

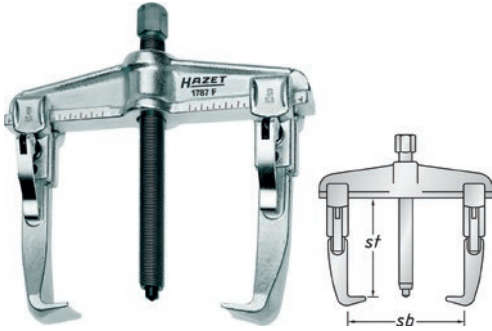


# HAZET – Range of Pullers / Extractors

- ✓ 2-Arm Pullers
- ✓ 3-Arm Pullers
- ✓ Hydraulic Pullers
- ✓ Ball Bearing Extractors  
see "Specialty Tools" from page 251 on
- ✓ Separators
- ✓ Internal Extractors
- ✓ Forged quality
- ✓ Practical and proven tools
- ✓ New innovative range of pullers
- ✓ For industry, automotive sector, commercial vehicles, construction machinery, etc.



## 2-Arm Quick-Clamping Puller

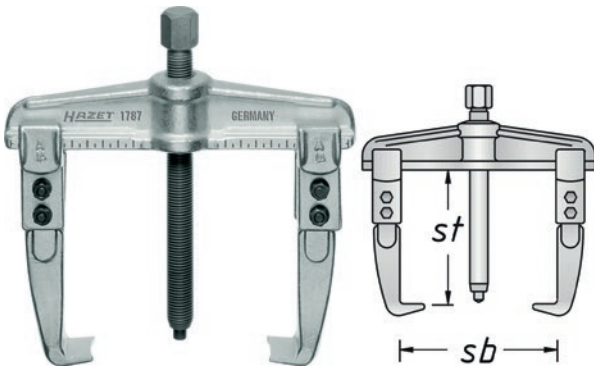


- With quick-clamping device
- Nitrided spindle – extra hard maintenance-free – no lubrication necessary
- For the fast and safe removal of ball-bearings, pulleys, sprockets etc.
- To be used as internal and external puller by inverting the hooks
- New type of quick-clamping allows fast and simple adjusting
- Very rugged, drop-forged pullers
- Can be equipped with hydraulic spindle from thread size G ½" on
- Setting scale for even adjusting of puller hooks

**Made in Germany**

HAZET No.	Max. tons	sb mm	st mm	Spindle	EAN-No. 4000896+
1787 F- 9	3	90	100	M 14 x 1.5 x 140 mm	134151
1787 F-13	3	130	100	M 14 x 1.5 x 140 mm	134168
1787 F-16	5	160	150	G ½" x 210 mm	134175
1787 F-20	5	200	150	G ½" x 210 mm	134182
1787 F-25	7.5	250	200	G ¾" x 280 mm	134199
1787 F-35	7.5	350	200	G ¾" x 280 mm	136094

## 2-Arm Puller



- To be used as internal and external puller by inverting the hooks
- Spindle G1 x 310
- **Optional accessories: hydraulic spindle 1786 H-03**
- Surface: galvanized

**Made in Germany**

HAZET No.	Max. tons	sb mm	st mm	EAN-No. 4000896+
1787-52	10	520	208	136100

## 2-Arm Puller Set



## 2-Arm Puller Set

- With slender hooks
- "3 in 1"
- 6 slender forged hooks of 3 different lengths
- Ideal for working in areas with restricted access
- 2 hooks each

**Made in Germany**

HAZET No.	sb mm	st mm	EAN-No. 4000896+
Spindle M 14 x 1.5 x 140 mm max. 3 tons 2 hooks each 1786 S-100 -200 -250 mm long			
1787 S-1	130	100-200-250	133222
• Spindle G ½ x 210 mm • Max. 5 tons • 2 hooks each 1786 S-150 -220 -300 mm long			
1787 S-2	200	150-220-300	133239

## Puller Hook with Quick-Clamping Device



- Per piece
- For pullers 1786 F and 1787 F

**Made in Germany**

HAZET No.	st mm	EAN-No. 4000896+
For 1786 F-9 13 1787 F-9 13		
1787 F-0913	100	136117
For 1786 F-16 20 1787 F-16 20		
1787 F-1620	150	136124
For 1786 F-25 35 1787 F-25 35 1787-52		
1787 F-2552	200	136131

## Puller Hook without Quick-Clamping Device



- Per piece
- For pullers  
1786 F-25 35  
1787 F-25 35  
1787-52

**Made in Germany**

HAZET No.	st mm	EAN-No. 4000896+
1787-2552	200	136148
1787 Lg-0913	200	136155
1787 Lg-1620	300	136162
1787 Lg-2552	305	136179
1787 Lg-2552/4	406	136186
1787 Lg-2552/5	504	136193

## Slender Puller Hook



- Per piece
- For pullers 1786 S-1 and S-2 as well as 1787 S-1 and S-2

**Made in Germany**

HAZET No.	st mm	EAN-No. 4000896+
1786 S-100	100	134762
1786 S-150	150	134816
1786 S-200	200	134779
1786 S-220	220	134823
1786 S-250	250	134786
1786 S-300	300	134830





## Hand Tools – Pullers/Extractors

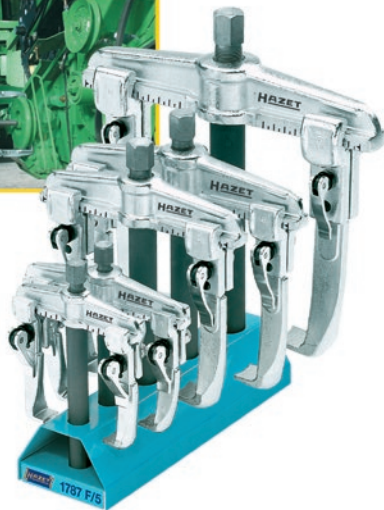
### Grease Hydraulic Pressure Spindle



- “Tuning for your puller“ suitable for series 1781-5, 1783, 1784, 1786 and 1787, 1790, 1794, 1796
- Designed for safe and controlled pulling work
- Replaces a mechanic standard spindle
- Considerable reduction of force expenditure
- Maximum stroke 12 mm

HAZET No.	l mm	mm M	Max. tons	EAN-No. 4000896+
1786 H-01	350	G 1/2"	12	133024
1786 H-02	420	G 3/4"	12	133130
1786 H-03	465	G 1"	15	133147

### Quick-Clamping Puller Set



- With quick-clamping device
- Complete set, 5 pieces  
2-arm pullers in display stand

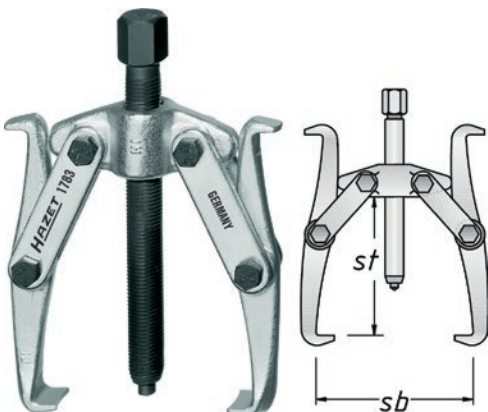
**Made in Germany**

Contents:

1787 F-9 13 16 20 25

HAZET No.	EAN-No. 4000896+
1787 F/5	133017

### Universal Puller



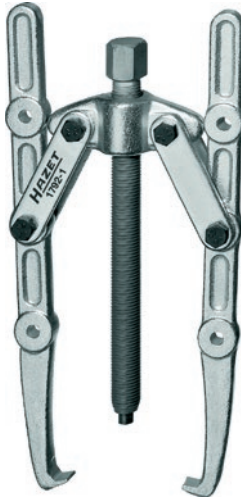
- For pulling off sprockets and ball bearings
- Puller hooks can be used from both sides; hooks with one narrow side for areas with restricted access
- Automatic pressing of the puller hooks
- 2-arm design
- Surface: galvanized

### Universal Puller

**Made in Germany**

HAZET No.	Max. tons	sb mm	st mm	Spindle	EAN-No. 4000896+
1783- 9	2	90	80	M 14 x 1.5 x 125 mm	147397
1783-16	5	160	130	M 18 x 1.5 x 170 mm	136056
1783-22	5	220	170	M 18 x 1.5 x 170 mm	136063
1783-32	8	320	260	G 1/2" x 350 mm	147403
1783-40	8	400	320	G 1/2" x 350 mm	147410

### Puller for Fans

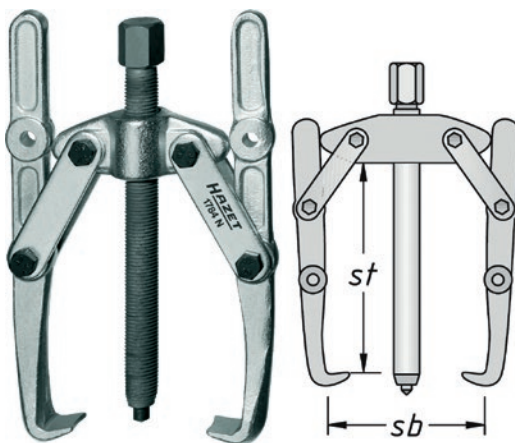


- 2-arm design
- Very slender hooks with 3 clamping depth adjustments
- Rugged and drop-forged design

**Made in Germany**

HAZET No.	Max. tons	sb mm	st mm	Spindle	EAN-No. 4000896+
1792-1	2	150	200	M 14 x 1.5 x 155 mm	147830

### Universal Puller

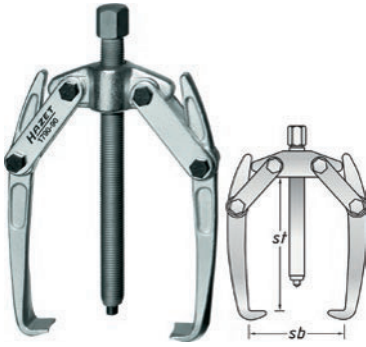


- Rugged and proven design
- For the removal of ball bearings, pulleys, sprockets, etc.
- Ideal for the removal of V-belt pulleys and flywheels on long shafts
- Application and cost advantages due to:
  - Variable clamping depth
  - Automatic gripping of hooks
- Rugged and drop-forged design
- 2-arm design

**Made in Germany**

HAZET No.	Max. tons	sb mm	st mm	Spindle	EAN-No. 4000896+
1784 N- 9	1	90	100	M 12 x 1.5 x 110 mm	133543
1784 N-13	2	130	140	M 14 x 1.5 x 140 mm	133550
1784 N-20	5	200	210	M 18 x 1.5 x 200 mm	133581
1784 N-25	8	250	260	G 1/2" x 250 mm	133604
1784 N-28	8	280	390	G 1/2" x 250 mm	133611
1784 N-42	8	420	480	G 1/2" x 250 mm	133642

## Universal Puller



### 2-arm design

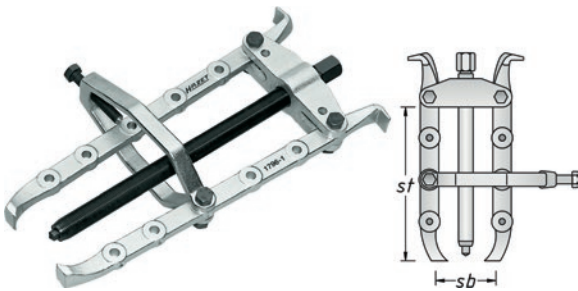
### Rugged and proven design

- For the removal of ball bearings, pulleys, sprockets, etc.
- Application and cost advantages due to:
  - Variable clamping depth
  - Automatic gripping of hooks
- Rugged and drop-forged design
- Economically priced universal pullers

**Made in Germany**

HAZET No.	Max. tons	sb mm	sf mm	Spindle	EAN-No. 4000896+
1790-70	1	70	80	M 12 x 1.5 x 110 mm	147755
1790-90	2	90	120	M 14 x 1.5 x 155 mm	147762
1790-130	5	130	160	M 18 x 1.5 x 200 mm	147779
1790-180	8	180	200	G ½" x 200 mm	147786

## Puller

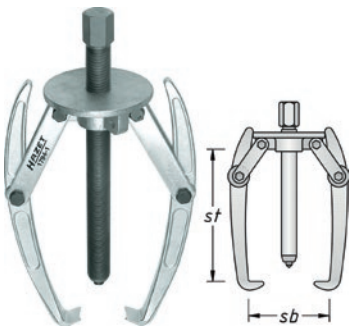


### With integrated bracket

- Puller hooks to be used from both sides
- Especially suitable for pulling off flush parts
- Advantageous application due to variable clamping depth adjustment

**Made in Germany**

HAZET No.	Max. tons	sb mm	sf mm	Spindle	EAN-No. 4000896+
1796-1	5	110	170	M 18 x 1.5 x 200 mm	147892
1796-2	7.5	160	260	G ½" x 350 mm	147908
1796-3	7.5	160	325	G ½" x 350 mm	147915



### 2-arm design

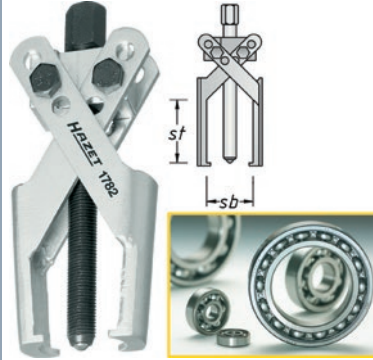
### Rugged and proven design

- Especially suitable for industry and commercial vehicles, such as agricultural and construction machinery
- Automatic pressing of the puller hooks
- Optional accessories: hydraulic spindle 1786 H-03

**Made in Germany**

HAZET No.	Max. tons	sb mm	sf mm	Spindle	EAN-No. 4000896+
1794-1	8	280	300	G 1" x 360 mm	147854
1794-2	8	420	420	G 1" x 500 mm	147861

## Puller



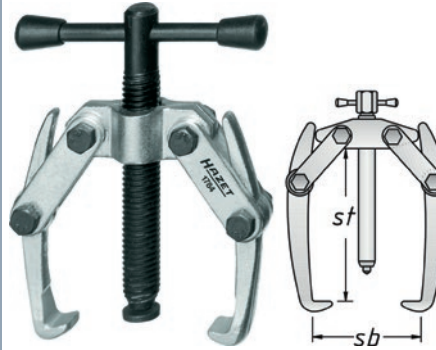
### With slender hooks

- Especially appropriate for removing bearings located in areas with restricted access
- **1782-1 with extra slender hooks**
- Automatic gripping of hooks due to scissor-like hook action
- High tractive power due to scissor-type joint
- Manageable and rugged design, with drop-forged hooks

**Made in Germany**

HAZET No.	Max. tons	sb mm	sf mm	Spindle	EAN-No. 4000896+
1782-1	2	80	85	M 10 x 105 mm	133406
1782-2	2	80	85	M 10 x 105 mm	133420
1782-3	4	120	120	M 14 x 1.5 x 130 mm	133437
1782-4	4	120	150	M 14 x 1.5 x 205 mm	133468

## Pole and Battery Terminal Puller



- **Optimally suited for the removal of small parts** such as battery terminals, ball bearings, pulleys, sprockets, etc.
- Automatic gripping of hooks
- Manageable and rugged design, with drop-forged hooks
- **2-arm design**

**Made in Germany**

HAZET No.	Max. tons	sb mm	sf mm	Spindle	EAN-No. 4000896+
1784-40	0.5	60	40	M 10 x 1.5 x 60 mm	133482
1784-60	0.5	60	60	M 10 x 1.5 x 80 mm	133499
1784-80	0.5	70	80	M 10 x 1.5 x 100 mm	133512

## Pitman Arm Puller



- For ball bearings, toothed wheels, pinions, **pitman arms** and similar
- The clamp clip is used for pressing the puller jaws on the parts to be extracted
- Surface: galvanized

**Made in Germany**

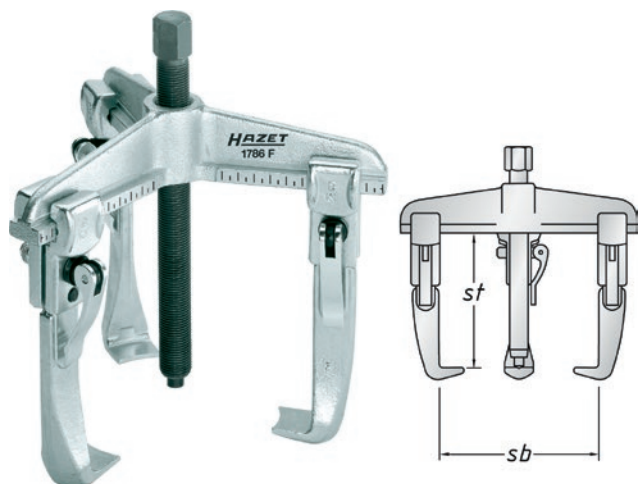
HAZET No.	sb mm	sf mm	Spindle	EAN-No. 4000896+
1776-85	90	85	M 18 x 1.5 x 130 mm	135943
1776-100	90	100	M 18 x 1.5 x 130 mm	135950
1776-140	150	140	G ½" x 175 mm	135967



## Hand Tools – Pullers/Extractors

**HAZET**  
Ingenuous Tools

### 3-Arm Quick-Clamping Puller



(E)

- With quick-clamping device
- Provides uniform load distribution, safe gripping and centred pulling
- Nitrided spindle – extra hard maintenance-free – no lubrication necessary
- Can be equipped with hydraulic spindle 1786 H-01, 02 from thread size G ½" on

**Made in Germany**

HAZET No.	Max. tons	sb mm	st mm	Spindle	EAN-No. 4000896+
1786 F- 9	3	90	100	M 14 x 1.5 x 140 mm	133505
1786 F-13	3	130	100	M 14 x 1.5 x 140 mm	133529
1786 F-16	5	160	150	G ½" x 210 mm	133536
1786 F-20	5	200	150	G ½" x 210 mm	133567
1786 F-25	7.5	250	200	G ¾" x 280 mm	133574

### 3-Arm Puller Set



(E)

- With slender hooks
- "3 in 1"
- 9 slender forged hooks of 3 different lengths
- Ideal for working in areas with restricted access
- 3-arm design, 3 hooks each
- Provides uniform load distribution, safe gripping and centred pulling action

**Made in Germany**

HAZET No.	sb mm	st mm	EAN-No. 4000896+
• Spindle M14 x 1.5 x 140 mm			
• Max. 3 tons			
• 3 hooks each 1786 S-100 -200 -300 mm long			
1786 S-1	130	100-200-250	133246
• Spindle G ½ x 210 mm			
• Max. 5 tons			
• 3 hooks each 1786 S -150-220-300 mm long			
1786 S-2	200	150-220-300	133932

### Puller Hook with Quick-Clamping Device



- Per piece
  - For pullers 1786 F and 1787 F
- Made in Germany**

HAZET No.	st mm	EAN-No. 4000896+
For 1786 F-9 13		
1787 F-9 13		
1787 F-0913	100	136117
For 1786 F-16 20		
1787 F-16 20		
1787 F-1620	150	136124
For 1786 F-25 35		
1787 F-25 35		
1787-52		
1787 F-2552	200	136131

### Puller Hook without Quick-Clamping Device



- Per piece
- For pullers 1786 F-25 35
- 1787 F-25 35
- 1787-52

**Made in Germany**

HAZET No.	st mm	EAN-No. 4000896+
1787-2552	200	136148
1787 Lg-0913	200	136155
1787 Lg-1620	300	136162
1787 Lg-2552	305	136179
1787 Lg-2552/4	406	136186
1787 Lg-2552/5	504	136193

### Slender Puller Hook



- Per piece
- For pullers 1786 S-1 and S-2 as well as 1787 S-1 and S-2

**Made in Germany**

HAZET No.	st mm	EAN-No. 4000896+
1786 S-100	100	134762
1786 S-150	150	134816
1786 S-200	200	134779
1786 S-220	220	134823
1786 S-250	250	134786
1786 S-300	300	134830

### Grease Hydraulic Pressure Spindle



- "Tuning for your puller" suitable for series 1781-5, 1783, 1784, 1786 and 1787, 1790, 1794, 1796
- Designed for safe and controlled pulling work
- Replaces a mechanic standard spindle
- Considerable reduction of force expenditure
- Maximum stroke 12 mm

HAZET No.	l mm	M	Max. tons	EAN-No. 4000896+
1786 H-01	350	G ½"	12	133024
1786 H-02	420	G ¾"	12	133130
1786 H-03	465	G 1"	15	133147



**Universal Puller**



- For pulling off sprockets and ball bearings
- **Puller hooks can be used from both sides;** hooks with one narrow side for areas with restricted access
- Automatic pressing of the puller hooks
- **3-arm design**
- Surface: galvanized
- **Made in Germany**

HAZET No.	Max. tons	sb mm	st mm	Spindle	EAN-No. 4000896+
1789- 9	3	90	80	M 14 x 1.5 x 125 mm	147427
1789-16	5	160	130	M 18 x 1.5 x 170 mm	136070
1789-22	5	220	170	M 18 x 1.5 x 170 mm	136087
1789-32	12	320	260	G ½" x 350 mm	147731
1789-40	12	400	320	G ½" x 350 mm	147748

**Puller for Fans**



- **3-arm design**
- **Very slender hooks with 3 clamping depth adjustments**
- Rugged and drop-forged design
- **Made in Germany**

HAZET No.	Max. tons	sb mm	st mm	Spindle	EAN-No. 4000896+
1793-1	2	150	200	M 14 x 1.5 x 155 mm	147847

**Universal Puller**



- **Rugged and proven design**
- For the removal of ball bearings, pulleys, sprockets, etc.
- Ideal for the removal of V-belt pulleys and flywheels on long shafts

**Universal Puller**

- Application and cost advantages due to:
  - Variable clamping depth
  - Automatic gripping of hooks
- Rugged and drop-forged design
- **3-arm design**

• **Made in Germany**

HAZET No.	Max. tons	sb mm	st mm	Spindle	EAN-No. 4000896+
1785 N- 9	2	90	100	M 12 x 1.5 x 110 mm	133383
1785 N-13	3	130	140	M 14 x 1.5 x 140 mm	133390
1785 N-20	8	200	210	M 18 x 1.5 x 200 mm	133413
1785 N-25	12	250	260	G ½" x 250 mm	133444
1785 N-28	12	280	390	G ½" x 250 mm	133451
1785 N-42	12	420	480	G ½" x 250 mm	133475



**3-arm design  
Rugged and proven design**

- For the removal of ball bearings, pulleys, sprockets, etc.
- Application and cost advantages due to:
  - Variable clamping depth
  - Automatic gripping of hooks
- Rugged and drop-forged design
- Economically priced universal pullers

• **Made in Germany**

HAZET No.	Max. tons	sb mm	st mm	Spindle	EAN-No. 4000896+
1791- 70	2	70	80	M 12 x 1.5 x 110 mm	147793
1791- 90	3	90	120	M 14 x 1.5 x 155 mm	147809
1791-130	7.5	130	160	M 18 x 1.5 x 200 mm	147816
1791-180	12	180	200	G ½" x 200 mm	147823

**Puller**



**3-arm design  
Rugged and proven design**

- Especially suitable for industry and commercial vehicles, such as agricultural and construction machinery
- Automatic pressing of the puller hooks
- Optional accessories: hydraulic spindle 1786 H-03

• **Made in Germany**

HAZET No.	Max. tons	sb mm	st mm	Spindle	EAN-No. 4000896+
1795-1	12	300	300	G 1" x 360 mm	147878
1795-2	12	425	425	G 1" x 500 mm	147885



## Hand Tools – Pullers/Extractors

Ingenuous Tools

### Pole and Battery Terminal Puller



- Optimally suited for the removal of small parts such as battery terminals, ball bearings, pulleys, sprockets, etc.
- Automatic gripping of hooks
- Manageable and rugged design, with drop-forged hooks
- 3-arm design

**Made in Germany**

HAZET No.	Max. tons	sb mm	st mm	Spindle	EAN-No. 4000896+
1785-40	0.8	60	40	M 10 x 1.5 x 60 mm	133659
1785-60	0.8	60	60	M 10 x 1.5 x 80 mm	133338
1785-80	1	70	80	M 10 x 1.5 x 100 mm	133369

### 3-Arm Puller



- Easy application due to new quick pulling system
- Precisely manufactured head allowing quick and accurate application
- High-quality steel and thermo-chemical treatment providing a high pressure capacity of the spindle and a high tensile capacity of the hooks
- Flexible, interchangeable spindle tip provides various application possibilities
- Hooks open by simple rotation and enclose automatically the part to be pulled out, even for vertical application (no readjustment necessary)
- Encapsulated mechanics, maintenance-free

**Made in Germany**

HAZET No.	Max. tons	sb mm	st mm	Spindle	EAN-No. 4000896+
1785-150	6.5	150	130	G ½" x 250 mm	133154
1785-250	6.5	250	250	G ½" x 350 mm	133161

### Quick-Clamping Puller Set

(E)



- With 3 hooks
- Ideal basic set with quick-clamping device
- To be used as internal and external puller by inverting the hooks
- Slender hooks especially suitable for gear box repair (as standard hooks cannot be used in areas with restricted access)
- Safe tool storage and clear arrangement in assortment case
- 6 pieces, contents:
  - 1 spindle M 14 x 1.5 x 140 mm 1786-01
  - 1 pc. 2-arm and 1 pc. 3-arm crossbar 1786-21 and -31
  - 3 slender puller hooks (100 mm long)

**Made in Germany**

HAZET No.	sb mm	st mm	Spindle	EAN-No. 4000896+
1786 FS/6	90	100	M 14 x 1.5 x 140 mm	133871

(E)



- To be used as internal and external puller by inverting the hooks
- 3 hooks with quick-clamping device
- Slender forged puller hooks especially suitable for gear box repair (as standard hooks cannot be used in areas with restricted access)
- Best tool storage and clear arrangement in assortment case with soft foam insert
- 6 pieces, contents:
  - 1 spindle G ½" x 210 mm (1786 S-03)
  - 1 pc. 2-arm (1786-22) and 1 pc. 3-arm crossbar (1786-33)
  - 3 slender puller hooks (150 mm long)

**Made in Germany**

HAZET No.	sb mm	st mm	Spindle	EAN-No. 4000896+
1786 FS/6-1	160	150	G ½" x 210 mm	147373



**Quick-Clamping Puller Set**



(E)

To be used as internal and external puller by inverting the hooks

- Set of 6 forged hooks with quick-clamping device (long, short)
- Especially slender forged hooks
- Slender forged hooks especially suitable for special repair work (as standard hooks cannot be used in areas with restricted access)
- Best tool storage and clear arrangement in assortment case with soft foam insert
- **9 pieces, contents:**
  - 1 spindle M14 x 1.5 x 140 mm (1786-01)
  - 1 pc. 2-arm (1786-21) and 1 pc. 3-arm crossbar (1786-31)
  - 3 slender puller hooks of each length 100 mm (1786 FS-100) and 200 mm (1786 FSS-200)

**Made in Germany**

HAZET No.	sb mm	st mm	Spindle	EAN-No. 4000896+
1786 FS/9	90	100/200	M 14 x 1.5 x 140 mm	147380

**Puller Set**



(E)

- With 9 hooks
- Professional set for all current clamping widths and depths (100–250 mm)
- Safe tool storage and clear arrangement in assortment case
- **12 pieces, contents:**
  - 1 spindle M 14 x 1.5 x 140 mm 1788-01
  - 1 pc. 2-arm and 1 pc. 3-arm crossbar 1788-2 and -3
  - 3 puller hooks of each length 100, 200, 250 mm

**Made in Germany**

HAZET No.	sb mm	st mm	EAN-No. 4000896+
1788 S/12	120	100–200–250	133888

**Hydraulic Puller Set**



(E)

CLIP  
www.hazet.com



- **“Power-Pull“**
- Robust and proven design with quick-clamping device
- The advantages of a quick-clamping puller and a hydraulic spindle in one set
- Very cost saving due to excellent composition of the set
- Basic hydraulic set, ideal for commercial vehicles and trucks
- **7 pieces, in plastic case**
  - Hex-head wrench s 3 mm
  - 2-arm and 3-arm crossbar 1786-22 and -33
  - grease hydraulic pressure spindle 1786 H-01 – ½”
  - 3 puller hooks with quick-clamping device 1787 F-1620 (150 mm long)

HAZET No.	Max. tons	sb mm	st mm	Spindle	EAN-No. 4000896+
1786 FH/7	15	160	75	G ½ x 350 mm	133802

**Counter Stay**



- For internal extractors HAZET 1788 N-12 up to -70
- Surface: chrome-plated

**Made in Germany**

HAZET No.	Spindle	EAN-No. 4000896+
For Internal Extractors 1788 N-12 up to 35		
1788 N-835	M 10 mm	134854
For Internal Extractors 1788 N-45 up to 55		
1788 N-4570	M 14 x 1.5 mm	134908





## Hand Tools – Pullers/Extractors

**HAZET**  
Ingenuous Tools

### Internal Extractor



- For extracting **ball bearings, outer rings and bushings**
- To be used with counter stays 1788 N-835 and -4570
- + = **With reinforced collar for safe removal of needle bearings, ball bearings and brass sleeves**

Germany **Made in Germany**

HAZET No.	∅ mm	M	EAN-No. 4000896+
1788 N-12 +	12-14	M 10	147694
1788 N-14 +	14-19	M 10	147700
1788 N-15	12-15	M 10	134861
1788 N-19	15-19	M 10	134878
1788 N-25	19-25	M 10	134885
1788 N-30	25-30	M 10	134892
1788 N-35	30-35	M 10	134915
1788 N-45	35-45	M 14 x 1.5	134502
1788 N-55	45-55	M 14 x 1.5	136209
1788 N-70	55-70	M 14 x 1.5	136216

### Internal Extractor Set



Well-proven tool sets clearly arranged in practical sheet metal cases

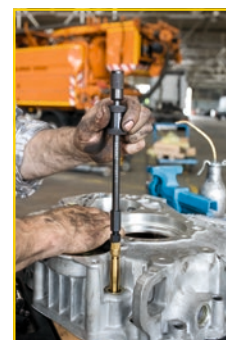
- Internal extractor and counter stay for pulling-off ball bearings, outer rings and bushings

Germany **Made in Germany**

HAZET No.	EAN-No. 4000896+
Extraction of ball bearings, rings and bushings <b>Set of 5 pieces:</b> 1 counter stay 1788 N-835 4 internal extractors ∅ 12-15 mm (1788 N-15), ∅ 15-19 mm (1788 N-19), ∅ 19-25 mm (1788 N-25), ∅ 25-30 mm (1788 N-30)	
<b>1788 N/5</b>	133178
Contents: 1 counter stay (1788 N-835), 4 internal extractors: ∅ 12-14 mm (1788 N-12)*, ∅ 14-19 mm (1788 N-14)*, ∅ 19-25 mm (1788 N-25), ∅ 25-30 mm (1788 N-30) * = <b>with reinforced collar</b>	
<b>1788 N-1/5</b>	147922
Extraction of ball bearings, outer rings and bushings <b>Set of 8 pieces:</b> 2 counter stays 1788 N-835, 1788 N-4570 6 internal extractors ∅ 12-15 mm (1788 N-15), ∅ 15-19 mm (1788 N-19), ∅ 19-25 mm (1788 N-25), ∅ 25-30 mm (1788 N-30), ∅ 30-35 mm (1788 N-35), ∅ 35-45 mm (1788 N-45)	
<b>1788 N/8</b>	133185

### Internal Extractor Set

HAZET No.	EAN-No. 4000896+
Contents: 2 counter stays (1788 N-835, 1788 N-4570), 8 internal extractors: ∅ 12-15 mm (1788 N-15), ∅ 15-19 mm (1788 N-19), ∅ 19-25 mm (1788 N-25), ∅ 25-30 mm (1788 N-30), ∅ 30-35 mm (1788 N-35), ∅ 35-45 mm (1788 N-45), ∅ 45-55 mm (1788 N-55), ∅ 55-70 mm (1788 N-70)	
<b>1788 N/10</b>	147939
Contents: 2 counter stays (1788 N-835, 1788 N-4570), 6 internal extractors: ∅ 12-15 mm (1788 N-15), ∅ 15-19 mm (1788 N-19), ∅ 19-25 mm (1788 N-25), ∅ 25-30 mm (1788 N-30), ∅ 30-35 mm (1788 N-35), ∅ 35-45 mm (1788 N-45), 1 puller, 2-arm design (1787-9), 1 pulling chuck (1788-532), 1 battery terminal puller (1784-40)	
<b>1798 N/11</b>	147953
Contents: 2 counter stays (1788 N-835, 1788 N-4570), 8 internal extractors: ∅ 12-15 mm (1788 N-15), ∅ 15-19 mm (1788 N-19), ∅ 19-25 mm (1788 N-25), ∅ 25-30 mm (1788 N-30), ∅ 30-35 mm (1788 N-35), ∅ 35-45 mm (1788 N-45), ∅ 45-55 mm (1788 N-55), ∅ 55-70 mm (1788 N-70), 2 pullers, 2-arm design (1787-9 and 1787-16), 1 pulling chuck (1788-532), 1 battery terminal puller (1784-40), 1 stud bolt extractor (845-1)	
<b>1798 N/15</b>	147960



- With **titanium nitrided surface** extra-hard and wear-resistant
- For tightly-packed ball bearings, rings, bushings and shaft seals Simmer®
- Made of high-quality, flexible material
- Absolutely precise manufacturing accuracy providing a higher power transfer
- High ease of use
- **Only 4 Internal Extractors** allow to cover the range from 5 to 36 mm
- To be used sliding hammer or counter stay
- Well-composed set
- Hard and wear-resistant titanium nitrided surfaces providing a better and heat-resistant surface protection
- **Application:**
- Insert internal extractor into bearing and screw in spindle
- The sharp shells press behind the part to be removed
- Place sliding hammer or counter stay in position

Germany **Made in Germany**

HAZET No.	l mm	M	EAN-No. 4000896+
<b>Set of 5 pieces in plastic box:</b> 4 internal extractors 5 up to 8.5/8 up to 15/15 up to 24/25 up to 36 mm 1 sliding hammer with coupler thread M 10			
<b>1788 T/5</b>	-	-	133666
• Sliding hammer (sliding weight 200g) with coupler thread M 10			
• For the removal of caps with inside thread, ball bearings, pulleys etc.			
• To be used with Stud Bolt Set 1788 T-1/6 and Internal Extractors 1788 N-15 to 35			
<b>1788 T-1</b>	226	M10	134304
Internal extractor 5 up to 8.5 mm			
<b>1788 T-8.5</b>	-	-	134311
Internal extractor 8 up to 15 mm			
<b>1788 T-15</b>	-	-	134328
Internal extractor 15 up to 24 mm			
<b>1788 T-24</b>	-	-	134434
Internal extractor 25 up to 36 mm			
<b>1788 T-36</b>	-	-	134441

### Cylinder Sleeve Puller Set



- For pulling-off wet cylinder sleeves on passenger cars or commercial vehicles, e.g. **MERCEDES-BENZ, MAN** as well as stationary engines and other parts
- Set of 2 pieces complete with counter stay

**Made in Germany**

HAZET No.	sb mm	Spindle	EAN-No. 4000896+
1797-1/2	60–160	G ½"	147977

### Pulling Chuck



- Suitable for extracting the inner rings of separable bearings of generators, engine and other machine parts
- Easy handling due to simple rotation of the union nut

**Made in Germany**

HAZET No.	sb mm	st mm	EAN-No. 4000896+
1788-532	5–32	125	147717

### Stud Bolt Set



- For the removal of different caps with inside thread
- Stud bolt set, 6 pieces, with M 10 coupler thread consisting of: 1 piece each threaded insert M 4, M 5, M 6, M 8, M 10, M 12
- To be used with sliding hammer 1788 T-1

**Made in Germany**

HAZET No.	EAN-No. 4000896+
1788 T-1/6	141647

### Sliding Hammer



**Made in Germany**

HAZET No.	l mm	M	EAN-No. 4000896+
1788 T-1	226	M 10	134304

- Sliding hammer (sliding weight 200g) with coupler thread M 10
- For the removal of caps with inside thread, ball bearings, pulleys etc.
- To be used with Stud Bolt Set 1788 T-1/6 and Internal Extractors 1788 N-15 to 35

### Puller



- For extracting ball bearings, roller bearings and inner rings
- In conjunction with separator HAZET 1775 N-60 75 115
- For the connection with the separators screw the tension bolts into the threaded holes of the separation jaws
- Surface: galvanized / burnished

**Made in Germany**

HAZET No.	sb mm	Spindle	Tension bolt	EAN-No. 4000896+
1775 N-12	40–120	M 14 x 120 mm	M 10	134922
1775 N-16	60–165	M 18 x 170 mm	M 10	134588
1775 N-21	70–215	G ½" x 210 mm	M 14 x 1.5	134618

### Extension



- Per pair
- Surface: burnished

**Made in Germany**

HAZET No.	l mm	EAN-No. 4000896+
For 1775-12 and -16		
1775 N-012	100	134366
For 1775-21		
1775 N-021	100	134373

### Separator



- The separator is closed by tightening the nuts on the stud bolts
- Surface: galvanized / burnished

**Made in Germany**

HAZET No.	Ø mm	M	EAN-No. 4000896+
1775 N- 60	5– 60	M 10	135936
1775 N- 75	12– 75	M 10	134540
1775 N-115	22–115	M 14 x 1.5	134656

### Separator and Puller Set







## Hand Tools – Pullers/Extractors

### Separator and Puller Set

- For very confined spaces and tightly adjusted bearings
- Separator and puller with extension
- For extracting ball bearings, roller bearings and inner rings
- The tension bolts are screwed into the threaded holes of the separation jaws
- The separator is closed by tightening the nuts on the stud bolts
- Sets in sheet metal cases

**Made in Germany**

HAZET No.	sb mm	EAN-No. 4000896+
<b>Set of 4 pieces:</b>		
1 puller 1775 N-16, sb 60–165 mm		
1 separator 1775 N-75, Ø 12–75 mm		
1 pair of extensions 1775 N-012, l 100 mm		
<b>1775 N/4</b>	60–165	133208
<b>Set of 4 pieces:</b>		
1 puller 1775 N-21, sb 70–215 mm		
1 separator 1775 N-115, Ø 22–115 mm		
1 pair of extensions 1775 N-021, l 100 mm		
<b>1775 N-1/4</b>	70–215	133215

### Ball Bearing Extractor Set



- Considerably easier application than existing systems on the market providing more efficiency and productivity
- Suitable for more than 40 standard ball bearings up to size 6311
- **For removing ball bearings mounted on shafts and located in housings**
- User-friendly device prevents the hooks from falling off
- 100 % power transmission due to self-gripping closure

**Note:**

As the manufacturers of the bearings are free to determine the design of the inner workings (e.g. number of balls, design of cage etc.), the table serves as orientation only.

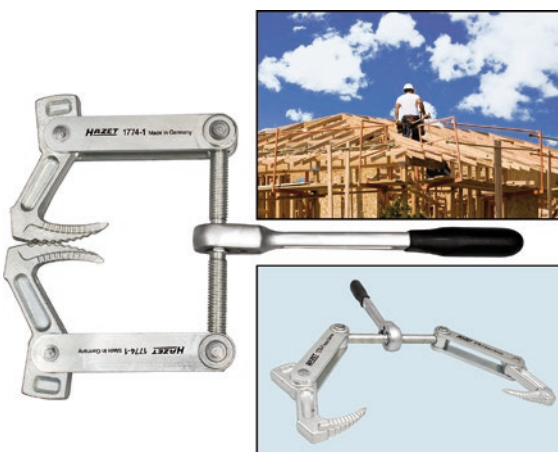
**Made in Germany**

HAZET No.	EAN-No. 4000896+									
<b>20 pieces</b>										
Bearing	Hook	Receptacle	Bearing	Hook	Receptacle	Bearing	Hook	Receptacle		
6000	1778-10	1778-3	6008	1778-40	1778-1	6205	1778-40	1778-1		
6001	1778-10	1778-2	6009	1778-40	1778-1	6300	1778-30	1778-1		
6002	1778-10	1778-1	6010	1778-40	1778-1	6301	1778-40	1778-1		
6003	1778-10	1778-2	6200	1778-10	1778-2	6302	1778-40	1778-3		
6004	1778-30	1778-1	6201	1778-20	1778-3	6303	1778-40	1778-3		
6005	1778-30	1778-1	6202	1778-20	1778-2	6304	1778-40	1778-3		
6006	1778-30	1778-1	6203	1778-30	1778-2					
6007	1778-40	1778-1	6204	1778-40	1778-2					
<b>1778-1/20</b>										133673
<b>20 pieces</b>										
Bearing	Hook	Receptacle	Bearing	Hook	Receptacle	Bearing	Hook	Receptacle		
6011	1778-50	1778-4	6212	1778-70	1778-4	6311	1778-70	1778-5		
6012	1778-50	1778-4	6213	1778-70	1778-6	6403	1778-60	1778-4		
6206	1778-50	1778-4	6305	1778-60	1778-6	6404	1778-70	1778-4		
6207	1778-50	1778-4	6306	1778-60	1778-5	6405	1778-70	1778-6		
6208	1778-60	1778-4	6307	1778-60	1778-5	6406	1778-70	1778-6		
6209	1778-60	1778-4	6308	1778-70	1778-5	6407	1778-60	1778-6		
6210	1778-60	1778-4	6309	1778-70	1778-5					
6211	1778-60	1778-4	6310	1778-70	1778-5					
<b>1778-2/20</b>										133680

### Ball Bearing Extractor Set

HAZET No.	EAN-No. 4000896+
<b>40 pieces (complete set) consisting of:</b>	
<b>1778-1/20 and 1778-2/20</b>	
For ball bearings 6000 up to 6407	
<b>1778-3/40</b>	133697
<b>Spindle M 10 x 1.5 x 150</b>	
<b>1778-01</b>	134458
<b>Spindle M 14 x 1.5 x 175</b>	
<b>1776-02</b>	134557
<b>Threaded Adapter</b>	
<b>1778-010</b>	134663
<b>Receptacle 3/1-partition</b>	
<b>1778-1</b>	134465
<b>Receptacle 4/1-partition</b>	
<b>1778-2</b>	134472
<b>Receptacle 3/7-partition</b>	
<b>1778-3</b>	134489
<b>Receptacle 3/1-partition</b>	
<b>1778-4</b>	134564
<b>Receptacle 4/1-partition</b>	
<b>1778-5</b>	134571
<b>Receptacle 3/7-partition</b>	
<b>1778-6</b>	134595
<b>Ring for bearing 6407</b>	
<b>1778-7</b>	134670
<b>Ring for bearing 6310</b>	
<b>1778-8</b>	134649
<b>Ring for bearing 6311</b>	
<b>1778-9</b>	134687
<b>Puller Hooks, set of 4 pieces</b>	
<b>1778-10</b>	134496
<b>1778-20</b>	134519
<b>1778-30</b>	134526
<b>1778-40</b>	134533
<b>1778-50</b>	134601
<b>1778-60</b>	134625
<b>1778-70</b>	134632

### Beam Puller



- Beam puller with reversible ratchet
- For tensioning, pulling, pressing of timbers
- Drop-forged, tempered hooks
- Hooks, galvanized, ratchet, chrome-plated
- Ergonomic design – with reversible ratchet
- Smooth running acme thread
- Span: 115 mm
- Total width: 440 mm
- Length of ratchet: 275 mm

**Made in Germany**

HAZET No.	EAN-No. 4000896+
<b>1774-1</b>	180578

Ball joint puller see Specialty Tools → Chassis → Wheel Bearing / Wheel Hub on page 251