

# 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:

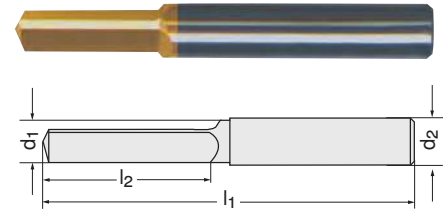
Stable clamping is required. Hole dry and free from cutting oil.

### 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.

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.

14902

### Screw tap extractor, individual

#### Applications

For screw taps with **3 flutes**.

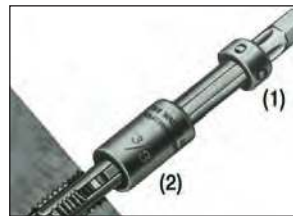
14904

### Replacement fingers

For extractors in **3-flute** design.



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	...
M 3/1/8	14902		14904	
M 4/5/32		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.

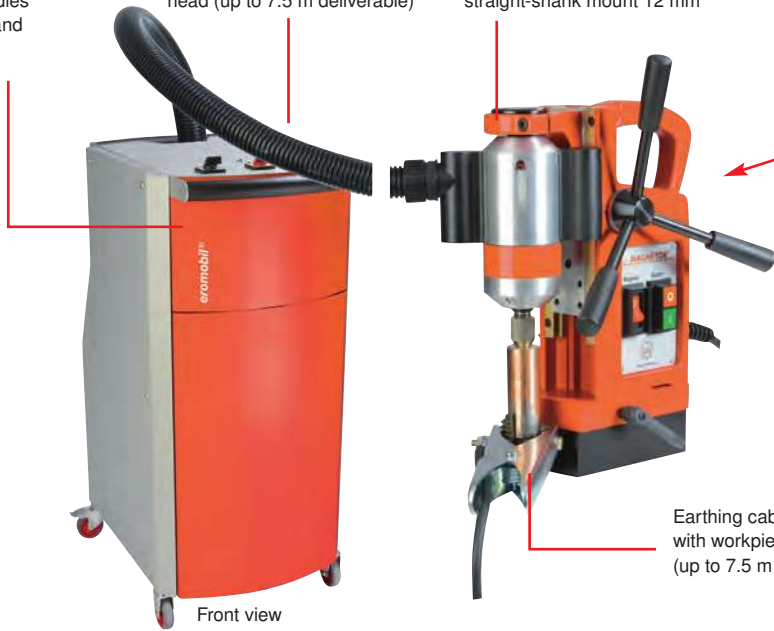
Generator in the robust, compact housing with ergonomic handles for easy lifting and transporting

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

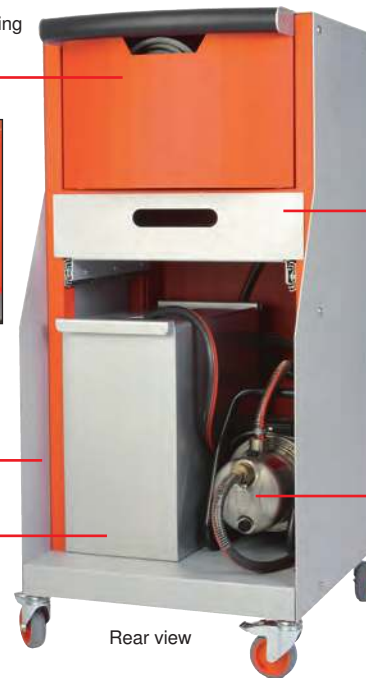
Storage compartment for oscillating head, supply hose and earthing cable



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**



**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		HITRAC	
Number of extractors	Set contents Size	Design	...
5	1-5	in plastic box	100
6	1-6	in plastic box	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