Surgeon's Darlings for Precision, Performance and Pleasure.





The Winner of the **iF DESIGN AWARD 2016** Category Medicine / Healthcare



Surgeon's Darlings for Precision and Performance – Engineered in Germany.

As a surgeon, I need to do the best job possible in order to maintain my patients' health and quality of life and to save lives.

We surgeons are perfectionists and we are under constant pressure. That's why precision is extremely important to us.

Both in my private life and at work, I attach great value to high-performance, high-precision, reliable products that meet these requirements and help me to achieve my goals.

Why should I accept compromises in the operating theatre?





Aesculap[®] ELAN 4 Surgeon's Darlings for Precision.

The watch I wear is a masterpiece of precision and each cog is a remarkable work of art. I wear it on my wrist all day long and it has almost become a part of me. I can hardly feel it but I know it's there and is working perfectly.

That's just how I feel about the ELAN 4. It sits perfectly in my hand and is so well balanced that it has become like an extended arm, a natural part of my hand. The ELAN 4 is precise, comfortable to hold and it runs smoothly and quietly.

How did they achieve that?





System with angle gears

ELAN 4 without angle gears

INNOVATIVE GERMAN ENGINEERING:

New positioning of the motor before the angle, meaning there is no need for an angle gear or a motor coupling.

RESULT:

- > no couplings needed
- handpieces become shorter and lighter

ACTION

- > the angle does not get hot
- sits comfortably in the hand
- can be held more reliable and comfortably

BENEFITS:

high-precision, convenient and safe grip

Aesculap[®] ELAN 4 Surgeon's Darlings for Performance.

My car has to be reliable and have enough horsepower – for me, that goes without saying. As well as accelerating quickly when required, it needs to cruise smoothly on long journeys and take me to my destination quickly and safely. I expect exactly the same from my motor system.

ELAN 4 sets new standards in terms of overall performance. Never before have I laid hand on a system that operates so quietly yet is so powerful.

How was this made possible?





INNOVATIVE GERMAN ENGINEERING:

- > integrated motors
- on/off function integrated into the cable or hose to the motor coupling

RESULT:

The rotation speed is directly transferred, resulting in > very smooth running

- > no loss of power
- > high reliability
- compact construction no extra switch

BENEFITS:

quick, powerful and reliable work

Aesculap[®] ELAN 4 Surgeon's Darlings for Pleasure.

In our high-tech world, simplicity is now a luxury – things need to be simple to use. It's more fun when things just work intuitively, without the need for headscratching or guesswork. Just like my smart phone. It is intuitive to use and all of my important apps are clearly arranged on the home screen.

The same is true of the ELAN 4. I can select the motor drive type that I am used to. The systems are straightforward and operation is self-explanatory.

The couplings work according to the plug and play principle and the burrs fit every length of handpiece. This is what stress-free work looks like.

This brings a smile to my face – and I bet I'm not the only one!



INNOVATIVE GERMAN ENGINEERING:

- > all couplings are plug and play compatible
- > standardised burr lengths and clear coding of burrs
- > all operating elements are marked gold

RESULT:

- extremely easy to use
- > streamlined surgical set with fewer components
- handpiece will always contain the correct motor
- > self-explanatory
- > all types and sizes of burrs are available for all handpiece lengths

BENEFITS:

The system is a joy to work with because it is set up clearly and simply. Fewer components and a universal burr length offer savings potentials.

Surgeon's Darlings for Precision and Performance -**Engineered in Germany.**



ELAN 4 electro perforator driver with Hudson coupling

ELAN 4 electro craniotome and multifunction

ELAN 4 electro handpiece standard handpiece (2-ring) (1-ring) L4

ELAN 4 electro handpiece standard (1-ring) L7

ELAN 4 electro handpiece standard (1-ring) L10

ELAN 4 electro handpiece standard (1-ring) L13

The performance of the ELAN 4 is impressive, particularly the way the ELAN 4 operates quietly and with precision while its excellent ergonomic design means it sits comfortably in your hand. It is simply a pleasure to work with the ELAN 4.





> GA836

ELAN 4 electro micro sagittal saw



cating saw



ELAN 4 electro low speed motor with Intra coupling

> GA824

> GA808 ELAN 4 electro foot control



ELAN 4 electro motor cable

> GA806

> GA800

ELAN 4 electro control unit

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The clear and simple system set-up is a joy to work with. Every handpiece always contains the correct motor, reducing the risk of errors.



) GA702R 3 m **) GA703R** 5 m

ELAN 4 air wall hose





ELAN 4 air

1/2

low speed motor with Intra coupling







> GA705R

ELAN 4 air motor hose 3 m





ELAN 4 air micro sagittal saw



> GA737 ELAN 4 air micro reciprocating saw



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ACCESSORIES





> GB942R

standard

ELAN 4 electro/air

fixed duraguard,

> GB941R

ELAN 4 electro/air fixed duraguard, pediatric



> GB943R

ELAN 4 electro/air fixed duraguard, long



> GB945R

ELAN 4 electro/air holding sleeve for craniotome and multifunction handpiece



> GB947R

ELAN 4 electro/air turnable duraguard, standard The streamlined surgical set and the universal burr length reduce the inventory and mean there is the welcome potential for savings.





> GA395SU ⊗ 🗐

ELAN 4 electro disposable tube set for irrigation pump

> Disposable spray nozzles for ELAN 4 electro/air (2)

GA258SU Disposable spray nozzle for saws
GA259SU Disposable spray nozzle for cranitome attachments
GA261SU Disposable spray nozzle for 1-ring handpiece L4
GA262SU Disposable spray nozzle for 1-ring handpiece L7
GA263SU Disposable spray nozzle for 1-ring handpiece L10
GA264SU Disposable spray nozzle for 1-ring handpiece L13

Surgeon's Darlings for Precision and Performance – Engineered in Germany.

REPROCESSING



Configuration example ELAN 4 air

> ELAN4 electro ECCOS[®] holder

GB076R	ECCOS® holder for perforator driver GA822
GB077R	ECCOS® holder for low speed motor Intra GA824
GB082R	ECCOS [®] holder for 1 handpiece
GB083R	ECCOS [®] holder for 3 handpieces
GB085R	ECCOS [®] holder for craniotome GA849
GB086R	ECCOS® holder for micro sagital saw GA836
GB087R	ECCOS® holder for reciprocating saws GA832
	and GA837
GB073R	ECCOS [®] holder for motor cable
GB718R	ECCOS [®] holder for 12 burrs
GB719R	ECCOS® holder for 3 craniotome attachments
GB720R	ECCOS [®] universal holder for saw blades
GB072R	ECCOS [®] cable/hose positioning guide

> ELAN4 air ECCOS[®] holder

GB053R	ECCOS [®] holder for motor hose
GB056R	ECCOS [®] holder for perforator driver GA722
GB057R	ECCOS® holder for low speed motor Intra GA724
GB062R	ECCOS [®] holder for 1 handpiece
GB063R	ECCOS [®] holder for 3 handpieces
GB065R	ECCOS [®] holder for craniotome GA749
GB066R	ECCOS [®] holder for micro sagittal saw GA736
GB067R	ECCOS [®] holder for micro reciprocating saws GA732
	and GA737
GB718R	ECCOS [®] holder for 12 burrs
GB719R	ECCOS [®] holder for 3 craniotome attachments
GB720R	ECCOS [®] universal holder for saw blades
GB072R	ECCOS [®] cable/hose positioning guide

Here in the certified central sterile supply department, we welcome Aesculap's sterilisation process and specialised knowledge in the area of sterile processing. The ELAN 4 meets the increasingly strict requirements and sets new standards for the sterile processing of motor systems.

The cleaning device allows reliable inner cleaning of the applied part.



> ELAN4 electro rinsing device + accessories

GB692RELAN 4 electro rinsing deviceGB698RELAN 4 electro rinsing adaptorGB600860ELAN 4 electro oilspray adaptorGB600STERILIT® Power Systems oil spray

> ELAN 4 air rinsing device + accessories

GB691RELAN 4 air rinsing deviceGB697RELAN 4 air rinsing adaptorGB600850ELAN 4 air oilspray adaptorGB600STERILIT* Power Systems oil spray

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Saw blades - Sagittal saw for GA736 and GA836 Image: Sagittal saw for GA736 and GA836 Image: Sagittal saw for GA736 and GA836 Image: Sagittal saw for GA736 and GA836 Image: Sagittal saw for GA736 and GA836 Image: Sagittal saw for GA736 and GA836 Image: Sagittal saw for GA736 and GA836 Image: Sagittal saw for GA736 and GA836 Image: Sagittal saw for GA736 and GA836 Image: Sagittal saw for GA736 and GA836 Image: Sagittal saw for GA736 and GA836 Image: Sagittal saw for GA736 and GA836 Image: Sagittal saw for GA736 and GA836 Image: Sagittal saw for GA736 and GA836 Image: Sagittal saw for GA736 and GA836 Image: Sagittal saw for GA736 and GA836 Image: Sagittal saw for GA736 and GA836 Image: Sagittal saw for GA736 and GA836 Image: Sagittal saw for GA736 and Sagittal sagittal saw for GA736 and Sagittal sagi							
	for GA736 and	GA836	J GP493R Saw blade S sagittal	J GP494R Saw blade S sagittal	ر بر ک GP495R Saw blade S sagittal	ر بر ک GP496R Saw blade S sagittal	<i>√</i> <i>√</i> <i>√</i> <i>√</i> <i>√</i> <i>√</i> <i>√</i> <i>√</i> <i>√</i> <i>√</i>

The ELAN 4 is produced using stateof-the-art manufacturing technology in Tuttlingen, Germany, at the Aesculap AG Innovation Factory, which was specifically built to produce motor and sterile container systems.

Saw blades - Reciprocating saw for GA737 and GA837







> GP542R

Reciprocating saw blade micro 13/0.3 mm

Reciprocating

saw blade micro 20/0.3 mm 13/0.3 mm

> GP544R Reciprocating saw blade

5

> GP545R

1/1

Reciprocating saw blade micro 20/0.3 mm



> GP543R

micro

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BURRS



Burrs for 1-ring handpieces

> Rosen burrs

\bigcirc		0.6 mm	0.8 mm	1.0 mm	1.0 mm	1.4 mm	1.4 mm	1.8 mm	1.8 mm	2.3 mm	2.3 mm
	Art No.	GP111R*	GP112R*	GP113R	GP114R*	GP115R	GP116R*	GP117R	GP118R*	GP120R	GP121R*
		2.7 mm	2.7 mm	3.0 mm	3.5 mm	4.0 mm	4.5 mm	5.0 mm	6.0 mm		
	Art No.	GP122R	GP123R*	GP124R	GP125R	GP126R	GP127R	GP128R	GP129R		

> Rosen burrs, soft cut

\bigcirc	3.0 mm	4.0 mm	5.0 mm	6.0 mm	
Art No	. GP133R	GP134R	GP135R	GP136R	

> Twin-Cut burrs

	4.0 mm	5.0 mm	6.0 mm	7.0 mm	
Art No.	GP184R	GP185R	GP186R	GP187R	



Burrs for 1-ring handpieces

> Diamond burrs

	0.6 mm	0.8 mm		1.0 mm		1.4 mm	1.8 mm	1.8 mm	2.3 mm	2.3 mm
Art No.	GP141R*	GP142R*				GP146R*	GP147R	GP148R*	GP149R	GP150R*
	2.7 mm	2.7 mm	3.0 mm	3.5 mm	4.0 mm	4.5 mm	5.0 mm	6.0 mm		
Art No.	GP151R	GP152R*	GP153R	GP154R	GP155R	GP156R	GP157R	GP158R		

> Diamond burrs, coarse

	2.0 mm	2.0 mm	2.3 mm	2.3 mm	3.0 mm	3.0 mm	4.0 mm	5.0 mm	6.0 mm
Art No.	GP161R	GP162R*	GP163R	GP164R*	GP165R	GP166R*	GP168R	GP169R	GP170R

> Diamond burrs, extra coarse

)	3.0 mm	3.0 mm 4.0 mm		6.0 mm	7.0 mm
Art No.	GP173R	GP174R	GP175R	GP176R	GP177R

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Burrs for 1-ring handpieces

> Neuro cutter, US-Type

)		1.5 mm	2.0 mm	2.5 mm	3.0 mm	3.0 mm
	Art No.	GP201R*	GP202R*	GP203R*	GP204R	GP205R*

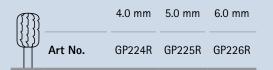
> Neuro cutter, Aesculap-Type

\square		2.0 mm	2.5 mm	3.0 mm
\prod	Art No.	GP208R	GP209R	GP210R

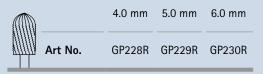
> Neuro cutter, diamond coarse

		1.5 mm	1.5 mm	2.0 mm	2.0 mm	2.5 mm	2.5 mm	3.0 mm	3.0 mm	4.0 mm	4.0 mm
11	Art No.	GP211R	GP212R*	GP213R	GP214R*	GP215R	GP216R*	GP217R	GP218R*	GP219R	GP220R*

> Barrel burrs, standard

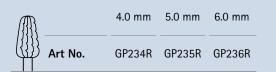


> Barrel burrs, soft cut



> Cone burrs

> Reverse Taper burr, diamond coarse





Burrs for 1-ring handpieces

> Acorn burrs

	3.0 mm	4.0 mm	5.0 mm	6.0 mm
Art No.	GP193R	GP194R	GP195R	GP196R

> Lindemann

ji.		1.8 mm	2.1 mm	2.3 mm	2.3 mm
	Length	7 mm	10 mm	10 mm	22 mm
М	Art No.	GP241R	GP242R	GP243R	GP240R

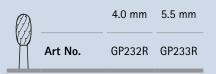
> Pin cutter



> Tungsten carbide-Rosen burrs

A)	1.0 mm	2.0 mm	3.0 mm	4.0 mm	5.0 mm	6.0 mm
	Art No.	GP113TC	GP119TC	GP124TC	GP126TC	GP128TC	GP129TC

> Oval burrs



> Twist drills

Ø		1.5 mm	2.0 mm
Å	Art No.	GP188R	GP189R

> Tungsten carbide-Neuro cutter



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BURRS



Burrs for 2-ring handpieces

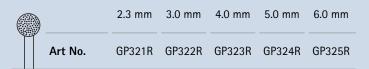
> Rosen burrs

0	2.3 mm				7.0 mm	8.0 mm
Art No.					GP308R	GP309R

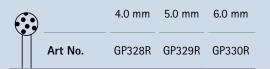
> Diamond burrs

)	2.3 mm	3.0 mm	3.5 mm	4.0 mm	4.5 mm	5.0 mm	6.0 mm
Ĭ	Art No.	GP311R	GP312R	GP313R	GP314R	GP315R	GP316R	GP317R

> Diamond burrs, coarse



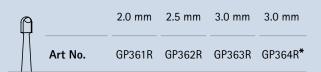
> Diamond burrs, extra coarse



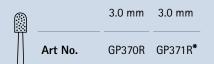


Burrs for 2-ring handpieces

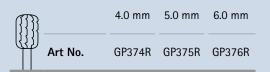
> Neuro cutter, US-type



> Neuro cutter, diamond coarse



> Barrel burrs, standard



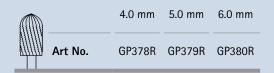
> Cone burrs

	4.0 mm	5.0 mm	6.0 mm
Art No.	GP384R	GP385R	GP386R

> Neuro cutter, Aesculap-type

A		3.0 mm
Π	Art No.	GP367R

> Barrel burrs, soft cut



> Reverse Taper burrs, diamond coarse



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BURRS



Burrs for 2-ring handpieces

> Acorn burrs

	5.0 mm	6.0 mm	7.5 mm	9.0 mm
Art No.	GP355R	GP356R	GP357R	GP358R

> Lindemann

.		1.8 mm	2.1 mm	2.3 mm	2.3 mm
	Length	7 mm	10 mm	10 mm	22 mm
И	Art No.	GP391R	GP392R	GP393R	GP397R

> Craniotome cutter, spiral type

	Length	•	:	•	
EXE A	Art No.	GP341R	GP342R	GP343R	

5.0 mm 6.0 mm 7.0 mm 8.0 mm 9.0 mm

GP335R GP336R GP337R GP338R GP339R

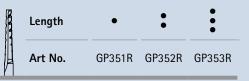
> Oval burr



> Pin cutter



> Craniotome cutter, straight type



> Twin-Cut burrs

Art No.

> Diamond disc (2)



26

Burrs for 2-ring handpieces

> Twist drills (cutting depth 4 mm - for pilot holes)

Å		1.0 mm	1.1 mm	1.2 mm	1.5 mm
	Art No.	GP344R	GP345R	GP346R	GP347R

	ungsten ca losen burr	irbide-						
())	2.3 mm	3.0 mm	4.0 mm	5.0 mm	6.0 mm	7.0 mm	8.0 mm
Ĭ	Art No.	GP301TC	GP302TC	GP304TC	GP306TC	GP307TC	GP308TC	GP309TC

 > Tungsten carbide-Neuro cutter
 > Tungsten carbide-Side cutter (2)
 3.0 mm
 3.0 mm
 Art No. GP367TC
 > Tungsten carbide-

Taper burr

Į

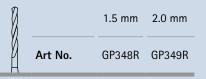
1.2 mm 1.6 mm

Art No. GP395TC GP396TC

> Twist drills

3.0 mm

GP399TC-SU



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Order information

> ELAN 4 electro

GA800	ELAN 4 electro control unit	GA713R	ELAN 4 air wall-adaptor DIN with diffusor
GA806	ELAN 4 electro motor cable	GA715R	ELAN 4 air wall-adaptor Synthes
GA808	ELAN 4 electro foot control	GA722	ELAN 4 air perforator driver with Hudson coupling
GA822	ELAN 4 electro perforator driver with Hudson coupling	GA749	ELAN 4 air cranitotome and multifunction handpiece (2-ring)
GA849	ELAN 4 electro craniotome and multifunction handpiece (2-ring)	GA761	ELAN 4 air handpiece standard (1-ring) L4
GA861	ELAN 4 electro handpiece standard (1-ring) L4	GA762	ELAN 4 air handpiece standard (1-ring) L7
GA862	ELAN 4 electro handpiece standard (1-ring) L7	GA763	ELAN 4 air handpiece standard (1-ring) L10
GA863	ELAN 4 electro handpiece standard (1-ring) L10	GA764	ELAN 4 air handpiece standard (1-ring) L13
GA864	ELAN 4 electro handpiece standard (1-ring) L13	GA736	ELAN 4 air micro sagittal saw
GA836	ELAN 4 electro micro sagittal saw	GA737	ELAN 4 air micro reciprocating saw
GA837	ELAN 4 electro micro reciprocating saw	GA724	ELAN 4 air low speed motor with Intra coupling
GA824	ELAN 4 electro low speed motor with Intra coupling		

> ELAN 4 air

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GA702R	ELAN 4 air wall hose 3 m
GA703R	ELAN 4 air wall hose 5 m
GA705R	ELAN 4 air motor hose 3 m
GA708	ELAN 4 air foot control
GA710R	ELAN 4 air wall-adaptor Aesculap-Draeger
GA712R	ELAN 4 air wall-adaptor Schrader with diffusor

> Attachments for craniotome and multifunction handpiece

GB941R	ELAN 4 fixed duraguard, pediatric
GB942R	ELAN 4 fixed duraguard, standard
GB943R	ELAN 4 fixed duraguard, long
GB945R	ELAN 4 holding sleeve
GB947R	ELAN 4 turnable duraguard, standard

Surgeon's Darlings for Precision and Performance – Engineered in Germany.

Order information

> Accessories for automated irrigation

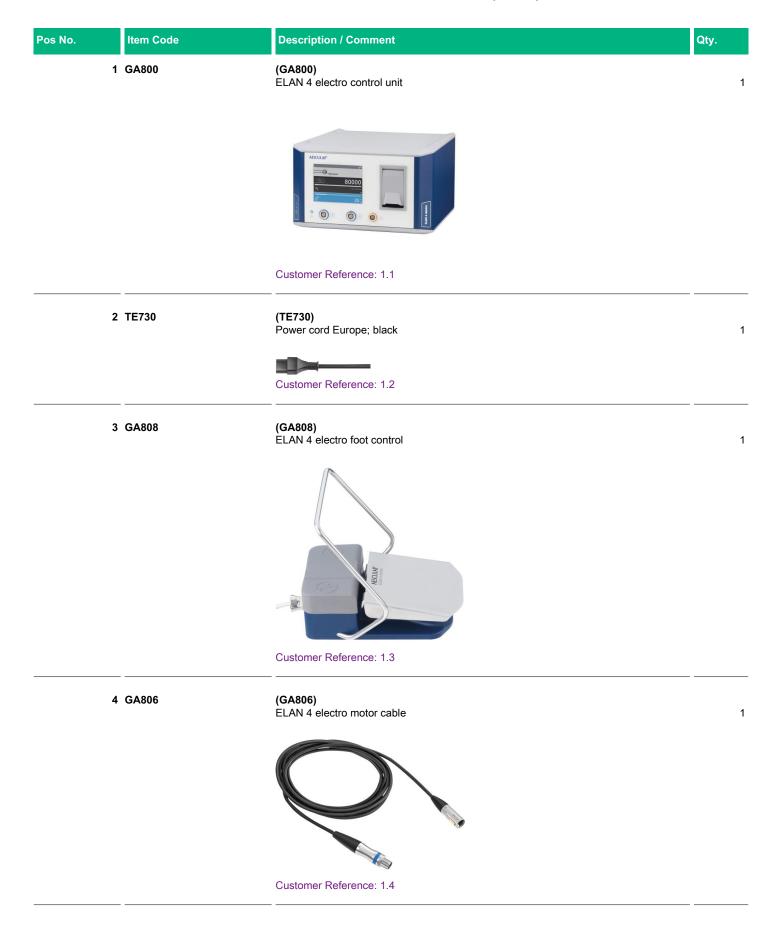
GA395SU	ELAN 4 electro disposable tube set for irrigation pump
GA258SU	ELAN 4 disposable spray nozzle for saws
GA259SU	ELAN 4 disposable spray nozzle for cranitome attachments
GA261SU	ELAN 4 disposable spray nozzle for 1-ring handpiece L4
GA262SU	ELAN 4 disposable spray nozzle for 1-ring handpiece L7
GA263SU	ELAN 4 disposable spray nozzle for 1-ring handpiece L10
GA264SU	ELAN 4 disposable spray nozzle for 1-ring handpiece L13

> Reprocessing

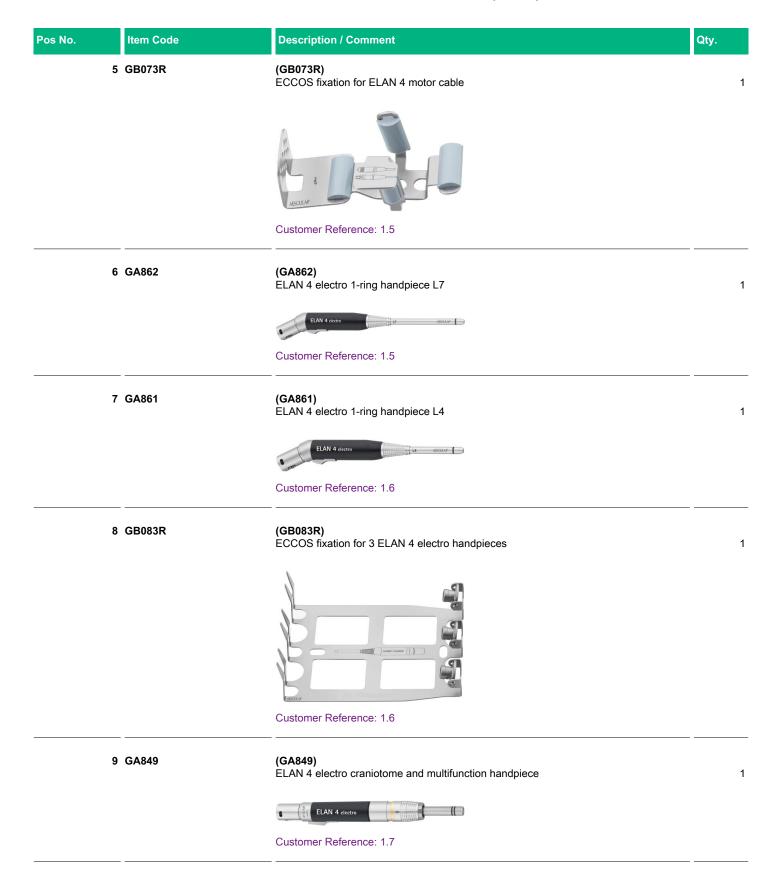
GB053R	ELAN 4 air ECCOS® holder for motor hose
GB056R	ELAN 4 air ECCOS [®] holder for perforator driver GA722
GB057R	ELAN 4 air ECCOS [®] holder for low speed motor Intra GA724
GB062R	ELAN 4 air ECCOS [®] holder for 1 handpiece
GB063R	ELAN 4 air ECCOS [®] holder for 3 handpieces
GB065R	ELAN 4 air ECCOS [®] holder for craniotome GA749
GB066R	ELAN 4 air ECCOS [®] holder for micro sagittal saw GA736
GB067R	ELAN 4 air ECCOS [®] holder for reciprocating saws GA732 and GA737
GB073R	ELAN 4 electro ECCOS® holder for motor cable
GB076R	ELAN 4 electro ECCOS® holder for perforator driver GA822
GB077R	ELAN 4 electro ECCOS® holder for low speed motor Intra GA824

GB082R	ELAN 4 electro ECCOS [®] holder for 1 handpiece
GB083R	ELAN 4 electro ECCOS® holder for 3 handpieces
GB085R	ELAN 4 electro ECCOS® holder for craniotome GA849
GB086R	ELAN 4 electro ECCOS® holder for micro sagital saw GA836
GB087R	ELAN 4 electro ECCOS [®] holder for reciprocating saws GA832 and GA837
GB718R	ELAN 4 ECCOS* holder for 12 burrs
GB719R	ELAN 4 ECCOS* holder for 3 craniotome attachments
GB720R	ECCOS [®] universal holder for saw blades
GB072R	ECCOS [®] cable/hose positioning guide
GB691R	ELAN 4 air rinsing device
GB692R	ELAN 4 electro rinsing device
GB697R	ELAN 4 air rinsing adaptor
GB698R	ELAN 4 electro rinsing adaptor
GB600	STERILIT [®] Power Sytems oil spray
GB600850	ELAN 4 air oil spray adaptor
GB600860	ELAN 4 electro oil spray adaptor

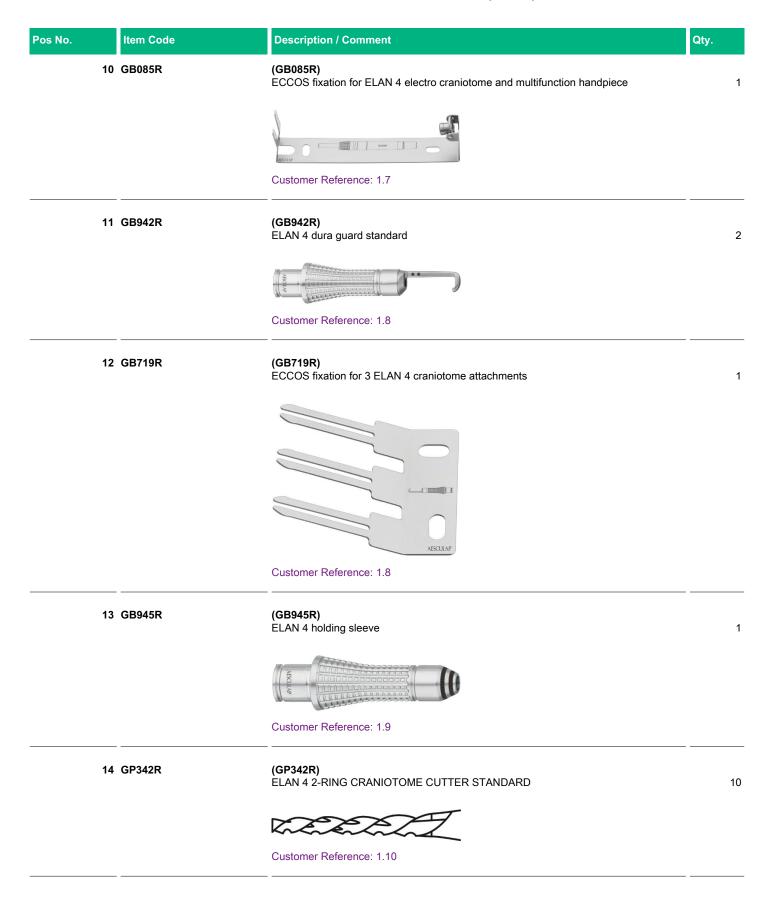




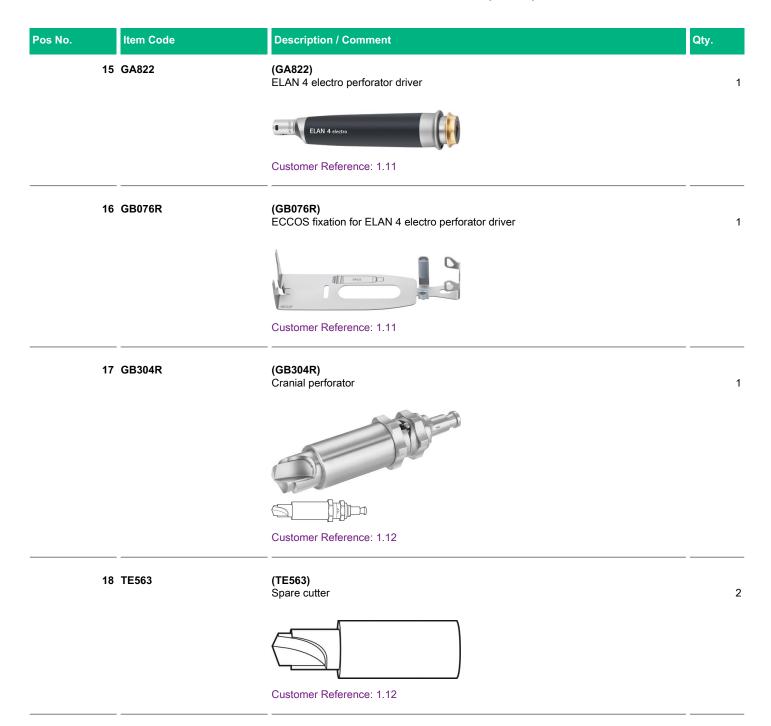














Pos No.	Item Code	Description / Comment	Qty.
19	GB302R	(GB302R) Cranial perforator	1
		Customer Reference: 1.12	
20	GB572R	(GB572R) Eccos Fixation	1
		Customer Reference: 1.12	
21	GP348R	(GP348R) ELAN 4 2-RING TWIST DRILL D1.5	3
		Customer Reference: 1.13	
22	GP304TC	(GP304TC) ELAN 4 2-RING ROSEN BURR TC D4.0	3
		Customer Reference: 1.14	



Pos No.	Item Code	Description / Comment	Qty.
2	3 GP303R	(GP303R) ELAN 4 2-RING ROSEN BURR D3.5	3
		Customer Reference: 1.15	
2	4 GP305R	(GP305R) ELAN 4 2-RING ROSEN BURR D4.5	3
		Customer Reference: 1.16	
2	5 GP306R	(GP306R) ELAN 4 2-RING ROSEN BURR D5.0	3
		Customer Reference: 1.17	
2	6 GP307R	(GP307R)	
L		ELAN 4 2-RING ROSEN BURR D6.0	3
		Customer Reference: 1.18	
2	7 GP322R	(GP322R)	
		ELAN 4 2-RING DIAMOND BURR COARSE D3.0	3
		Customer Reference: 1.19	
2	8 GP316R	(GP316R) ELAN 4 2-RING DIAMOND BURR D5.0	3
		Customer Reference: 1.20	



Pos No.	Item Code	Description / Comment	Qty.
29	9 GP235R	(GP235R) ELAN 4 1-RING CONE BURR D5.0	3
		Customer Reference: 1.21	
30) GP225R	(GP225R) ELAN 4 1-RING BARREL BURR D5.0	3
		Customer Reference: 1.22	
31	 GB718R	(GB718R) ECCOS fixation for 12 ELAN 4 burrs	1
		Customer Reference: 1.22	
32	 2 GB698R	(GB698R) Rinsing adapter for ELAN 4 electro applied parts	1
		94G- (1)	
		Customer Reference: 1.23	



Pos No.		Item Code	Description / Comment	Qty.
POS NO.	33	GB600	(GB600) Sterilit Power Systems	αι y . 1
			With the second seco	
	34	JK442	(JK442) Bottom, without base perforation, Standard 1/1, outer length: 592 mm, outer width: 274 mm, outer heigth: 135 mm, inner length: 544 mm, inner width: 258 mm, inner heigth: 120 mm	1
			Customer Reference: 1.25	
	35	JF221R	(JF221R) Perforated basket, Standard 1/1, 540 x 253 x 36 mm, with feet	1
			Customer Reference: 1.25	



