6	11069	...
mm	mm	mm	mm		
5.0	15	50	6		105
6.8	20	60	8		107

d <sub>1</sub> h9	l <sub>2</sub>	l <sub>1</sub>	d <sub>2</sub> h6	11069	...
mm	mm	mm	mm		
8.5	25	70	10		109
10.2	30	75	12		111

Al<10%Si	Al>10%Si	Cu	St<520N	St<750N	St<900N	St<1100N	St<1200N	St<1400N	<45HRC	<55HRC	<60HRC	<67HRC	VA<900N	VA>900N	Ti alloy	GG(G)	Plastic
-	-	-	-	-	-	-	-	-	-	-	-	35-45	-	-	-	-	-

14900 - 14904

## Screw tap extractors

14900-14903

**Applications**  
For broken screw taps. The fingers are guided into the grooves of the broken screw tap by moving the upper retaining ring (1) and secured with the guide bush (2). The broken screw tap piece is moved back and forth using a tap wrench until it loosens and can be unscrewed.

14902  
**Screw tap extractor, individual**  
**Applications**  
For screw taps with 3 flutes.

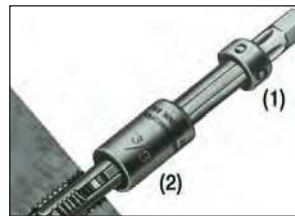
14904  
**Replacement fingers**  
For extractors in 3-flute design.

14900 102-104  
**Screw tap extractor sets**  
**Applications**

For screw taps with 3 flutes. Complete delivery in a case.

14900 106-108  
**Screw tap extractor sets**  
**Applications**

For screw taps with 4 flutes. Complete delivery in a case.



14900

Sets	Extractor	3 flutes	4 flutes
Set contents		14900	14900
6 pieces	M 4/5/6/8/10/12	102	106
10 pieces	M 3/4/5/6/8/10/12/14/16/20	104	
10 pieces	M 4/5/6/8/10/12/14/16/20/22		108

Individual for screw tap Metric/Whitworth	3 flutes	3 replacement fingers
	14902	14904
M 3/1/8	102	102
M 4/5/32	104	104
M 5/3/16	105	105
M 6/1/4	107	107
M 8/5/16	109	109
M 10/3/8	111	111
M 12/1/2	113	113
M 14/9/16	114	114
M 16/5/8	115	115
M 20/3/4	117	117

14902

14904



## 14929 Screw tap extractor sets

### Applications

For extracting broken screw taps.

### 14929 101

#### Design

- 6 pieces
- Size 1-4 three-fluted
- Size 5-6 four-fluted

### 14929 102

#### Design

- 9 pieces
- Size 2-4 three-fluted
- Size 5-10 four-fluted

14929 101



Set contents	14929	...
6 pieces		101
9 pieces		102



## 14930 - 14931 Screw tap extractor

### Applications

For extracting broken screw taps.

### 14930

For **three-fluted** screw taps.

### 14931

For **four-fluted** screw taps.

14930



14931



Size	for screw tap metric/Whitworth	Total length mm	Square mm	14930	...	14931	...
1	M 4/5/32	55	3.0			101	
2	M 5/3/16	60	3.5			102	
3	M 6/1/4	60	3.8			103	103
4	M 8/5/16	60	5.0			104	104
5	M 10/3/8	70	6.0			105	105
6	M 12/1/2	70	7.5			106	106
7	M 14/9/16	70	8.5			107	107
8	M 16/5/8	80	10.5			108	108
9	M 20/3/4	80	13.0			109	109

## 14933 Bolt extractor set

### Applications

Enables broken bolts and stud bolts to be professionally extracted.

### Quality

HSS steel.

14933



<b>Set contents:</b>	
5	HSS drills 3.2/4.8/6.4/8.0/8.7 mm
10	drill guide bushes
5	extractor pins
5	extractor adapters

Set contents	for stud bolt Ø mm	Design	14933	...
25 pieces	5-16	in box		201

# Erosion drills and accessories

## 14934 - 14935 Erosion drills eromobil®

### The new eromobil®

#### More compact, more functional, more practical

Since it was invented in 1972, the **eromobil®** has been, and remains to this day, the most effective solution for tool breakage. Broken-off screw taps, twist drills, reamers, etc. can be eroded in minutes. The device can be used quickly on column, radial and magnetic drills, milling machines, drilling equipment, as well as CNC machines. This minimises production downtimes and avoids damage to workpieces and additional costs. With its new design, the **eromobil®** is more compact and functional. The new intelligent design integrates all components in a clear and space-saving way, handling is easy and comfortable.

#### Functional principle

The hollow electrode is clamped in the oscillating head. Its diameter is smaller than the broken-off tool. The centre of the broken-off tool is dismantled during erosion. The cutting edges then loosen and can be removed easily. The electrode does not come into contact with the workpiece meaning the thread remains undamaged. The drilling emulsion usual in operation is used as a cooling lubricant.

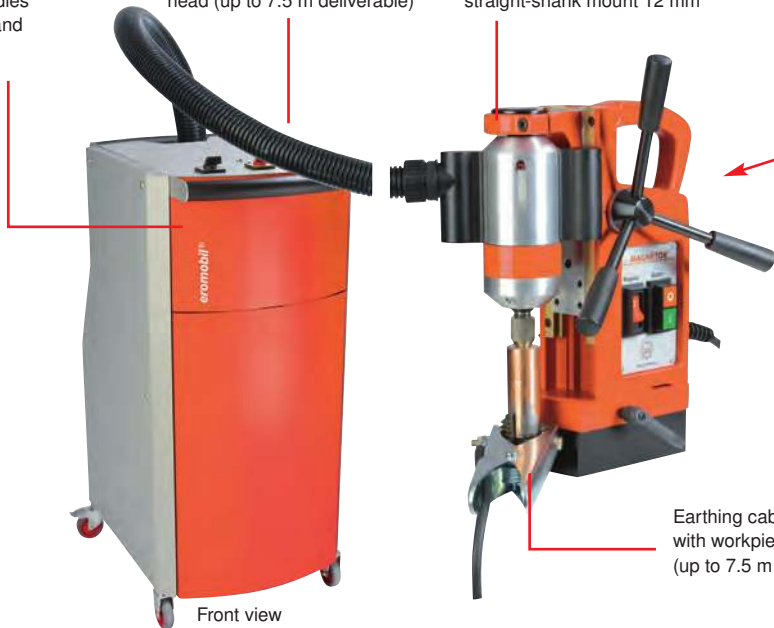
Generator in the robust, compact housing with ergonomic handles for easy lifting and transporting

Supply hose 2 m from the generator to the oscillating head (up to 7.5 m deliverable)

Oscillating head with ergonomic handles, LED indicator light and straight-shank mount 12 mm

Magnetic stands (optional)

Earthing cable 2 m with workpiece clamp (up to 7.5 m deliverable)



Front view

#### 14935 103

##### WiFi inspection camera

- For smartphone and tablet, for Android and IOS devices
- Diameter of camera 8 mm
- Length: 80 mm
- Bending radius 45 mm
- Includes 3 interchangeable magnetic tips



#### 14935 105

##### Oscillating head mount:

MK2 directly into the sleeve of a machine tool.



#### Two models are available

##### eromobil®-er 230 s-ND

- For threads from M2 up to approx. M20
- 220/230 V
- 50 Hz alternating current
- 3.6 kVA
- 16 amp

##### eromobil®-er 400 t-ND

- For threads from M2 up to approx. M40
- Ideally suited for deep drilled holes and cemented carbide tools
- 380/400 V
- 50 Hz three-phase current
- 6.0 kVA
- 16 amp

#### Supplied as standard

- Generator in the trolley
- Oscillating head
- Supply hose
- Earthing cable
- Coolant pump
- Coolant tank
- 1 each of open-ended spanner sizes 19 and 24
- 10 splash guard bags

Storage compartment for oscillating head, supply hose and earthing cable



Open cover housing compartment with oscillating head and supply hose

Trolley with footprint for coolant pump and tank, with smooth-running locking rollers

Coolant tank with two chambers for intake and return, with practical carrying handles



Rear view

Tool drawer with internal compartment settings for electrodes, collet chucks, open-ended spanners, splash guard bags and accessories that can be pulled out on smooth-running profile rails



Coolant pump for effective rinsing with approx. 3.4 bar pressure including 2-m intake hose with foot valve and 2-m pressure hose with quick-action coupling (hoses up to 5 m deliverable)

Erosion drill	14934	...
er 230 s-ND		201
er 400 t-ND		202

Special accessories	14935	...
WiFi inspection camera		103
Oscillating head mount, MK 2		105

Continued

Continued 

14936

Copper electrodes

Applications

For tools made of HSS.

14937

Collet chucks

14936



14937

**Note:**

Special electrodes up to a diameter of 30 mm and 1000 mm in length, as well as electrodes made of graphite and tungsten-copper for machining of cemented carbide tools and square copper hollow electrodes from 3 x 3 mm to 30 x 30 mm are deliverable on request.

Electrode Ø x length mm	for thread M	14936	...
1.0 x 250	2-2.6	101	
1.5 x 250	3	102	
2.0 x 250	4	103	
2.5 x 250	5	104	
3.0 x 250	5-6	105	
3.5 x 250	6	106	
4.0 x 250	6-8	107	
4.5 x 250	8	108	
5.0 x 250	8-10	109	
6.0 x 250	10	110	
7.0 x 250	12	111	
8.0 x 250	12-14	112	
10.0 x 250	16-20	113	

Collet chucks Ø mm	14937	...
1.0	101	
1.5	102	
2.0	103	
2.5	104	
3.0	105	
3.5	106	
4.0	107	
4.5	108	
5.0	109	
6.0	110	
7.0	111	
8.0	112	
10.0	113	

51995

Universal thread repair tool



**Design**

Rapid attachment using adjusting screw. Automatic adjustment of the blade on any thread pitch.

**Applications**

For cutting right and left-handthreads.  
For all metric and non-metric types of thread (60° -edge dimension).

51995 103



51995 101



For thread diameter mm	For thread diameter inch	51995	...
4 - 13	5/32 - 1/2		101
16 - 38	5/8 - 1,1/2		103

Info

Nut splitters and stud bold turners, see art. no. 78010 - 78030



51985 - 51986

Screw extractor, double-edged



**Design**

Non-slip double-edged engagement with the screw or stud bolt to be loosened. With punch tip. Bronzed surface, cutting surface polished.

**Applications**

For extracting broken screws or stud bolts from threaded holes without causing damage.

**For right-hand and left-hand threads.**

For a safe and secure hold, the extractor is fed into the hole.

**Quality**

Chromium-vanadium steel, hardened.



51985

51986



Set	Number of extractors	Set contents Size	Design	51985	...
	5	1-5	in metal box		101

Individual	Size	Size mm	Hole diameter min. mm	Hole diameter max. mm	Screw size min.	Screw size max.	Design	51986	...
1	6.35	3.2	4.8	M 5	M 6	in plastic box	101		
2	9.50	4.8	7.1	M 8	M 10	in plastic box	102		
3	12.70	6.4	9.5	M 10	M 12	in plastic box	103		
4	15.90	8.7	12.7	M 12	M 16	in plastic box	104		
5	19.00	11.1	15.9	M 16	M 20	in plastic box	105		
6	22.00	14.3	19.1	M 20	M 24	in plastic box	106		
7	25.40	19.1	23.8	-	M 30	in plastic box	107		



Hand tools



51993

Screw and bolt extractor set

Design

- Fits through 1/4 inch hexagon socket in every cordless screwdriver or drill with clockwise and anti-clockwise rotation function

Quality

Special tool steel.

51993



Number of extractors	Screw size mm	Design	51993	...
2	3-10	in plastic box		100

51990 - 51992

Screw extractors

**Schröder**

Design

Rolled thread, ground shaft.

Applications

Maximum user torque in Nm with a test element with a material strength of 1147 N/mm<sup>2</sup> and a hardness of 35 HRC. For extracting broken screws with a right-hand thread and removing torn off pipe ends from fittings.

Quality

59 chrome vanadium steel, hardened to 54-56 HRC.

51991

Screw extractor HITRAC

Design

Also with milled groove.

The optimised geometry and thread length reduces the extraction force considerably. Available in two different set sizes.

51990 101

51990 102



Set		Design	51990	...	HITRAC	
Number of extractors	Set contents Size				51991	...
5	1-5	in plastic box		100		
6	1-6	in plastic box		101		101
8	1-8	in plastic box		102		

Individual

Size	Tip Ø mm	Shaft Ø mm	Total length mm	Recommended drill Ø mm	For screws	51992	...
1	1.4	3.6	50	1.8	M 3-4		101
2	2.1	4.9	57	3.2	M 5-7		102
3	3.1	6.5	64	4.5	M 8-10		103
4	4.8	8.8	71	6.5	M 11-14		104
5	6.2	11.0	79	8.5	M 16-18		105
6	9.4	15.0	85	11.8	M 18-24		106
7	12.7	19.0	92	15.3	M 24-33		107
8	17.5	24.0	100	20.0	M 33-45		108

51991 101



51992



14933

Bolt extractor set

Applications

Enables broken bolts and stud bolts to be professionally extracted.

Quality

HSS steel.

14933



Set contents:	
5	HSS drills 3.2/4.8/6.4/8.0/8.7 mm
10	drill guide bushes
5	extractor pins
5	extractor adapters

Set contents	for stud bolt Ø mm	Design	14933	...
25 pieces	5-16	in box		201