



TA 1310-0010-3

Technical Instruction

Special tools catalogue Type 6



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1 Scope

This Technical Instruction (TA) applies to the following Jenbacher Engines:

- Type 6 engines

2 Purpose

This technical instruction (TA) contains a list of available special tools required for work on Jenbacher Engines.

3 Safety information

DANGER



Personal injury due to damaged tools

If tools are not inspected at regular intervals, severe personal injury may result.

- Tools marked yellow in the tool kit overview must be inspected regularly at intervals of no more than one year. The markings are based on the periodicity at INNIO in Austria, but if local regulations are stricter, the frequency and scope of the inspection must be changed accordingly.

WARNING



Personal injury

Failure to use personal protective equipment and comply with safety instructions or employee protection information may lead to personal injury.

- Wear the relevant personal protective equipment (PPE).
- Observe the safety instructions as per TA 2300-0005.
- Observe the employee protection information as per TA 2300-0001.

4 Additional information

NOTE



Engine damage due to uncalibrated measuring instruments

If measuring instruments are not calibrated at the set intervals, this can result in engine damage due to incorrect measurement results.

- Calibrate measuring instruments at the intervals specified by the manufacturer.

Relevant documents:

TA 1310-0011 – Standard tool catalogue

TA 2300-0001 – Employee protection

TA 2300-0005 – Safety instruction

5 General

Custom products within this catalogue are used exclusively by the company GE Jenbacher (DP) GmbH & CO OG and manufactured by its subcontractors.

The special equipment and tools contained in this catalogue are to be used in accordance with the relevant regulations and TIs and must not be used by persons without the predetermined certified training.

The training required for working on engines using the special tools from Jenbacher is indicated in the Tool kits Section below. The abbreviations used there refer to the following list.

| Training title (Trg) | Abbr. |
|--|-------|
| Maintenance and repair training for Type 3 engines | MR3 |
| Maintenance and repair training for Type 4 engines | MR4 |
| Maintenance and repair training for Type 6 engines | MR6 |

| Training title (Trg) | Abbr. |
|--|-------|
| J624 training | 624 |
| ITH flywheel training - manufacturer training only with special approval | ITH |

Recommendation on minimum requirements for special tools

Recommendations about minimum requirements of special tools for Jenbacher Engines serve as planning aids for our service partners.

The minimum requirements ensure that the fleet installed in a country can be serviced sufficiently and over the whole area.

To do this, the following categories are assigned to the special tools:

| Abbreviation category | Designation category | Description |
|-----------------------|----------------------|--|
| PREV | Preventive tool | Special tools for the activities provided for in the maintenance schedule – Preventive measures. Tools of this category may also be necessary for corrective actions. |
| CORR | Corrective tool | Special tool for corrective actions. |
| SISP | Plant-specific tool | Plant-specific tools are special tools of individual plants or devices that are required for service depending on the condition of the customer's plants. |
| ACCY | Accessories | Optional accessories for proper storage and safe transport of special tools. |

The following list shows the recommended minimum quantities of special tools in relation to the number of motors installed in the country.


| Number of motors per type in the country | Preventive tools (PREV) | Corrective tools (CORR) |
|--|-------------------------|-------------------------|
| <20 | 1 | 1 |
| <50 | 2 | 1 |
| <70 | 2 | 2 |
| <100 | 3 | 2 |
| <150 | 3 | 3 |
| <200 | 4 | 3 |
| <500 | 5 | 3 |
| <800 | 5 | 4 |
| <1200 | 6 | 4 |



The specified minimum quantities assume proper and good planning as well as trouble-free transport possibilities throughout the country. Deviations or countries larger than 800,000 km² may require larger quantities.

6 Changes

Bearing removal tool TecJet - PREV

| | | | |
|---------|-----------------------------|--------------------------------------|---|
| 1242638 | Bearing removal tool TecJet | To remove the bearings of the TecJet |  |
|---------|-----------------------------|--------------------------------------|---|

Weight: -- kg
Dimensions: -- x -- x -- mm

Battery light source for borescope - PREV

| | | | |
|---------|------------------------------------|---|--|
| 1248655 | Battery light source for borescope | alternative light source for borescope part no.: 1218442, wireless handling | |
|---------|------------------------------------|---|--|

Weight: -- kg
Dimensions: -- x -- x -- mm

Rigid borescope with LED - PREV

| | | | |
|---------|--------------------------|--|--|
| 1218442 | Rigid borescope with LED | for finding e.g. combustion chambers, incl. LED light source, camera and carrying case | |
|---------|--------------------------|--|--|


Weight: -- kg
Dimensions: -- x -- x -- mm

Videoscope - PREV

| | | | |
|---------|------------|--|--|
| 1248638 | Videoscope | For diagnostic purposes with interchangeable lens, 2 batteries and accessories in carrying case Alternatively part no.: 1226502 | |
|---------|------------|--|--|


Weight: -- kg
Dimensions: -- x -- x -- mm

Magnetic cover - PREV

| | | | |
|---------|----------------|---|---|
| 9031242 | Magnetic cover | For covering the side crankcase openings, engine type 6 |  |
|---------|----------------|---|---|

Weight: 0.2 kg
Dimensions: 280 x 280 x 1 mm

Conrod ejection rod clamp - CORR

| | | | |
|---------|---------------------------|--|---|
| 1247921 | Conrod ejection rod clamp | for clamping the conrod lever assembly when replacing the big-end bearing shells on type 612, 616 and 620 engines (without removing the cylinder head) |  |
|---------|---------------------------|--|---|

Weight: 3.2 kg
Dimensions: 310x125x210 mm

7 Tool kits

⚠ WARNING



Personal injury due to untested tools

If tools are not inspected at regular intervals, personal injury caused by tools may result.

- Inspect tools highlighted in yellow in the overview at regular intervals of no more than one year.
- The markings are based on the periodicity at INNIO in Austria, but if local regulations are stricter, the frequency and scope of the inspection must be changed accordingly.



Spare parts for complete kits are marked with a "-". They are included in the complete kit, but can also be ordered separately.

If a value has been entered for tools in the sub-assembly column, the entire sub-assembly must be ordered. The individual parts cannot be used on their own.

| Special tool | Part number | Training | Number | Module |
|---|-------------|----------|--------|--------|
| Type 6 - Hydraulic system [CYLH/6/XX/000/01-03] - PREV | | | | |
| <i>Type 6 Hydraulic system - Complete kit</i> | 373279 | MR6 | 1 | |
| - Face spanner | 1209979 | | 1 | |
| - Punch 6 mm | 1209981 | | 1 | |
| - Hard-shell carrying case, Peli | 1209982 | MR6 | 1 | |
| - Manometer for hydraulic hand pump ITH | 1234344 | | 1 | |
| - Bolt-tensioner without adapter bushing and support sleeve | 426567 | MR6 | 4 | |

| Special tool | Part number | Training | Number | Module |
|--|-------------|----------|--------|--------|
| - Adapter bushing M30x2 | 426568 | MR6 | 4 | |
| - Support sleeve M30x2 | 426569 | | 4 | |
| - Adapter bushing M33x2 | 426570 | MR6 | 2 | |
| - Support sleeve M33x2 | 426571 | MR6 | 2 | |
| - Seal kit for bolt-tensioner | 426574 | | 1 | |
| - High-pressure hand pump, 1350 bar | 426575 | | 1 | |
| - Seal kit for high-pressure hand lever pump | 426576 | MR6 | 1 | |
| - High-pressure hose 2m | 426578 | | 4 | |
| - High-pressure hose 3 m | 426579 | | 1 | |
| - High-pressure coupling distributor (4-way) | 426580 | | 1 | |

Type 6 - Power unit [CYLH/6/XX/000/02-03] - PREV

| | | | | |
|--|---------|-----|-------------|--|
| Circlip pliers | 1203577 | MR6 | 1 | |
| Foam insert | 1209971 | | 1 | |
| Case | 1210486 | | 1 | |
| Cylinder liner lifting tool | 1237183 | MR6 | 1 | |
| Piston ring pliers | 194603 | | 1 | |
| Position gauge for piston cooling nozzles on Type 6 engines, version C | 277247 | MR6 | 1 | |
| Position gauge for piston cooling nozzles on Type 6 engines, version E | 285852 | MR6 | 1 | |
| Assembly plate for big-end bolts | 289936 | MR6 | 1 | |
| Cylinder liner extractor | 310580 | MR6 | 1 | |
| Holding-down tool for cylinder liner | 474145 | | 2 | |
| Device for fitting conrods, 2-part | 660093 | MR6 | 1 | |
| Lifting tool for pistons | 9006995 | MR6 | 1 | |
| Protective tube for Type 6 engines | 9014392 | MR6 | nach Bedarf | |
| Insertion sleeve for pistons | 9016124 | MR6 | 1 | |
| Locking screw for big-end bearing, long arm | 9017200 | MR6 | 1 | |
| Locking screw for big-end bearing, short arm | 9017492 | MR6 | 1 | |
| Positioning device for big-end bearing cap, Type 6 engines | 9017515 | MR6 | 1 | |
| Bolt-tensioning cylinder | 9020948 | | 1 | |

Type 6 – Main bearing [CYLH/6/XX/000/03-03] - PREV

| | | | | |
|------------------------------------|---------|-----|---|--|
| Crankcase spreader | 1205054 | MR6 | 1 | |
| Case | 1208506 | | 1 | |
| Extension (210 mm, 1") | 1208508 | | 1 | |
| Extension (125 mm, 1") | 1208509 | | 1 | |
| Nut for main-bearing tie-rod bolts | 1208510 | | 1 | |
| Foam insert | 1209972 | | 1 | |
| Multiplier, 3-part | 344082 | | 1 | |
| Hex bit socket (19 mm, 1") | 344084 | | 1 | |

| Special tool | Part number | Training | Number | Module |
|----------------------------------|-------------|----------|--------|--------|
| Main bearing removal tool | 9023213 | | 1 | |
| Main bearing cap lowering device | 9027878 | MR6 | 1 | |

Types 2, 3, 4, 6 – Crankshaft seal [SEAL/2346/XX/000] - PREV

| | | | | |
|--|---------|-----------------|---|--|
| Case | 1208506 | | 1 | |
| Foam insert | 1209888 | | 1 | |
| Stud M16x1.5 | 156911 | MR3;MR4; MR6 | 1 | |
| Assembly sleeve | 285455 | | 1 | |
| PVC ring for pre-assembly | 315403 | MR3;MR4; MR6 | 1 | |
| Assembly aid for fitting the crankshaft seal - Type 6 engines | 519902 | | 1 | |

Type 6 - Steel piston tool [CYLS/6/XX/000/01-01] - PREV

| | | | | |
|---|---------|-----|---|--|
| Circlip pliers | 1203577 | MR6 | 1 | |
| Foam insert | 1209973 | | 1 | |
| Case | 1210487 | | | |
| Piston ring pliers | 194603 | | 1 | |
| Position gauge for piston cooling nozzles on Type 6 engines with steel pistons | 456563 | MR6 | 1 | |
| Device for fitting conrods, 2-part | 660093 | MR6 | 1 | |
| Lifting tool for pistons | 9006995 | MR6 | 1 | |
| Insertion sleeve for pistons | 9016126 | MR6 | 1 | |
| Adapter ring for piston cooling nozzle adjustment device | 9020769 | | 1 | |

Blow-by meter [BBMD/346/XX/000/01-01] - PREV

| | | | | |
|--------------------|---------|--|---|--|
| Blow-by meter hose | 1210773 | | 2 | |
| Blow-by meter | 1230601 | | 1 | |

Camshaft tool – Type 6 engines - CORR

| | | | | |
|-------------------------------|---------|-----|---|--|
| Twin-arm extractor | 1237323 | MR6 | 1 | |
| Camshaft sliding sleeve | 290008 | MR6 | 1 | |
| Camshaft bearing fitting tool | 9024088 | MR6 | 1 | |

Type 6 - Prechamber removal [PCEX/6/XX/000/01-01] - PREV

| | | | | |
|---|---------|-----|---|--|
| Spark plug sleeve seat lapping tool ("F" cylinder heads) | 1241846 | MR6 | 1 | |
| Spark plug sleeve seat lapping tool ("H" cylinder heads) | 1242554 | MR6 | 1 | |
| Spark plug sleeve adapter M35x1.5 | 303388 | | 1 | |
| Valve spring removal tool | 317585 | | 1 | |
| Spark plug sleeve adapter M42x2 | 567458 | | 1 | |

| Special tool | Part number | Training | Number | Module |
|--|-------------|----------|--------|-------------------------|
| Spark plug sleeve adapter M36x1.5 | 7002321 | | 1 | |
| Prechamber removal power tool | 9003104 | MR6 | 1 | |
| Prechamber removal device, universal joint | 9003554 | MR6 | 1 | Prechamber removal tool |
| Prechamber extension tool, extension | 9004381 | MR6;624 | 1 | Prechamber removal tool |
| Prechamber removal tool hammer | 9004382 | MR6;624 | 1 | Prechamber removal tool |
| Prechamber gas valve removal tool | 9013489 | MR6 | 1 | |
| Spark plug sleeve adapter M48 x 1 | 9023750 | | | |
| Spark-plug sleeve pretensioning tool | 9028131 | MR6 | 1 | |

Type 6 – Flywheel puller [GEAR/6/XX/000/01-02] - CORR

| | | | | |
|-------------------------------------|-------------|-----|---|--|
| - Face spanner | 1209979 | | 1 | |
| - Punch 6 mm | 1209981 | | 1 | |
| - High-pressure hand pump, 1350 bar | 426575 | | 1 | |
| - High-pressure hose, 3 m | 426579 | | 1 | |
| Flywheel extractor | Auf Anfrage | ITH | 1 | |

Type 6 – Gear train [GEAR/6/XX/000/02-02] - CORR

| | | | | |
|-----------------------------------|---------|---------|---|--|
| Gear train hand tool | --- | | 1 | |
| Slotted nut socket M45 | 1215800 | MR6 | 1 | |
| Slotted nut socket M80 | 1215801 | MR6 | 1 | |
| Hex bit socket (22 mm, 1") | 1229999 | MR6 | 1 | |
| Hydraulic three-arm puller | 1235485 | | 1 | |
| Twin-arm extractor | 1237323 | MR6;624 | 1 | |
| Increasing adapter 3/4"⇒1" | 1247842 | | 1 | |
| Torque spanner, 1" 350-800 Nm | 152022 | | 1 | |
| Multiplier, 3-part | 344082 | | 1 | |
| Torque spanner, 1" 75-400 Nm | 414739 | | 1 | |
| Camshaft idler gear assembly tool | 7003805 | | 1 | |
| Oil pump idler gear assembly tool | 8000080 | | 1 | |

Type 6 - Venturi ring removal tool [Venturi] - PREV

| | | | | |
|-----------------------------------|---------|-----|---|--|
| Venturi ring removal tool, Type 6 | 1215924 | MR6 | 1 | |
|-----------------------------------|---------|-----|---|--|

Type 6 – Crane [MCRA/6/xx/000] - SISP

| | | | | |
|--------------------|---------|-----|---|--|
| Crane basic module | 1232227 | MR6 | 1 | |
| Mounting bracket | 9019243 | MR6 | 1 | |

Roller plunger removal device [TAPS/6/xx/000] - CORR

| | | | | |
|------------------------------------|---------|-----|---|--|
| - Roller tappet guide removal tool | 1243459 | MR6 | 1 | |
|------------------------------------|---------|-----|---|--|

| Special tool | Part number | Training | Number | Module |
|--|-------------|----------|-------------|---------------------------------|
| Throttle valve bush pulling device [TVBP/6/xx/000] - CORR | | | | |
| - Throttle valve bushing extractor, Type 6 engines | 1211612 | MR6 | 1 | |
| Type 6 – Set of covers - PREV | | | | |
| Case | 1247381 | | 1 | |
| - Stopper Set J624 | 1247143 | | 1 | |
| Set of covers – Complete kit | 1247620 | | 1 | |
| - Protective tube for Type 6 engines | 9014392 | MR6;624 | 24 | |
| - Blanking plug liner landing | 9018694 | | 24 | |
| Type 6 – Stopper - PREV | | | | |
| Sealing plug D | 1226716 | | nach Bedarf | |
| Sealing plug E | 1226717 | | nach Bedarf | |
| Sealing plug C | 1229311 | | nach Bedarf | |
| Stopper Set J612 | 1247138 | | 1 | |
| Stopper Set J616 | 1247139 | | 1 | |
| Stopper Set J620 | 1247140 | | 1 | |
| Stopper Set J624 | 1247143 | | 1 | |
| Combustion chamber cleaning - CORR | | | | |
| Combustion chamber cleaning consumables | 1242666 | | 1 | |
| O-ring | 376488 | | 1 | |
| Spark Plug Tool [SPAT/6/xx/000] - PREV | | | | |
| Extension magnet for reinforcing the spark plug socket wrench | 1237586 | | 1 | |
| Spark plug adjustment tool | 9011882 | | 1 | |
| Adapter for slotted capstan nut - PREV | | | | |
| Hose | 200593 | | 1 | Adapter for slotted capstan nut |
| Adapter | 9025143 | | 1 | Adapter for slotted capstan nut |
| set screw | 9025145 | | 3 | Adapter for slotted capstan nut |
| Type 6 – Version C [HELD/6C/xx/000] - PREV | | | | |
| Exchange bushing, long M30x2 | --- | | 1 | |
| Support sleeve M30 x 2 for main bearing | 1223400 | | 1 | |
| 2-part rod for fitting conrods, Type 6C engines | 660094 | | 1 | |
| Jacking equipment set for Type 6 engines, version C | 7004451 | | 1 | |

| Special tool | Part number | Training | Number | Module |
|---|-------------|-------------|--------|--------------------------------|
| Type 6 – Piston cleaning tool [PRGC/6/XX/000] - CORR | | | | |
| <i>Piston bracket for Type 6 engines</i> | 7004555 | | 1 | |
| <i>Piston ring groove cleaning tool for Type 6 engines</i> | 7004556 | | 1 | |
| Single tools - PREV / CORR | | | | |
| <i>Turning device</i> | 1234890 | MR6 | 1 | |
| <i>Mixture cooler lifting plate</i> | 1235264 | MR6 | 1 | |
| <i>Shaft alignment laser device</i> | 1235971 | | 1 | |
| <i>Hydraulic lifting cylinder</i> | 1235972 | | 1 | |
| <i>Support plate package for "weak" cylinder heads</i> | 1237463 | | 1 | |
| <i>Vibration measuring instrument</i> | 1238948 | | 1 | |
| <i>Accumulator pump for ITH hydraulic system</i> | 1241906 | MR6 | 1 | |
| <i>Bolt-tensioner, four-part, M33 x 2</i> | 1241908 | MR6 | 2 | optional for 426570 und 426571 |
| <i>Torque screwdriver</i> | 1242516 | MR3;MR4;MR6 | 1 | |
| <i>Bearing removal tool TecJet</i> | 1242638 | | 1 | |
| <i>Torque wrench for tie bolts</i> | 1243235 | | 1 | |
| <i>Ring spanner attachment for prechamber nut</i> | 1246988 | MR6 | 1 | |
| <i>Conrod ejection rod clamp</i> | 1247921 | MR6 | 1 | |
| <i>O-ring press-in tool</i> | 605953 | MR6 | 1 | |
| <i>Scraper ring removal tool</i> | 9014095 | MR6 | 1 | |
| <i>Coupling element replacement tool</i> | 9029785 | | 1 | |
| <i>Magnetic cover BR6</i> | 9031242 | | 1 | |
| Examination | | | | |
| <i>Rigid borescope with LED</i> | 1218442 | | 1 | |
| <i>Videoscope</i> | 1248638 | | 1 | |
| <i>Battery light source for borescope</i> | 1248655 | | 1 | |

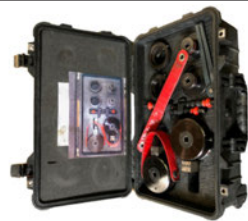
8 Special tool

8.1 Type 6 - Hydraulic system




The complete kit includes all tools mentioned below. All tools with a part number can also be ordered as spare parts.

Hydraulic system for Type 6 engines - complete kit - PREV

| | | | |
|--------|--|--|---|
| 373279 | Hydraulic system for Type 6 engines - complete kit | |  |
|--------|--|--|---|


Weight: 72 kg
Dimensions: 860 x 800 x 570 mm

Face spanner - PREV

| | | | |
|---------|--------------|--|---|
| 1209979 | Face spanner | For opening the bolt-tensioners for replacing the adapter bushings |  |
|---------|--------------|--|---|




Weight: 0.8 kg
Dimensions: 220x40x20 mm

Punch 6 mm - PREV

| | | | |
|---------|------------|--|---|
| 1209981 | Punch 6 mm | For hand-tightening the round capstan nuts on the cylinder head and main bearing |  |
|---------|------------|--|---|


Weight: 0.4 kg
Dimensions: 210 x 30 x 30 mm
Manufacturer / No.: FACOM / 539915

Hard-shell carrying case, Peli - PREV

| | | | |
|---------|--------------------------|------------------|---|
| 1209982 | Hard-shell carrying case | Type 6 - Box 1/3 |    |
|---------|--------------------------|------------------|---|


Weight: 6.2 kg
Dimensions: 570x350x240 mm
Details: Peli Case 1510

Bolt-tensioner without adapter bushing and support sleeve - PREV

| | | | |
|--------|---|---|---|
| 426567 | Bolt-tensioner without adapter bushing and support sleeve | Tensioning the cylinder head bolts in order to enable the hole nuts to be tightened |  |
|--------|---|---|---|


Weight: 6.8 kg
Dimensions: 210x140x120 mm

Adapter bushing M30x2 - PREV

| | | | |
|--------|-----------------------|--|---|
| 426568 | Adapter bushing M30x2 | Adapter bushing for bolt-tensioner for cylinder head bolts |  |
|--------|-----------------------|--|---|


Weight: 2.8 kg
Dimensions: 90x90x90 mm

Adapter bushing M33x2 - PREV

| | | | |
|--------|-----------------------|---|---|
| 426570 | Adapter bushing M33x2 | Adapter bushing for bolt-tensioner for main bearing reduced-shaft bolts |  |
|--------|-----------------------|---|---|


Weight: 2.8 kg
Dimensions: 90x90x90 mm

Support sleeve M30x2 - PREV

| | | | |
|--------|------------------------|---|--|
| 426569 | Support sleeve M30 x 2 | Replaceable support sleeve (bolt-tensioner) for cylinder head bolts |  |
|--------|------------------------|---|--|


Weight: 2.0 kg
Dimensions: 90 x 90 x 50 mm

Support sleeve M33x2 - PREV

| | | | |
|--------|----------------------|--|---|
| 426571 | Support sleeve M33x2 | Replaceable support sleeve (bolt-tensioner) for main bearing reduced-shaft bolts |  |
|--------|----------------------|--|---|


Weight: 2.0 kg
Dimensions: 90 x 90 x 50 mm

Seal kit for high-pressure hand lever pump - PREV

| | | | |
|--------|--|------------------------------------|---|
| 426576 | Seal kit for high-pressure hand lever pump | Replacement seal set for hand pump |  |
|--------|--|------------------------------------|---|


Weight: 0.1 kg
Dimensions: 100x100x10 mm

High-pressure hand pump, 1350 bar - PREV

| | | | |
|--------|-----------------------------------|---|---|
| 426575 | High-pressure hand pump, 1350 bar | For building up pressure for the bolt-tensioner |  |
|--------|-----------------------------------|---|---|


Weight: 9.2 kg
Dimensions: 620x260x240 mm

Seal kit for bolt-tensioner - PREV

| | | | |
|--------|-----------------------------|---|---|
| 426574 | Seal kit for bolt-tensioner | Replacement seal kit for bolt-tensioner |  |
|--------|-----------------------------|---|---|


Weight: 0.1 kg
Dimensions: 100x100x10 mm

High-pressure hose, 2m - PREV

| | | | |
|--------|------------------------|--|---|
| 426578 | High-pressure hose, 2m | Connecting hose from the pump to the distributor |  |
|--------|------------------------|--|---|


Weight: 1.6 kg
Dimensions: 30x30x2000 mm

High-pressure coupling distributor (4-way) - PREV

| | | | |
|--------|--|--|---|
| 426580 | High-pressure coupling distributor (4-way) | For equal distribution of pressure across the four bolt-tensioners |  |
|--------|--|--|---|


Weight: 1.8 kg
Dimensions: 150x200x30 mm

Manometer for hydraulic hand pump ITH - PREV

| | | | |
|---------|---------------------------------------|--|---|
| 1234344 | Manometer for hydraulic hand pump ITH | Spare part Monometer for hydraulic hand pump ITH 426575, display pane 1600 bar |  |
|---------|---------------------------------------|--|---|


Weight: 1.1 kg
Dimensions: 145x110x60 mm

High-pressure hose, 3 m - PREV

| | | | |
|--------|-------------------------|--|---|
| 426579 | High-pressure hose, 3 m | Connecting hose from the pump to the distributor |  |
|--------|-------------------------|--|---|

Weight: 2.4 kg
Dimensions: 30x30x3000 mm


Bolt-tensioner, four-part, M33 x 2 - PREV

| | | | |
|---------|------------------------------------|---|---|
| 1241908 | Bolt-tensioner, four-part, M33 x 2 | For tensioning the main bearing reduced-shaft bolts |  |
|---------|------------------------------------|---|---|

Weight: 6.8 kg
Dimensions: 140 x 160 x 210 mm

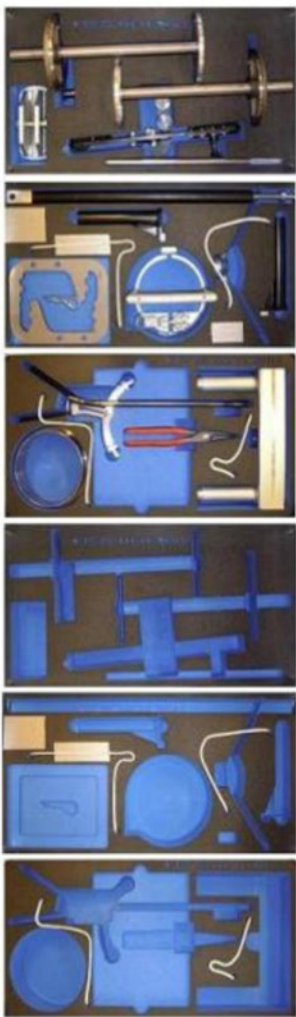
8.2 Type 6 - Power Unit

Circlip pliers - PREV

| | | | |
|---------|----------------|-----------------------------------|---|
| 1203577 | Circlip pliers | For fitting and removing circlips |  |
|---------|----------------|-----------------------------------|---|


Weight: 0.6 kg
Dimensions: 330x60x20 mm
Details: Knipex J4
Manufacturer part no.: 49 11 A2

Foam insert - ACCY

| | | | |
|---------|-------------|-----------------------------------|--|
| 1209971 | Foam insert | Type 6 engine power unit tool kit |  |
|---------|-------------|-----------------------------------|--|


Weight: 3.6 kg
Dimensions: 870 x 470 x 380 mm

Case - ACCY

| | | | |
|---------|------|--|---|
| 1210486 | Case | |  |
|---------|------|--|---|


Weight: 6.9 kg
Dimensions: 890x490x400 mm

Piston ring pliers - PREV

| | | | |
|--------|--------------------|--|---|
| 194603 | Piston ring pliers | Fitting and removal of piston rings – Type 6 engines |  |
|--------|--------------------|--|---|


Weight: 0.8 kg
Dimensions: 230x330x20 mm

Position gauge for piston cooling nozzles on Type 6 engines, version C - PREV

| | | | |
|--------|--|---|---|
| 277247 | Position gauge for piston cooling nozzles on Type 6 engines, version C | For inspecting the position of the piston cooling nozzles |  |
|--------|--|---|---|


Weight: 6.6 kg
Dimensions: 220 x 280 x 560 mm
Application: This device is to be used according to the relevant instructions for the various engine types

Position gauge for piston cooling nozzles on Type 6 engines, version E - PREV

| | | | |
|--------|--|---|---|
| 285852 | Position gauge for piston cooling nozzles on Type 6 engines, version E | For inspecting the position of the piston cooling nozzles |  |
|--------|--|---|---|


Weight: 6.6 kg
Dimensions: 220 x 280 x 530 mm
Application: This device is to be used according to the relevant instructions for the various engine types

Assembly plate for big-end bolts - PREV

| | | | |
|--------|----------------------------------|-----------------------------------|---|
| 289936 | Assembly plate for big-end bolts | Aid for fitting the big-end bolts |  |
|--------|----------------------------------|-----------------------------------|---|


Weight: 2.0 kg
Dimensions: 280x220x10 mm

Cylinder liner extractor - PREV

| | | | |
|--------|--------------------------|--|---|
| 310580 | Cylinder liner extractor | Dismantling the cylinder liner from engine block |  |
|--------|--------------------------|--|---|


Weight: 11.6 kg
Dimensions: 260x360x840 mm

Holding-down tool for cylinder liner - PREV

| | | | |
|--------|--------------------------------------|--|--|
| 474145 | Holding-down tool for cylinder liner | For holding down the cylinder liner while positioning the crankshaft For holding down the cylinder liner while removing the pistons |  |
|--------|--------------------------------------|--|--|


Weight: 1.0 kg
Dimensions: 250x90x60mm
Application: Place on the cylinder head bolts and fix with hexagonal nut M30x2

Lifting tool for pistons - PREV

| | | | |
|---------|--------------------------|---|---|
| 9006995 | Lifting tool for pistons | For assembly and dismantling of aluminium and steel pistons |  |
|---------|--------------------------|---|---|


Weight: 3.4 kg
Dimensions: 240x240x190 mm

Insertion sleeve for pistons - PREV

| | | | |
|---------|------------------------------|---|---|
| 9016124 | Insertion sleeve for pistons | Tool for inserting Type 6 pistons into the cylinder liner with scraper ring |  |
|---------|------------------------------|---|---|


Weight: 2.8 kg
Dimensions: 220x220x100 mm

Locking screw for big-end bearing, short arm - PREV

| | | | |
|---------|--|--|---|
| 9017492 | Locking screw for big-end bearing, short arm | Fixing big-end bearing shells after separation of the conrod |  |
|---------|--|--|---|


Weight: 0.2 kg
Dimensions: 60x30x40 mm

Locking screw for big-end bearing, long arm - PREV

| | | | |
|---------|---|--|---|
| 9017200 | Locking screw for big-end bearing, long arm | Fixing big-end bearing shells after separation of the conrod |  |
|---------|---|--|---|


Weight: 0.2 kg
Dimensions: 60x30x40 mm

Positioning device for big-end bearing cap, Type 6 engines - PREV

| | | | |
|---------|--|--|---|
| 9017515 | Positioning device for big-end bearing cap, Type 6 engines | |  |
|---------|--|--|---|


Weight: 0.8 kg
Dimensions: 25 x 25 x 15 mm

Hydraulic cylinder - PREV

| | | | |
|---------|--------------------|-----------------------------------|---|
| 9020948 | Hydraulic cylinder | For pulling fixed cylinder liners |  |
|---------|--------------------|-----------------------------------|---|


Weight: 4 kg
Dimensions: 130x140x80 mm

Cylinder liner lifting tool - PREV

| | | | |
|---------|-----------------------------|--------------------------------|---|
| 1237183 | Cylinder liner lifting tool | For lifting the cylinder liner |  |
|---------|-----------------------------|--------------------------------|---|


Weight: 0.8 kg
Dimensions: 254 x 105 x 55 mm

Device for fitting conrods, 2-part - PREV

| | | | |
|--------|------------------------------------|----------------------------------|---|
| 660093 | Device for fitting conrods, 2-part | For removing pistons and conrods |  |
|--------|------------------------------------|----------------------------------|---|

Weight: 7.4 kg
Dimensions: 220x230x600 mm


Protective tube for Type 6 engines - PREV

| | | | |
|---------|---------------------------------|---|---|
| 9014392 | Protective tube, Type 6 engines | For protecting the crankpin while the conrod is removed |  |
|---------|---------------------------------|---|---|

Weight: 0.5 kg
Dimensions: 150 x 150 x 58 mm


8.3 Type 6 – Main bearing

Crankcase spreader - PREV

| | | | |
|---------|--------------------|---|---|
| 1205054 | Crankcase spreader | For spreading the crankcase in order to replace the main bearing shells in Type 6 engines |  |
|---------|--------------------|---|---|


Weight: 6.4 kg
Dimensions: 380x140x80 mm

Case - ACCY

| | | | |
|---------|------|--|---|
| 1208506 | Case | |  |
|---------|------|--|---|


Weight: 5.4 kg
Dimensions: 580x380x260 mm

Extension (125 mm, 1") - PREV

| | | | |
|---------|------------------------|---|---|
| 1208509 | Extension (125 mm, 1") | Extension for fitting and removing main bearing anchoring bolts |  |
|---------|------------------------|---|---|


Weight: 1.2 kg
Dimensions: 60x60x130 mm

Extension (210 mm, 1") - PREV

| | | | |
|---------|------------------------|---|---|
| 1208508 | Extension (210 mm, 1") | For fitting and removing main bearing anchoring bolts |  |
|---------|------------------------|---|---|


Weight: 1.6 kg
Dimensions: 60x60x210 mm

Foam insert - ACCY

| | | | |
|---------|-------------|---|--|
| 1209972 | Foam insert | Type 6, 624 engine main bearings tool kit |  |
|---------|-------------|---|--|


Weight: 0.4 kg
Dimensions: 560 x 360 x 240 mm

Multiplier, 3-part - PREV

| | | | |
|--------|--------------------|--|---|
| 344082 | Multiplier, 3-part | In order to mechanically produce high torques more easily or at all ⇒ main bearing anchoring bolts, flywheel extractor |  |
|--------|--------------------|--|---|


Weight: 6.2 kg
Dimensions: 280x130x110 mm

Hex bit socket (19 mm, 1") - PREV

| | | | |
|--------|----------------------------|---|--|
| 344084 | Hex bit socket (19 mm, 1") | For tightening the main bearing anchoring bolts |  |
|--------|----------------------------|---|--|


Weight: 0.8 kg
Dimensions: 50x50x90 mm

Main bearing removal tool - PREV

| | | | |
|---------|------------------------|-------------------------------------|---|
| 9023213 | Main bearing extractor | For removing the upper main bearing |  |
|---------|------------------------|-------------------------------------|---|


Weight: 0.07 kg
Dimensions: 189x50x18 mm

Nut for main-bearing tie-rod bolts - PREV

| | | | |
|---------|------------------------------------|---|---|
| 1208510 | Nut for main-bearing tie-rod bolts | For setting/releasing the tie-rod bolts |  |
|---------|------------------------------------|---|---|

Weight: --- kg
Dimensions: --- mm


Main bearing cap lowering device - PREV

| | | | |
|---------|----------------------------------|---|---|
| 9027878 | Main bearing cap lowering device | Simplifies lowering or lifting the main bearing cap into or out of the crankcase. |  |
|---------|----------------------------------|---|---|

Weight: 16 kg
Dimensions: 1300 x 320 x 235 mm

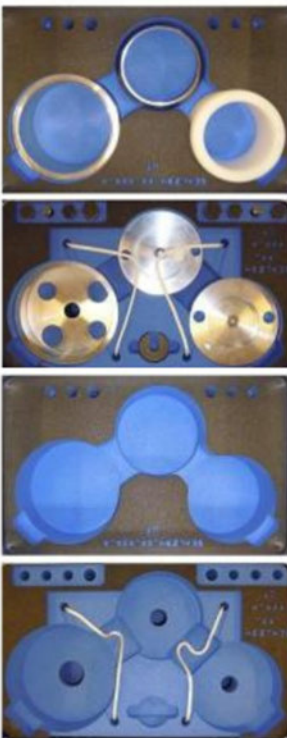
8.4 Type 2, 3, 4, 6 - Crankshaft seal

Case - ACCY

| | | | |
|---------|------|--|--|
| 1208506 | Case | |  |
|---------|------|--|--|

Weight: 5.4 kg
Dimensions: 580x380x260 mm


Foam insert - ACCY

| | | | |
|---------|-------------|--|---|
| 1209888 | Foam insert | Type 2, 3, 4, 6 engines - crankshaft seal tool kit |  |
|---------|-------------|--|---|

Weight: 0.4 kg


Dimensions: 560 x 360 x 240 mm

Stud M16x1.5 - PREV

| | | | |
|--------|--------------|--|---|
| 156911 | Stud M16x1.5 | For fitting and removing the flywheel as well as dampers |  |
|--------|--------------|--|---|


Weight: 0.6 kg
Dimensions: 20x20x150 mm

Assembly sleeve - PREV

| | | | |
|--------|-----------------|--|--|
| 285455 | Assembly sleeve | For fitting the Simmerring on the crankshaft |  |
|--------|-----------------|--|--|


Weight: 1.5 kg
Dimensions: 170x170x80 mm

PVC ring for pre-assembly - PREV

| | | | |
|--------|---------------------------|--|---|
| 315403 | PVC ring for pre-assembly | Expansion of the Simmerring to fit onto crankshaft |  |
|--------|---------------------------|--|---|

Weight: 1.3 kg
Dimensions: 170x170x120 mm




Assembly aid for fitting the crankshaft seal - Type 6 engines - PREV

| | | | |
|--------|--|--|---|
| 405724 | Assembly aid for fitting the shaft seal - Type 6 engines | For fitting the Simmering (⇒ usage in combination with assembly flange, assembly sleeve and spacer sleeve) |  |
|--------|--|--|---|


Weight: 10.00 kg

Dimensions: 200 x 200 x 200 mm

The assembly aid for fitting the crankshaft seal Type 6 consists of the following tools:

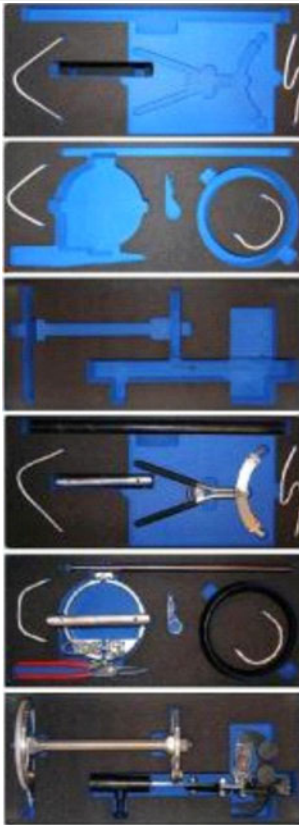
| | | | |
|---|------------------|---|---|
| - | Mounting bracket | For fitting the Simmering (⇒ usage in combination with assembly flange and assembly sleeve) |  |
| - | Assembly flange | Flange for pressing on the Simmering or spacer sleeve |  |
| - | Spacer sleeve | Spacer sleeve for fitting the Simmering |  |

8.5 Type 6 - Steel piston tool
Circlip pliers - PREV

| | | | |
|---------|----------------|-----------------------------------|---|
| 1203577 | Circlip pliers | For fitting and removing circlips |  |
|---------|----------------|-----------------------------------|---|


Weight: 0.6 kg
 Dimensions: 330x60x20 mm
 Details: Knipex J4
 Manufacturer part no.: 49 11 A2

Foam insert - ACCY

| | | | |
|---------|-------------|--|--|
| 1209973 | Foam insert | Type 6 engines - steel piston tool kit |  |
|---------|-------------|--|--|


Weight: 3.8 kg
 Dimensions: 760 x 360 x 310 mm

Piston ring pliers - PREV

| | | | |
|--------|--------------------|--|---|
| 194603 | Piston ring pliers | Fitting and removal of piston rings – Type 6 engines |  |
|--------|--------------------|--|---|


Weight: 0.8 kg
 Dimensions: 230x330x20 mm

Position gauge for piston cooling nozzles on Type 6 engines with steel pistons - PREV

| | | | |
|--------|--|---|---|
| 456563 | Position gauge for piston cooling nozzles on Type 6 engines with steel pistons | For inspecting the position of the piston cooling nozzles |  |
|--------|--|---|---|


Weight: 3.6 kg
 Dimensions: 540 x 280 x 220 mm
 Application: This device is to be used according to the relevant instructions for the various engine types

Device for fitting conrods, 2-part - PREV

| | | | |
|--------|------------------------------------|----------------------------------|--|
| 660093 | Device for fitting conrods, 2-part | For removing pistons and conrods |  |
|--------|------------------------------------|----------------------------------|--|


Weight: 7.4 kg
 Dimensions: 220x230x600 mm

Lifting tool for pistons - PREV

| | | | |
|---------|--------------------------|---|---|
| 9006995 | Lifting tool for pistons | For assembly and dismantling of aluminium and steel pistons |  |
|---------|--------------------------|---|---|

Weight: 3.4 kg
 Dimensions: 240x240x190 mm


Piston insertion sleeve - PREV

| | | | |
|---------|------------------------------|--|---|
| 9016126 | Insertion sleeve for pistons | Tool for inserting Type 6 steel pistons into the cylinder liner without scraper ring |  |
|---------|------------------------------|--|---|

Weight: 3.6 kg


Dimensions: 250x100 mm

Adapter ring for piston cooling nozzle adjustment device - PREV

| | | | |
|---------|--|---|---|
| 9020769 | Adapter ring for piston cooling nozzle adjustment device | For adapting the piston cooling nozzle adjustment device (456563) to the scraper ring version |  |
|---------|--|---|---|

Weight: 0.8 kg
Dimensions: 196 x 196 x 27 mm


Case - ACCY

| | | | |
|---------|------|--|--|
| 1210487 | Case | |  |
|---------|------|--|--|

Weight: 5.0 kg
Dimensions: 780x380x330 mm


8.6 Blow-by meter

Blow-by meter

| | | | |
|---------|---------------|--------------------------------|---|
| 1230601 | Blow-by meter | For measuring the blow-by flow |  |
|---------|---------------|--------------------------------|---|

Weight: 5.0 kg
Dimensions: 310 x 280 x 200 mm


Blow-by meter hose - PREV

| | | | |
|---------|--------------------|---|---|
| 1210773 | Blow-by meter hose | Hose for measuring the blow-by flow. Only for use with the blow-by meter. |  |
|---------|--------------------|---|---|

Weight: --- kg
Dimensions: --- mm


8.7 Types 6, 624 – Camshaft tool

Camshaft bearing fitting tool - CORR

| | | | |
|--------|-------------------------|---------------------------------------|---|
| 290008 | Camshaft sliding sleeve | For fitting and removing the camshaft |  |
|--------|-------------------------|---------------------------------------|---|


Weight: 4 kg
Dimensions: 270 x 105 x 105 mm

Twin-arm extractor - CORR

| | | | |
|---------|--------------------|----------------------------------|---|
| 1237323 | Twin-arm extractor | For removing the crankshaft gear |  |
|---------|--------------------|----------------------------------|---|

Weight: 3.1 kg
Dimensions: 250 x 250 x 50 mm
Details: Firm of KUKKO, size 20-3, span width/depth 250/200


Camshaft bearing fitting tool - CORR

| | | | |
|---------|-------------------------------|---|---|
| 9024088 | Camshaft bearing fitting tool | For pressing the camshaft bearing bushes in and out |  |
|---------|-------------------------------|---|---|

Weight: --- kg
Dimensions: --- mm


8.8 Type 6 - Prechamber removal

Spark plug sleeve adapter M35x1.5 - PREV

| | | | |
|--------|-----------------------------------|---|---|
| 303388 | Spark plug sleeve adapter M35x1.5 | Adapter for spark plug sleeves of various designs |  |
|--------|-----------------------------------|---|---|


Weight: 0.2 kg
Dimensions: 40x40x40 mm

Valve spring removal tool - PREV

| | | | |
|--------|---------------------------|---|--|
| 317585 | Valve spring removal tool | For removing valve springs by pressing down on the valve head |  |
|--------|---------------------------|---|--|


Weight: 2.2 kg
Dimensions: 200x60x120 mm

Spark plug sleeve adapter M36x1.5 - PREV

| | | | |
|---------|-----------------------------------|---|---|
| 7002321 | Spark plug sleeve adapter M36x1.5 | Adapter for spark plug sleeves of various designs |  |
|---------|-----------------------------------|---|---|


Weight: 0.2 kg
Dimensions: 40x40x40 mm

Spark plug sleeve adapter M42x2 - PREV

| | | | |
|--------|---------------------------------|---|---|
| 567458 | Spark plug sleeve adapter M42x2 | Adapter for spark plug sleeves of various designs |  |
|--------|---------------------------------|---|---|

Weight: 0.2 kg
Dimensions: 50x50x40 mm


Prechamber removal power tool - PREV

| | | | |
|---------|-------------------------------|---------------------------------|---|
| 9003104 | Prechamber removal power tool | For removing jammed prechambers |  |
|---------|-------------------------------|---------------------------------|---|

Weight: 7.8 kg

Dimensions: 425x75x75 mm


Prechamber gas valve removal tool - PREV

| | | | |
|---------|-----------------------------------|------------------------------------|---|
| 9013489 | Prechamber gas valve removal tool | For removing prechamber gas valves |  |
|---------|-----------------------------------|------------------------------------|---|

Weight: 0.2 kg

Dimensions: 400x15x15 mm


Spark plug sleeve adapter M48 x 1 - PREV

| | | | |
|---------|-----------------------------------|-------------------------------|---|
| 9023750 | Spark plug sleeve adapter M48 x 1 | Adapter for spark plug sleeve |  |
|---------|-----------------------------------|-------------------------------|---|

Weight: 0.32 kg

Dimensions: 48 x 48 x 35 mm


Spark plug sleeve seat lapping tool ("F" cylinder heads) - PREV

| | | | |
|---------|--|--|--|
| 1241846 | Spark plug sleeve seat lapping tool ("F" cylinder heads) | For lapping the spark plug seat Incl. 100 sanding pads 100 grit |  |
|---------|--|--|--|

Weight: --- kg

Dimensions: --- mm


Spark plug sleeve seat lapping tool ("H" cylinder heads) - PREV

| | | | |
|---------|--|--|---|
| 1242554 | Spark plug sleeve seat lapping tool ("H" cylinder heads) | For lapping the spark plug seat Incl. 100 sanding pads 100 grit |  |
|---------|--|--|---|

Weight: --- kg


Dimensions: --- mm

Spark-plug sleeve pretensioning tool - PREV

| | | | |
|---------|--------------------------------------|--|---|
| 9028131 | Spark-plug sleeve pretensioning tool | |  |
|---------|--------------------------------------|--|---|


Weight: --- kg
Dimensions: --- mm

Prechamber removal tool hammer - PREV

| | | | |
|---------|--------------------------------|---|---|
| 9004382 | Prechamber removal tool hammer | For removing the prechamber. Part of the prechamber removal device |  |
|---------|--------------------------------|---|---|


Weight: 2.7 kg
Dimensions: 220 x 60 x 60 mm

Prechamber removal device, universal joint - PREV

| | | | |
|---------|--|---|--|
| 9003554 | Prechamber removal tool, universal joint | For removing the prechamber. Part of the prechamber removal device |  |
|---------|--|---|--|

Weight: 0.1 kg
Dimensions: 60x60x60 mm

Prechamber extension device, extension - PREV

| | | | |
|---------|--|--|---|
| 9004381 | Prechamber extension device, extension | For removing the prechamber. Use with main part and universal joint. |  |
|---------|--|--|---|


Weight: 0.7 kg
Dimensions: 200x60x60 mm

8.9 Type 6 - Flywheel extractor (ITH)

Flywheel extractor - CORR







The complete kit includes all tools mentioned below. All tools with a part number can also be ordered as spare parts.



| | | | |
|------------------------|--------------------|--|---|
| Part number on request | Flywheel extractor | |  |
|------------------------|--------------------|--|---|

Weight: 76 kg
Dimensions: 930 x 515 x 245 mm


The flywheel extractor consists of the following tools:

| | | | |
|---|-----------------------------------|---|---|
| - | High-pressure hand pump, 2500 bar | For building up pressure in the extension tube Weight: 12.1 kg Dimensions: 870x270x240 mm |  |
| - | Bolt tensioner | Hydraulic cylinder for fitting the flywheel Weight: 11.5 kg Dimensions: 250 x 220 x 140 mm |  |
| - | Extension tube G1/4 | Extension for building pressure in the hydraulic coil of the flange on the crankshaft Weight: 1.0 kg Dimensions: 30 x 30 x 360 mm |  |
| - | Hydraulic hose, 2 metres/2500 bar | Connecting hose from pump to extension tube Weight: 1.8 kg Dimensions: 30x30x2000 mm |  |

| | | | |
|---|--------------------------------------|--|---|
| - | Slotted capstan nut, M42 | Weight: 0.3 kg Dimensions: 70x70x30 mm |  |
| - | Ratchet 1/2" | For screwing the bolt-tensioners on to the cylinder head bolts Weight: 1.2 kg Dimensions: 260x40x40 mm Details: Proxxon 1/2" ratchet wrench Manufacturer part no.: NO 23 334 |  |
| - | Positioning plate for Type 6 engines | Weight: 0.5 kg Dimensions: 80 x 80 x 50 mm |  |
| - | Positioning plate For J624 | Weight: 0.5 kg Dimensions: 80 x 80 x 50 mm |  |
| - | Dial gauge | For measuring the installation position of the flywheel Weight: 0.2 kg Dimensions: 130x60x30 mm |  |
| - | Adapter for dial gauge | Extension of the dial gauge for measuring the installation position of the flywheel |  |


| | | | |
|---|--|--|---|
| - | Sleeve for shaft seal, Type 6 engines | Assembly aid for installing the shaft seal Weight: 1.3 kg Dimensions: 200 x 200 x 120 mm |  |
| - | Sleeve for shaft seal, J624 engines | Assembly aid for installing the shaft seal Weight: 1.3 kg Dimensions: 200 x 200 x 120 mm |  |

Punch 6 mm - PREV

| | | | |
|---------|------------|---|--|
| 1209981 | Punch 6 mm | For hand-tightening the round capstan nuts on the cylinder head and main bearing |  |
|---------|------------|---|--|

Weight: 0.4 kg
Dimensions: 210 x 30 x 30 mm
Manufacturer / No.: FACOM / 539915

High-pressure hand pump, 1350 bar - PREV


| | | | |
|--------|--------------------------------------|--|---|
| 426575 | High-pressure hand pump, 1350 bar | For building up pressure for the bolt-tensioner |  |
|--------|--------------------------------------|--|---|

Weight: 9.2 kg
Dimensions: 620x260x240 mm




The following parts are **not** included in the complete kit. These tools must be ordered separately.

High-pressure hose, 3 m - PREV

| | | | |
|--------|-------------------------|--|---|
| 426579 | High-pressure hose, 3 m | Connecting hose from the pump to the distributor |  |
|--------|-------------------------|--|---|

Weight: 2.4 kg
Dimensions: 30x30x3000 mm

Face spanner - PREV

| | | | |
|---------|--------------|--|---|
| 1209979 | Face spanner | For opening the bolt-tensioners for replacing the adapter bushings |  |
|---------|--------------|--|---|

Weight: 0.8 kg
Dimensions: 220x40x20 mm

8.10 Type 6 - Gear train

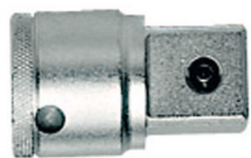
Gear train complete kit - CORR

| | | | |
|-----|----------------------|--|--|
| --- | Gear train hand tool | | |
|-----|----------------------|--|--|

Weight: 16 kg
Dimensions: 1300 x 400 x 100 mm
Additional information: No part number is available for this tool kit. Please order the tools according to the specifications below.


The gear train complete kit consists of the following tools:

Increasing adapter 3/4"⇒1" - CORR

| | | | |
|---------|----------------------------|---|---|
| 1247842 | Increasing adapter 3/4"⇒1" | Can be added to flywheel extractor as required. |  |
|---------|----------------------------|---|---|


Weight: 0.1 kg
Dimensions: 200x60x120 mm

Multiplier, 3-part - PREV

| | | | |
|--------|--------------------|--|---|
| 344082 | Multiplier, 3-part | In order to mechanically produce high torques more easily or at all ⇒ main bearing anchoring bolts, flywheel extractor |  |
|--------|--------------------|--|---|

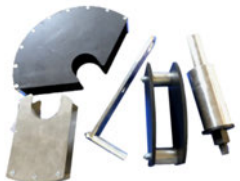
Weight: 6.2 kg
Dimensions: 280x130x110 mm

Camshaft idler gear assembly tool - CORR

| | | | |
|---------|-----------------------------------|---|--|
| 7003805 | Camshaft idler gear assembly tool | For fitting the camshaft idler gear in the gear train |  |
|---------|-----------------------------------|---|--|


Weight: --- kg
Dimensions: --- mm

Oil pump idler gear assembly tool - CORR

| | | | |
|---------|-----------------------------------|---|---|
| 8000080 | Oil pump idler gear assembly tool | For fitting the oil pump idler gear in the gear train |  |
|---------|-----------------------------------|---|---|


Weight: --- kg
Dimensions: --- mm

Hydraulic three-arm puller - CORR

| | | | |
|---------|----------------------------|------------------------------------|---|
| 1235485 | Hydraulic three-arm puller | For removal of the crankshaft gear |  |
|---------|----------------------------|------------------------------------|---|


Weight: 12.6 kg
Dimensions: 670x260x260 mm

Twin-arm extractor - CORR

| | | | |
|---------|--------------------|----------------------------------|--|
| 1237323 | Twin-arm extractor | For removing the crankshaft gear |  |
|---------|--------------------|----------------------------------|--|


Weight: 3.1 kg
Dimensions: 250 x 250 x 50 mm
Details: Firm of KUKKO, size 20-3, span width/depth 250/200

Slotted nut socket M80 - CORR

| | | | |
|---------|------------------------|--|---|
| 1215801 | Slotted nut socket M80 | |  |
|---------|------------------------|--|---|


Weight: 1.8 kg
Dimensions: 65x125x125 mm

Slotted nut socket M45 - CORR

| | | | |
|---------|------------------------|--|---|
| 1215800 | Slotted nut socket M45 | |  |
|---------|------------------------|--|---|


Weight: 1.0 kg
Dimensions: 65x77x77 mm

Torque spanner, 1" 350-800 Nm - PREV

| | | | |
|--------|----------------------------------|--|---|
| 152022 | Torque spanner, 1" 350-800 Nm | Can be added to flywheel extractor as required. |  |
|--------|----------------------------------|--|---|


Weight: 6.2 kg
Dimensions: 1300 x 100 x 100 mm

Torque spanner, 1" 75-400 Nm - PREV

| | | | |
|--------|---------------------------------|--|---|
| 414739 | Torque spanner, 1" 75-400 Nm | Can be added to flywheel extractor as required. |  |
|--------|---------------------------------|--|---|

Weight: 6.2 kg
Dimensions: 1300 x 100 x 100 mm


Hex bit socket (22 mm, 1")

| | | | |
|---------|-------------------------------|---|---|
| 1229999 | Hex bit socket (22 mm, 1") | Use on the wheel drive BR6/J624 or on BR9 systems |  |
|---------|-------------------------------|---|---|

Weight: 0.6 kg
Dimensions: 92x47x47 mm

8.11 Type 6 - Venturi ring removal tool


Venturi ring removal tool, Type 6 - PREV

| | | | |
|---------|-----------------------------------|---|---|
| 1215924 | Venturi ring removal tool, Type 6 | Extractor for the Venturi ring in the intake system |  |
|---------|-----------------------------------|---|---|

Weight: 13.2 kg
Dimensions: 400x400x900 mm



8.12 Types 6, 624 – Crane

Crane basic module - SISP

| | | | |
|---------|--------------------|--|--|
| 1232227 | Crane basic module | |  |
|---------|--------------------|--|--|


Weight: 140 kg
Dimensions: 1200x800x500 mm

The crane basic module consists of the following tools:

| | | | |
|---|-----------------|--|---|
| - | Column | Mounting piece for arm Weight: 27.5 kg Dimensions: 680x300x330 mm |  |
| - | Large lever arm | Connection between small lever arm and column Weight: 25 kg Dimensions: 810x300x160 mm |  |

| | | | |
|---|-----------------|--|--|
| - | Small lever arm | Mounting piece for chain hoist Weight: 12.6 kg Dimensions: 620x140x220 mm |  |
| - | Chain hoist | Lifting device for engine parts Weight: 20 kg Dimensions: 160x380x420 mm |  |
| - | Bolt | Connecting bolt from column to lever arm or lever arm to lever arm Weight: 3.4 kg Dimensions: 370x70x40 mm |  |
| - | Case | Dimensions: 1200 x 800 x 500 mm |  |


Mounting bracket - SISP

| | | | |
|---------|------------------|---------------------------------------|---|
| 9019243 | Mounting bracket | For attaching the crane to the engine |  |
|---------|------------------|---------------------------------------|---|

Weight: 48 kg
Dimensions: 603 x 374 x 240 mm

8.13 Roller tappet removal tool


Roller tappet guide removal tool - CORR

| | | | |
|---------|----------------------------------|--|---|
| 1243459 | Roller tappet guide removal tool | A hydraulic cylinder for pulling out the guide |  |
|---------|----------------------------------|--|---|

Weight: 23.2 kg
Dimensions: 980x420x160 mm
Remark: Replaces 1212412


8.14 Throttle valve bushing extractor

Face spanner - PREV

| | | | |
|---------|--------------|--|---|
| 1209979 | Face spanner | For opening the bolt-tensioners for replacing the adapter bushings |  |
|---------|--------------|--|---|

Weight: 0.8 kg
Dimensions: 220x40x20 mm

Throttle valve bushing extractor, Type 6 engines - CORR

| | | | |
|---------|--|--|---|
| 1211612 | Throttle valve bushing extractor, Type 6 engines | |  |
|---------|--|--|---|

Weight: 5.5 kg
Dimensions: 610 x 260 x 350 mm

8.15 Type 6 – Set of covers




The complete kit includes all tools mentioned below. All tools with a part number can also be ordered as spare parts.

Set of covers – Complete kit - PREV

| | | | |
|---------|------------------------------|----------------------------|--|
| 1247620 | Set of covers – Complete kit | Designed for a J624 engine | |
|---------|------------------------------|----------------------------|--|


Weight: --- kg
Dimensions: --- mm

Case - ACCY

| | | | |
|---------|------|--|---|
| 1247381 | Case | Aluminium box for covers, "Set Power Unit BR6" |  |
|---------|------|--|---|


Weight: 6.9 kg
Dimensions: 900x490x380 mm (140 litres)

Protective tube for Type 6 engines - PREV

| | | | |
|---------|---------------------------------|---|---|
| 9014392 | Protective tube, Type 6 engines | For protecting the crankpin while the conrod is removed |  |
|---------|---------------------------------|---|---|


Weight: 0.5 kg
Dimensions: 150 x 150 x 58 mm

Blanking plug, liner landing - PREV

| | | | |
|---------|-----------------------------|---|---|
| 9018694 | Blanking plug liner landing | For sealing the liner landing, to protect the crankshaft during cleaning of the water jacket's seating surface on the crankcase |  |
|---------|-----------------------------|---|---|

Weight: 0.8 kg
Dimensions: 254 x 105 x 55 mm


Stopper Set J624 - PREV

| | | | |
|---------|------------------|---|---|
| 1247143 | Stopper Set J624 | Consisting of part numbers: 1229311 – “C” – 48 pcs. 1226716 – “D” – 24 pcs. 1226717 – “E” – 96 pcs. Amount intended for a J624 engine |  |
|---------|------------------|---|---|

Weight: --- kg
Dimensions: --- mm


8.16 inspection plug / vent plug

Stopper Set J612 - PREV

| | | | |
|---------|------------------|---|--|
| 1247138 | Stopper Set J612 | Consisting of part numbers: 1229311 – “C” – 24 pcs. 1226716 – “D” – 12 pcs. 1226717 – “E” – 48 pcs. Amount intended for a J612 engine |  |
|---------|------------------|---|--|


Weight: --- kg
Dimensions: --- mm

Stopper Set J616 - PREV

| | | | |
|---------|------------------|---|---|
| 1247139 | Stopper Set J616 | Consisting of part numbers: 1229311 – “C” – 32 pcs. 1226716 – “D” – 16 pcs. 1226717 – “E” – 64 pcs. Amount intended for a J616 engine |  |
|---------|------------------|---|---|


Weight: --- kg
Dimensions: --- mm

Stopper Set J620 - PREV

| | | | |
|---------|------------------|---|---|
| 1247140 | Stopper Set J620 | Consisting of part numbers: 1229311 – “C” – 40 pcs. 1226716 – “D” – 20 pcs. 1226717 – “E” – 80 pcs. Amount intended for a J620 engine |  |
|---------|------------------|---|---|


Weight: --- kg
Dimensions: --- mm

Stopper Set J624 - PREV

| | | | |
|---------|------------------|---|---|
| 1247143 | Stopper Set J624 | Consisting of part numbers: 1229311 – “C” – 48 pcs. 1226716 – “D” – 24 pcs. 1226717 – “E” – 96 pcs. Amount intended for a J624 engine |  |
|---------|------------------|---|---|


Weight: --- kg
Dimensions: --- mm

Sealing plug C - PREV

| | | | |
|---------|----------------|--|--|
| 1229311 | Sealing plug C | for sealing the opening at the tappet bushing (2 per cylinder) |  |
|---------|----------------|--|--|


Weight: --- kg
Dimensions: --- mm

Sealing plug D - PREV

| | | | |
|---------|----------------|--|---|
| 1226716 | Sealing plug D | for sealing the opening in the combustion chamber (1 per cylinder) |  |
|---------|----------------|--|---|

Weight: --- kg
Dimensions: --- mm

Sealing plug E - PREV

| | | | |
|---------|----------------|--|---|
| 1226717 | Sealing plug E | for closing the opening in the oil and water inlets (4 per cylinder) |  |
|---------|----------------|--|---|

Weight: --- kg
Dimensions: --- mm

8.17 Combustion chamber cleaning

Combustion chamber cleaning consumables

| | | | |
|---------|---|--|--|
| 1242666 | Combustion chamber cleaning consumables | Abrasive and brushes for combustion chamber cleaning | |
|---------|---|--|--|

Weight: --- kg
Dimensions: --- mm


O-ring - CORR

| | | | |
|--------|--------|---|--|
| 376488 | O-ring | To protect against dirt contamination between piston and cylinder liner | |
|--------|--------|---|--|

Weight: --- kg
Dimensions: --- mm


8.18 Single tools

Accumulator pump for ITH hydraulic system - PREV

| | | | |
|---------|---|---|---|
| 1241906 | Accumulator pump for ITH hydraulic system | For building up pressure for the bolt-tensioner |  |
|---------|---|---|---|


Weight: 14.6 kg
Dimensions: 365x240x470 mm

Torque screwdriver - PREV

| | | | |
|---------|--------------------|---|---|
| 1242516 | Torque screwdriver | For bolting the generator coupling ring |  |
|---------|--------------------|---|---|


Weight: 7.7 kg
Dimensions: 560 x 265 x 455 mm

Turning device - PREV

| | | | |
|---------|----------------|-------------------------------------|---|
| 1234890 | Turning device | For turning the crankshaft manually |  |
|---------|----------------|-------------------------------------|---|

Weight: 8 kg
Dimensions: 341 x 300 x 156 mm

Hydraulic lifting cylinder - PREV

| | | | |
|---------|----------------------------|------------------------------|---|
| 1235972 | Hydraulic lifting cylinder | For lifting of various loads |  |
|---------|----------------------------|------------------------------|---|


Weight: 25.2 kg
Dimensions: 360x210x430 mm

Coupling element replacement tool - CORR

| | | | |
|---------|-----------------------------------|--|--|
| 9029785 | Coupling element replacement tool | for replacing coupling elements, particularly for jammed parts | |
|---------|-----------------------------------|--|--|


Weight: --- kg
Dimensions: --- mm

O-ring press-in tool - CORR

| | | | |
|--------|----------------------|---|---|
| 605953 | O-ring press-in tool | For pressing the moulded gasket into the rocker cover |  |
|--------|----------------------|---|---|

Weight: --- kg
Dimensions: --- mm

Bolt-tensioner, four-part, M33 x 2 - PREV

| | | | |
|---------|------------------------------------|---|--|
| 1241908 | Bolt-tensioner, four-part, M33 x 2 | For tensioning the main bearing reduced-shaft bolts |  |
|---------|------------------------------------|---|--|



Weight: 6.8 kg
Dimensions: 140 x 160 x 210 mm

Support plate package for "weak" cylinder heads - PREV


| | | | |
|---------|---|--|--|
| 1237463 | Support plate package for "weak" cylinder heads | For force distribution in cylinder heads at risk of breaking off | |
|---------|---|--|--|

Weight: --- kg
Dimensions: --- mm

The support plate package for "weak" cylinder heads consists of the following parts:


| | | | |
|---|-----------------------------|--|---|
| - | Plate | |  |
| - | 4 shortened support sleeves | |  |

Vibration measuring instrument - CORR

| | | | |
|---------|--------------------------------|---------------------------|---|
| 1238948 | Vibration measuring instrument | For measuring vibrations. |  |
|---------|--------------------------------|---------------------------|---|


Weight: 2.0 kg
Dimensions: 500x300x150 mm

Shaft alignment laser device - PREV

| | | | |
|---------|------------------------------|--|--|
| 1235971 | Shaft alignment laser device | For aligning of the shaft - Generator-gearbox-engine |  |
|---------|------------------------------|--|--|


Weight: 7.8 kg
Dimensions: 520x420x190 mm

Scraper ring removal tool - PREV

| | | | |
|---------|---------------------------|------------------------------------|---|
| 9014095 | Scraper ring removal tool | for pressing out the scraper rings |  |
|---------|---------------------------|------------------------------------|---|

Weight: --- kg
Dimensions: --- mm


Torque wrench for tie bolts - PREV

| | | | |
|---------|-----------------------------|--|---|
| 1243235 | Torque wrench for tie bolts | For fitting and undoing the lateral tie bolts on Type 6 and J624 engines |  |
|---------|-----------------------------|--|---|

Weight: --- kg

Dimensions: --- mm

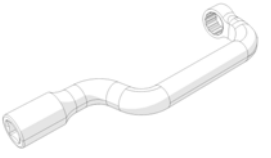
Mixture cooler lifting plate - PREV

| | | | |
|---------|------------------------------|--|---|
| 1235264 | Mixture cooler lifting plate | For lifting the mixture cooler on a Type 6 engine at its centre of gravity |  |
|---------|------------------------------|--|---|

Weight: 5.0 kg

Dimensions: 560 x 122 x 68 mm


Ring spanner attachment for prechamber nut - PREV

| | | | |
|---------|--|--|---|
| 1246988 | Ring spanner attachment for screwing the prechamber retainer | For loosening/tightening the prechamber gland without tilt lever disassembly |  |
|---------|--|--|---|

Weight: --- kg

Dimensions: 205x 62x 25 mm


Magnetic cover - PREV

| | | | |
|---------|----------------|---|---|
| 9031242 | Magnetic cover | For covering the side crankcase openings, engine type 6 |  |
|---------|----------------|---|---|

Weight: 0.2 kg

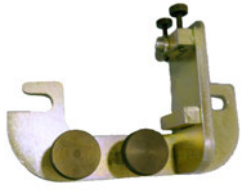
Dimensions: 280 x 280 x 1 mm

Bearing removal tool TecJet - PREV

| | | | |
|---------|-----------------------------|--------------------------------------|---|
| 1242638 | Bearing removal tool TecJet | To remove the bearings of the TecJet |  |
|---------|-----------------------------|--------------------------------------|---|

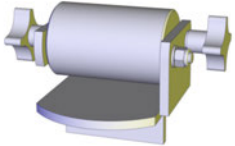
Weight: -- kg

Dimensions: -- x -- x -- mm

| | | | |
|---------|---------------------------|--|---|
| 1247921 | Conrod ejection rod clamp | for clamping the conrod lever assembly when replacing the big-end bearing shells on type 612, 616 and 620 engines (without removing the cylinder head) |  |
|---------|---------------------------|--|---|

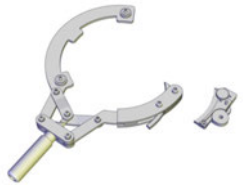
8.18.1 Type 6 engines - piston cleaning tool

Piston bracket for Type 6 engines - CORR

| | | | |
|---------|-----------------------------------|---|---|
| 7004555 | Piston bracket for Type 6 engines | For securing the piston while the groove is being cleaned |  |
|---------|-----------------------------------|---|---|

Weight: 9.1 kg
Dimensions: 242 x 190 x 160 mm


Piston ring groove cleaning tool for Type 6 engines - CORR

| | | | |
|---------|---|-------------------------------------|---|
| 7004556 | Piston ring groove cleaning tool for Type 6 engines | For cleaning the piston ring groove |  |
|---------|---|-------------------------------------|---|

Weight: 5.1 kg
Dimensions: 380 x 250 x 45 mm


8.18.2 Type 6 engines - version C

Jacking equipment set for Type 6 engines, version C - PREV

| | | | |
|---------|---|--|---|
| 7004451 | Jacking equipment set for Type 6 engines, version C | For jacking up Type 6 engines, version C, when replacing the main bearings |  |
|---------|---|--|---|


Weight: 280 kg
Dimensions: 1200 x 800 x 500 mm

2-part rod for fitting conrods, Type 6C engines - PREV

| | | | |
|--------|---|---|---|
| 660094 | 2-part rod for fitting conrods, Type 6C engines | For removing aluminium pistons and conrods from Type 6C engines |  |
|--------|---|---|---|

Weight: 7.4 kg
Dimensions: 220 x 230 x 600 mm

Support sleeve M30 x 2 for main bearing - PREV

| | | | |
|---------|------------------------|--|---|
| 1223400 | Support sleeve M30 x 2 | Replaceable support sleeve (bolt-tensioner) for main bearing reduced-shaft bolts, version 6C |  |
|---------|------------------------|--|---|

Weight: 2.0 kg
Dimensions: 90 x 90 x 50 mm

Exchange bushing, long M30x2 - PREV

| | | | |
|------|------------------------------|--|--|
| ---- | Exchange bushing, long M30x2 | Adapter bushing for bolt-tensioner for cylinder head bolts | |
|------|------------------------------|--|--|

Weight: --- kg
Dimensions: --- mm

8.18.3 Adapter for slotted capstan nut**Adapter - PREV**

| | | | |
|---------|---------|--|--|
| 9025143 | Adapter | Hose for slotted capstan nut adapter Part of the slotted capstan nut adapter assembly | |
|---------|---------|--|--|

Weight: --- kg
Dimensions: --- mm

set screw - PREV

| | | | |
|---------|-----------|--|--|
| 9025145 | Set screw | For securing the hose Part of the slotted capstan nut adapter | |
|---------|-----------|--|--|


Weight: 0.1 kg
Dimensions: 5 x 5 x 10 mm

Hose - PREV

| | | | |
|--------|------|--|--|
| 200593 | Hose | Part of the slotted capstan nut adapter assembly | |
|--------|------|--|--|


Weight: 0.1 kg
Dimensions: 50 x 50 x 100 mm

8.18.4 Spark plug tool**Extension magnet for reinforcing the spark plug socket wrench - PREV**

| | | | |
|---------|---|------------------------------|---|
| 1237586 | Extension magnet for reinforcing the spark plug socket wrench | Aid for removing spark plugs |  |
|---------|---|------------------------------|---|

Weight: 0.11 kg
Dimensions: 81.5 x 20 x 20 mm

Spark plug adjustment tool - PREV

| | | | |
|---------|----------------------------|--------------------------------|---|
| 9011882 | Spark plug adjustment tool | For adjusting P603 spark plugs |  |
|---------|----------------------------|--------------------------------|---|

Weight: --- kg
Dimensions: --- mm

8.18.5 Examination**Battery light source for borescope - PREV**

| | | | |
|---------|------------------------------------|---|--|
| 1248655 | Battery light source for borescope | alternative light source for borescope part no.: 1218442, wireless handling | |
|---------|------------------------------------|---|--|

Weight: -- kg
Dimensions: -- x -- x -- mm

Rigid borescope with LED - PREV

| | | | |
|---------|--------------------------|--|--|
| 1218442 | Rigid borescope with LED | for finding e.g. combustion chambers, incl. LED light source, camera and carrying case | |
|---------|--------------------------|--|--|

Weight: -- kg
Dimensions: -- x -- x -- mm

Videoscope - PREV

| | | | |
|---------|------------|--|--|
| 1248638 | Videoscope | For diagnostic purposes with interchangeable lens, 2 batteries and accessories in carrying case Alternatively part no.: 1226502 | |
|---------|------------|--|--|

Weight: -- kg
Dimensions: -- x -- x -- mm

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10 Revision code

Revision history

| Index | Date | Description / Revision summary | Expert Auditor |
|-------|------------|--|--|
| 11 | 28.11.2019 | 1242638, 9031242, 1247921 hinzugefügt / 1242638, 9031242, 1247921 added Kit „Befundung“ (1248655, 1218442, 1248638) in Einzelwerkzeuge ergänzt / Kit „Examination“ (1248655, 1218442, 1248638) in single tools added | Winterle H. <i>Winterle H.</i> |
| 10 | 29.03.2019 | Kategorisierung der Werkzeuge ergänzt / Categorization of tools added, Diverse kleine Anpassungen / Minor adaption, Kits „Power Unit“, „Hauptlager“, „Kurbelwellendichtung“, „Blow By Messgerät“, „Nockenwellenwerkzeug“, „Vorkammerausbau“, „Kran“, „Rädertrieb“, „Version C“ aktualisiert / Kits „Power Unit“, „Main bearing“, „Crankshaft seal“, „Blow-by meter“, „Camshaft tool“, „Prechamber removal“, „Crane“, „Gear train“, „Version C“ updated | Winterle H. <i>Winterle H.</i> |
| 9 | 12.10.2018 | 9027878 hinzugefügt / 9027878 added | Winterle H. <i>Winterle H.</i> |
| 8 | 29.06.2018 | Kits bei Einzelwerkzeuge, 9025145, 9025143, 200593, 9014095, 9014095, 9029785 und 1243235 hinzugefügt / Kits for single tools, 9025145, 9025143, 200593, 9014095, 9014095, 9029785 and 1243235 added | Winterle H. <i>Winterle H.</i> |
| 7 | 29.03.2018 | 1242516, 9024088, 605953, 9011882, 1241846, 1242554, 9028131, 1242666 und 376488 hinzugefügt / 1242516, 9024088, 605953, 9011882, 1241846, 1242554, 9028131, 1242666 and 376488 added | Winterle H. <i>Winterle H.</i> |
| 6 | 21.12.2017 | Diverse kleine Anpassungen, 1241906 und 1241908 hinzugefügt, Kit „Baureihe 6 - Schwungradabziehvorrichtung - ITH“ angepasst / Small adaption, 1241906 and 1241908 added, Kit „Type 6 - Flywheel extractor (ITH)“ adapted | Winterle H. <i>Winterle H.</i> |

