

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 | |

14802 - 14808

Individual parts for HELICOIL® plus art. no. 14800 + 14810

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.

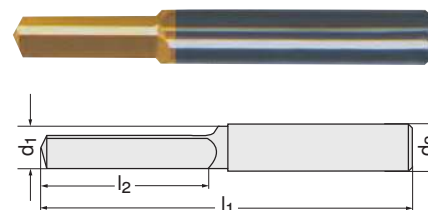
Applications

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

Quality

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

11069



| d ₁ h9 mm | l ₂ mm | l ₁ mm | d ₂ h6 mm | 11069 | ... |
|-------------------------|----------------------|----------------------|-------------------------|-------|-----|
| 3.3 | 15 | 50 | 6 | | 101 |
| 4.2 | 15 | 50 | 6 | | 103 |

| d ₁ h9 mm | l ₂ mm | l ₁ mm | d ₂ h6 mm | 11069 | ... |
|-------------------------|----------------------|----------------------|-------------------------|-------|-----|
| 5.0 | 15 | 50 | 6 | | 105 |
| 6.8 | 20 | 60 | 8 | | 107 |

| d ₁ h9 mm | l ₂ mm | l ₁ mm | d ₂ h6 mm | 11069 | ... |
|-------------------------|----------------------|----------------------|-------------------------|-------|-----|
| 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

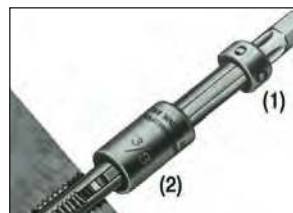
For screw taps with **3 flutes**.

14904

Replacement fingers

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

14900



| Sets | | 3 flutes | | 4 flutes | |
|--------------|-----------------------------|----------|-----|----------|-----|
| Set contents | Extractor | 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

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



14929 101

14930 - 14931

Screw tap extractor

Applications

For extracting broken screw taps.

14930

For **three-fluted** screw taps.

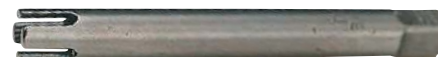
14931

For **four-fluted** screw taps.

| 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 |



14930



14931

14933

Bolt extractor set

Applications

Enables broken bolts and stud bolts to be professionally extracted.

Quality

HSS steel.

| 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 |



14933

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 | |