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# Centrau Medical

FOCUS ON HUMAN HEALTH  
PROVIDE ORTHOPEDIC INSTRUMENT  
SOLUTIONS

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*Cervical and Spine Fix Instrument*

## ABOUT US CENTRAU MEDICAL

Centrau Medical are professional in orthopedic products, keeping focusing on human health and providing orthopedic solutions. We specialize in the production of orthopedic instruments and orthopedic instrument sets, and the processing according to customers' design as OEM. Our factory has experienced R&D and QC team which has over 20 years of orthopedic professional experience.

Our equipment includes Germany Schutte CNC grinding machine, Swiss Rollomatic CNC grinding machine, Japanese Citizen and Star 9 Axis Longitudinal Turning and Milling Center, USA HASS 5 Axis Machine Tool Center, three coordinates, projector and all kinds of necessary testing equipment.

Our orthopedic instruments include all kinds of Bone Drill Bit, Reamer, Rasp, Broach, and Acetabular Reamer. In addition to the production of various individual instrument, we also produce the following types of Instrument Sets.

Plate and Screw Fix Instrument Set, including CMF Instrument Set, Hand and foot Instrument Set, Distal Radius Instrument Set, Small Fragment Instrument Set, Large Fragment Instrument Set, Small Fragment LCP Instrument Set, Large Fragment LCP Instrument Set, VA Instrument Set, LISS Instrument Set, (Adult/Pediatrics) Osteotomy Instrument Set, Cable Instrument Set, Screw Removal Instrument Set and so on.

Cannulated Screw Instrument Set, including Compression Cannulated Screw Instrument

Set, various Headless Cannulated Screw Instrument Set and so on.

Locking Nail Fix Instrument Set, including Ulna and Radius Nail Instrument Set, Elastic Nail Instrument set, Humeral Nail Instrument Set, Gamma Nail Instrument Set, PFNA Nail Instrument Set, TATAN Nail Instrument Set, Femoral Nail Instrument Set, Femoral Retrograde Nail Instrument Set, Tibia Nail Instrument Set, DTN Instrument Set, Ankle Fusion Nail Instrument Set, Fibular Nail Instrument Set, Nail Removal Instrument Set and so on.

Cervical and Spine Fix Instrument Set, including Anterior Cervical Instrument Set , Spine System Instrument Set, Cervical Cage Instrument Set, PLIF/TLIF Cage Instrument Set, Spine Minimally Invasive System Instrument Set, Spine Endoscope Instrument Set and so on.

Joints Fix Instrument Set, including Hip Instrument Set, Knee Instrument Set, ACL Instrument Set, Endoscope Instrument Set and so on.

In addition, there are Dental instrument set and various sterilize boxes for various instruments.

All of these, we can not only produce according to the customer's drawings, but also design and manufacture the instrument according to the customer's orthopedic implants.





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## **Cervical and Spine Fix Instrument Set** ..... 01-42

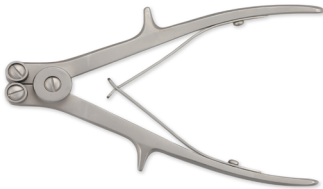
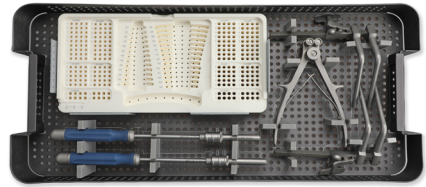
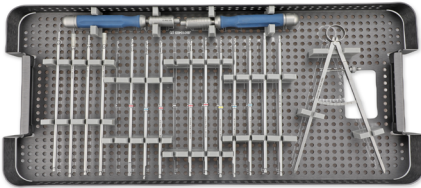
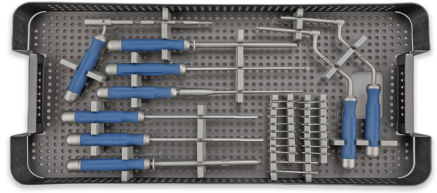
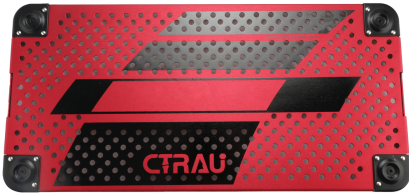
- Anterior Cervical Instrument Set
- Posterior Cervical Instrument Set
- Cervical Cage Instrument Set
- Lumbar Cage Instrument Set
- Spine System Instrument Set
- Spine Minimally Invasive System Instrument Set
- Spine Scoliosis Instrument Set
- Retractor Instrument Set
- Endoscope Instrument Set for Spine
- Spine Screw Removal Instrument Set

## **Instrument Parts and OME Parts** ..... 43-48

- Radiofrequency Ablation System
- All Kinds of Screwdrivers
- Curette
- Interventional Puncture Needle
- Benders and Cutters
- Handle (Quick change type, Torque type, Ratchet type, special use)
- All Kinds of Taps

# Anterior Cervical Instrument Set

Instrument No	Product Description
1161.06010	Plate Bneder
A01.A19025	Installing Handle
A01.A19030	Distractor Pin
A01.JB010101	Radiographic Pin, impact type
A01.JB010102	Radiographic Pin, thread type
A01.JB010103	Tap $\phi$ 3.3
A01.JB010104	Tap $\phi$ 3.8
A01.JB010105	Drill $\phi$ 2.3 10mm
A01.JB010106	Drill $\phi$ 1.8 10mm
A01.JB010107	Drill $\phi$ 2.3 12mm
A01.JB010108	Drill $\phi$ 1.8 12mm
A01.JB010109	Drill $\phi$ 2.3 14mm
A01.JB010110	Drill $\phi$ 1.8 14mm
A01.JB010114	Awl, adjustable type 7mm
A01.JB010113	Awl, fixed type
A01.JB010301	Drill Guide, fixed type
A01.JB010302	Drill Guide, adjustable type
A01.JB010401	Plate Holder 200mm
A01.JB010402	Pin Inserter
A01.JB010403	Quick Coupling Handle $\phi$ 4.5
A01.JB010404	Distractor, right
1161.17010	Distractor, left
A01.JB010405	Vertebral Gauge 100mm
A01.JB010406	Screwdriver
A01.JB010407	Screw Holding Sleeve
A01.JB010408	Screwdriver Shaft T10
A01.JB010409	Locking Screwdriver 264mm
A01.JB010502	Screw Caddy



1161.06010 Plate Bneder



A01.A19025 Installing Handle



A01.A19030 Distractor Pin



A01.JB010101 Radiographic Pin, impact type;  
A01.JB010102 Radiographic Pin, thread type



A01.JB010103 Tap  $\phi$ 3.3;  
A01.JB010104 Tap  $\phi$ 3.8



A01.JB010105 Drill  $\phi$ 2.3 10mm;  
A01.JB010106 Drill  $\phi$ 1.8 10mm;  
A01.JB010107 Drill  $\phi$ 2.3 12mm;  
A01.JB010108 Drill  $\phi$ 1.8 12mm;  
A01.JB010109 Drill  $\phi$ 2.3 14mm;  
A01.JB010110 Drill  $\phi$ 1.8 14mm



A01.JB010114 Awl, adjustable type 7mm;  
A01.JB010113 Awl, fixed type



A01.JB010301 Drill Guide, fixed type;  
A01.JB010302 Drill Guide, adjustable type



A01.JB010401 Plate Holder 200mm



A01.JB010402 Pin Insertor



A01.JB010403 Quick Coupling Handle  
 $\phi$ 4.5



A01.JB010404 Distractor, right;  
1161.17010 Distractor, left



A01.JB010405 Vertebral Gauge 100mm



A01.JB010406 Screwdriver;  
A01.JB010407 Screw Holding Sleeve



A01.JB010408 Screwdriver Shaft T10



A01.JB010409 Locking Screwdriver  
264mm

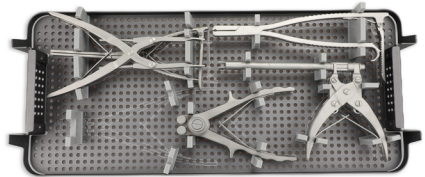
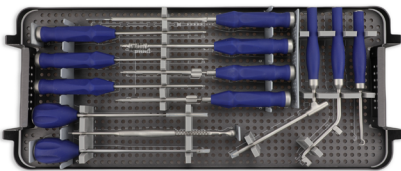
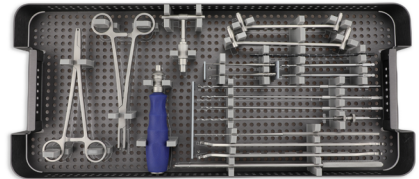
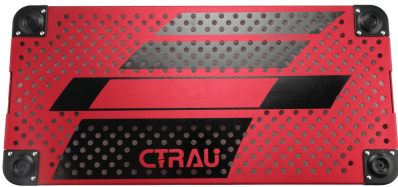


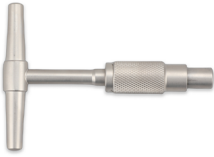
A01.JB010502 Screw Caddy

# Posterior Cervical Instrument Set

Instrument No	Product Description
0162.11010	Quick Coupling Handle (T type)
1261.62001-00	Guide Wire (6 / 8)
1261.62002-00	Guide Wire (10 / 12)
1261.63001-00	Depth Gauge
1261.65001-00	Hook Holder
1261.65002-00	Rod Holding Forcep $\phi 3.0$
1261.65003-00	Rod Holder (big)
1261.66001	Rod Bender (left)
1261.66002	Rod Bender (right)
1261.66011-00	Rod Bender
1261.67001	Holder,star SW3.0
1261.75001	Probe, straight
1261.75011	Marker, left
1261.75012	Marker, right
1261.75021	Template 3.0
1261.76001-00	Reduction Forceps
1261.77001-00	Distractor
1261.78001-00	Compressor
1262.61011	Drill Bit ( $\phi 2.4 \times 12$ )
1262.61012	Drill Bit ( $\phi 2.4 \times 14$ )
1262.61013	Drill Bit ( $\phi 2.4 \times 16$ )
1262.61014-00	Adjustable Drill
1262.64001	Tap
1262.61015	Drill
1262.67001-00	Quick Coupling Handle (Stright)
1270.61001-00	Awl
1270.62001-00	Wire Guide $\phi 2.4$
1270.63001-00	Multiaxial Screw Holder
1270.64001-00	Cortical Tap 3.5
1270.67002-00	Multiaxial Screwdriver SW3.0

Instrument No	Product Description
1270.67004-00	Hex Screwdriver SW3.0
1270.67003-00	Multiaxial Screwdriver
1270.68001-00	Counter Torque
1270.69001-00	Awl
1270.69011-00	Hook Trail





0162.11010 Quick Coupling Handle (T type)



1261.62001-00 Guide Wire (6/8) ;  
1261.62002-00 Guide Wire (10/12)



1261.63001-00 Depth Gauge



1261.65001-00 Hook Holder



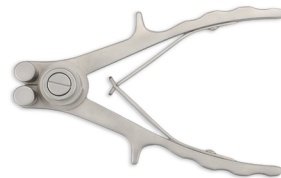
1261.65002-00 Rod Holding Forcep φ3.0



1261.65003-00 Rod Holder (big)



1261.66001 Rod Bender (left);  
1261.66002 Rod Bender (right)



1261.66011-00 Rod Bender



1261.67001 Holder,star SW3.0



1261.75001 Probe, straight



1261.75011 Marker, left;  
1261.75012 Marker, right



1261.75021 Template 3.0



1261.76001-00 Reduction Forceps



1261.77001-00 Distractor



1261.78001-00 Compressor



1262.61011 Drill Bit ( $\phi 2.4 \times 12$ ) ;  
1262.61012 Drill Bit ( $\phi 2.4 \times 14$ ) ;  
1262.61013 Drill Bit ( $\phi 2.4 \times 16$ )



1262.61014-00 Adjustable Drill



1262.64001 Tap; 1262.61015 Drill



1262.67001-00 Quick Coupling Handle  
(Stright)



1270.61001-00 Awl



1270.62001-00 Wire Guide  $\phi 2.4$



1270.63001-00 Multiaxial Screw Holder



1270.64001-00 Cortical Tap 3.5



1270.67002-00 Multiaxial Screwdriver  
SW3.0



1270.67004-00 Hex Screwdriver SW3.0;  
1270.67003-00 Multiaxial Screwdriver



1270.68001-00 Counter Torque



1270.69001-00 Awl

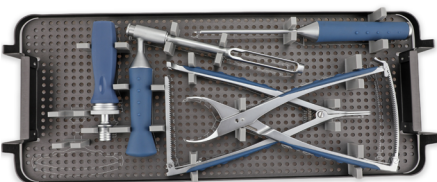
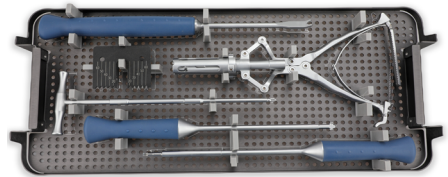
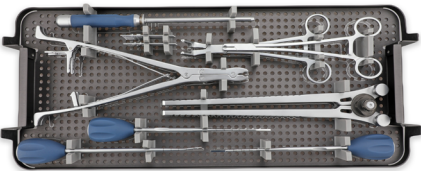
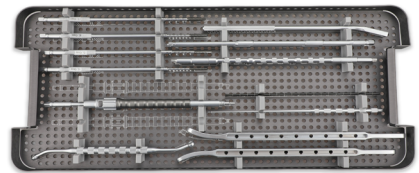


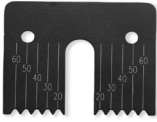
1270.69011-00 Hook Trail

## 5.5 Spine System Instrument Set

Instrument No	Product Description
0881.03000	Measuring Plate
0881.05000	Double-head Screwdriver (for screw)
0881.05001	Double-head Screwdriver (for crosslink)
0881.05100	Rod Holder
0881.06000	Rod Bender
0881.06050	Template $\phi 4.0 \times 210$
0881.07000	Locking Screwdriver, T type
0881.13000	Breaker
0881.15060	Probe, straight
0881.16000	Rod Rotation Wrench
0881.16002	Rod Bender (left)
0881.16003	Rod Bender (right)
0881.16120	Rod Reduction Forcep, frog type
0881.17101	Power Gripper
0887.03000	Tap $\phi 4.0$
0887.03002	Tap $\phi 5.0$
0887.03004	Tap $\phi 6.0$
0887.03006	Tap $\phi 7.0$
0887.07000	Locking Screwdriver
0887.07038	Multi-axial Screwdriver
0890.01002	Awl
0890.01088	Awl $\phi 3.2$ , straight
0890.01089	Awl $\phi 3.5$ , curved
0890.01089	Awl $\phi 3.5$ , curved
0890.07000	Crosslink Screwdriver
0890.07001	Rod Pusher
0890.07100	Counter Torque
0890.11000	Ratchet Handle
0890.11090	Quick Coupling Handle, T type
0890.12000	Alignment Tool

Instrument No	Product Description
0890.17001	Marker Screwdriver
0890.17002	Marker, ball-type
0890.17003	Marker, column-type
A01.A43016	Compressor
A01.A43017	Distractor
A01.TTQX-31	Rod Push Forcep

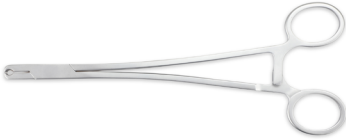




0881.03000 Measuring Plate



0881.05000 Double-head Screwdriver  
(for screw) ;  
0881.05001 Double-head Screwdriver  
(for crosslink)



0881.05100 Rod Holder



0881.06000 Rod Bender



0881.06050 Template  $\phi 4.0 \times 210$



0881.07000 Locking Screwdriver, T type



0881.13000 Breaker



0881.15060 Probe, straight



0881.16000 Rod Rotation Wrench



0881.16002 Rod Bender (left) ;  
0881.16003 Rod Bender (right)



0881.16120 Rod Reduction Forcep, frog type



0881.17101 Power Gripper



0887.03000 Tap  $\phi$ 4.0;  
0887.03002 Tap  $\phi$ 5.0;  
0887.03004 Tap  $\phi$ 6.0;  
0887.03006 Tap  $\phi$ 7.0



0887.07000 Locking Screwdriver



0887.07038 Multi-axial Screwdriver



0890.01002 Awl



0890.01088 Awl  $\phi$ 3.2, straight;  
0890.01089 Awl  $\phi$ 3.5, curved;  
0890.01089 Awl  $\phi$ 3.5, curved



0890.07000 Crosslink Screwdriver



0890.07001 Rod Pusher



0890.07100 Counter Torque



0890.11000 Ratchet Handle



0890.11090 Quick Coupling Handle, T type



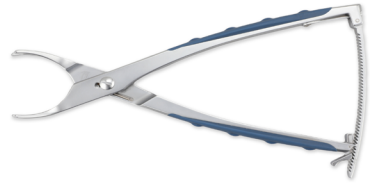
0890.12000 Alignment Tool



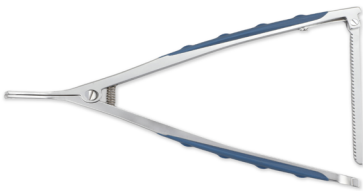
0890.17001 Marker Screwdriver



0890.17002 Marker, ball-type;  
0890.17003 Marker, column-type



A01.A43016 Compressor



A01.A43017 Distractor



A01.TTQX-31 Rod Push Forcep

## 6.0 Spine System Instrument Set

Instrument No	Product Description
0870.61001	Awl
0870.61050	Straight Awl
0870.61051	Curved Awl
0861.75010	Probe
0861.75011	Straight Probe
0870.77010	Marker Screwdriver
0870.77011	Marker
0870.77012	Marker
0869.64010	Tap 4.5
0869.64011	Tap 5.5
0869.64012	Tap 6.5
0869.67010	Screwdriver
0870.07117	Rod Pusher
0861.06001	Template $\phi 4.0 \times 210$
0861.76015	Rod Reduction Forceps
0869.76016	Rod Pusher
0861.76100	Counter Torque
0869.67100	Inner Locking Screwdriver
0861.76016	Counter-rotation Sleeve
0870.71015	Counter Torque Handle
0861.72011	Counter Torque
0861.72012	Reduction Sleeve
0869.67101	Outer Locking Screwdriver
0870.76012	Rod Bender
0861.73013	Break Off Iron
0870.71010	Torque Handle 9N.m
0870.71001	Ratchet Handle
0870.71012	Ratchet Handle, T
0870.76010	Rod Bender
0870.71013	Quick Coupling Handle

Instrument No	Product Description
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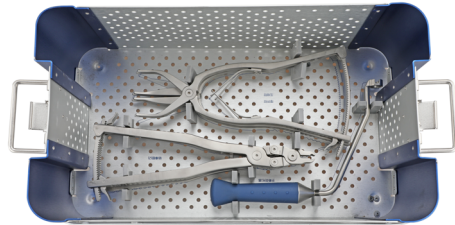
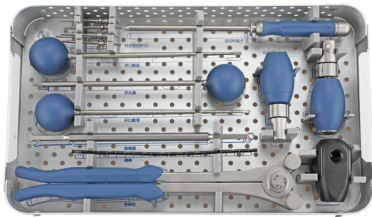
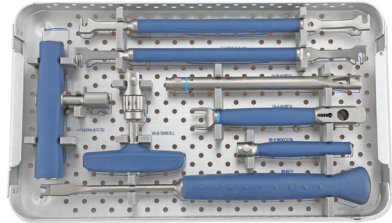
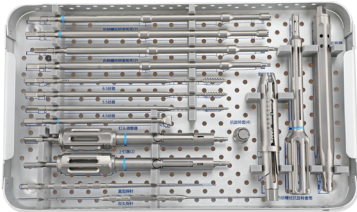
0870.67100	Break Off Protector
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0868.72010	Handle
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0861.76202	Compressor
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0861.76203	Rod Holder Forceps
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0861.76201	Distractor
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0870.61001 Awl



0870.61050 Straight Awl



0870.61051 Curved Awl



0861.75010 Probe



0861.75011 Straight Probe



0870.77010 Marker Screwdriver



0870.77011 Marker



0870.77012 Marker



0869.64010 Tap 4.5;  
0869.64011 Tap 5.5 ;  
0869.64012 Tap 6.5



0869.67010 Screwdriver



0870.07117 Rod Pusher



0861.06001 Template  $\phi 4.0 \times 210$



0861.76015 Rod Reduction Forceps



0869.76016 Rod Pusher



0861.76100 Counter Torque  
0869.67100 Inner Locking Screwdriver



0861.76016 Counter-rotation Sleeve



0870.71015 Counter Torque Handle



0861.72011 Counter Torque



0861.72012 Reduction Sleeve



0869.67101 Outer Locking Screwdriver



0870.76012 Rod Bender



0861.73013 Break Off Iron



0870.71010 Torque Handle 9N.m



0870.71001 Ratchet Handle



0870.71012 Ratchet Handle, T



0870.76010 Rod Bender



0870.71013 Quick Coupling Handle



0870.67100 Break Off Protector



0868.72010 Handle



0861.76202 Compressor



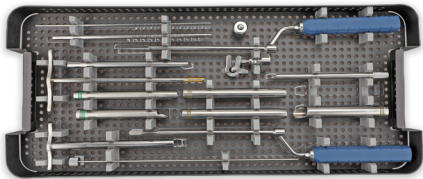
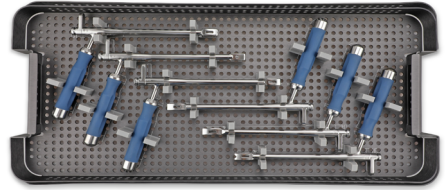
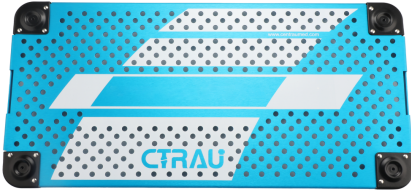
0861.76203 Rod Holder Forceps



0861.76201 Distractor

# Endoscope Cage Instrument Set

Instrument No	Product Description
A01.DJR01002	Shaver $\phi$ 7.3
A01.DJR01003	Reamer $\phi$ 7.3
A01.DJR03005	Outer Sleeve $\phi$ 13.5
A01.DJR03006	Outer Sleeve $\phi$ 15
A01.DJR03007	Dilator Step4 $\phi$ 8.5
A01.DJR03010	Dilator Step5 No.2 $\phi$ 13
A01.DJR04030	Dilator Step5 $\phi$ 13
A01.DJR04021	Endplate Rasp 30mm
A01.DJR04022	Threaded Rod M3
A01.DJR04023	Cage Inserter $\phi$ 12
A01.DJR06001	Trial 8mm $\times$ 22mm
A01.DJR06002	Trial 10mm $\times$ 22mm
A01.DJR06003	Trial 12mm $\times$ 22mm
A01.DJR06004	Trial 8mm $\times$ 26mm
A01.DJR06005	Trial 10mm $\times$ 26mm
A01.DJR06006	Trial 12mm $\times$ 26mm
A01.DRJ03009	Dilator Step4 No.2 $\phi$ 9.5
A01.DJR03011	Dilator Step6 No.2 $\phi$ 15
A01.DJR04027	Dilator Step1
A01.DJR04028	Dilator Step2
A01.DJR04031	Dilator Step6 $\phi$ 15
A01.DRJ04026	Quick Coupling Handle



A01.DJR01002 Shaver  $\phi$ 7.3



A01.DJR01003 Reamer  $\phi$ 7.3



A01.DJR03005 Outer Sleeve  $\phi$ 13.5;  
 A01.DJR03006 Outer Sleeve  $\phi$ 15;  
 A01.DJR03007 Dilator Step4  $\phi$ 8.5;  
 A01.DJR03010 Dilator Step5 No.2  $\phi$ 13;  
 A01.DJR04030 Dilator Step5  $\phi$ 13



A01.DJR04021 Endplate Rasp 30mm



A01.DJR04022 Threaded Rod M3



A01.DJR04023 Cage Inserter  $\phi$ 12



A01.DJR06001 Trial 8mm  $\times$  22mm;  
A01.DJR06002 Trial 10mm  $\times$  22mm;  
A01.DJR06003 Trial 12mm  $\times$  22mm;  
A01.DJR06004 Trial 8mm  $\times$  26mm;  
A01.DJR06005 Trial 10mm  $\times$  26mm;  
A01.DJR06006 Trial 12mm  $\times$  26mm



A01.DR03009 Dilator Step4 No.2 $\phi$ 9.5;  
A01.DJR03011 Dilator Step6 No.2 $\phi$ 15;  
A01.DJR04027 Dilator Step1;  
A01.DJR04028 Dilator Step2;  
A01.DJR04031 Dilator Step6  $\phi$ 15



A01.DR04026 Quick Coupling Handle

# Spine MIS Instrument Set

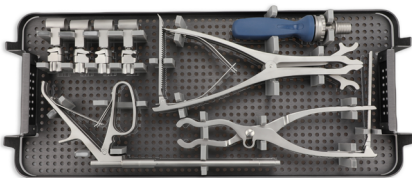
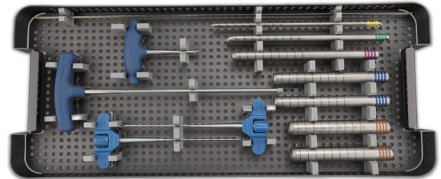
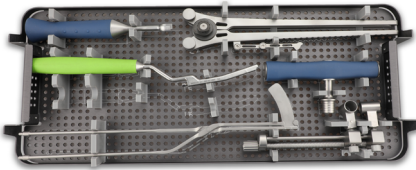
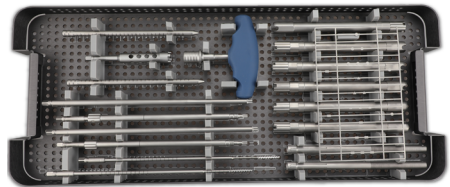
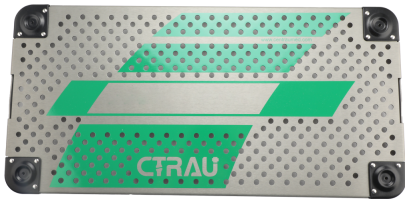
Instrument No	Product Description
0861.01010	Dilator 5.3mm
0861.01011	Dilator 9.4mm
0861.01012	Dilator 12.8mm
0861.01013	Dilator 16.8mm
0861.01015	Dilator 20.8mm
0861.01020	Extension Arm
0861.01021	Compress Sleeve
0861.63010	Rod Gauge
0861.63020	Template
0861.66010	Rod Bender
0861.75020	Guide Wire $\phi 1.5 \times 500$
0861.77021	Distractor, short
0861.77022	Distractor, long
0861.77030	Support Device
0861.77031	Support Device Shaft
0861.77035	Unlocking Forceps, gun-type
0861.77036	Distractor
0861.78011	Compressor
0867.64003	Tap 5.0
0867.64004	Tap 6.0
0867.67011	Screwdriver Shaft
0867.67020	Reduction Multi-axial Screwdriver
0867.67030	Compress Screwdriver
0870.07022	Hex Screwdriver
0870.07023	Counter Torque
0870.11001	Ratchet Handle
0870.65011	Rod Holder
0870.67020	Torx Screwdriver
0870.71102	Torque Handle 9N.m
0890.11091	Quick Coupling Handle, T type

Instrument No

Product Description

A01.A44077

Inserted Needle

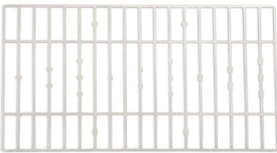




0861.01010 Dilator 5.3mm;  
0861.01011 Dilator 9.4mm;  
0861.01012 Dilator 12.8mm;  
0861.01013 Dilator 16.8mm;  
0861.01015 Dilator 20.8mm



0861.01021 Compress Sleeve



0861.63020 Template



0861.75020 Guide Wire  $\phi 1.5 \times 500$



0861.77022 Distractor, long



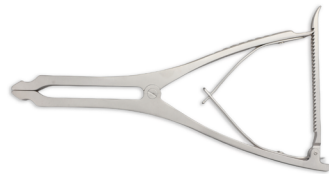
0861.01020 Extension Arm



0861.63010 Rod Gauge



0861.66010 Rod Bender



0861.77021 Distractor, short



0861.77030 Support Device



0861.77031 Support Device Shaft



0861.77035 Unlocking Forceps, gun-type



0861.77036 Distractor



0861.78011 Compressor



0867.64003 Tap 5.0;  
0867.64004 Tap 6.0



0867.67011 Screwdriver Shaft



0867.67020 Reduction Multi-axial  
Screwdriver



0867.67030 Compress Screwdriver



0870.07022 Hex Screwdriver



0870.07023 Counter Torque



0870.11001 Ratchet Handle



0870.65011 Rod Holder



0870.67020 Torx Screwdriver



0870.71102 Torque Handle 9N.m



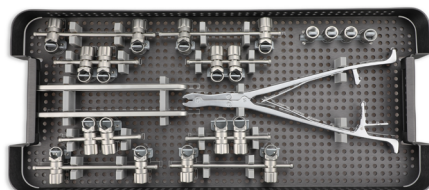
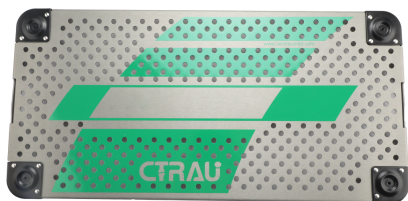
0890.11091 Quick Coupling Handle, T type

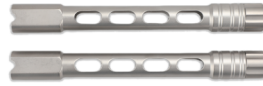
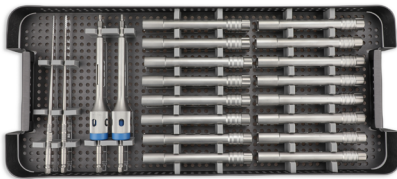
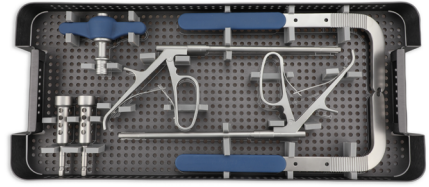
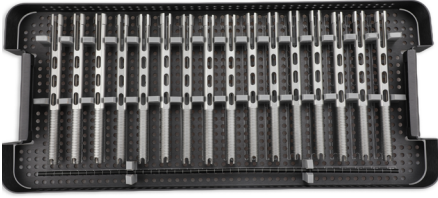


A01.A44077 Inserted Needle

# Spine Scoliosis Instrument Set

Instrument No	Product Description
0861.01023	Outer Sleeve
0861.01024	Compress Sleeve
0861.01025	Sliding Reduction Plate
0861.01026	Sliding Reduction Nut
0861.01027	Connector, small
0861.01028	Connector, large
0861.01029	Sleeve Adaptor
0861.77040	Unlocking Forcep, gun-type
0867.04040	Tap 4.0
0867.04041	Tap 4.5
0867.07055	Multiaxial Screwdriver
0870.06004	Rod Bender, right
0870.06003	Rod Bender, left
0870.11036	Quick Coupling Handle, T type
0881.06072	Template $\phi 5.5 \times 450$
0881.17101	Rod Rotation Forceps





0861.01023 Outer Sleeve



0861.01024 Compress Sleeve



0861.01025 Sliding Reduction Plate



0861.01026 Sliding Reduction Nut



0861.01027 Connector, small;  
0861.01028 Connector, large



0861.01029 Sleeve Adaptor



0861.77040 Unlocking Forcep, gun-type



0867.04040 Tap 4.0;  
0867.04041 Tap 4.5



0867.07055 Multiaxial Screwdriver



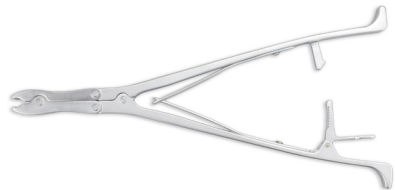
0870.06004 Rod Bender, right;  
0870.06003 Rod Bender, left



0870.11036 Quick Coupling Handle, T type



0881.06072 Template  $\phi 5.5 \times 450$

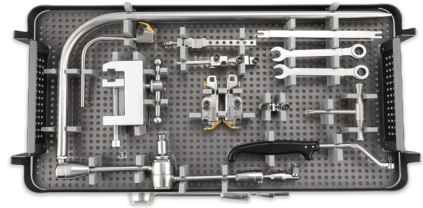
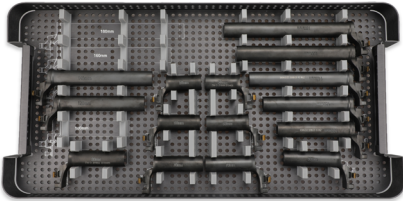
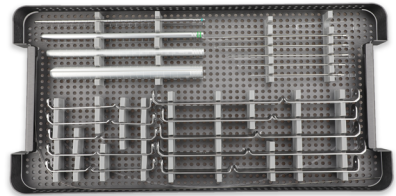


0881.17101 Rod Rotation Forceps

# Retractor Instrument Set

Instrument No	Product Description
0282.08021	Wrench SW12
A01.A44054	Guide Wire $\phi$ 1.4
A01.JD190201	Hook Handle $\phi$ 8
A01.JD190301	Sleeve1 $\phi$ 5.1mm
A01.JD190302	Sleeve2 $\phi$ 10.6mm
A01.JD190303	Sleeve3 $\phi$ 14mm
A01.JD190304	Sleeve4 $\phi$ 21.8mm
A01.JD190401	Connecting Rod 180mm
A01.JD190402	Vice Connecting Arm 15mm
A01.JD190403	Crosslink $\phi$ 7
A01.JD190404	Lateral Connecting Arm (inside) $\phi$ 11
A01.JD190405	Lateral Connecting Arm (outside) $\phi$ 7
A01.JD190407	Connecting Arm (left) 7mm
A01.JD190406	Connecting Arm (right) 7mm
A01.JD190410-11	Lateral Blade 50mm
A01.JD190414-15	Lateral Blade 60mm
A01.JD190418-19	Lateral Blade 70mm
A01.JD190424-25	Lateral Blade 80mm
A01.JD190427-28	Lateral Blade 90mm
A01.JD190420	Torx Screwdriver T40
A01.JD190440-A01.JD190449	Lateral Blade (right,left) 100mm、120mm-180mm
A01.JD190454	Fixed Wire 223mm
A01.JD190453	Fixed Wire 203mm
A01.JD190452	Fixed Wire 183mm
A01.JD190451	Fixed Wire 163mm
A01.JD190450	Fixed Wire 143mm
A01.JD190455	Support for Fixed Target Rod Wire 10.3mm
A01.JD190456	Target Device
A15.JD190408-09	Blade (right,left) 50mm
A15.JD190412-13	Blade (right,left) 60mm

Instrument No	Product Description
A15.JD190416-17	Blade (right,left) 70mm
A15.JD190422-23	Blade (right,left) 80mm
A15.JD190430-39	Blade (right,left) 100mm、120mm-180mm



0282.08021 Wrench SW12



A01.A44054 Guide Wire  $\phi$ 1.4



A01.JD190201 Hook Handle  $\phi$ 8



A01.JD190301 Sleeve1  $\phi$ 5.1mm;  
 A01.JD190302 Sleeve2  $\phi$ 10.6mm;  
 A01.JD190303 Sleeve3  $\phi$ 14mm;  
 A01.JD190304 Sleeve4  $\phi$ 21.8mm



A01.JD190401 Connecting Rod 180mm



A01.JD190402 Vice Connecting Arm  
 15mm



A01.JD190403 Crosslink  $\phi$ 7



A01.JD190404 Lateral Connecting Arm  
 (inside)  $\phi$ 11



A01.JD190405 Lateral Connecting Arm  
 (outside)  $\phi$ 7



A01.JD190407 Connecting Arm (left) 7mm;  
 A01.JD190406 Connecting Arm (right) 7mm



A01.JD190410-11 Lateral Blade 50mm;  
 A01.JD190414-15 Lateral Blade 60mm;  
 A01.JD190418-19 Lateral Blade 70mm;  
 A01.JD190424-25 Lateral Blade 80mm;  
 A01.JD190427-28 Lateral Blade 90mm



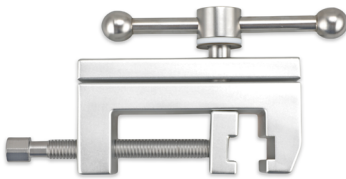
A01.JD190420 Torx Screwdriver T40



A01.JD190440-A01.JD190449 Lateral  
 Blade (right,left) 100mm、120mm-  
 180mm



A01.JD190454 Fixed Wire 223mm;  
 A01.JD190453 Fixed Wire 203mm;  
 A01.JD190452 Fixed Wire 183mm;  
 A01.JD190451 Fixed Wire 163mm;  
 A01.JD190450 Fixed Wire 143mm



A01.JD190455 Support for Fixed Target  
 Rod 10.3mm

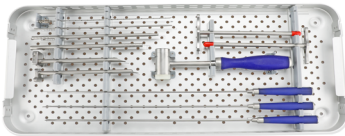
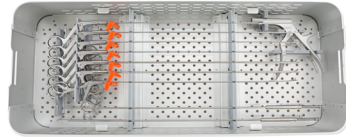


A15.JD190408-09 Blade (right,left)  
 50mm;  
 A15.JD190412-13 Blade (right,left)  
 60mm;  
 A15.JD190416-17 Blade (right,left)  
 70mm;  
 A15.JD190422-23 Blade (right,left)  
 80mm;  
 A15.JD190430-39 Blade (right,left)  
 100mm、120mm-180mm



A01.JD190456 Target Device

# Endoscope Instrument Set for Spine



11201130 Position Pin  $\phi 1.6 \times 200$



11734010 Positioning Rod  $\phi 3.0 \times 230$



11206140 Guide Wire  $\phi 1.0 \times 450$



11656080 Distractor  $\phi 7.5 \times 185$



11644130 Distraror  $\phi 6.3 \times 210$



11270510 Protecting Sleeve  $\phi 8.5 \times 150$



11279620 Working Tube  $\phi 7.5 \times 168$



11287150 Elevator  $\phi 3.0 \times 330$



11230080 Trepine  $\phi 7.5 \times 170(1)$



11288030 Gouge  $\phi 3.0 \times 330$



11310120 Kerrison Rongeur  $130^\circ \phi 3.5 \times 360$



11284050 Elevator  $\phi 2.5 \times 330$



11311000 Universal Handle



11312000 Hammer



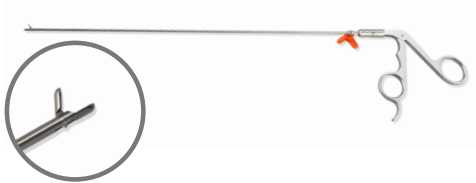
11306200 Punches  $0^\circ \phi 2.5 \times 330(1)$



11307200 PUNCHES 15° φ2.5×330(1)



11303130 Grasper φ2.5×330(1)



11301130 Grasper φ2.5×330(1)



11301410 Grasper φ3.5×330(1)



11304410 Grasper φ3.5×330(1)



11305130 Grasper φ2.5×330(1)



Endoscope Instrument



Curette φ4×320mm



Dilator φ8.5×225mm



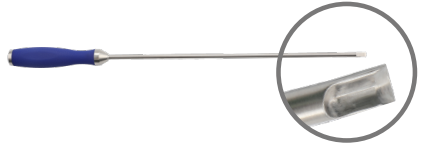
Dilator  $\phi 10 \times \phi 7.6 \times 175\text{mm}$



Dilator  $\phi 14.8 \times 10.2 \times 155\text{mm}$



Endoscopic Osteotome, U type  $\phi 4.5 \times 260$



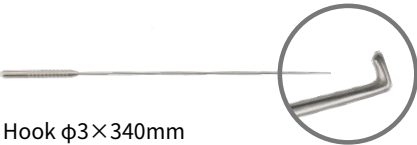
Endoscopic Osteotome, flat  $\phi 4.5 \times 260$



Endoscopic Working Sleeve  $\phi 5.5 \times 250\text{mm}$



Endoscopic Working Sleeve  $\phi 8.5 \times 9.5 \times 120\text{mm}$



Hook  $\phi 3 \times 340\text{mm}$



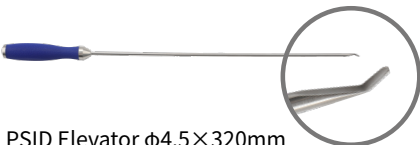
Osteotome, large curved  $4 \times 260$



Osteotome, small curved  $4 \times 260$



Osteotome, straight  $4 \times 260$



PSID Elevator  $\phi 4.5 \times 320\text{mm}$



Round Curette, small curved  $6 \times 250$



Round Curette, straight  $6 \times 250$

# Forceps(Kerrison)



## curved



curved  $\phi 2.5 \times 280\text{mm}$



curved  $\phi 2.5 \times 340\text{mm}$



curved  $\phi 2.8 \times 280\text{mm}$



curved  $\phi 3.5 \times 280\text{mm}$



curved  $\phi 3.5 \times 340\text{mm}$

## straight



straight  $\phi 2.8 \times 340\text{mm}$



straight  $\phi 3.5 \times 280\text{mm}$



straight  $\phi 3.5 \times 340\text{mm}$

# Forceps(Pituitary)



## straight



$\phi 2.5 \times 280\text{mm}$



$\phi 2.5 \times 330\text{mm}$



$\phi 3.5 \times 280\text{mm}$



$\phi 3.5 \times 330\text{mm}$



$\phi 4.0 \times 280\text{mm}$



$\phi 4.0 \times 330\text{mm}$

## ellipse 45°



Pituitary (ellipse 45°)  
 $\phi 3.0 \times 280\text{mm}$



Pituitary (ellipse 45°)  
 $\phi 3.0 \times 330\text{mm}$

## point tip



Pituitary (point tip)  
φ4.0×280mm



Pituitary (point tip)  
φ4.0×330mm

## spoon 45°



Pituitary (spoon 45°)  
φ2.5×280mm



Pituitary (spoon 45°)  
φ2.5×330mm

## toothed



Pituitary (toothed)  
φ3.5×280mm



Pituitary (toothed)  
φ3.5×330mm

# Rotator Kerrison Punch



## 90°



$\phi 2 \times 90^\circ \times 5.5 \times 280 \text{mm}$



$\phi 3 \times 90^\circ \times 5.5 \times 280 \text{mm}$



$\phi 4 \times 90^\circ \times 5.5 \times 280 \text{mm}$



$\phi 5 \times 90^\circ \times 5.5 \times 280 \text{mm}$

## 130°



$\phi 2 \times 130^\circ \times 3.5 \times 260 \text{mm}$



$\phi 2 \times 130^\circ \times 3.5 \times 330 \text{mm}$



$\phi 2 \times 130^\circ \times 5.5 \times 280 \text{mm}$



$\phi 3 \times 130^\circ \times 5.5 \times 280 \text{mm}$



$\phi 4 \times 130^\circ \times 5.5 \times 280 \text{mm}$



$\phi 5 \times 130^\circ \times 5.5 \times 280 \text{mm}$

## Rotator Punch Handle



# All Kinds of Screwdrivers



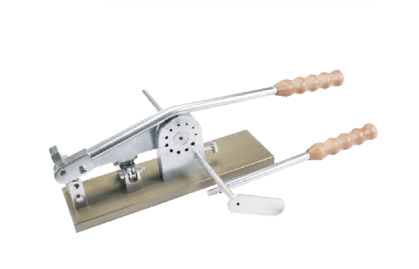
# Curette



# Interventional Puncture Needle



# Benders and Cutters







# Handle

(Quick change type, Torque type, Ratchet type, special use)



# All Kinds of Taps

