

Aesculap[®] Spine System Evolution

Universal Spinal System



Aesculap Spine

Spine System Evolution – It's time for a new approach



Keep your options open

Spine System Evolution is simple, quick and versatile

Greater flexibility in the treatment of spinal conditions makes life easier for the surgeon – and, more importantly, for the patient. The SSE range from Aesculap has been developed with precisely this principle in mind. The innovative system is based around just two key components that can be applied to a broad range of spinal fixation procedures, simply and effectively.

The modular nature of the implant system allows correction of diverse and even serious injuries or degenerative conditions in the lumbar spine, as well as marked deformities. Even for complex indications, this unique instrumentation system allows surgeons to choose from a number of alternative methods of fixation during the actual operation.

The two areas of application

- lumbar
- deformity

Greater flexibility with fewer implants? Spine System Evolutions modular design has all the answers.



■ lumbar

All good things come in threes: The system employs just a screw, a rod and a nut for secure fixation in the lumbar spine.

■ deformity

The unique design of the self-stabilizing clamp makes it an ideal solution for spinal deformity.



Success through simplicity

The versatility of SSE allows surgeons to treat each condition and patient individually. This state-of-the-art implant system is the result of our commitment to innovation, our experience and our expertise.

SSE is a simple yet effective approach, based on three components: the screw, the nut and the rod.

Three-point fixation achieves higher stability – and thanks to its innovative design, SSE is remarkably easy to use. Tightening the nut is sufficient to secure all the other elements. This modular system includes a selection of specially developed implants for the lumbar region of the spine, as well as for severe deformity. This allows the surgical technique to be adapted to each patient's specific requirements.

If the patient's bone structure is too weak to support standard or polyaxial screws, alternative components, such as clamps are also available. Whatever the spinal indication, there is an ideal solution.



Universal or specialty instrumentation? Achieve more with fewer components.



■ Three-point fixation

Three-point fixation with rods, screws and conical nuts increases biomechanical stability for deformities and for lumbar spine conditions.

■ self-stabilizing clamps

The design of these self-stabilizing clamps offers twin advantages: They allow both derotation and translation – techniques that are not normally possible without additional specialty instrumentation.



A state-of-the-art solution

The modular nature of the instrumentation and the design of the system offer a number of significant advantages. Three elements are connected at a single point.

The design of the self-stabilizing clamps lends the system additional versatility. They provide maximum stability in the upper thoracic region of the spine.



The three basic components – screws, rods and nuts – are the key to effective treatment of deformity and conditions of the lumbar spine. These elements of the modular instrumentation system are complemented by polyaxial screws, self-stabilizing clamps, hooks and cross plates. This array of different implants allows even the most complex and serious conditions to be treated more simply and flexibly than ever.



Rapid and simple assembly.

Spine System Evolution lumbar

Three components are all you need for stability, ease of handling and a wide variety of applications. The polyaxial screws provide additional versatility, and are suitable for practically all spinal conditions.

Only three components are required to stabilize the lumbar spine: screws, nuts and rods. SSE guarantees rapid and straightforward surgical procedures, and, highly stable fixation. A single nut holds all three components together – and its low-profile, conical design ensures excellent biomechanical stability.

The various standard screw lengths ensure perfect anchorage in all situations. In addition, the polyaxial screw opens up new ways of treating degenerative conditions and deformities. The polyaxial screw is fixed using the nut, and the angle of the pedicle screw set independently.





The strength of simplicity

Lumbar Instruments – Set Recommendation



	SSE Lumbar Instruments Necessary	5.2mm	6mm	5.2mm optional	6mm
FW618P	SSE Lumbar Instruments Tray	1	1		
FG280R	Centre punch	1	1		
FG281R	Trocar diam. 3.5mm for 6mm screw	1	1		
FG268R	Universal trocar	1	1		
FW144R	Pedicle marker	1	1		
FW145R	Pedicle marker	1	1		
FW024R	Three point rod bender	1	1		
FW021R	Compression forceps	1	1		
FW022R	Distraction forceps	1	1		
FW023R	Distraction forceps small	1	1		
FW012R	Derotation forceps	2	2		
FW516R	Bending template	1	1		
FW018R	Rod stabilizer	1	1		
FW154R	Marnaylever	1	1		
FW633R	Screwdriver	1			
FW631R	Nutdriver	1			
FW634R	Screwdriver		1		
FW632R	Nutdriver		1		
FW506R	Nutdriver with square end	1			
FW623R	Nutdriver with square end		1		1
FW542R	Torque wrench			1	1
FW501R	Rod stabilizer for torque wrench	1			
FW502R	Rod stabilizer for torque wrench		1		
FW507R	Centralizer	4			
FW624R	Centralizer		4		
FW503R	Short T-handle	1			
FW509R	Ratchet handle straight		1		
FW513R	Rodpusher		1		
FW517R	Holding sleeve for polyaxial screw	1			
FW626R	Holding sleeve for polyaxial screw		1		
FW539R	Screwdriver	1			
FW627R	Screwdriver		1		
FG313R	Palm handle			1	1
FW146R	Pedicle probe, straight			1	1
FW147R	Pedicle probe, curved			1	1
FW515R	Derotation hex wrench	1	1		
FW525R	Screw driver 3.5mm	1	1		
FW635R	Tap for 5mm screws			1	1
FW636R	Tap for 6mm screws			1	1
FW637R	Tap for 7mm screws			1	1
FW638R	Tap for 8mm screws			1	1

Note: Please order all instruments separately

Lumbar Implants – Set Recommendation

Implant materials:
Titanium alloy (Ti6AlV4/ISO 5832-3)

SSE Lumbar Implant Tray	SX505P		Quantity
	5.2mm	6.0mm	
SSE nut	SX004T	SX005T	12
Pedicle screws			
Pedicle screw 5 x 30mm	SX250T	SX850T	4
Pedicle screw 5 x 35mm	SX251T	SX851T	4
Pedicle screw 5 x 40mm	SX252T	SX852T	4
Pedicle screw 5 x 45mm	SX253T	SX853T	4
Pedicle screw 6 x 35mm	SX261T	SX861T	8
Pedicle screw 6 x 40mm	SX262T	SX862T	8
Pedicle screw 6 x 45mm	SX263T	SX863T	8
Pedicle screw 6 x 50mm	SX264T	SX864T	8
Pedicle screw 6 x 55mm	SX265T	SX865T	2
Pedicle screw 7 x 35mm	SX071T	SX671T	4
Pedicle screw 7 x 40mm	SX072T	SX672T	4
Pedicle screw 7 x 45mm	SX073T	SX673T	4
Pedicle screw 7 x 50mm	SX074T	SX674T	2
Polyaxial screws			
Polyaxial screw 6 x 35mm	SX291T	SX891T	2
Polyaxial screw 6 x 40mm	SX292T	SX892T	4
Polyaxial screw 6 x 45mm	SX293T	SX893T	4
Polyaxial screw 6 x 50mm	SX294T	SX894T	2
Polyaxial screw 7 x 35mm	--	SX901T	--
Polyaxial screw 7 x 40mm	--	SX902T	--
Polyaxial screw 7 x 45mm	--	SX903T	--
Polyaxial screw 7 x 50mm	--	SX904T	--
Connect. screw for polyaxial screw	SX100T	SX101T	8
Polyaxial head	SX099T	SX699T	4
Note: Polyaxial screw diam. 7 are only available for polyaxial heads SX699T (6mm system)			
Rods			
Rod 40mm	SX104T	SX704T	2
Rod 50mm	SX105T	SX705T	2
Rod 60mm	SX106T	SX706T	2
Rod 70mm	SX107T	SX707T	2
Rod 80mm	SX108T	SX708T	2
Rod 90mm	SX109T	SX709T	2
Rod 100mm	SX110T	SX710T	2
Rod 120mm	SX112T	SX712T	2
Rod 150mm	SX115T	SX715T	2
Cross plates			
Cross plate, L 50mm	SX170T	SX770T	2
Cross plate, L 60mm	SX172T	SX770T	2
Cross plate, L 70mm	SX174T	SX770T	2
Cross plate, L 80mm	SX176T	SX770T	2
Clamp for cross plate, L 50mm	SX015T	SX016T	4



Made-to-Measure solutions.

Spine System Evolution deformity

The right implants for the task in hand: clamps, screws and sacral plates. They give you the options you need to correct deformities for as many vertebrae as required.

Additional implants mean additional choices. SSE enables a wide variety of approaches to treating patients, keeping your options open even during actual surgery. With SSE self-stabilizing clamps, there is no need for temporary instruments or further preoperative preparation.

For thoracic procedures, the decision remains yours: screws or clamps. All in all, this system delivers unparalleled flexibility and choice in the treatment of deformities – even in the OR.





Perfect alignment

Deformity Instruments – Set Recommendation



SSE Deformity Instruments		5.2mm	6mm
FW619P	SSE Deformity Instruments Tray	1	1
FW151R	Pedicle preparator	1	1
FW152R	Lamina preparator	1	1
FG288R	Distraction/Compression device	2	2
FG286R	Threaded distractor, short	2	2
FG287R	Threaded distractor, long	2	2
FG294R	Retention plate for reposition lever	2	2
FW518C	Socket key	1	1
FW519R	Tightening tube	4	
FW625R	Tightening tube		4
FW521R	Pin holder	1	1
FW522R	Holding forceps for counter hook	1	1
FW543R	Introduction clamp for SX316T	1	
FW544R	Introduction clamp for SX316T		1
FW523R	Distraction forceps for clamp	1	1
FW524R	Hook pusher	1	1
FW545R	Screw driver for locking screw SX316T	1	1

Note: Please order additionally SSE Lumbar Instrument Tray FW618R with instruments. Deformity instruments have to be ordered separately. (see set configuration on page 10)



Deformity Implants – Set Recommendation

SX505P SSE Lumbar Implant Tray	Rod. diam.	Rod. diam.	Recomm. Quantity
	5.2mm	6.0mm	
Nut	SX004T	SX005T	20
Pedicle screws			
Pedicle screw 4.2 x 30mm	SX400T	SX405T	4
Pedicle screw 4.2 x 35mm	SX401T	SX406T	4
Pedicle screw 4.2 x 40mm	SX402T	SX407T	4
Pedicle screw 5 x 30mm	SX250T	SX850T	4
Pedicle screw 5 x 35mm	SX251T	SX851T	4
Pedicle screw 5 x 40mm	SX252T	SX852T	4
Pedicle screw 5 x 45mm	SX253T	SX853T	4
Pedicle screw 6 x 35mm	SX261T	SX861T	4
Pedicle screw 6 x 40mm	SX262T	SX862T	8
Pedicle screw 6 x 45mm	SX263T	SX863T	8
Pedicle screw 6 x 50mm	SX264T	SX864T	8
Pedicle screw 6 x 55mm	SX265T	SX865T	2
Pedicle screw 7 x 35mm	SX071T	SX671T	4
Pedicle screw 7 x 40mm	SX072T	SX672T	4
Pedicle screw 7 x 45mm	SX073T	SX673T	4
Pedicle screw 7 x 50mm	SX074T	SX674T	2
Polyaxial screws			
Polyaxial screw 6 x 35mm	SX291T	SX891T	2
Polyaxial screw 6 x 40mm	SX292T	SX892T	4
Polyaxial screw 6 x 45mm	SX293T	SX893T	4
Polyaxial screw 6 x 50mm	SX294T	SX894T	2
Connecting screw for polyaxial screw	SX099T	SX101T	8
Polyaxial head	SX100T	SX699T	4

Note: Polyaxial screw diam. 7 are only available for polyaxial heads SX699T (6mm system)



Deformity Implants – Set Recommendation



Rods	Rod. diam.	Rod. diam.	Specs.
	5.2mm	6.0mm	
Rod 40mm	SX104T	SX704T	2
Rod 50mm	SX105T	SX705T	2
Rod 60mm	SX106T	SX706T	2
Rod 70mm	SX107T	SX707T	2
Rod 80mm	SX108T	SX708T	2
Rod 90mm	SX109T	SX709T	2
Rod 100mm	SX110T	SX710T	2
Rod 120mm	SX112T	SX712T	2
Rod 150mm	SX115T	SX715T	2
Rod 180mm	SX180T	SX718T	2
Rod 200mm	SX120T	SX720T	2
Rod 250mm	SX125T	SX725T	2
Rod 300mm	SX130T	SX730T	2
Rod 350mm	SX135T	SX735T	2
Rod 400mm	SX140T	SX740T	2
Rod 500mm	SX150T	SX750T	2
Cross plates and clamps for crossplates			
Cross plate, L 45mm	SX169T	SX769T	--
Cross plate, L 50mm	SX170T	SX770T	2
Cross plate, L 55mm	SX171T	SX771T	2
Cross plate, L 60mm	SX172T	SX772T	2
Cross plate, L 65mm	SX173T	SX773T	2
Cross plate, L 70mm	SX174T	SX774T	2
Cross plate, L 75mm	SX175T	SX775T	2
Cross plate, L 80mm	SX176T	SX776T	2
Cross plate, L 85mm	SX177T	SX777T	2
Clamp for cross plate	SX015T	SX016T	8

Deformity Implants – Set Recommendation

SX506P SSE Deformity Implant Tray	Rod. diam.	Rod. diam.	Recomm. Quantity
	5.2mm	6.0mm	
Rod connectors			
Rod connector	SX011T		4
Lateral connectors			
Lateral connector, „S“	SX045T	SX645T	2
Lateral connector, „M“	SX046T	SX646T	2
Lateral connector, „L“	SX047T	SX647T	2
Hooks			
Counter hooks			
Counter hook, small		SX320T	6
Counter hook, medium		SX325T	6
Counter hook angled, right		SX344T	4
Counter hook angled, left		SX364T	4
Lamina hook right	SX304T	SX305T	6
Lamina hook left	SX334T	SX335T	6
Pedicle hook, right, rod	SX298T	SX299T	6
Pedicle hook, left, rod	SX328T	SX329T	6
Thoracic hook, right, rod	SX308T	SX309T	4
Thoracic hook, left, rod	SX338T	SX339T	4
Connecting Pins			
Connecting Pin, 25mm		SX375T	--
Connecting Pin, 30mm		SX380T	--
Connecting Pin, 35mm		SX385T	2
Connecting Pin, 40mm		SX390T	4
Connecting Pin, 45mm		SX395T	4
Connecting Pin, 50mm		SX396T	4
Connecting Pin, 55mm		SX397T	2
Connecting Pin, 60mm		SX398T	2
Locking Screw for connecting pin		SX316T	15



Universal Hook

Universal Hook	Rod. diam.	Rod. diam.
	5.2mm	6.0mm
Universal Hook, short	SX025T	--
Universal Hook, long	SX026T	--



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