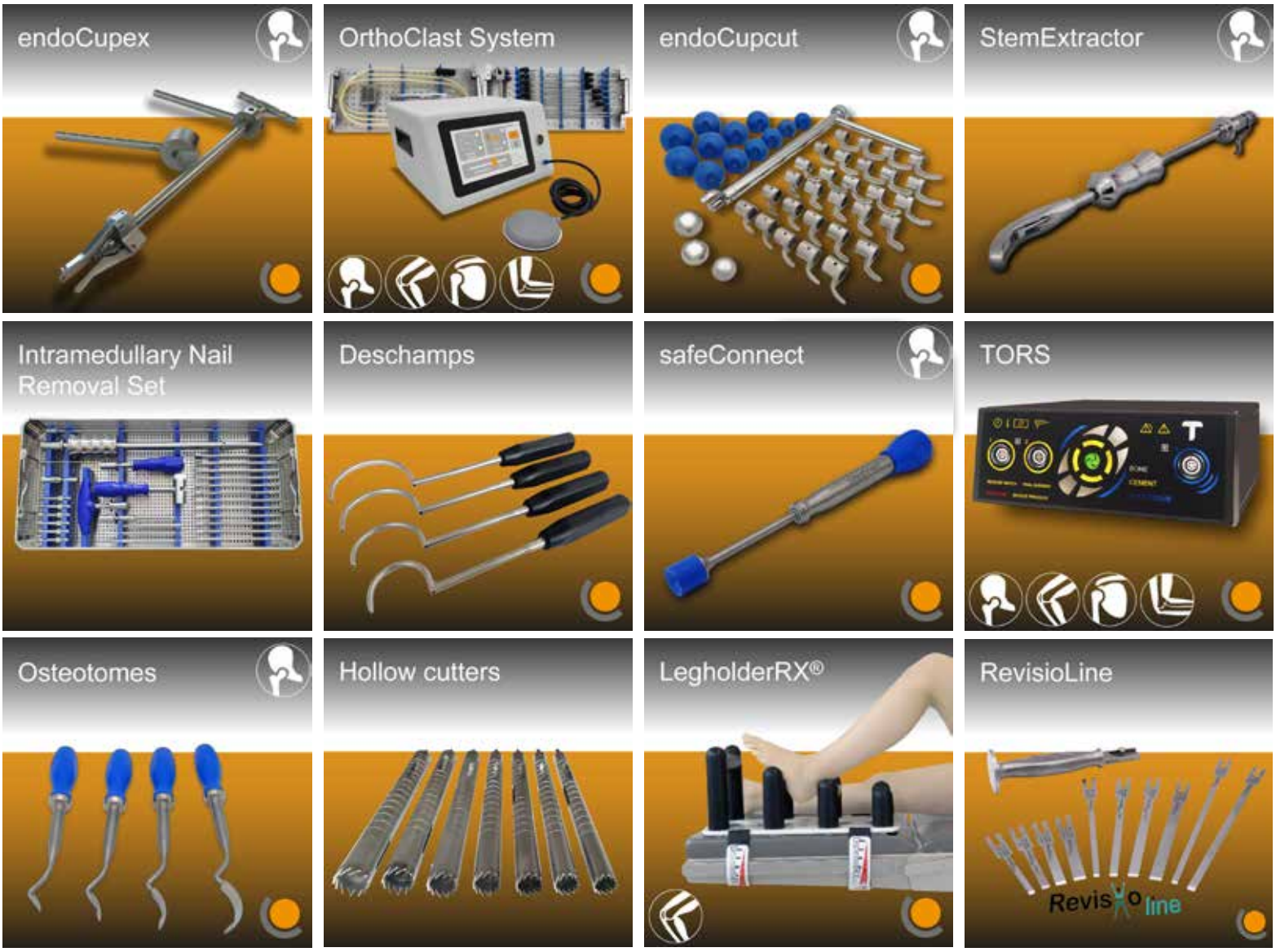


since 1998
25 years

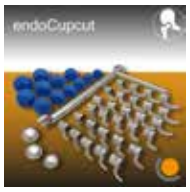
Product Catalog

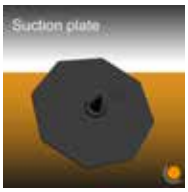
online issue 11.2024

Simplify Mobility

endocon





Our revision instruments are designed
independent of the manufacturer,
so we **cover around 98%** of all arthroplasty systems
available on the market.

Simplify Mobility

Primary and revision hip arthroplasty

Made in Germany

SPONSORED BY THE
Federal Ministry of Education and Research

safeConnect®

Safe impaction of taper junctions

Safe. Precise. Replicable.

safeConnect® - *impactor*

Safe impaction of conical connections

SPONSORED BY THE
Federal Ministry of Education and Research

The result of applying manual forces with a mallet to join taper junctions of femoral heads and cup inlays is a wide range of impaction forces.

This represents a potential risk for corrosion and micro motion at the taper junction. Current scientific studies show that a high and constant impact force has a significant impact on the joined tapers' safety.

Under continuous scientific evaluation a standardized impacting procedure has been developed which guarantees a replicable force application to the taper junctions of femoral heads and cup inlays. A new instrument replaces the mallet driven and manual impaction process.

safeConnect is the **essential instrument for primary** and **revision arthroplasty.**

Functional principle

The instrument is placed on the ball head or cup inlay and is manually pushed in the axial direction of the prosthesis. A mechanism is automatically triggered and releases a constant impulse to the components. As a result, the taper connection is connected by a precise and replicable force.

Advantages

- Standardized and safe procedure
- Precise and replicable application of impaction force
- One instrument for ball heads and cup inlays
- Simplified operation handling

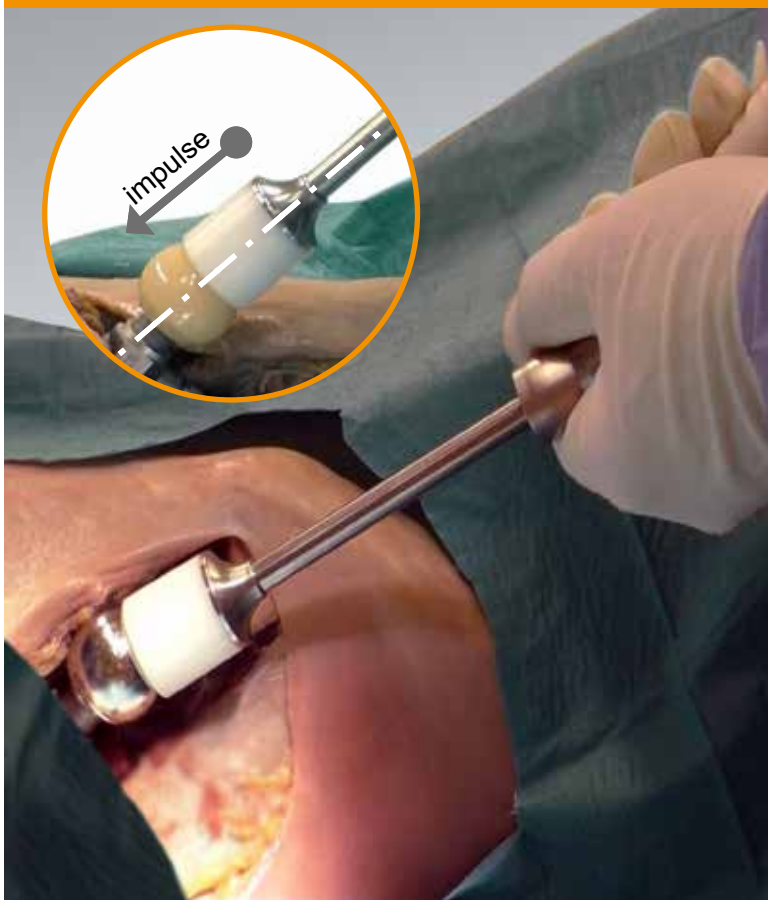
safeConnect - the ingenious innovation for hip arthroplasty

740126 Plunger for ceramic inlays
Accessory for loosening of fixed ceramic inlays and ball heads.

Worldwide patented product

Manufacturer:
endocon GmbH
In der Au 5 - 69257 Wiesenbach Germany

Safe.
Precise.
Replicable.

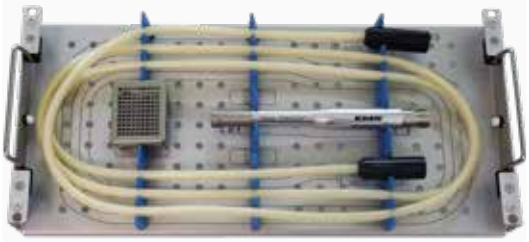


Equipment and accessories

Article	Reference
740000	safeConnect Set instrument with ball head / cup inlay adapter with diameter 28, 32 and 36 mm
740100	Instrument safeConnect
740120	Ball head attachment safeConnect
740124	Attachment Inlay Ø 22 mm safeConnect
740121	Attachment Inlay Ø 28 mm safeConnect
740122	Attachment Inlay Ø 32 mm safeConnect
740123	Attachment Inlay Ø36 mm safeConnect
740126	Ceramic-inlay tappet safeConnect

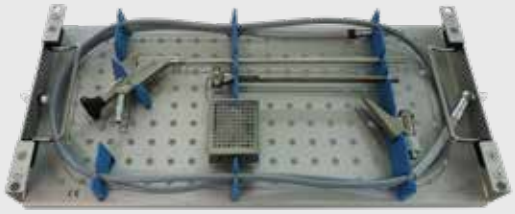
Number 1 for arthroplasty

Tray handpiece



Made in Germany
PREMIUM QUALITY

Tray OrthoScope



Tray cement removal

OrthoClast2® system

The no. 1 solution for cement removal and cementless prosthesis revisions

Precise. Efficient. Safe.



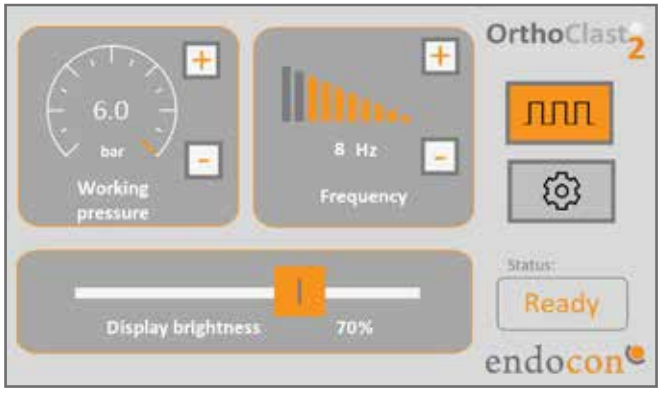


Chisel tip for cementless stem removal

Flexible chisel

- Working depth up to 190 mm
- Slim 5mm version for Wagner and ribbed shafts
- Pre-defined bone and prosthesis side
- Single-use chisel, multiple reprocessable

Cementless prosthesis revision with OrthoClast.



Revision of cementless prostheses

- *with pneumatic shock waves*

The removal of cementless prosthesis using the conventional technique with a transfemoral access mostly ends with a major damage of the bone. The OrthoClast System in combination with the flexible micro chisel preserves the bone stock and normally avoids the transfemoral access. The OrthoClast System works with a shock wave technology comparable with a pneumatic hammer.

Field of use

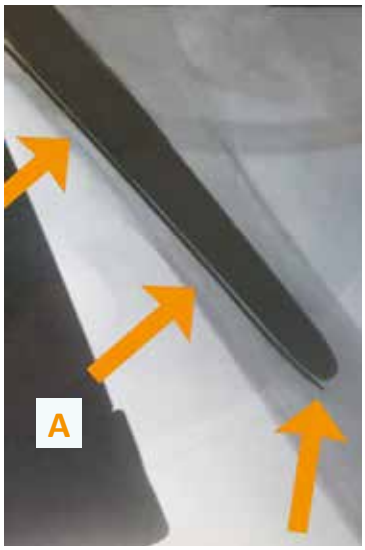
- Structured / unstructured prosthesis stem
- Septic / aseptic release of prosthesis stem
- Broken / damaged prosthesis stem
- Misaligned prosthesis stem
- Endo-Exo Femoral Prosthesis.

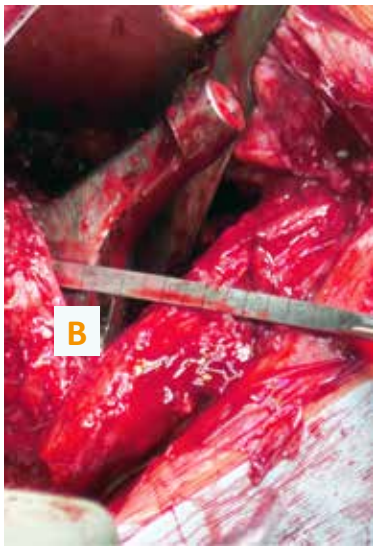
The OrthoClast handpiece works with a narrow, **flexible chisel** with a working depth of **up to 190 mm**.

- Dissection of the bone-prosthesis-interface
- **Controlled sliding of the flat chisel along (A) the prosthesis stem.** No bone perforations or fissures of the bone.
- Chisel with pre-defined bone and prosthesis side **(B)**
-

Advantages

- **No femoral fenestration**, minimal bone trauma
- **Controlled sliding** of the chisel, without bone perforation
- **Bone saving method to dissect** the bone-prosthesis-interface
- **Significant reduction of the operating time**





Steps of a conventional operation

Preparation of the femoral fenestration	*Manual exposure of the proximal prosthesis*	*Extraction of the prosthesis*	*Closing the femoral fenestration*	*Reimplantation*

*Steps of an operation using **OrthoClast***

with OrthoClast		
Dissection of the bone-prosthesis-interface	*Extraction of the prosthesis*	*Reimplantation*

Time reduction up to **60%**

Revision of cemented prostheses

using endoscopic view

The manual removal of bone cement during the cemented arthroplasty revision with conventional chisels is exhausting, imprecise and potentially full of complications. The OrthoClast System simplifies all processes, preserves the bone stock and normally avoids the fenestration.

Field of use

- Proximal bone cement removal for hip and knee revisions arthroplasty
- Medial and distal bone cement removal with endoscopic view
- Removal of the distal cement tip and the medullary plug with endoscopic view

This method is based on decades of experience in the development and application of pneumatically generated shock waves in the medical field.

Advantages

- **Endoscopic view** to the end of the medullary cavity
- **Precise and controlled guiding of the chisel**, significant reduced danger of cortical bone perforation
- Removal of cement by **saving the bone structure** all the way down to the bottom
- **Unimpaired, intact cortical bone**, no cerclages necessary
- **Minimal bone trauma**
- Significant **reduction of operation time**
- **Reduction of convalescence** period for the patient

Chisel tips for cement removal

Chisels

- Length 120 mm - 270 mm
- Straight and curved stems
- Negative and positive tips
- Reusable

Cement removal with OrthoClast and OrthoScope

Steps of a conventional operation

Proximal cement removal	*Extraction of the prosthesis*	*Proximal femoral cavity cement removal*	*Distal „blind" cement removal*	*Femoral fenestration*	*Removal of the distal cement tip and the medullary plug*	*Closing the fenestration*	*Reimplantation*

Steps of an operation using ***OrthoClast***

		with OrthoClast	*with OrthoScope*	*withOrthoScope*	
Proximal cement removal	*Extraction of the prosthesis*	*Proximal femoral cavity cement removal*	*Distal femoral cavity cement removal*	*Removal distal cement tip and medullary plug*	*Reimplantation*
			using endoscopic view		

Time reduction up to **40%**

OrthoClast System

Safety first with better operation results:

- Proper control of the chisel guidance
- Flexible micro chisel for cementless arthroplasty revision
- Chisels set for cement removal
- Significant operation time reduction
- Endoscopic controlled bone cement removal
- Reduction of intra and postoperative complications
- Reduction of convalescence period for the patient

Plunger for ceramic inlays FR-063

Function: for loosening and releasing fixed ceramic inlays and ball heads.

Specifications:

- Cup inlay (ceramic)
- Ball heads (all materials)

OrthoClast-Set

- Ergonomic handset
- Compact control unit
- Widespread chisel set

Individual, versatile chisels enable an effective and fast bone cement removal. The cement fragmentation is carried out without any heat development. No risk of thermal tissue damages and mechanical bone damages.

Separate chisel to dissect the bone-prosthesis-interface.

Technical data

Control unit

- Hospital compressed air supply
- Integrated waste air return system
- To be operated in sterile orthopaedic theatres

Handpiece

- No electrical connection to patient or surgeon

Extraction-Set

- Kirschner wire with drill tip
- Cannulated drill
- Cannulated extractor

These components complete the OrthoClast System. Precise positioning of the guiding Kirschner wire is ensured by the OrthoScope. Removal of the distal cement tip and the medullar plug is performed gently and safely. Therefore the transfemoral access is mostly obsolete. The cannulated instruments avoid an intra-femoral increase of pressure thus minimizing the risk of fat embolism and thrombosis.

Technical data

- Kirschner wire with drill tip, 450 mm
- Cannulated drill, 300 mm
- Cannulated extractor with T-handle, 400 mm

OrthoScope-Set

- Endoscope with integrated flushing and suction
- Integrated suction cannula
- Flushing valve on the optic tip

The invention of the OrthoScope rod-lens optical system with integrated flushing / suction is the vital breakthrough in bone cement removal. An adjustable suction cannula facilitates viewing even inside of heavily bleeding femoral cavities. The safe visual control of bone cement removal of the OrthoScope fulfils the highest demands in medical diagnostics.

Technical data

- Intra-femoral endoscope
- Viewing angle 25°, image angle 97°
- Stem dimension 8 mm x 5 mm, Length 260 mm
- Lens cleaning system with adjustable suction cannula

OrthoClast Generator

Cement tip extraction set

OrthoScope

OrthoClast® Basic set

FT-200
OrthoClast2® basic unit 230V

EH-078G
Pneumatic pedal OrthoClast2

EH-078
Pneumatic pedal OrthoClast

EL-147
Handpiece OrthoClast

EH-077-OC2
Handpiece tube FT-200 to EL-147

EH-077
Handpiece tube FT-118 to EL-147

SteriTray handpiece

Compressed air connection

FR-073
SteriTray handpiece with lid

20010260
Dräger Air-Motor air hose

20080261
4-Kant air hose

200xxxx Many models available!
Ask us for air hose specific adapted to your county standards

OrthoClast® Components for non cemented removal

FR-078 - SINGLE USE*
working length up to 160 mm, tip 7mm
Flexible microstructure chisel

FR-079 - SINGLE USE*
working length up to 190 mm, tip 7mm
Long flexible microstructure chisel

FR-077 - SINGLE USE*
working length up to 160 mm, thin tip (5mm). Flexible microstructure chisel
Suitable for Wagner and ribbed stems

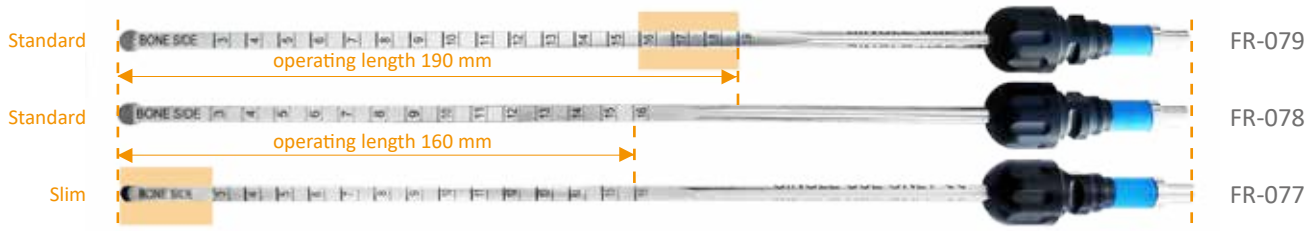
FR-062
Split mallet

FR-063

Plunger for ceramic inlay removal

FR-063
Plunger for ceramic inlay removal
Field of use: Cup, ceramic
OrthoClast setting: 1-shot

** Manufacturer's specification: Multiple reprocessable (sterilisable), SINGLE USE for application.*



OrthoClast® Cement removal module

FR-059	Chisels set		
	FR-047 Screwdriver tip Ø 5.00 mm, 120mm		FR-048 Short negative gouge tip Ø 4.0 mm, 200mm
	FR-049 Long positive gouge tip Ø 4.0 mm, 200mm		FR-050 Short negative gouge tip Ø 4.0 mm, 270mm
	FR-051 Short negative gouge tip Ø 3.2 mm, 270 mm		FR-052 Short negative gouge tip, curved shaft Ø 4.0 mm, 270mm
	FR-053 Long positive gouge tip Ø 3.2 mm, 270 mm		FR-054 Hollow screwdriver tip Ø 4.0 mm, 270mm
	FR-055 Screwdriver tip Ø 3.2 mm, 270 mm		FR-056 Long negative gouge tip Ø 3.2 mm, 270 mm
	FR-057 Long positive gouge tip, curved shaft Ø 4.0 mm, 270mm		FR-058 Long negative gouge tip, curved shaft Ø 4.0 mm, 270mm
FR-064	Set Extraction distal plug		
	FR-060 Canulated drill		FR-061 Extractor for distal plug
	FR-062 Split mallet		FR-069 Kirchner's wire 450 mm (2 units)
	FR-074 SteriTray chisels set with lid		

Manufacturer:
endocon GmbH
In der Au 5
69257 Wiesenbach Germany

OrthoScope® Full module endoscopic view

FR-046	Set OrthoScope®		
	FR-046/1 OrthoScope® optic		FR-046/2 Suction sheath
	FR-046/3 Standard flushing valve		FR-046/4 Valve cartridge, multiple use (one packing unit contains 5 pieces)
	FR-046/6 Flexible light guide		FR-046/7 Set of tube adaptors (4 pieces)
	FR-046/8 Cleaning brush (packing unit contains 3 pieces)		FR-072 SteriTray OrthoScope® with lid
FR-096	Set Coaxial flushing valve		
	FR-046/10 Coaxial flushing valve		BC-157 O-Rings (one packing unit contains 2 pieces)
	BE-016 Silicones for FR-046/10 (one packing unit contains 5 pieces)		FR-046/9 O-Rings (one packing unit contains 2 pieces)
	DV-038 Suction canula, sterile, single use (one packing unit contains 5 pieces)		

Manufacturer:
endocon GmbH
In der Au 5
69257 Wiesenbach Germany

The most efficient technology using ultrasound

EU Authorized Representative
endocon

TORS

Ultrasound instrument for revision of endoprostheses.

For removing bone cement.





TORS - *Bone cement removal*

TORS is currently the newest and most modern system for bone cement removal. The use of innovative technologies and modern techniques enable a significantly more effective, gentler and safer bone cement removal than comparable systems on the market.

The new designed probes increase the effectiveness of the cement removal and thus the saving of operating theatre working time. The technically well-engineered system convinces with an extremely stable functional performance, as well as an easy and comfortable handling.

SOFT TISSUE SET

The new soft tissue scalpel works by means of an ultrasound-based procedure that enables haemostatic skin and muscle incisions equivalent to monopolar diathermy. However, the temperature development is significantly reduced, therefore correspondingly gentler and thus enables significantly better bleeding control.

T1T1TT
TORS soft tissue dissector

T1T1FT
TORS foot switch for Soft Tissue

Optionen, Ersatzteile

T1T1G
TORS Generator mit Netzkabel.

T1T1CC
TORS Anschlusskabel Zementhandstück

T1T1CT
TORS Handstück Zemententfernung.

T1T1FC
TORS Fußschalter Zementhandstück.

T1P4R2
TORS Bohrer Sonde 200 Ø4 mm

T1P6R1
TORS Bohrer Sonde 100 Ø6 mm

T1P6R2
TORS Bohrer Sonde 200 Ø6 mm

T1P8R1
TORS Bohrer Sonde 100 Ø8 mm

T1P8R2
TORS Bohrer Sonde 200 Ø8 mm

T1P10R2
TORS Bohrer Sonde 200 Ø10 mm

T1S6R1
TORS Schaber Sonde 100 Ø6 mm

T1S6R2
TORS Schaber Sonde 200 Ø6 mm

T1S8R1
TORS Schaber Sonde 100 Ø8 mm

T1S8R2
TORS Schaber Sonde 200 Ø8 mm

T1S10R2
TORS Schaber Sonde 200 Ø10 mm

T1ECR1
TORS Verlängerungsstück Sonde gebogen

T1ESR2
TORS Verlängerungsstück Sonde gerade 132mm

T1ESR1
TORS Verlängerungsstück Sonde gerade 90mm

T1T1CW
TORS Sonden-Reinigungspatrone

T1T1AH
TORS Handstückaufnahme STERIL - SU

T1T1AT
TORS Sterilisationssieb

T1T1SM
TORS TORS Einlage Sterilisationssieb

T1T1S
TORS Gabelschlüssel SW 9

T1T1TT
TORS Handstück Soft Tissue

T1T1FT
TORS Fußschalter Soft Tissue

Tip! Individual instrument development!

Do you have any change requests?
... or your own ideas and suggestions for solutions?

We are specialised in the ***development of instruments***
and manufacture them in our own factory,
even in very small quantities. Do not hesitate to contact us!

Cup-Instruments

endoCupex - *Acetabular cup extractor*

Universal instrument for the removal of threaded cups, cemented and cementless acetabular cups

Quick to learn.
Easy handling.
Flexible.

The all-rounder for multiple applications by stepless spreading and solid wedging in the acetabular cup.
Suitable for all cup sizes.

Universally applicable for the removal of:

- **Threaded cups** / threaded rings
- Press-Fit cups
- Cemented PE cups
- PE inlays

Advantages

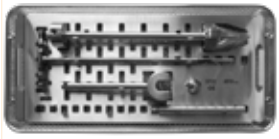
- **All sizes of implants** can be covered reliably with only one instrument
- Costs-profitable solution for a **wide range of applications**
- **Manufacturer independent** acetabular cup replacement instrument
- Accelerates the revision-operation and increases the efficiency of the operation cycle

Technical specifications of the span

- Minimal inside diameter 24.4 mm
- Maximum inside diameter 72 mm

endoCupex eases and accelerates the removal of the cup.

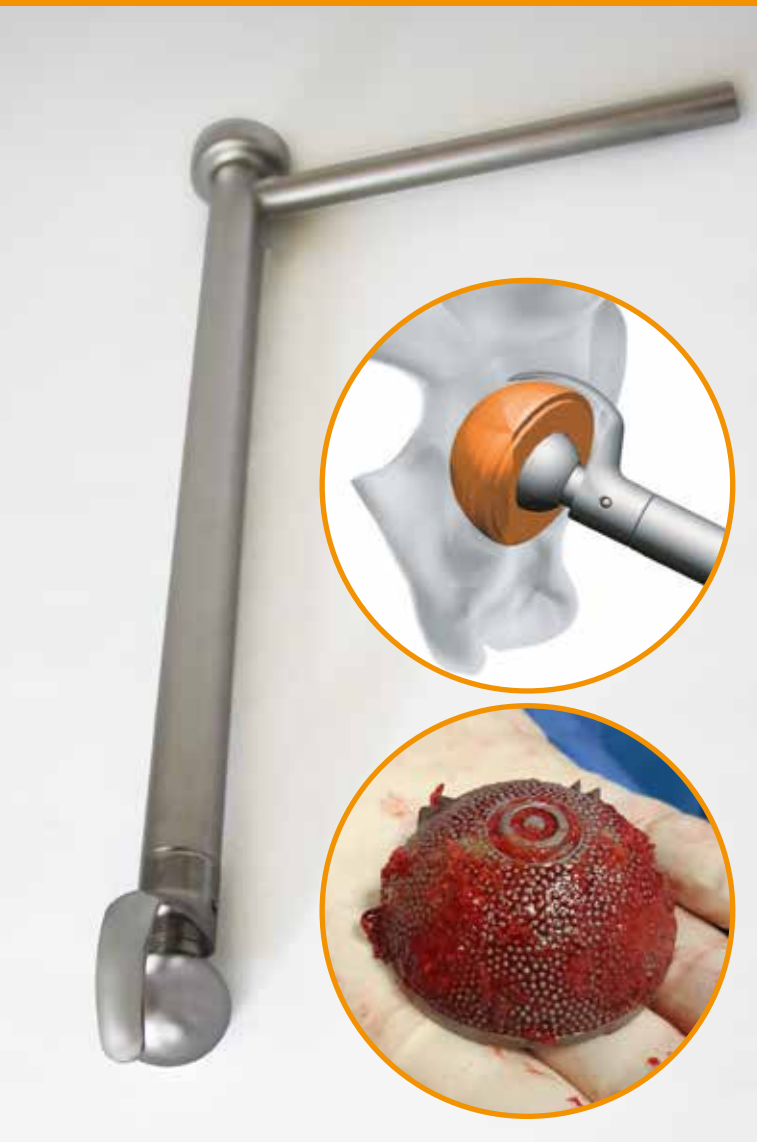
Options, spare parts

	780900 **endoCupex Professional set** Main instrument with T-handle, handle, cone and slot hammer, system tray (sieve insert and basket)		780913 endoCupex main instrument endoCupex with T-handle, handle, cone and slot hammer without system tray
780901	Main instrument endoCupex	780912	Slot mallet endoCupex
780907	Cone endoCupex	780922	T-handle endoCupex
780911	Handle endoCupex	780913	Complete instrument - without tray

endoCupcut - *Acetabular cup cutter*

Universal instrument for the emoval of cementless acetabular cups

Gentle with the bones.
Time saving.
Indispensable.



The modular system includes all cutter sizes for a convenient cup removal. The quick and safe extraction reduces the operation time. The spherical cutter permits a precise and gentle bone incision along the acetabular rim to the bottom of the cup. The minor bone damage permits a fast convalescence.

- Blades inserts wear-resistant and reusable
- 15 different blades for a cup diameter of 44 up to 72 mm
- 15 short blades as pre-cutting blades
- Various ball heads diameter guarantees for perfect centering of the instrument in the cup inlay

Advantages

- Sophisticated precision technology for profitable applications
- **Short convalescence time** for the patient and shorter operation cycles
- **Reduced investment costs** due to a single modular system
- **Manufacturer independent** acetabular cup instrument

endoCupcut for a bone gentle treatment by the acetabular cup removal.

Optional kit ball-shaped heads

- Accessories for the revision of surface replacement prostheses, Duo Mobility cups and for use with damaged / removed inlays.
- Precision-fit ball heads in sizes 38 to 60mm

endoCupcut small tray

endoCupcut Professional

That's why the endoCupcut system is the right choice:

The blades of the endoCupcut are designed to allow a precise cut along the profile of the cup. The double curvature of the blade (longitudinal and transversal) guarantees a close-fitting cut with minimal bone loss.

Experienced surgeons report cup revisions in which the same cup size has been used again.

The endoCupcut is described by experienced users as "the Ferrari" among the cup cuttingng systems.

Options and spare parts


780992
endoCupcut Professional set
Main tool endoCupcut; 3 ball heads 28, 32 and 36 mm; 15 short blades and 15 long blades size 44 up to 72 mm; Set ball-heads for surface replacement with 12 heads 38 up to 60 mm; Disassembling handle; Spread over 2 trays, both with sieve insert and basket.


780990
endoCupcut Medium set
Main tool endoCupcut; 3 ball heads 28, 32 and 36 mm; 15 short blades and 15 long blades size 44 up to 72 mm; Disassembling handle ; Spread over 2 trays, both with sieve insert and basket.

780994
endoCupcut Small set
Main tool endoCupcut; 3 ball heads 28, 32 and 36 mm; 7 short blades and 7 long blades size 48 up to 60 mm; Disassembling handle; Tray with sieve insert and basket.

780930
Handle with holder

Resharpening service!
We offer you the possibility to have your set inspected by us. We take care of all its parts and bring the blades back into form! Ask us!

Options and spare parts

	780966 Blade insert dia 42 short		780979 Blade insert dia 68 short
	780933 Blade insert dia 42 long		780949 Blade insert dia 68 long
	780967 Blade insert dia 44 short		780980 Blade insert dia 70 short
	780937 Blade insert dia 44 long		780950 Blade insert dia 70 long
	780968 Blade insert dia 46 short		780981 Blade insert dia 72 short
	780938 Blade insert dia 46 long		780951 Blade insert dia 72 long
	780969 Blade insert dia 48 short		780959 Disassembling handle
	780939 Blade insert dia 48 long		780918 Ball head dia 22 Steel
	780970 Blade insert dia 50 short		780931 Ball head dia 28 Steel
	780940 Blade insert dia 50 long		780932 Ball head dia 32 Steel
	780971 Blade insert dia 52 short		780919 Ball head dia 36 Steel
	780941 Blade insert dia 52 long		780884 Ball head dia 38
	780972 Blade insert dia 54 short		780885 Ball head dia 40
	780942 Blade insert dia 54 long		780886 Ball head dia 42
	780973 Blade insert dia 56 short		780887 Ball head dia 44
	780943 Blade insert dia 56 long		780888 Ball head dia 46
	780974 Blade insert dia 58 short		780889 Ball head dia 48
	780944 Blade insert dia 58 long		780890 Ball head dia 50
	780975 Blade insert dia 60 short		780891 Ball head dia 52
	780945 Blade insert dia 60 long		780892 Ball head dia 54
	780976 Blade insert dia 62 short		780893 Ball head dia 56
	780946 Blade insert dia 62 long		780894 Ball head dia 58
	780977 Blade insert dia 64 short		780895 Ball head dia 60
	780947 Blade insert dia 64 long		801017 Tray insert small
	780978 Blade insert dia 66 short		801020 Tray insert medium/professional
	780948 Blade insert dia 66 long		801001 Steri tray 1/1 60mm

Cup revision

Made in Germany

Osteotoms *mod. Smith-Petersen for cup revision*

Osteotomes with curved blades for manual removal of acetabular cups. There are four different sizes S, M, L and XL to choose from.
The robust osteotomes have a continuous metallic core and are very handy with a silicone handle.

	Article	Reference
	0020070 Osteotomes Set	Osteotome modified Smith-Petersen set 4 Osteotome - sizes S to XL
	00200730 Size S	Osteotome for cup revision with silicone handle - S Total length: 310mm; Blade: 18mm x 20mm. Handle length: 136 mm
	00200731 Size M	Osteotome for cup revision with silicone handle - M Total length: 330mm; Blade: 18mm x 32mm. Handle length: 136 mm
	00200732 Size L	Osteotome for cup revision with silicone handle - L Total length: 345mm; Blade: 18mm x 48mm. Handle length: 136 mm
	00200733 Size XL	Osteotome for cup revision with silicone handle - XL Total length: 360mm; Blade: 18mm x 64mm. Handle length: 136 mm





Manufacturer: endocon GmbH

Tip! Individual instrument development!

Do you have any change requests?
... or your own ideas and suggestions for solutions?

We are specialised in the ***development of instruments***
and manufacture them in our own factory,
even in very small quantities. Do not hesitate to contact us!

Other instruments

StemExtractor - *Hip stem extractor*

Universal extraction tool for the safe removal of cement-free and cemented hip stems

The StemExtractor is a proven surgical instrument for total hip replacement femoral components that should be available in every revision surgery.

Advantages

- Only a few steps necessary for safe fixation of the instrument to the neck of the prosthesis
- Axial force transfer and stable clamping force by patented system
- Transfer of clamping force along a curved tool head to the prosthesis cone
- Minimized size of the instrument head, designed for limited space conditions
- Efficient, rational and cost-saving surgical operations
- Since 1993 successful in clinical use
- Complete decomposability of the instrument without additional tools
- Easy and validated instrument reprocessing

Technical specifications

- Cone size from 8 mm to 16 mm possible with clamps
- Slide hammer weight: 1.2 kg (standard) or 1.7 kg
- Total weight: 2.4 kg (standard)
- Total length: 550 mm STANDARD
- 635 mm LONG
- Driving distance: 205 mm STANDARD
- 275 mm LONG
-

StemExtractor - the state of the art instrument for hip stem removal

Simple handling.
Safe.
Ergonomic.

Options and spare parts

	780500 StemExtractor STANDARD Professional set Main instrument with system tray (sieve insert and basket)		780600 STANDARD Instrument Main instrument 550 mm
	780520 StemExtractor LONG Professional set Main instrument with system tray (sieve insert and basket)		780620 LONG Instrument Main instrument 635 mm
	780612 Slide hammer 1.2 kg (standard) 780604 Slide hammer 1.7 kg		780617 - OPTIONAL Head of tool AU/AU2 StemExtractor for monoblock stems

RevisioLine

Universal chisel system for the arthroplasty

Precise. Reliable. Reusable.

RevisioLine - *Blade system for the arthroplasty*

The blades set has been specially developed for the revision of cementless and cemented stem prostheses.
The set consists of 10 straight, flexible, ground faced blades. The different sizes offer the greatest flexibility in stem revision. The hardened-stainless-steel-handle with quick coupling function enables the chisel blades to be changed fast and easily without additional tools.

	Article	Reference
	RL0990 Handle	RevisioLine handle for chisel blades RevisioLine ergonomic handle for chisel blades with quick release. Enables quick replacement of chisel blades during surgery.
	RL0990-SP Strike plate	Strike plate for RevisioLine handle The RevisioLine impact plate is wider than conventional impact plates. More safety for the user! We manufacture personalised impact plates on request.
	RL0990-SPG XL-Strike plate	The XL impact plate from RevisioLine has become even wider. For even more safety for the user!

RevisioLine - 60 mm, straight

Article	Reference
RL0981 alternative RL0981-SU	RevisioLine flexible chisel blade 60/6 mm Case of use: proximal area Size: L = 60 mm, W = 6 mm
RL0991 alternative RL0991-SU	RevisioLine flexible chisel blade 60/8 mm Case of use: proximal area Size: L = 60 mm, W = 8 mm
RL0992 alternative RL0992-SU	RevisioLine flexible chisel blade 60/10 mm Case of use: proximal area Size: L = 60 mm, W = 10 mm
RL0993 alternative RL0993-SU	RevisioLine flexible chisel blade 60/12 mm Case of use: proximal area Size: L = 60 mm, W = 12 mm
RL0984 alternative RL0984-SU	RevisioLine flexible chisel blade 60/25 mm Case of use: proximal area Size: L = 60 mm, W = 25 mm

RevisioLine - 125 mm, straight

Article	Reference
RL0982 alternative RL0982-SU	RevisioLine flexible chisel blade 125/6 mm Case of use: distal area Size: L = 125 mm, W = 6 mm
RL0994 alternative RL0994-SU	RevisioLine flexible chisel blade 125/8 mm Case of use: distal area Size: L = 125 mm, W = 8 mm
RL0995 alternative RL0995-SU	RevisioLine flexible chisel blade 125/10 mm Case of use: distal area Size: L = 125 mm, W = 10 mm
RL0996 alternative RL0996-SU	RevisioLine flexible chisel blade 125/12 mm Case of use: distal area Size: L = 125 mm, W = 12 mm
RL0985 alternative RL0985-SU	RevisioLine flexible chisel blade 125/25 mm Case of use: distal area Size: L = 125 mm, W = 25 mm

RevisioLine - 190 mm, straight

Article	Reference
RL0983 alternative RL0983-SU	RevisioLine flexible chisel blade 190/6 mm Case of use: distal area Size: L = 190 mm, W = 6 mm
RL0997 alternative RL0997-SU	RevisioLine flexible chisel blade 190/8 mm Case of use: distal area Size: L = 190 mm, W = 8 mm

RevisioLine - chisel curved for knee revisions

Article	Reference
RL0986_L alternative RL0986_L-SU	RevisioLine flexible chisel blade Case of use: proximal area, knee revisions Size: W = 8 mm, left curved
RL0986_R alternative RL0986_R-SU	RevisioLine flexible chisel blade Case of use: proximal area, knee revisions Size: W = 8 mm, right curved

Options and spare parts

Please note: all chisels have one side for the prosthesis and one side for the bone part.
All RevisioLine chisels are available as:

- **STANDARD,** multiple sterilisable and usable
- **SINGLE USE (SU)**, multiple sterilisable but single use for application

Deschamps

Made in Germany

Ligature needle *for revisions*

Deschamps / ligature needle. Instrument for manual transfer of wire cerclages up to Ø 2 mm.
Four different sizes 40, 50, 60 and 70 mm are available.

The robust wire guide of the instruments is seamless and can be used for various wire cerclages up to Ø 2 mm, robust silicone handle, reusable several times.

Article	Reference
780420 Set	Set 4 ligature needles Sizes 40 to 70 for wire cerclage max. Ø 2mm
780421 Size 40	Deschamps-ligature needle Total length 262mm; Bow diameter 40 mm. wire cerclage max. Ø 2mm
780422 Size 50	Deschamps- ligature needle Total length 272mm; Bow diameter 50 mm. wire cerclage max. Ø 2mm
780423 Size 60	Deschamps- ligature needle Total length 282mm; Bow diameter 60 mm. wire cerclage max. Ø 2mm
780424 Size 70	Deschamps- ligature needle Total length 292mm; Bow diameter 70 mm. wire cerclage max. Ø 2mm

Hollow cutters - *set for revisions*

The hollow cutters have been specially developed for the revision of broken stem prostheses and fixed modular stem prostheses. They are also used for the revision of broken intramedullary nail systems and broken Endo-exo prostheses. In this case, the prosthesis segments are milled over and picked up in parts in the cavity of the milling cutter.

Field of use:

- Loosening / removal of implant fragments and modular stem prostheses.
- Exposure / preparation of implant fragments and modular stem prostheses for the attachment of a removal or unscrewing instrument or for the attachment of locking forceps.

Inner diameter of 12-18 mm; holder for JAKOBS chuck.

Article	Reference
200089 Trephine Ø12 mm	Bore depth 200mm; ext. diameter 15mm; int. diameter 12mm, Jacobs drill chuck.
200090 Trephine Ø13 mm	Bore depth 200mm; ext. diameter 16mm; int. diameter 13mm, Jacobs drill chuck.
200091 Trephine Ø14 mm	Bore depth 200mm; ext. diameter 17mm; int. diameter 14mm, Jacobs drill chuck.
200092 Trephine Ø15 mm	Bore depth 200mm; ext. diameter 18mm; int. diameter 15mm, Jacobs drill chuck.
200093 Trephine Ø16 mm	Bore depth 200mm; ext. diameter 19mm; int. diameter 16mm, Jacobs drill chuck.
200094 Trephine Ø17 mm	Bore depth 200mm; ext. diameter 20mm; int. diameter 17mm, Jacobs drill chuck.
200095 Trephine Ø18 mm	Bore depth 200mm; ext. diameter 21mm; int. diameter 18mm, Jacobs drill chuck.
200099 Complete set	Set for revision Ø12-18 mm





Cannulated hollow cutters

for orthopaedics and tumour surgery

for safe guidance, a K-wire can be used as illustrated

Cannulated hollow cutters for orthopaedics and tumour surgery
The cannulated hollow burrs were specially developed for tumour surgery in order to mill out bone tumours. A K-wire is used for centring, ensuring precise guidance of the cutter. The milled tissue is collected inside the hollow cutter and can be ejected by means of a pusher.
Inner diameters of 6 / 8 / 10 mm are available in lengths of 110 and 150 mm.
Holder for JAKOBS chuck.

Field of use:

- Excision of tumours in bone tissue
- Excision of cysts in bone

Article	Reference
TH1010 Trephine Ø 8 mm	Operating depth 100mm; Outer diameter 8mm; Inner diameter 6mm.
TH1011 Trephine Ø 8 mm	Operating depth 130mm; Outer diameter 8mm; Inner diameter 6mm.
TH1012 Trephine Ø 10 mm	Operating depth 100mm; Outer diameter 10mm; Inner diameter 8mm.
TH1013 Trephine Ø 10 mm	Operating depth 130mm; Outer diameter 10mm; Inner diameter 8mm.
TH1014 Trephine Ø 12 mm	Operating depth 100mm; Outer diameter 12mm; Inner diameter 10mm.
TH1015 Trephine Ø 12 mm	Operating depth 130mm; Outer diameter 12mm; Inner diameter 10mm.





Locking pliers - *3-sided*

These locking pliers are used for the retrieval of:

- Stuck / broken prosthesis segments
- Stuck / broken intramedullary nails
- Stuck / broken screws

A special joint mechanism allows the pliers to be locked securely in a specific position. A defined pressure point is targeted and then tightened. A separate lever for releasing the tension ensures comfortable handling.

An extension with a sliding hammer can be optionally adapted at three different contact points, allowing various force/ impact directions to be chosen.

The locking pliers with movable jaws are available as either blunt or pointed jaw pliers.

	Article	Reference
	820121 820122 820104	Pointed jaw pliers 3-sided Small: 22 cm Medium: 25 cm Large: 30 cm
	820106 820105	Locking pliers 3-sided Medium: 20 cm Large: 24 cm
	820102 400 gr	Pull-out hammer 400 g
	820103 700 gr	Pull-out hammer 700 g

Intramedullary Nail extraction

Universal tool for the removal of intramedullary nails with internal threads.

The instrument consists of an impact tube with a sliding hammer and a push rod, which is guided through a fine thread in the impact tube. The conical tip of the push rod is used to spread a tip which is selected according to the diameter of the nail receiver in the manner of a plug.

The tension of the push rod is thus held in the rear part by a spring assembly. Due to the clamping range of the tips, 3 sizes are sufficient to cover all internal threads. It should be noted that the sizes of the tips are selected so that they fit into the borehole of the nail with the least possible clearance. This achieves the maximum stable combination of extractor and nail.

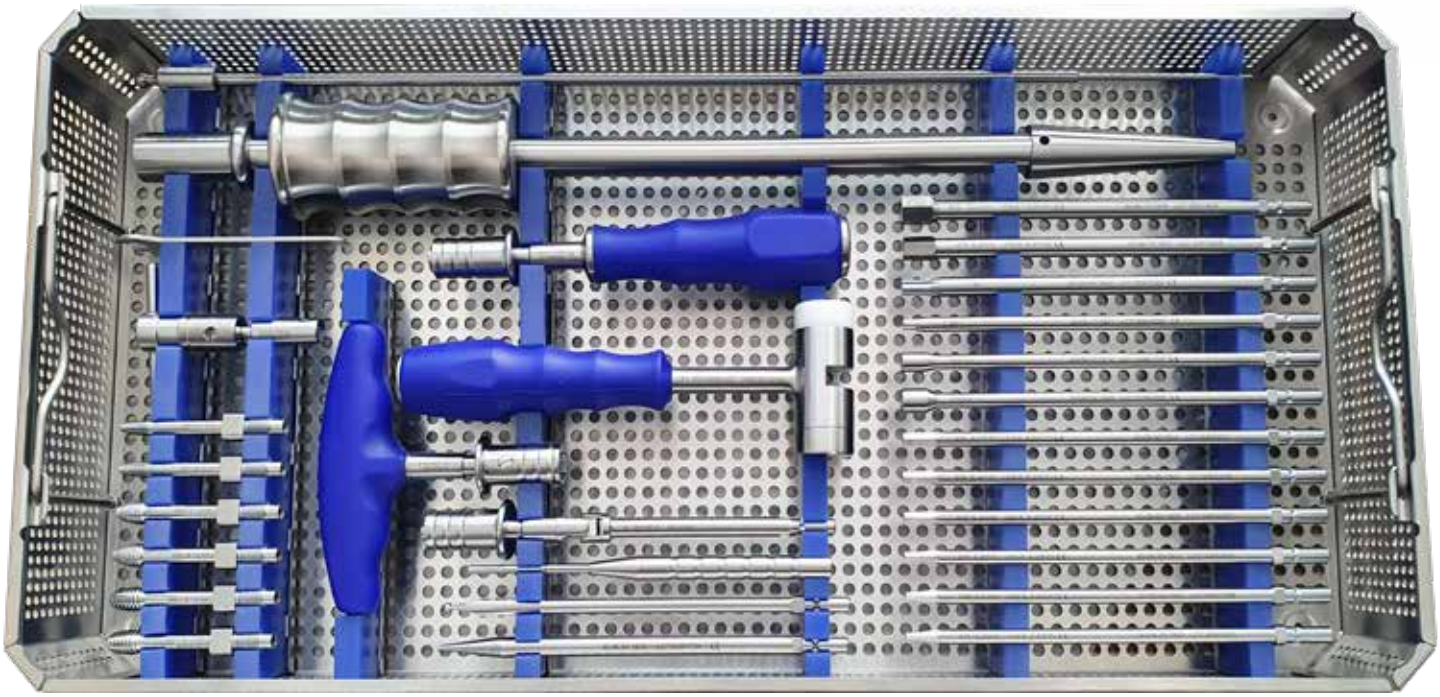
Provided with the instruments are a straight and a candan handle for a set of long hex bits from 2.5 to 5.5 mm ascending in steps of 0.5 mm. The bits are suitable to remove screws with corresponding hex sockets. At the tip the surfaces of the bits are slightly converging, so that they can be secured onto the bit by a slight knocking of the bit into the hex socket of the plug and can thus be easily removed.

Intramedullary Nail extraction - indispensable in each OR

Fast.
Unproblematic.
Safe.

Advantages

- Fast and safe extraction of intramedullary nails with internal thread
- Easy assembly and tensioning
- Fast and safe, significant reduction in OP time
- Includes various handles, allen wrench, universal joint and hammer
- Clean, organised storage



Intramedullary nail extractor - Options and spare parts

820000
Intramedullary nail extractor
complete

820002
Medullary nail extractor
main instrument

820027
Tension bar

820003
Mallet 200g

820004
Quick coupling t-handle

820005
Quick coupling handle nail extractor

820006
Universal quick coupling
with cardan joint

820007
Driver hexagonal SW 2,5

820008
Driver hexagonal SW 3,0

820009
Driver hexagonal SW 3,5

820010
Driver hexagonal SW 4,0

820011
Driver hexagonal SW 4,5

820012
Driver hexagonal SW 5,0

820013
Punch tool 3,5

820014
End wrench SW9

820015
Screwdriver with guide pin

820016
Socket wrench size 6

820017
Conical extraction screw

820022
Socket wrench size 4

820018
Expansion adapter size 1 - 6-9mm

820029
Expansion adapter size 1,5

820019
Expansion adapter size 2 - 9-12mm

820030
Expansion adapter size 2,5

820020
Expansion adapter size 3 - 12-15mm

820028
Tension piece

820021
Screwdriver bit SW 8,0

820025
Blade six round T25

820023
Screwdriver bit SW 10

820024
Blade six round T40

820026
Stencil - Alu Contents overview

820001
Sterilization tray nail extractor

SOS-Set

Universal OP-removal-tool for damaged and broken bone screws. Screw removal set complete.

Universal set for loosening or removing broken and damaged screws. Safe and reliable.

Specifications:

- Overtightened screw heads
- Broken / torn off screws

The set contains all necessary instruments for the exposure of screws, cleaning of screw heads in order to apply the instrument, safe gripping of damaged hexagonal / cross and Torx screws up to the left removal of thread fragments in depth. The respective application is illustrated by means of a simple template.

All tools available for screw size:
1.5 / 2.0 / 2.7 / 3.5 / 4.0 / 4.5 / 5.0 / 6.5 / 7.0 mm

SOS-Set - for a smooth operation

Compact.
Universal.
Essential.

SOS-Set Options and spare parts

	820050 SOS Screw-Extraction-Set complete		820078 Instructions for use (aluminium template in-box)
	820079 Tray for SOS-set		
	820051 Hollow reamer for 1,5 mm		820057 Reamer Tube 1,5 mm
	820052 Hollow reamer for 2,0 mm		820058 Reamer Tube 2,0 mm
	820053 Hollow reamer for 2,7 mm		820059 Reamer Tube 2,7 mm
	820054 Hollow reamer for 3,5/4,0 mm		820060 Reamer Tube 3,5/4,0 mm
	820055 Hollow reamer for 4,5 mm		820061 Reamer Tube 4,5 mm
	820056 Hollow reamer for 5,0/6,5/7,0 mm		820062 Reamer Tube 5,0/6,5/7,0 mm
	820063 Sharp Hook length 155 mm		820064 Screw Holding Forceps 20,5cm 8''
	820065 Mini lexer gouge 4 mm x 18 cm		820066 Mini lexer gouge 6 mm x 18 cm
	820067 Mini lexer gouge 10 mm x 18 cm		820068 T-Handle - AO-quickcoupling 160 mm
	820069 Conical extraction screw 1,5/2,0 mm		820070 Conical extraction screw 2,7/3,5/4,0 mm
	820071 Conical extraction screw 4,5/5,0/6,5/7,0 mm		
	820072 Extraction bolt 1,5 mm		820073 Extraction bolt 2,0 mm
	820074 Extraction bolt 2,7 mm		820075 Extraction bolt 3,5/4,0 mm
	820076 Extraction bolt 4,5 mm		820077 Extraction bolt 5,0/6,5/7,0 mm
	820080 Centrical bolt for hollow reamer 1,5 mm		820081 Centrical bolt for hollow reamer 2,0 mm
	820082 Centrical bolt for hollow reamer 2,7 mm		820083 Centrical bolt for hollow reamer 3,5/4,0 mm
	820084 Centrical bolt for hollow reamer 4,5 mm		820085 Centrical bolt for hollow reamer 6,5/7,0 mm

Suction plate

Competitive universal solution

Reusable. Powerful. Clean.





Suction plate

Accessories for universal surgical suction device in the operating room. Quick removal of surgical fluids and blood.

Ensure safe and efficient suction of fluids and blood from the ground during a surgery.

Advantages at a glance:

- Significant cost reduction against disposable products
- Reusable suction plate, made of hardened aluminum
- Optimized suction power
- Tested long term working product
- Simple cleaning / preparation of the suction plate
- Universal connection to all suction systems

Specifications:

- Orthopedic Surgery
- Gynecology
- Urology
- Neurosurgery
- Trauma and reconstructive surgery
- Ambulance
- Laboratory

Suction plate:
the efficient and economic solution for the operating room

Reusable.
Powerful.
Clean.

Equipment and accessories

Article	Reference
780817	Suction plate
780818	Connection hose

Simplify Mobility

since 1998

25 years

endocon

Simplify Mobility

endocon GmbH
In der Au 5
69257 Wiesenbach | Germany
T +49 6223 7390 10
F +49 6223 7390 199
E info@endocon.de
I www.endocon.eu