

CUSTOMIZABLE PLIF/TLIF CAGE INSTRUMENT SETS

WITH STAINLESS STEEL TRAYS / INSERTS

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RUDISCHHAUSER CUSTOMIZABLE LUMBAR CAGE INSTRUMENT SETS

Posterior interbody fusion techniques are increasingly recommended by spine surgeons. Improved surgical techniques and improved interbody implants are among the reasons interest in these techniques is increasing. Posterior interbody procedures provide both posterior and anterior stabilization through a single incision. Posterior interbody fusion represents a spectrum of techniques.

The Rudischhauser standard lumbar cage instruments and sets are indicated to bring the right support to perform a PLIF (Posterior Lumbar Interbody Fusion) or a TLIF (Transforaminal Lumbar Interbody Fusion) according to the requirements of the customers.

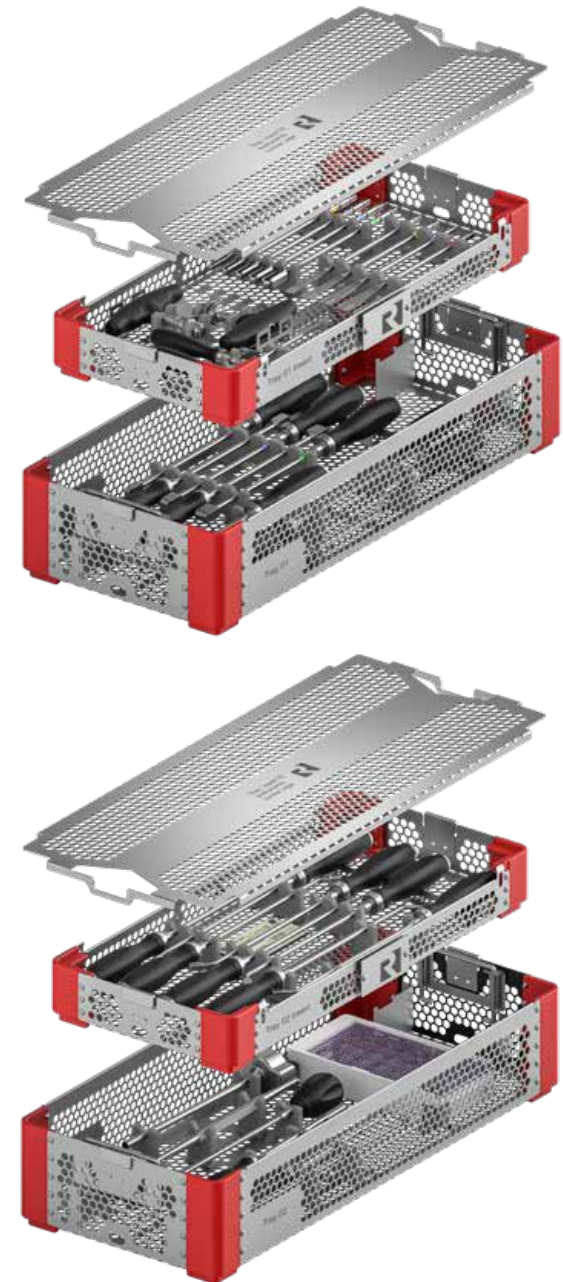
A variety of R-instrument sizes, geometries, handles as well as customized instruments are available for the preparation and implantation. Typically, adjunctive stabilization is sought with transpedicular instrumentation from Rudischhauser.

Rudischhauser Surgical Instruments and Implant Manufacturing GmbH is developing and producing the highest quality with long term experience by using latest technology since 1954.

With our own design and development department we develop, optimize and employ state of the art manufacturing. We work in close cooperation with our worldwide customers, in accordance with latest requirements of international markets.

Our goods range from delicate micro instruments to complete assemblies with inhouse UDI laser marking to suit individual customer requirements.

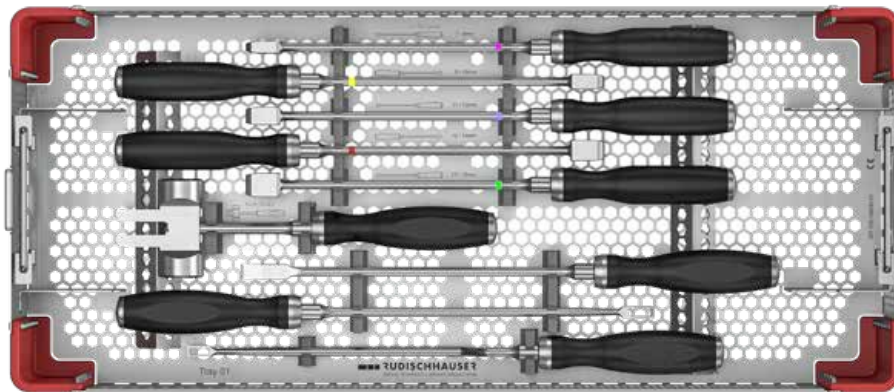
Rudischhauser GmbH is DIN EN ISO 13485:2016 certified, as well as FDA registered and in compliance with FDA 21 CFR part 820 standard.




MADE IN GERMANY

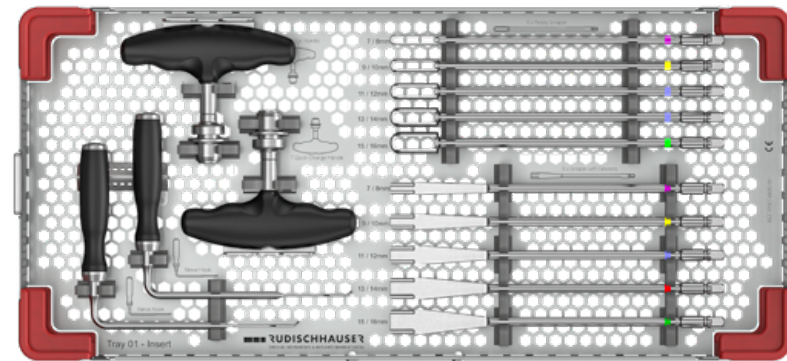
CUSTOMIZABLE INSTRUMENTS & SETS FOR PLIF/TLIF CAGES

TRAY 01 – PREPARATION



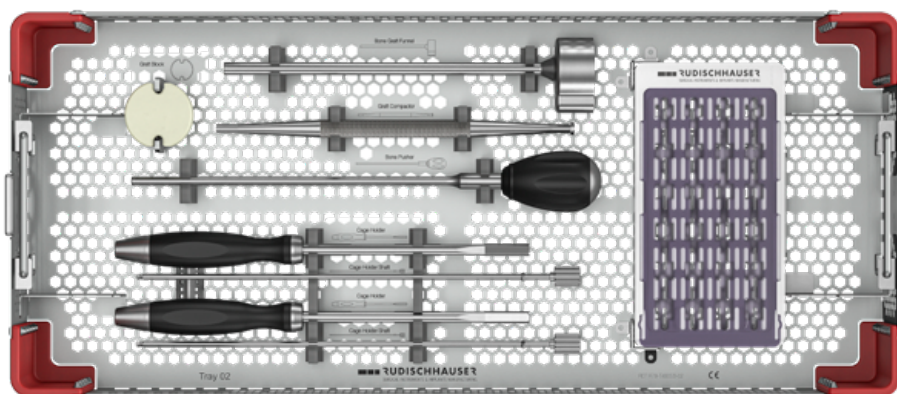
ITEM-ID	DESCRIPTION	
R16-FD23XX-08	Trial Spacer, 8 mm	<i>Standard tray. Individual tray and insert configuration with different instruments, dimensions and handles available upon request.</i>
R16-FD23XX-10	Trial Spacer, 10 mm	
R16-FD23XX-12	Trial Spacer, 12 mm	
R16-FD23XX-14	Trial Spacer, 14 mm	
R16-FD23XX-16	Trial Spacer, 16 mm	
	<i>7, 9, 11, 13 & 15 mm optional</i>	
R18-GD23XX-MM	Mallet Slotted	
R16-CD23XX-08	Osteotome 8 mm <i>(optional in 10 mm)</i>	
R16-BD23XX-ST	Box Curette with blade	
R16-BD23XX-AG	Box Curette, shaft bayoneted	
R78-T480SB-01	Tray, stainless steel	
R78-T480LI-01	Lid, stainless steel <i>(optional)</i>	

TRAY 01 – INSERT

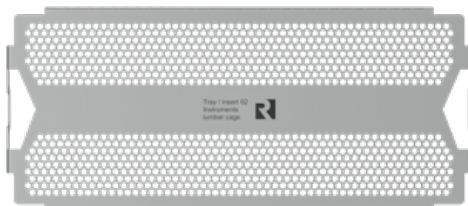


ITEM-ID	DESCRIPTION	ITEM-ID	DESCRIPTION
R16-BVK020-08	Rotary Scraper, ø 8 mm	R16-DVK020-08	Scraper with grooves, 8 mm
R16-BVK021-10	Rotary Scraper, ø 10 mm	R16-DVK021-10	Scraper with grooves, 10 mm
R16-BVK022-12	Rotary Scraper, ø 12 mm	R16-DVK022-12	Scraper with grooves, 12 mm
R16-BVK023-14	Rotary Scraper, ø 14 mm	R16-DVK023-14	Scraper with grooves, 14 mm
R16-BVK024-16	Rotary Scraper, ø 16 mm	R16-DVK024-16	Scraper with grooves, 16 mm
	<i>ø 7, 9, 11, 13 & 15 mm optional</i>		<i>7, 9, 11, 13 & 15 mm optional</i>
R22-HT23XX-A3	Standard T-Quick-change Handle with strike cap, 2x		
R16-HD17XX-00	Nerve Hook, 2x		
R78-T480IS-01	Tray Insert, stainless steel		

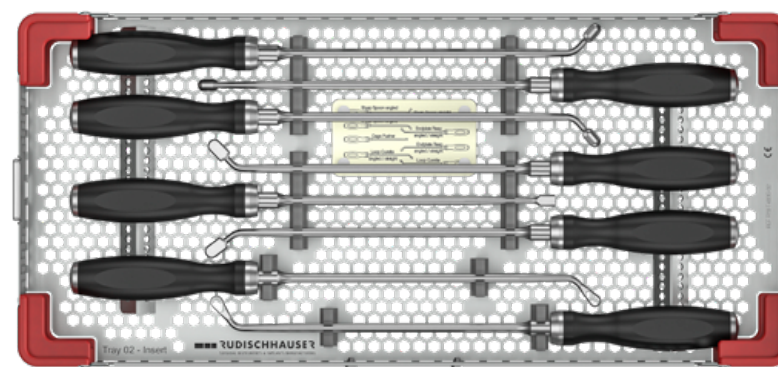
TRAY 02 – CAGE INSERTION



ITEM-ID	DESCRIPTION
R16-HD23XX-BC	Cage Holder, 2x
R16-EH6000-00	Graft Compactor
R16-K00000-FB	Graft Block
R19-EK41XX-00	Bone Pusher
R19-K00000-FU	Bone Graft Funnel
R83-S00000-00	Cage/Trial Set <i>Optional</i>
R78-T480SB-02	Tray, stainless steel
R78-T480LI-02	Lid, stainless steel <i>Optional</i>



TRAY 02 – INSERT



ITEM-ID	DESCRIPTION
R16-AD23XX-ST	Sharp Spoon, straight
R16-AD23XX-LA	Sharp Spoon, left angled
R16-AD23XX-RA	Sharp Spoon, right angled
R16-GD23XX-00	Cage Pusher
R16-ND23XX-LA	Loop Curette, left angled
R16-ND23XX-RA	Loop Curette, right angled
R16-MD23XX-LA	Endplate Rasp, left angled
R16-MD23XX-RA	Endplate Rasp, right angled
R78-T480IS-01	Tray Insert, stainless steel

Standard tray. Individual tray and insert configuration with different instruments, dimensions and handles available upon request.

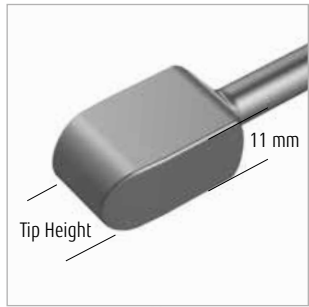
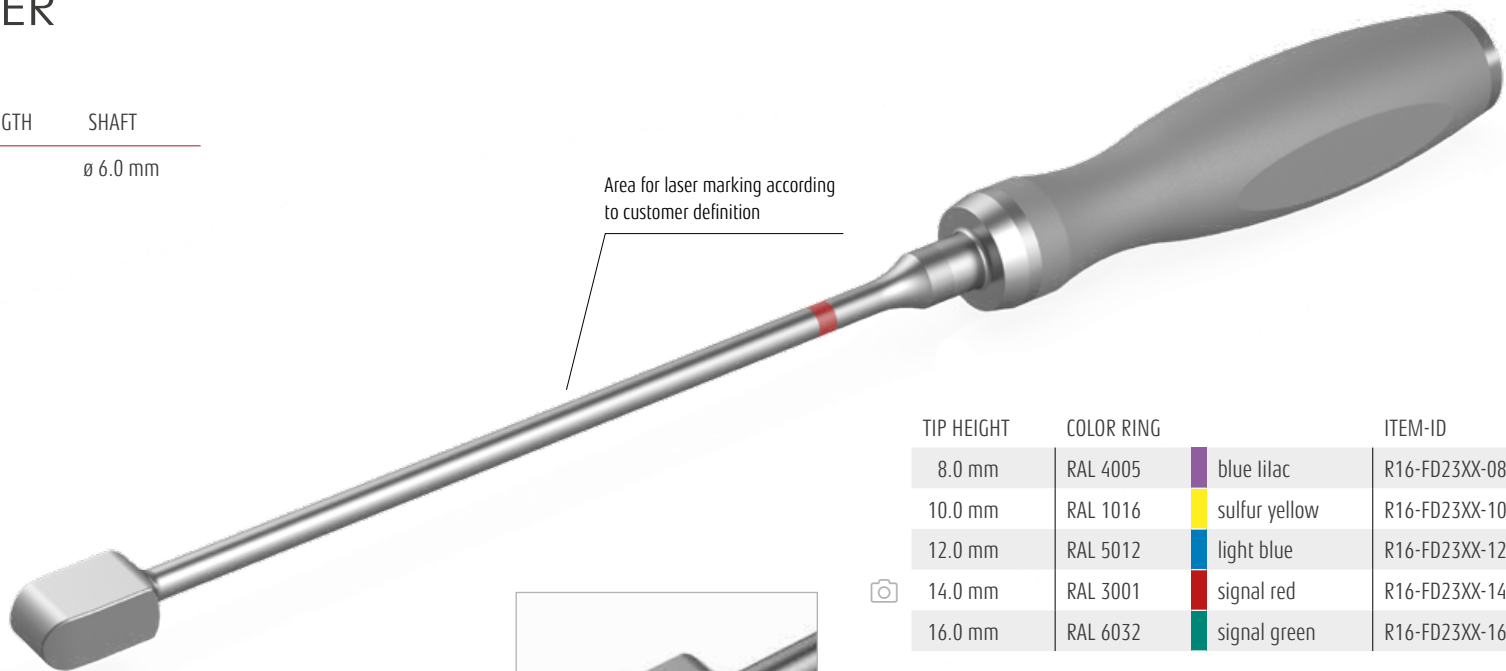
Other instruments optional. See pages 16 – 19:

R16-ND23XX-ST	Loop Curette, straight
R16-MD23XX-ST	Endplate Rasp, straight
R16-BD23XX-TS	Triangle Curette, straight
R16-BD23XX-TL	Triangle Curette, left angled
R16-BD23XX-TR	Triangle Curette, right angled

Tray 01

TRIAL SPACER

WIDTH	WORKING LENGTH	SHAFT
11 mm	191 mm	ø 6.0 mm



Design of the trial can be customized according to the shape of the cage

TIP HEIGHT	COLOR RING		ITEM-ID
8.0 mm	RAL 4005	blue lilac	R16-FD23XX-08
10.0 mm	RAL 1016	sulfur yellow	R16-FD23XX-10
12.0 mm	RAL 5012	light blue	R16-FD23XX-12
14.0 mm	RAL 3001	signal red	R16-FD23XX-14
16.0 mm	RAL 6032	signal green	R16-FD23XX-16

7.0 mm	RAL 9003	signal white	R16-FD23XX-07
9.0 mm	RAL 7036	platinum grey	R16-FD23XX-09
11.0 mm	RAL 8002	signal brown	R16-FD23XX-11
13.0 mm	RAL 5005	signal blue	R16-FD23XX-13
15.0 mm	RAL 9005	jet black	R16-FD23XX-15

High-quality color coding using biocompatible, color-stable and autoclavable composite ceramic marking technology

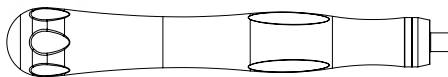
AVAILABLE HANDLES



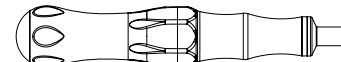
R20-0123XX-1F



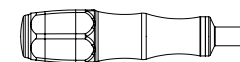
R20-0125XX-1F



R20-0129XX-1F



R20-0223XX-2F



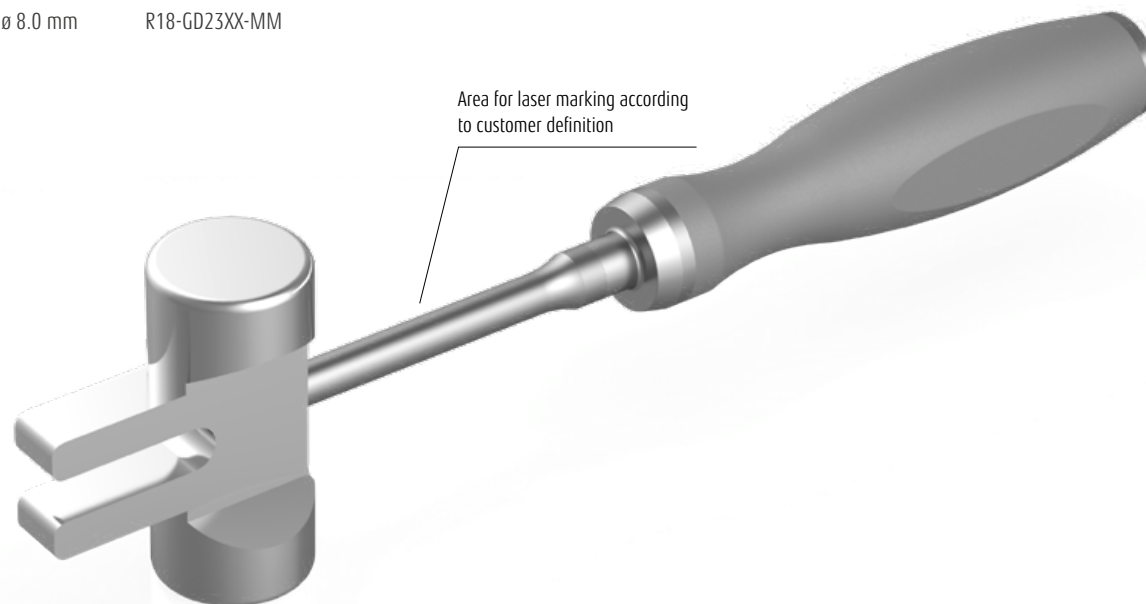
R20-0223XX-1F

See page 20–22 for handle details and specifications



MALLET SLOTTED

WIDTH	MALLET	SLOT	SHAFT	ITEM-ID
66 mm	ø 30 mm	9 mm	ø 8.0 mm	R18-GD23XX-MM



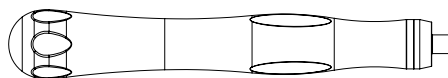
AVAILABLE HANDLES



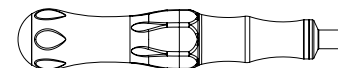
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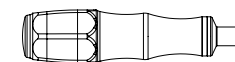
R20-0125XX-1F



R20-0129XX-1F



R20-0223XX-2F



R20-0223XX-1F

See page 20–22 for handle details and specifications

OSTEOTOMES

WIDTH	HEIGHT	SHAFT	WORKING LENGTH	ITEM-ID
8 mm	3 mm	∅ 6.0 mm	223 mm	R16-CD23XX-08
10 mm	3 mm	∅ 6.0 mm	223 mm	R16-CD23XX-10



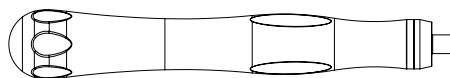
AVAILABLE HANDLES



R20-0123XX-1F



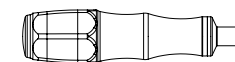
R20-0125XX-1F



R20-0129XX-1F



R20-0223XX-2F



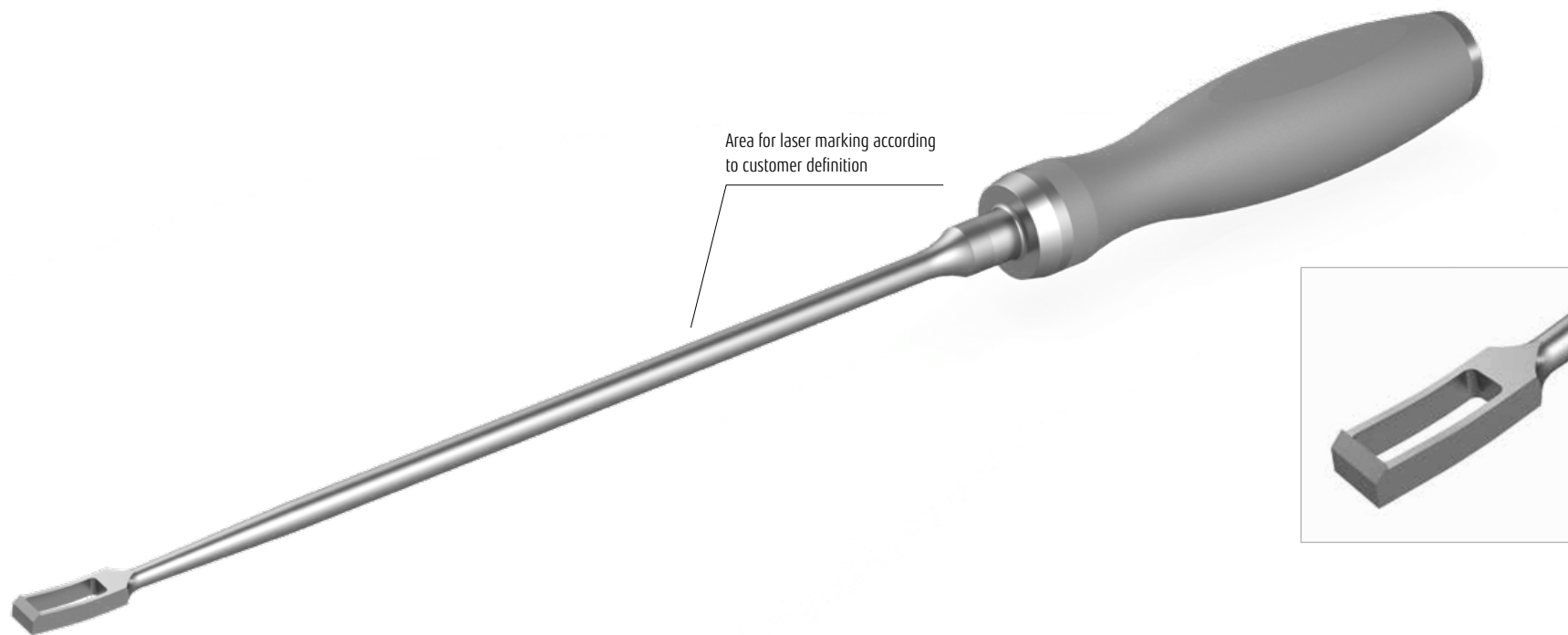
R20-0223XX-1F

See page 20–22 for handle details and specifications



BOX CURETTE WITH BLADE

WIDTH	INNER DIMENSION (W x L)	HEIGHT	SHAFT	WORKING LENGTH	ITEM-ID
7,5 mm	5.5 x 15,5 mm	5.9 mm	ø 6.0 mm	223 mm	R16-BD23XX-ST



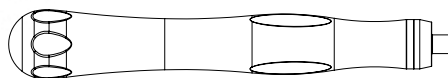
AVAILABLE HANDLES



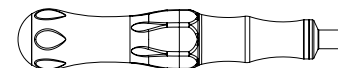
R20-0123XX-1F



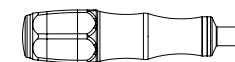
R20-0125XX-1F



R20-0129XX-1F



R20-0223XX-2F

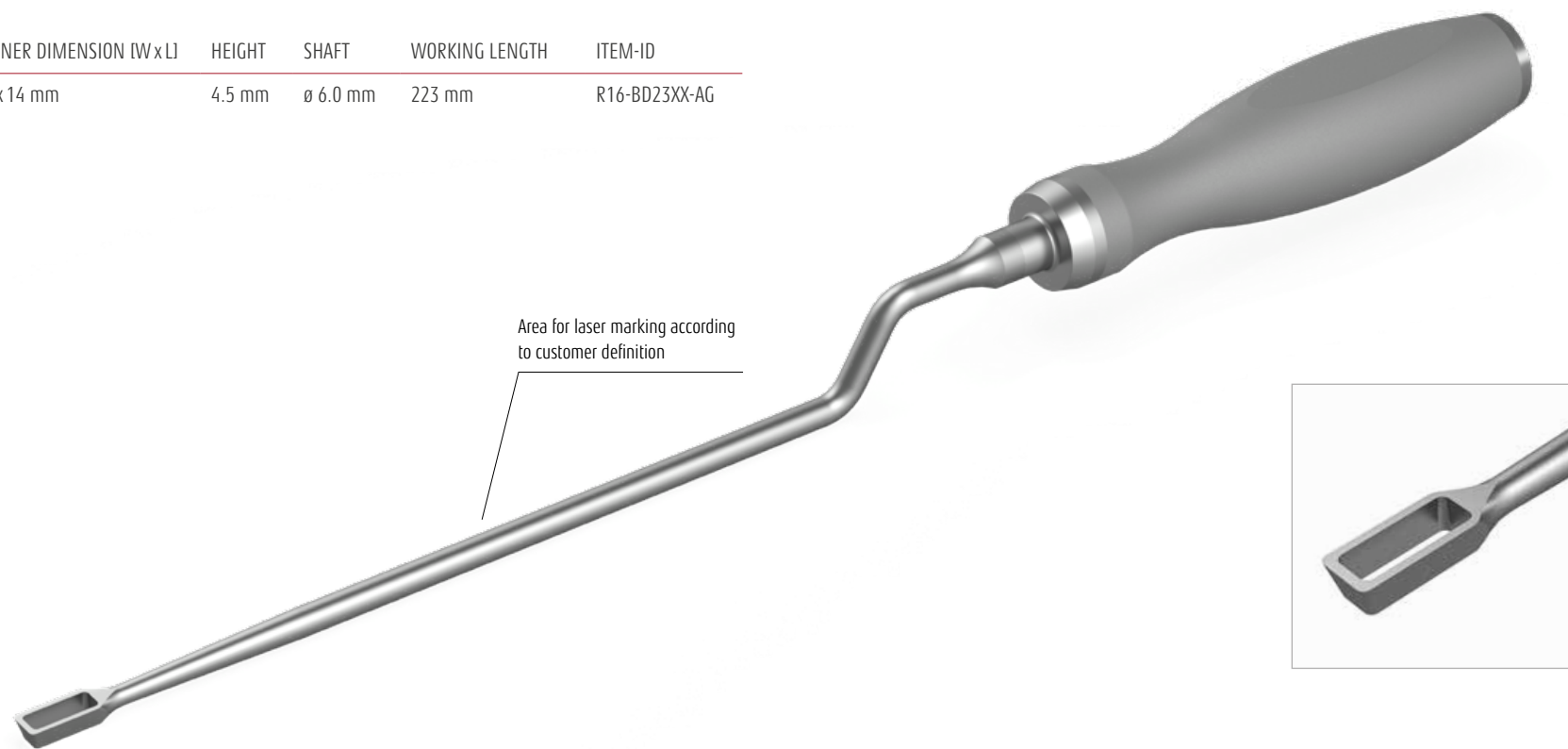


R20-0223XX-1F

See page 20–22 for handle details and specifications

BOX CURETTE, SHAFT BAYONETED

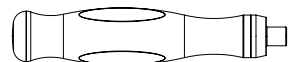
WIDTH	INNER DIMENSION (W x L)	HEIGHT	SHAFT	WORKING LENGTH	ITEM-ID
7 mm	5 x 14 mm	4.5 mm	∅ 6.0 mm	223 mm	R16-BD23XX-AG



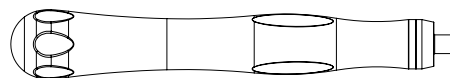
AVAILABLE HANDLES



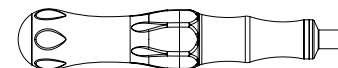
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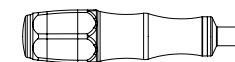
R20-0125XX-1F



R20-0129XX-1F



R20-0223XX-2F



R20-0223XX-1F

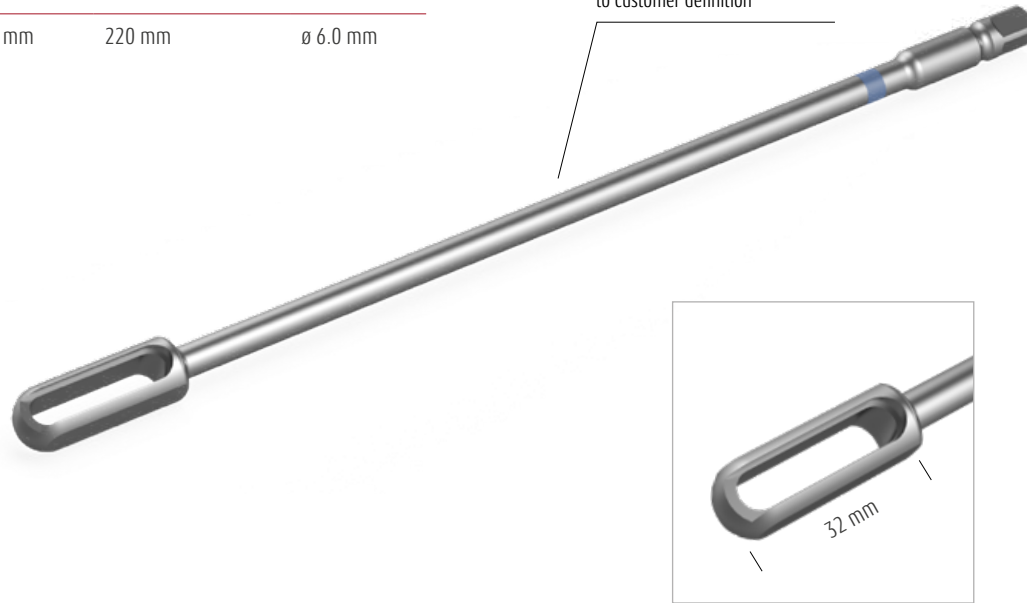
See page 20–22 for handle details and specifications



ROTARY SCRAPERS

LENGTH	WORKING LENGTH	SHAFT
32 mm	220 mm	ø 6.0 mm

Area for laser marking according to customer definition

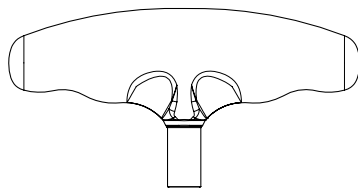


DIMENSION	COLOR RING		ITEM-ID
ø 8.0 mm	RAL 4005	blue lilac	R16-BVK020-08
ø 10.0 mm	RAL 1016	sulfur yellow	R16-BVK021-10
ø 12.0 mm	RAL 5012	light blue	R16-BVK022-12
ø 14.0 mm	RAL 3001	signal red	R16-BVK023-14
ø 16.0 mm	RAL 6032	signal green	R16-BVK024-16

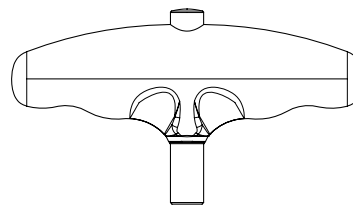
ø 7.0 mm	RAL 9003	signal white	R16-BVK030-07
ø 9.0 mm	RAL 7036	platinum grey	R16-BVK031-09
ø 11.0 mm	RAL 8002	signal brown	R16-BVK032-11
ø 13.0 mm	RAL 5005	signal blue	R16-BVK033-13
ø 15.0 mm	RAL 9005	jet black	R16-BVK034-15

High-quality color coding using biocompatible, color-stable and autoclavable composite ceramic marking technology

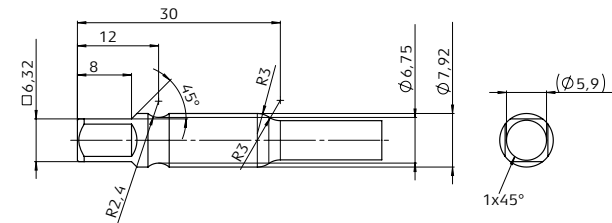
AVAILABLE HANDLES



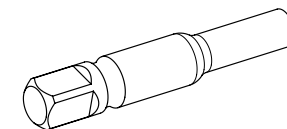
R20-0723XX-1F



R22-0723XX-19
Handle with strike cap



Other coupling types available on request

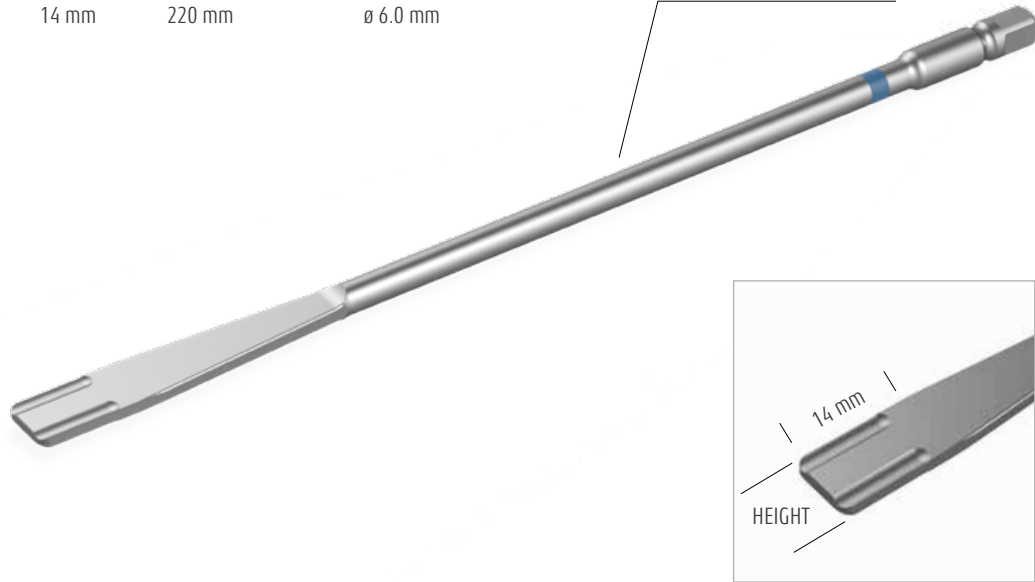


See page 20–22 for handle details and specifications

SCRAPER WITH GROOVES

LENGTH	WORKING LENGTH	SHAFT
14 mm	220 mm	ø 6.0 mm

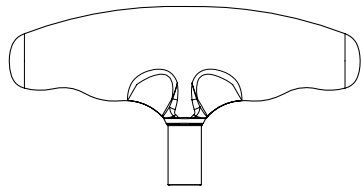
Area for laser marking according to customer definition



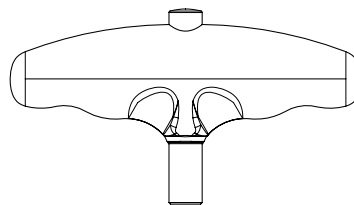
HEIGHT	COLOR RING		ITEM-ID
8.0 mm	RAL 4005	blue lilac	R16-DVK020-08
10.0 mm	RAL 1016	sulfur yellow	R16-DVK021-10
12.0 mm	RAL 5012	light blue	R16-DVK022-12
14.0 mm	RAL 3001	signal red	R16-DVK023-14
16.0 mm	RAL 6032	signal green	R16-DVK024-16
7.0 mm	RAL 9003	signal white	R16-DVK030-07
9.0 mm	RAL 7036	platinum grey	R16-DVK031-09
11.0 mm	RAL 8002	signal brown	R16-DVK032-11
13.0 mm	RAL 5005	signal blue	R16-DVK033-13
15.0 mm	RAL 9005	jet black	R16-DVK034-15

High-quality color coding using biocompatible, color-stable and autoclavable composite ceramic marking technology

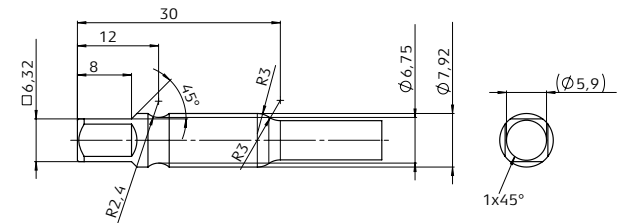
AVAILABLE HANDLES



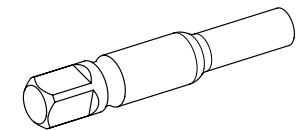
R20-0723XX-1F



R22-0723XX-19
Handle with strike cap



Other coupling types available on request

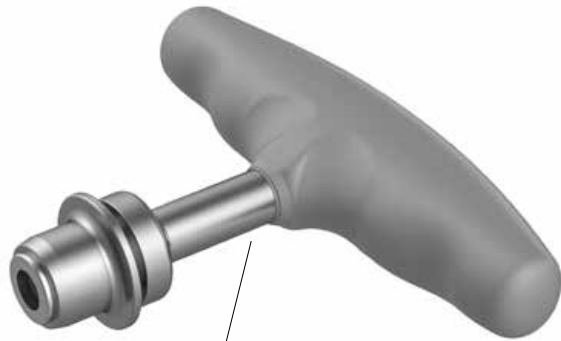


See page 20–22 for handle details and specifications



T-QUICK CHANGE HANDLE WITH STRIKE CAP

WIDTH	HEIGHT	ITEM-ID
116 mm	92 mm	R22-HT23XX-A3



Area for laser marking according to customer definition

NERVE HOOK

WIDTH	WORKING LENGTH	SHAFT	ITEM-ID
10 mm	138 mm	∅ 5.0 mm	R16-HD17XX-00



Area for laser marking according to customer definition

Width

AVAILABLE HANDLES



R20-0117XX-1E



R20-0120XX-1E



R20-0123XX-1F



R20-0223XX-1F



R20-0223XX-2F

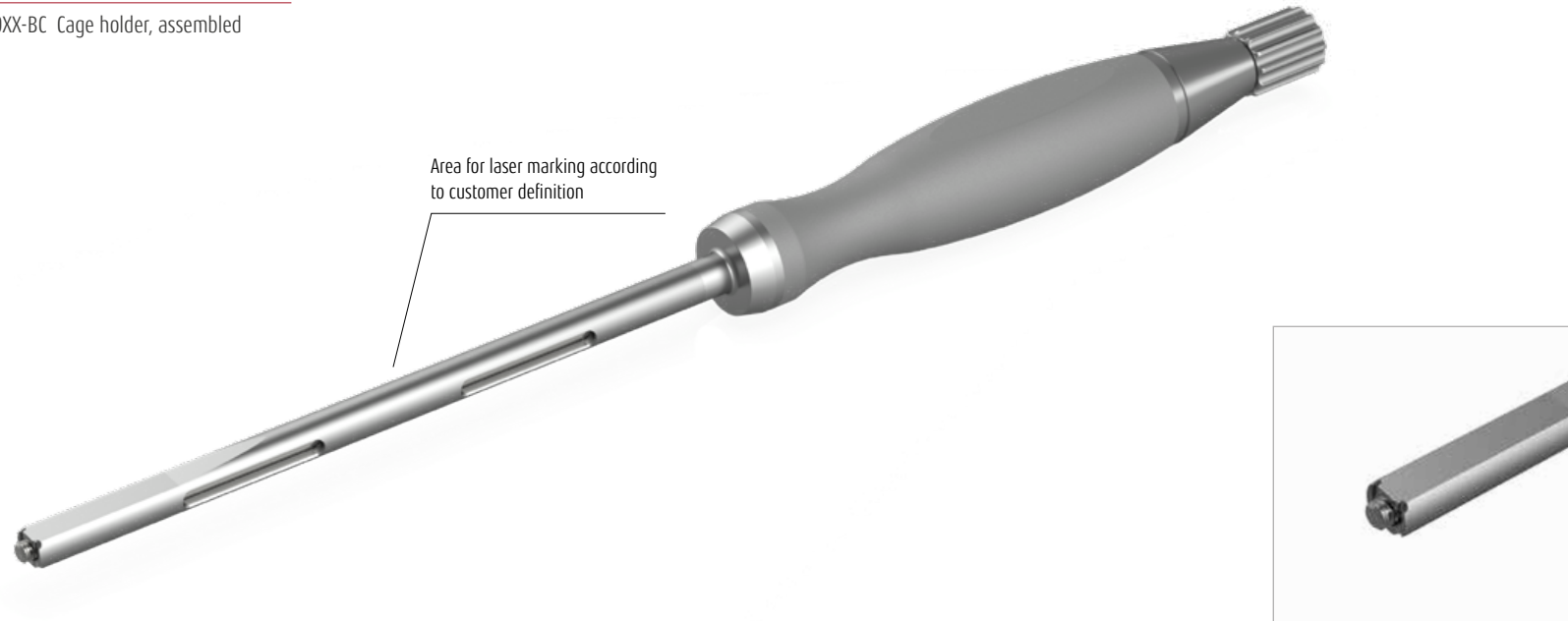


R20-0223XX-1F

See page 20–22 for handle details and specifications

CAGE HOLDER [can be disassembled for cleaning]

LENGTH	ITEM-ID
296 mm	R16-HD20XX-BC Cage holder, assembled



Area for laser marking according to customer definition

Can be customized according to specific cage design

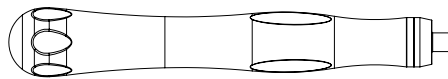
AVAILABLE HANDLES



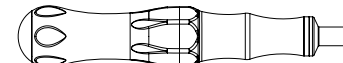
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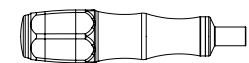
R20-0125XX-1F



R20-0129XX-1F



R20-0223XX-2F



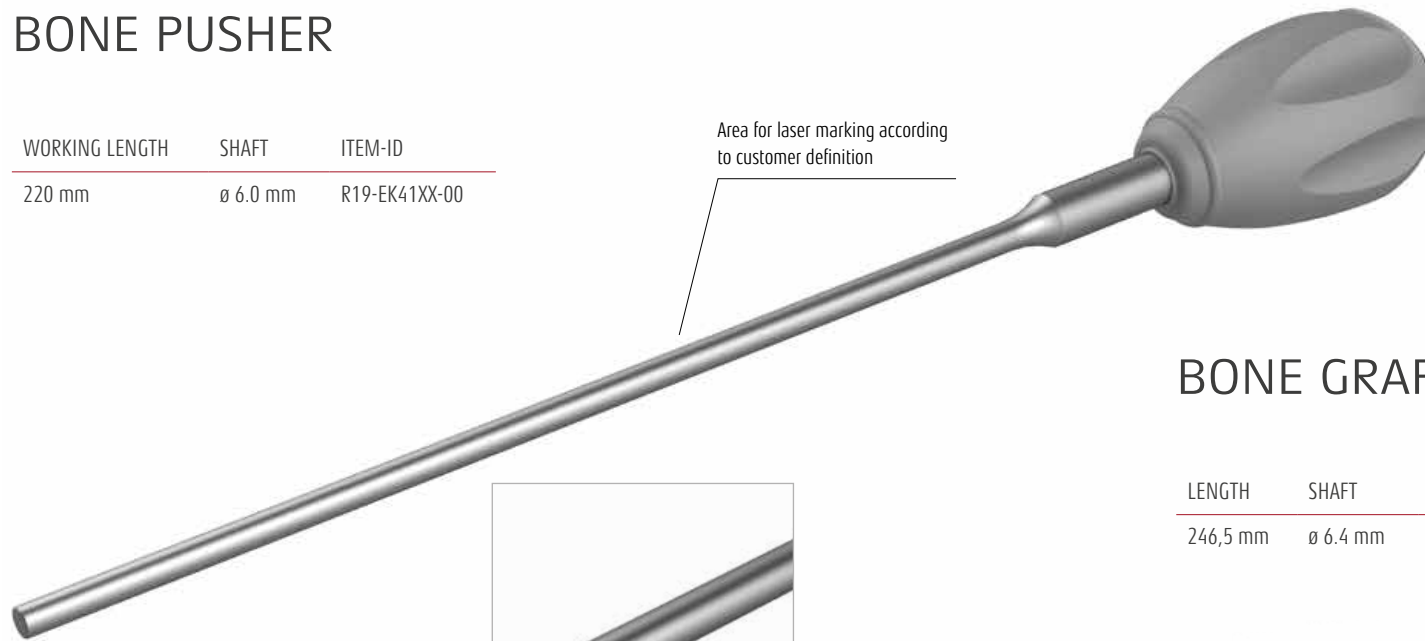
R20-0223XX-1F

See page 20–22 for handle details and specifications



BONE PUSHER

WORKING LENGTH	SHAFT	ITEM-ID
220 mm	ø 6.0 mm	R19-EK41XX-00

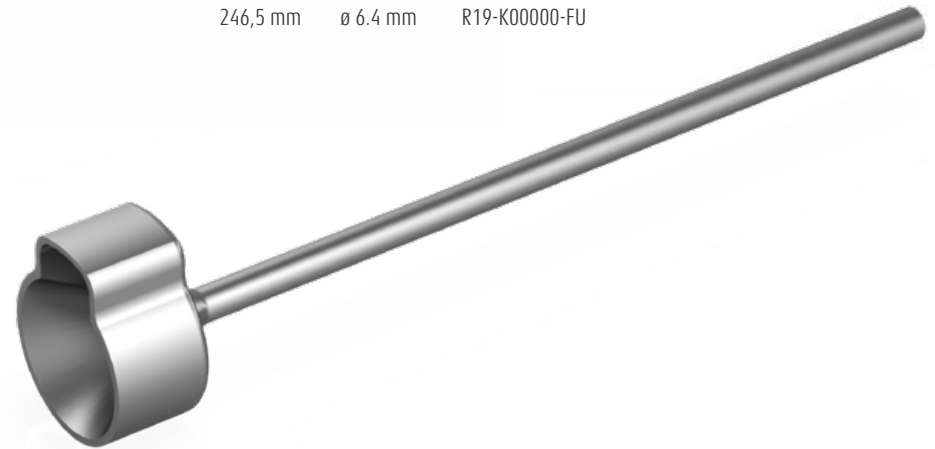


Area for laser marking according to customer definition

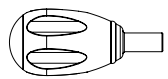


BONE GRAFT FUNNEL

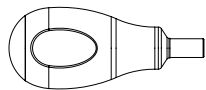
LENGTH	SHAFT	ITEM-ID
246,5 mm	ø 6.4 mm	R19-K00000-FU



AVAILABLE HANDLES



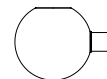
R20-0441XX-1F



R20-0448XX-1F



R20-0440XX-1F

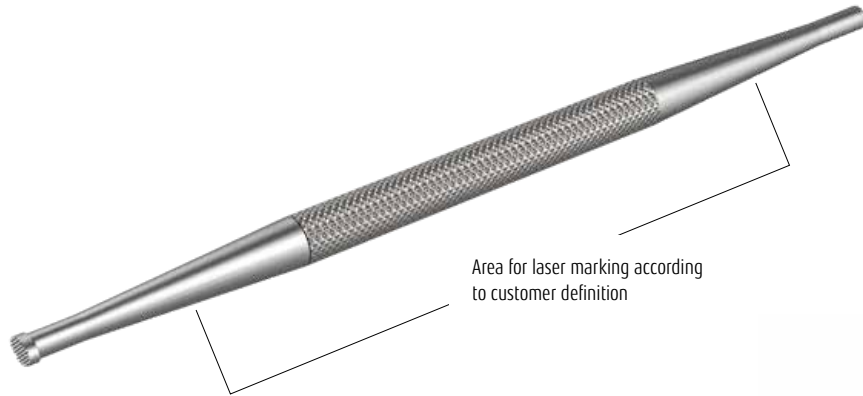


R20-0445XX-1F

See page 20–22 for handle details and specifications

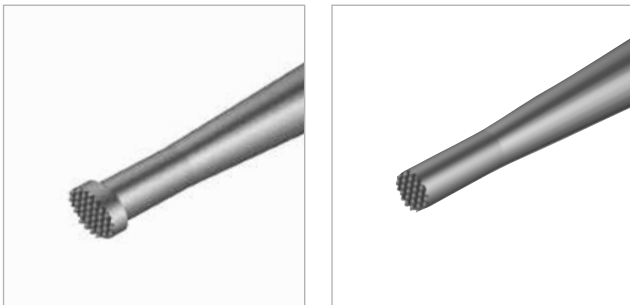
GRAFT COMPACTOR

LENGTH	END DIAMETER	SHAFT	ITEM-ID
240 mm	ø 6 mm / ø 8 mm	ø 12.0 mm	R16-EH6000-00



Area for laser marking according to customer definition

Design and dimensions can be customized



GRAFT BLOCK

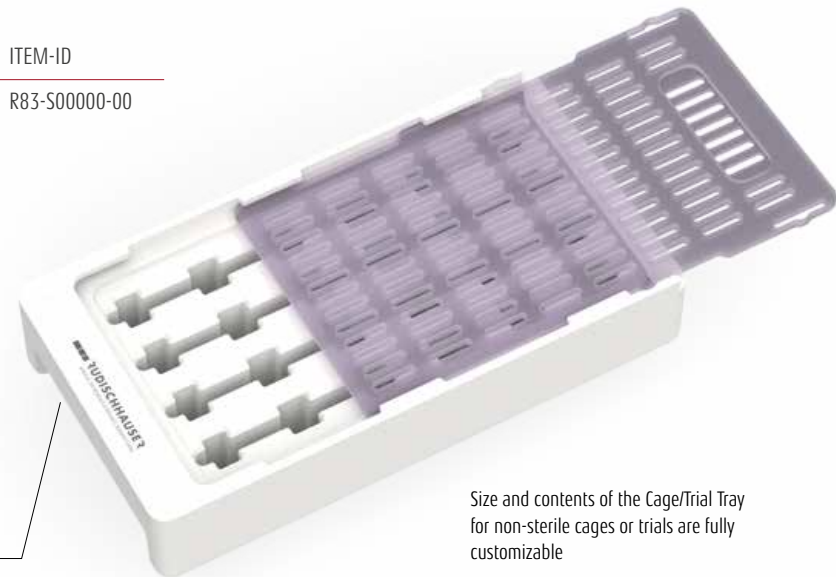
DIAMETER	HEIGHT	ITEM-ID
ø 45 mm	26 mm	R16-K00000-FB



Design, material, color and shape can be customized

CAGE/TRIAL TRAY

ITEM-ID
R83-S00000-00



Area for laser marking according to customer definition

Size and contents of the Cage/Trial Tray for non-sterile cages or trials are fully customizable

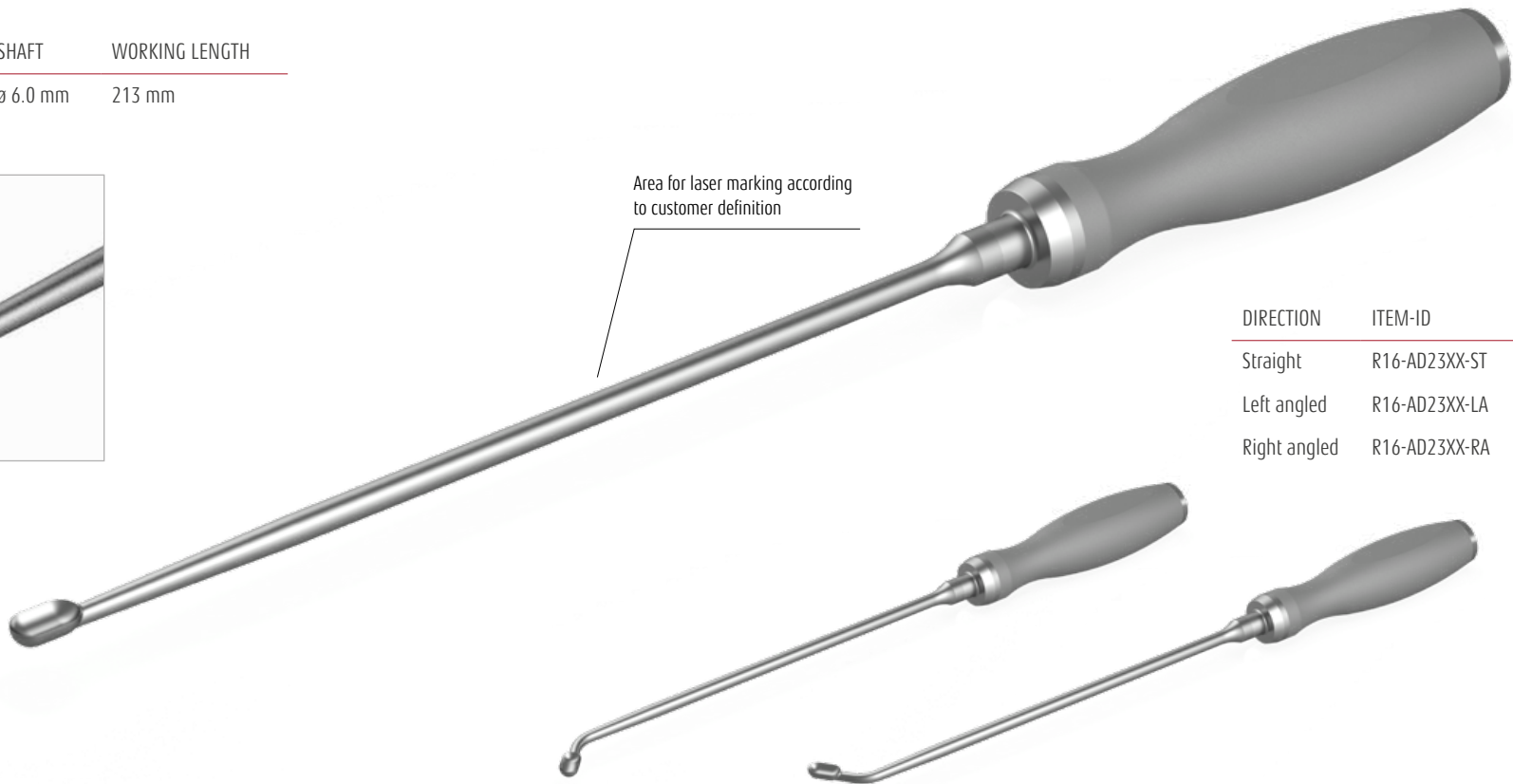


SHARP SPOONS

SPOON (LxWxH)	SHAFT	WORKING LENGTH
14x8x4.5 mm	ø 6.0 mm	213 mm



Area for laser marking according to customer definition



DIRECTION	ITEM-ID
Straight	R16-AD23XX-ST
Left angled	R16-AD23XX-LA
Right angled	R16-AD23XX-RA

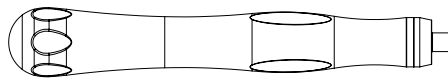
AVAILABLE HANDLES



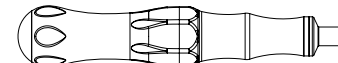
R20-0123XX-1F



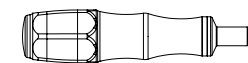
R20-0125XX-1F



R20-0129XX-1F



R20-0223XX-2F



R20-0223XX-1F

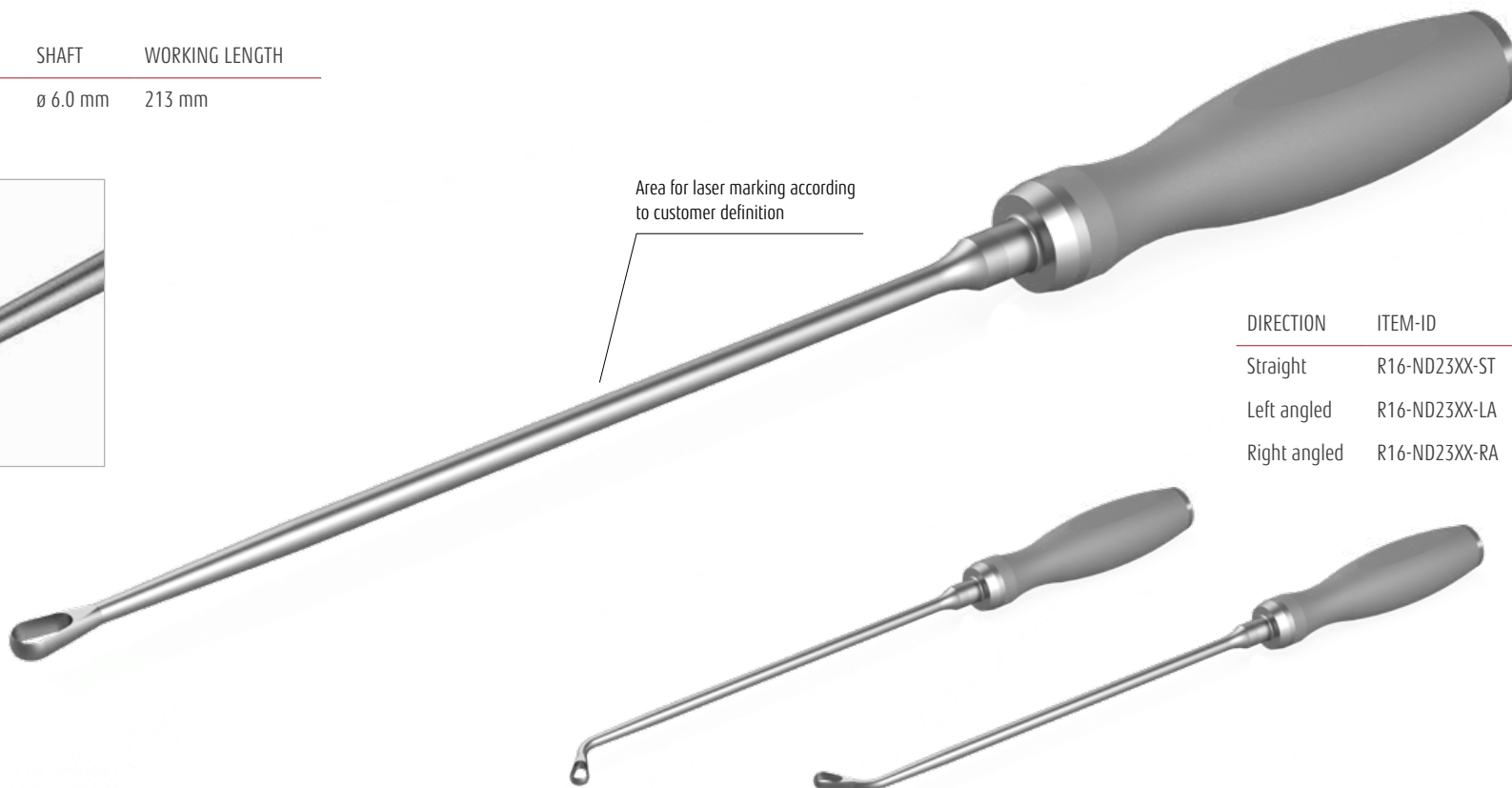
See page 20–22 for handle details and specifications

LOOP CURETTES

LOOP	HEIGHT	SHAFT	WORKING LENGTH
11x8 mm	4 mm	∅ 6.0 mm	213 mm



Area for laser marking according to customer definition



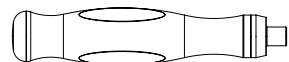
DIRECTION	ITEM-ID
Straight	R16-ND23XX-ST
Left angled	R16-ND23XX-LA
Right angled	R16-ND23XX-RA

TRAY 02 – INSERT

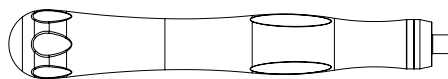
AVAILABLE HANDLES



R20-0123XX-1F



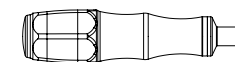
R20-0125XX-1F



R20-0129XX-1F



R20-0223XX-2F



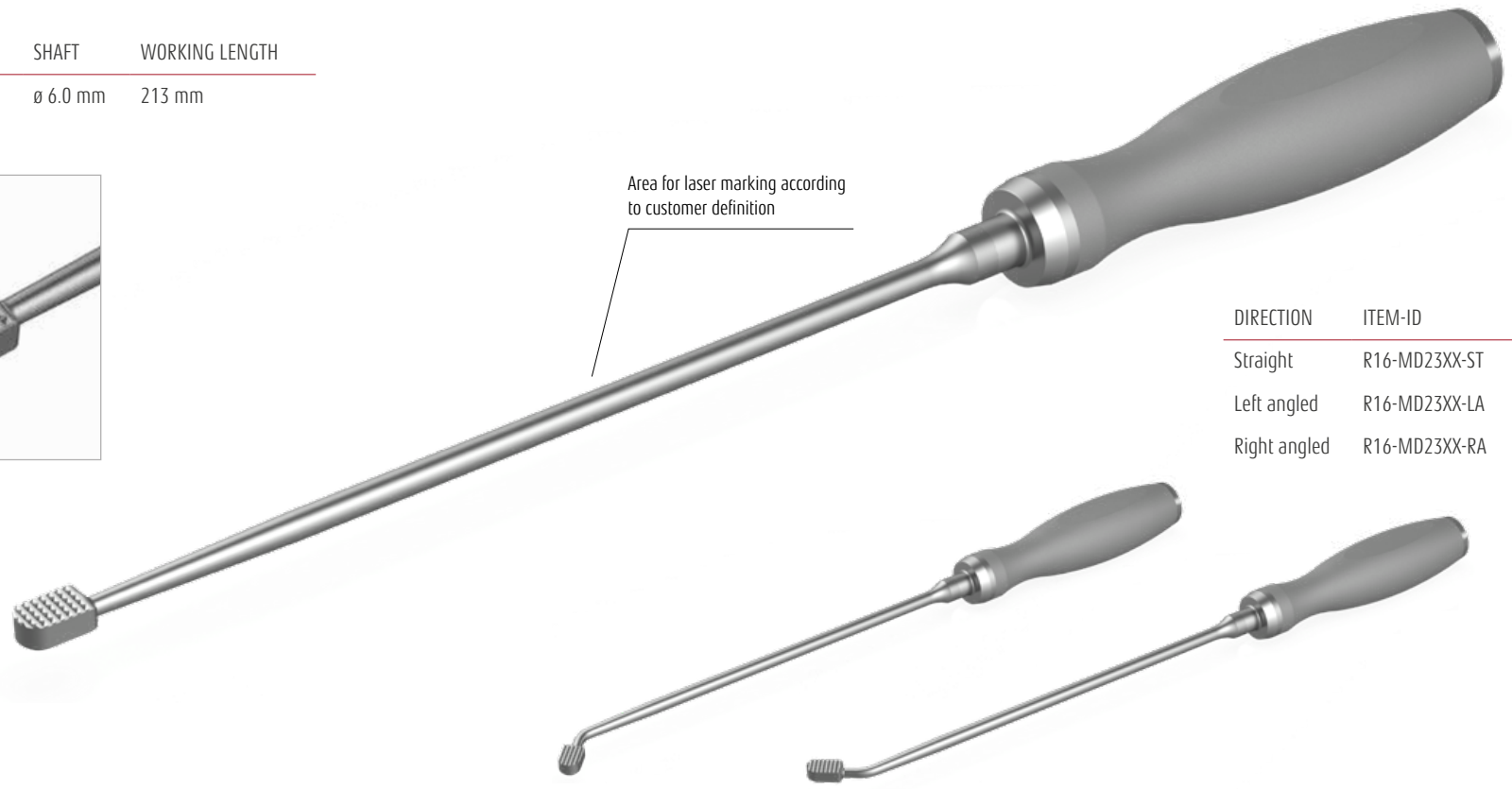
R20-0223XX-1F

See page 20–22 for handle details and specifications



ENDPLATE RASPS

RASP TIP	HEIGHT	SHAFT	WORKING LENGTH
15 x 9 mm	6.8 mm	ø 6.0 mm	213 mm



DIRECTION	ITEM-ID
Straight	R16-MD23XX-ST
Left angled	R16-MD23XX-LA
Right angled	R16-MD23XX-RA

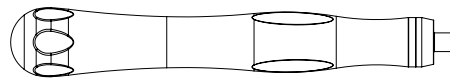
AVAILABLE HANDLES



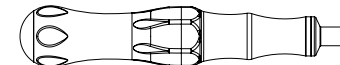
R20-0123XX-1F



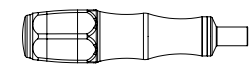
R20-0125XX-1F



R20-0129XX-1F



R20-0223XX-2F

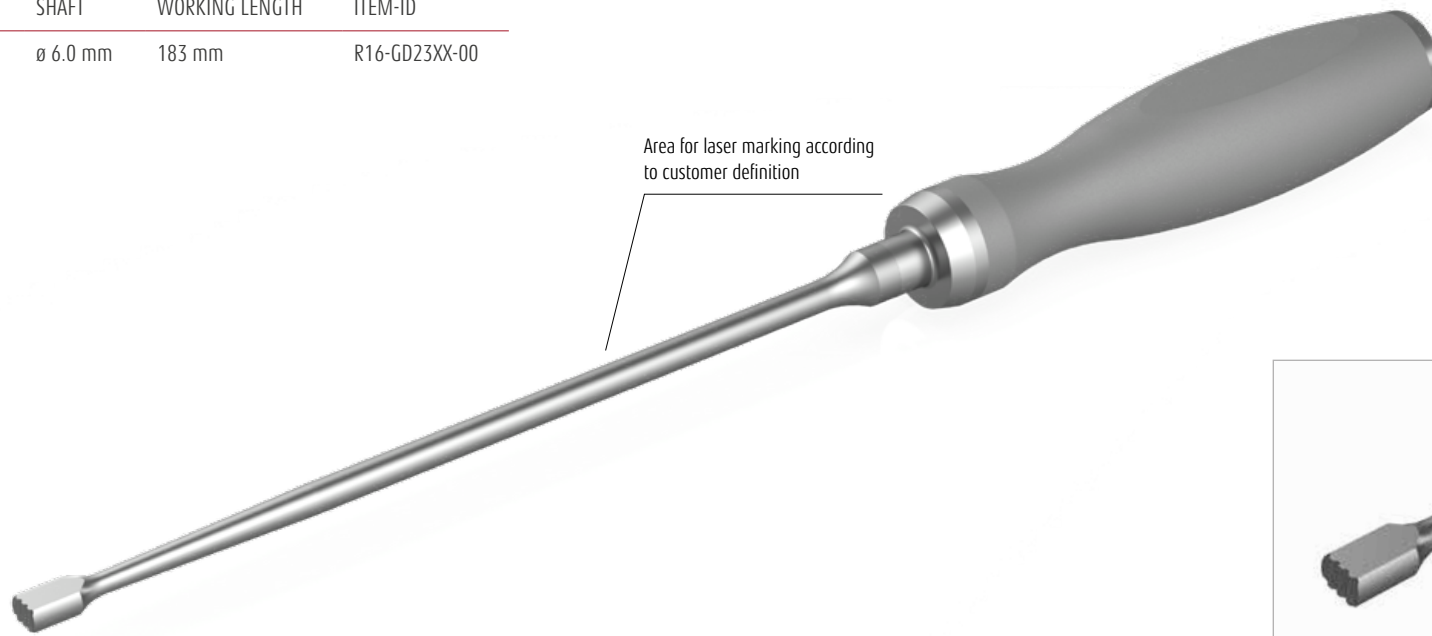


R20-0223XX-1F

See page 20–22 for handle details and specifications

CAGE PUSHER

WIDTH	HEIGHT	SHAFT	WORKING LENGTH	ITEM-ID
7.5 mm	5 mm	∅ 6.0 mm	183 mm	R16-GD23XX-00

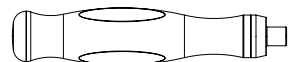


Can be customized according to specific cage design

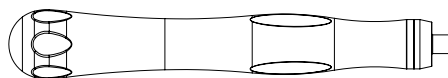
AVAILABLE HANDLES



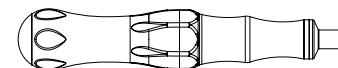
R20-0123XX-1F



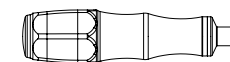
R20-0125XX-1F



R20-0129XX-1F



R20-0223XX-2F



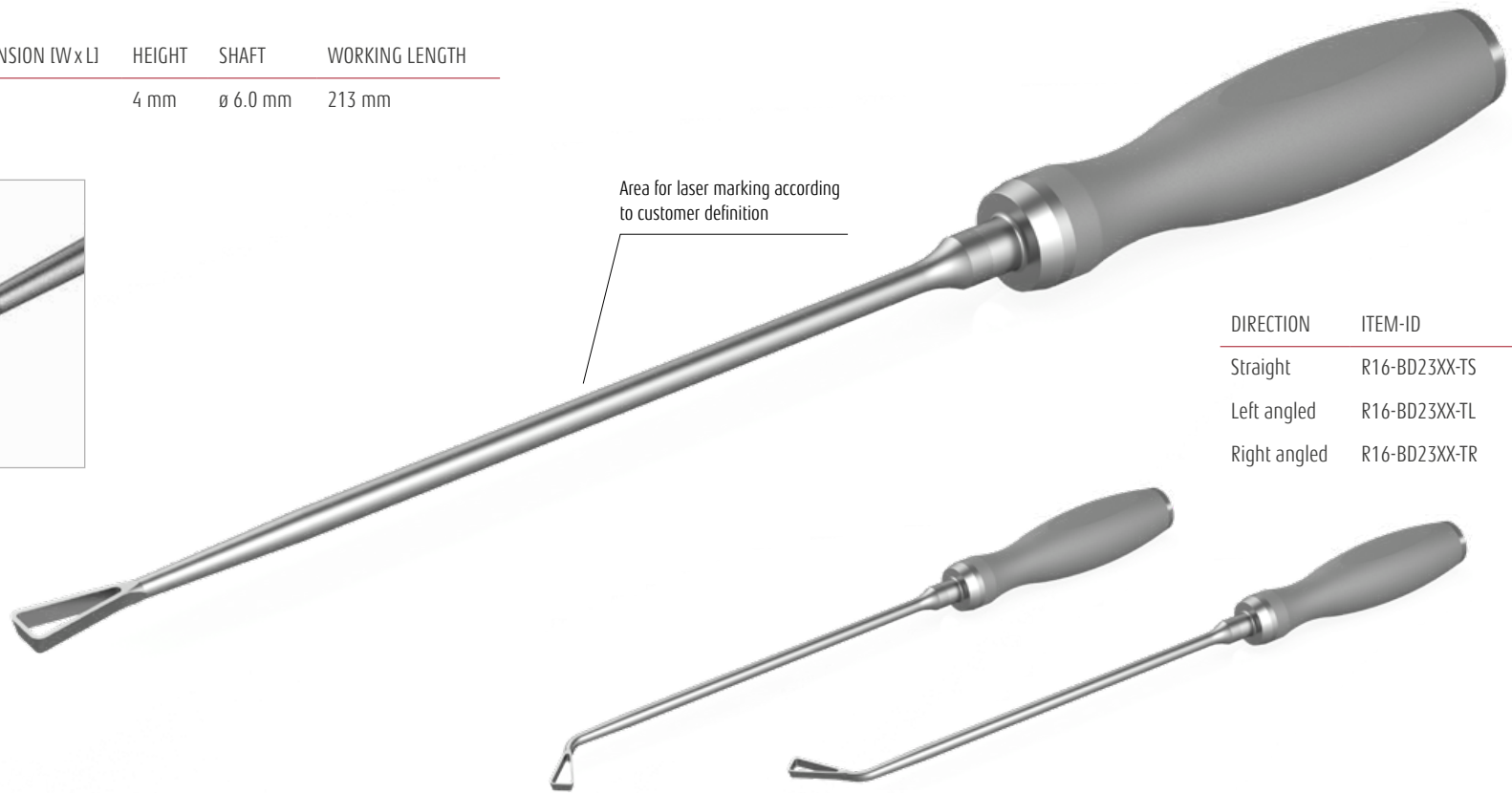
R20-0223XX-1F

See page 20–22 for handle details and specifications



TRIANGLE CURETTES

WIDTH	INNER DIMENSION (WxL)	HEIGHT	SHAFT	WORKING LENGTH
10 mm	8 x 20 mm	4 mm	ø 6.0 mm	213 mm



DIRECTION	ITEM-ID
Straight	R16-BD23XX-TS
Left angled	R16-BD23XX-TL
Right angled	R16-BD23XX-TR

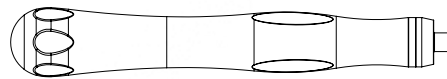
AVAILABLE HANDLES



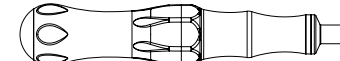
R20-0123XX-1F



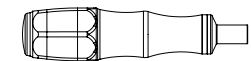
R20-0125XX-1F



R20-0129XX-1F



R20-0223XX-2F
















R20-0223XX-1F

See page 20–22 for handle details and specifications

HANDLES

SILICONE HANDLES

AVAILABLE COLORS

CODE	COLOR
01	 RAL 1016 yellow
02	 RAL 1006 corny yellow
03	 RAL 1004 orange
04	 RAL 3000 dark red
05	 RAL 6010 green
06	 RAL 5015 sky blue
07	 RAL 5002 ultramarine blue
08	 RAL 5010 dark blue
09	 RAL 7031 dark grey
10	 RAL 9005 black
11	 RAL 4008 purple
12	 RAL 3001 signal red
13	 RAL 1107077 neon green

COLOR CODE

The **XX** in the item number must be replaced with the corresponding color code.

R20-0723**04**-1F [RAL 3000, dark red]

All materials are conform to regulatory requirements.

Handle area for customization with own logo or text

Soft touch silicone, gapless injection molded – no contamination

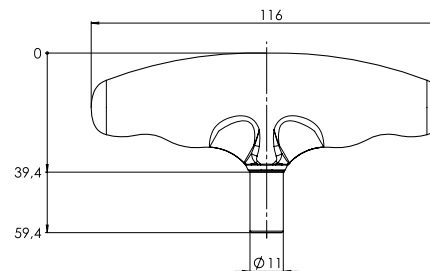
High quality, brushed stainless steel



T-HANDLES

R20-0723XX-1F

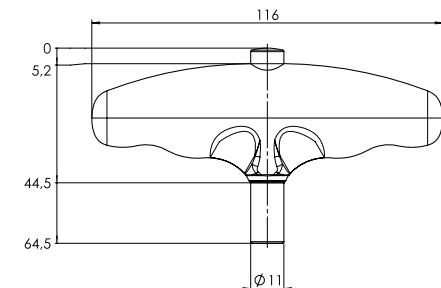
silicone length: 116 mm
height: 59 mm



R22-0723XX-19

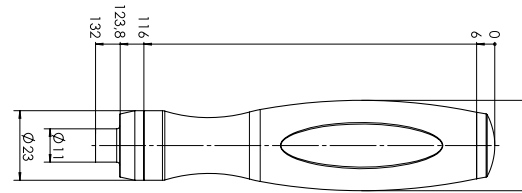
Handle with strike cap

silicone length: 116 mm
height: 64,5 mm

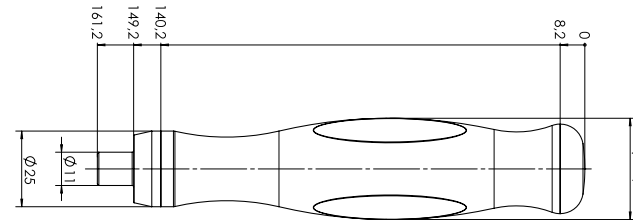


STRAIGHT HANDLES

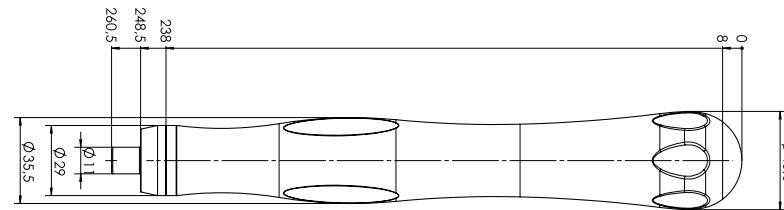
R20-0123XX-1F

silicone length: 110 mm
overall length: 132 mm

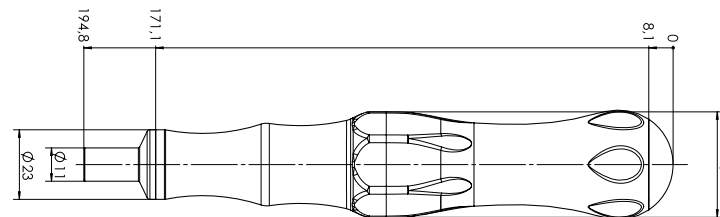
R20-0125XX-1F

silicone length: 132 mm
overall length: 161,2 mm

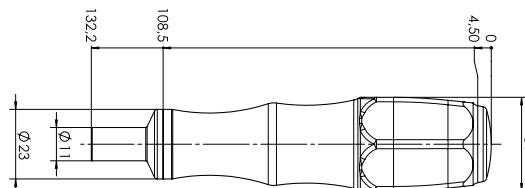
R20-0129XX-1F

silicone length: 230 mm
overall length: 260,5 mm

R20-0223XX-2F

silicone length: 163 mm
overall length: 194,8 mm

R20-0223XX-1F

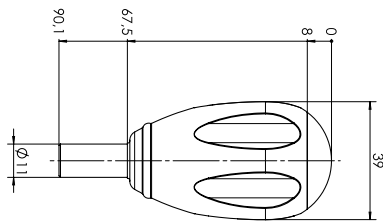
silicone length: 104 mm
overall length: 132,2 mmOther handle types and
customizations available
on request

SILICONE HANDLES

KNOBS

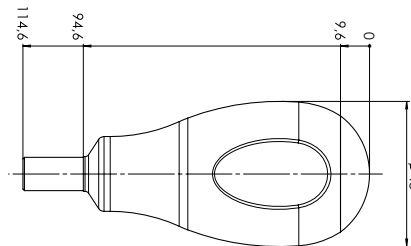
R20-0441XX-1F

silicone length: 59,5 mm
overall length: 90,1 mm



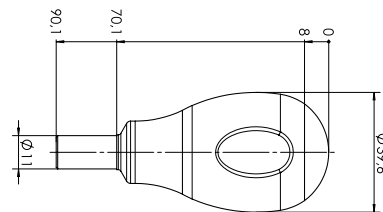
R20-0448XX-1F

silicone length: 85 mm
overall length: 115 mm



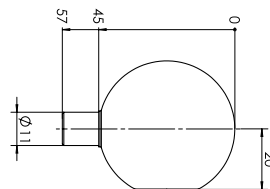
R20-0440XX-1F

silicone length: 63 mm
overall length: 90 mm



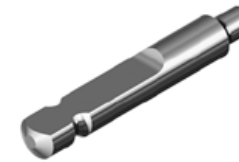
R20-0445XX-1F

silicone length: 45 mm
overall length: 57 mm



COUPLING SYSTEMS

AO



LARGE AO



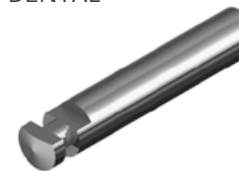
1/4"



HUDSON



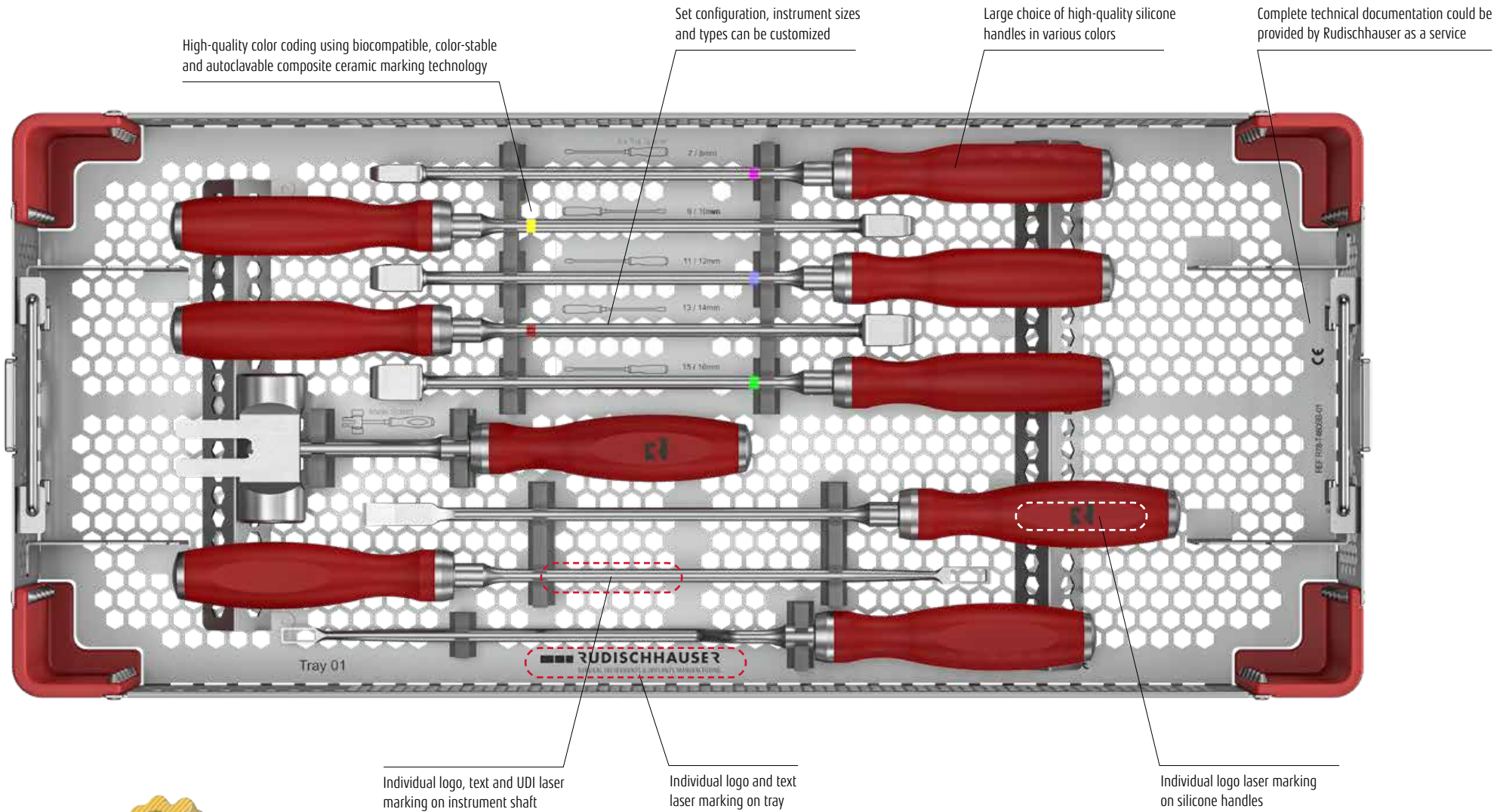
DENTAL



Dimensions and specifications available on request



CUSTOMIZATION OPTIONS



CUSTOMIZATION



ADAPTATION TO YOUR LUMBAR CAGES
All instruments can be customized to perfectly fit your cage designs

THE "ONE FITS ALL" – LUMBAR CAGE SET

In the last 30 years of lumbar fusion – open posterior lumbar fusion technologies – we have experienced several generations of posterior fusion implants from the first threaded cages and thereafter to the first impacted cages to surface modified PEEK cages or 3D printed titanium cages. Several biomaterials from Titanium to PLAs to PEEK to PEKK and back to Titanium with or without autologous, allogenic or synthetic cells or growth factors have piqued great interest to improve spinal fusion.

Posterior support approach and preparation techniques have improved in a similar way, becoming systematically more anatomy focused, and less destructive (less tissue and nerve damage) and minimal invasive approaches stimulating repair and reconstruction have emerged. The technological and innovative advancements of the supporting instruments have enhanced knowledge, experience and generated evidence in a more natural way like a normal learning curve.

Combined with the surgical experience of European lead surgeons, Rudischhauser has developed a "ONE FITS ALL" lumbar prep set to help their customers to provide surgeons with preparation tools respecting the endplate anatomy and function for a fast and sustainable lumbar bone fusion.

The design of the instrument set allows for adaptation to the different posterior fixation devices and fusion cages marketed. It unifies easily the surgical approach and delicate preparation of the deeper lumbar structures, supporting repair, reconstruction and enhancing early bone fusion.



30+ years of technological development and state of the art spinal instrument manufacturing are the cornerstone of Rudischhauser Surgical Instruments Manufacturing GmbH Tuttlingen, Germany's No.1 location for surgical instrument production.

Feeling honored to support the Rudischhauser R&D and production team.

A handwritten signature in blue ink, appearing to read 'Hans Meisel'.

Hans Jörg Meisel, MD PhD

Director Center of Neurosciences/Chair Department of Neurosurgery BG
Klinikum Bergmannstrost, Halle, Germany
www.bergmannstrost.de

Honorary Professor – Danube University Krems, Austria
President – Regenerate Europe e. V.
Chair – BioSpine – Biotechnologies for Spinal Surgery
Executive Board – AOSpine Knowledge Forum Degenerative and Biologics

ABOUT RUDISCHHAUSER GMBH

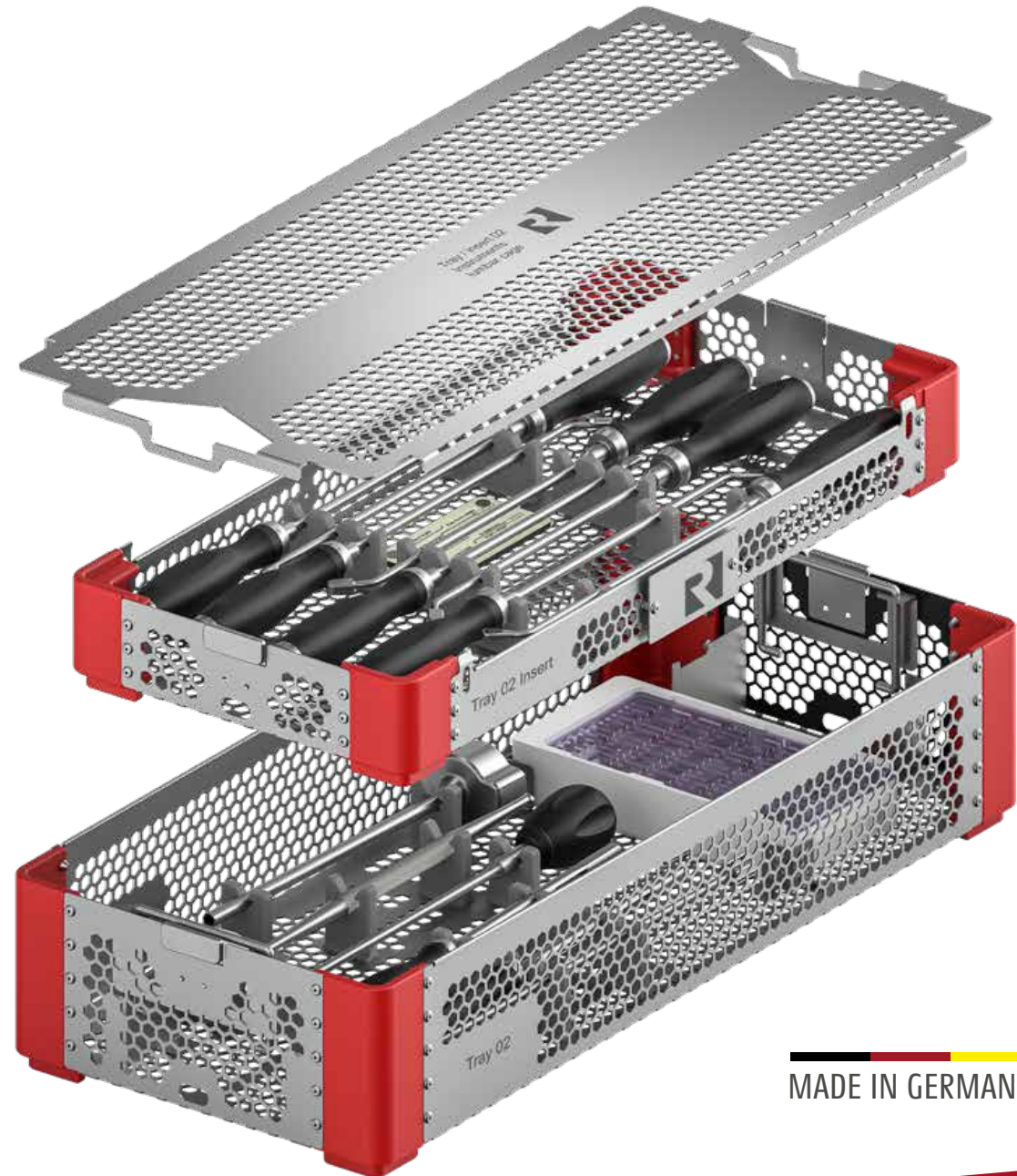
We are your contract manufacturer and development partner for superior-quality instruments and implants in all areas of spinal surgery, orthopaedics and traumatology. Employing the latest technology for development and manufacturing, we meet the regulatory requirements through validated processes and procedures to ensure your competitiveness in the international market.

Simply e-mail or call us. We welcome any challenge.



SPECIALIST IN SPINE, ORTHO & TRAUMA
INSTRUMENTS AND IMPLANTS

QUALITY IS OUR BUSINESS



RUDISCHHAUSER

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