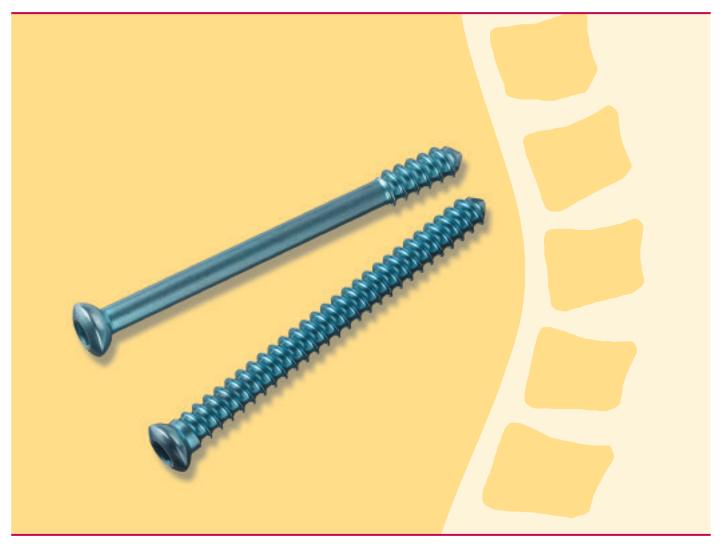
Aesculap Spine

Odontoid Fixation and C1/C2 Transarticular Screw Fixation

Implants and Instruments



according to Apfelbaum

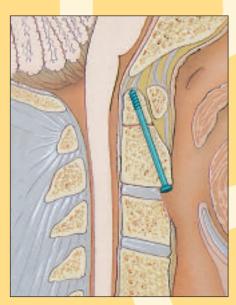


Instrumentation according to Apfelbaum

Anterior Odontoid Fixation

The Apfelbaum odontoid system is a real alternative to the usual external fixation technique in the treatment of Type II odontoid fractures. The advantage of the Apfelbaum technique lies in preserving the full range of motion of the segment and in the minimized approach. The partially threaded titanium implant acts as a tension screw. The special retractor system reduces the approach to a minimal working canal through which both instruments and implants can be safely inserted and directed to the target area via guide tubes. These special guide tubes are fixed onto the surface of the C3 vertebra by means of so-called "spikes", making it easier for the surgeon to work and also firmly establishing the later implant position.

The individual stages of the operation are described in detail in the separate operation manual, which can be ordered under Article Number 023402.



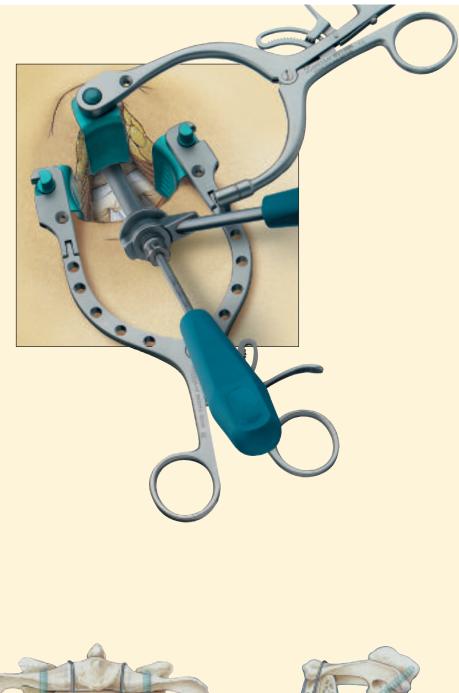
Posterior C1/C2 Transarticular Screw Fixation

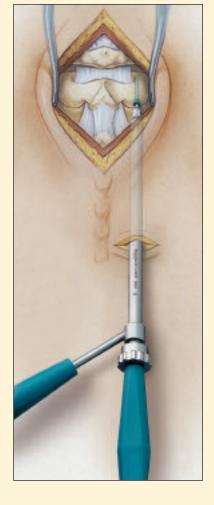
This system component is based on the classical Magerl technique for transarticular screw fixation. However, the Apfelbaum instrumentation has been so designed as to reduce the approach to a minimum, keeping approachrelated surgical trauma as insignificant as possible. The guide tube system, which is partly placed subcutaneously, not only makes the positioning of the implant more accurate and easier, but also protects the tissue while the instruments are guided safely into use.

The implants (4.0 mm "fully threaded" screws) are made from titanium.

The Apfelbaum implantation technique is described in detail in a separate operation manual, which can be ordered under Article Number 023502.









Odontoid System according to Apfelbaum

Retractor System

FJ959P Lid for Tray FJ961P

FJ961P

Tray for Odontoid instruments, retractors and implants

JK/JN400

Suitable sterile container (without illustration)

"CCR" Caspar cervical retractor blades, Titanium, semi-radiolucent to X-ray, with "side load" mechanism to be used with BW079R

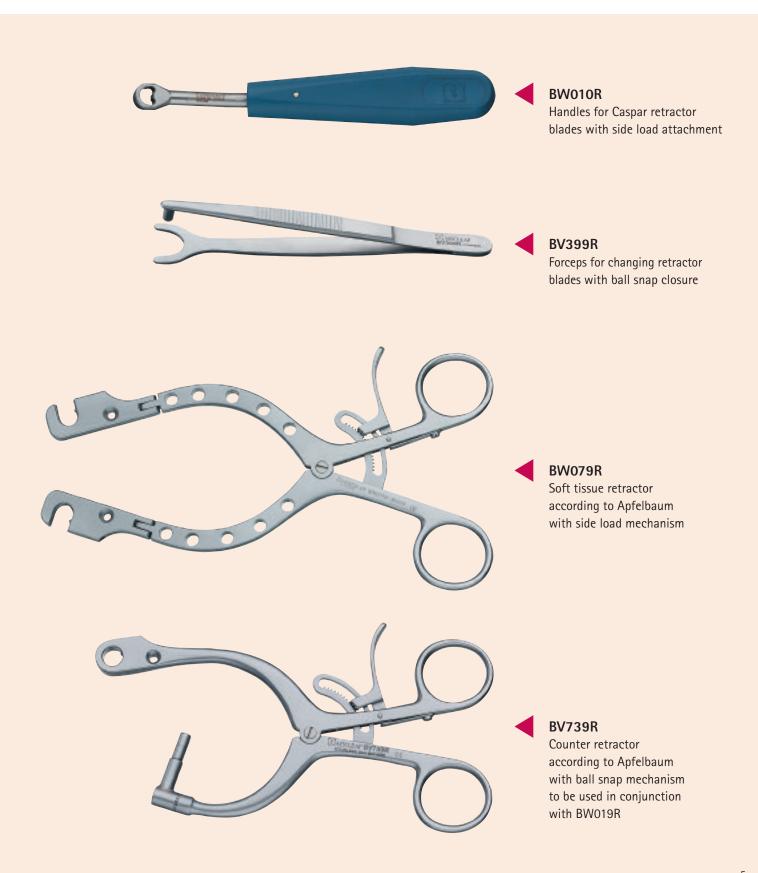
BW153T	24 x 40 mm
BW154T	24 x 45 mm
BW155T	24 x 50 mm
BW156T	24 x 55 mm
BW157T	24 x 60 mm

Odontoid retractor blades Titanium, semi-readiolucent to X-ray with ball snap closure to be used with BV379R

	(Width x L1 x L2)		
BV741T	24 x 67 x 38,5 mm		
BV742T	24 x 77 x 38,5 mm		
BV743T	24 x 67 x 30,0 mm		
BV744T	24 x 77 x 30,0 mm		
BV745T	24 x 67 x 56,5 mm		
BV746T	24 x 77 x 56,5 mm		







Odontoid System according to Apfelbaum

Instrumentation for Odontid Fixation

GD450R

for drill bits with round shaft (2,35 mm) (INTRA coupling)

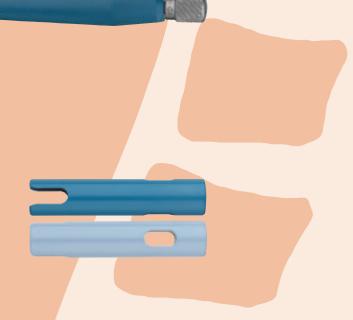
Straight micro hand piece (1:1)

GB111 + GB119

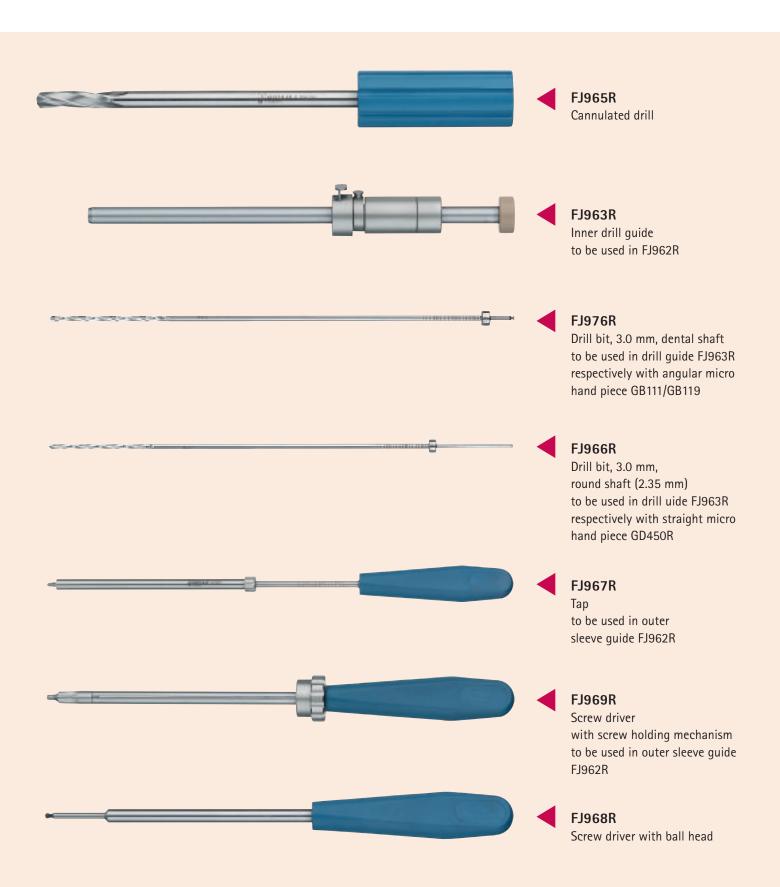
Angular micro hand piece for drill bits with dental shaft (INTRA coupling) (GB111 angular micro hand piece (4:1) and GB119 angular head (2:1) have to be ordered separately)

FJ962R Outer sleeve guide

FJ964P Impactor for FJ962R







C1/C2 System according to Apfelbaum

Instrumentation for C1/C2 transarticular screw fixation

FJ979P Lid for tray FJ981P

FJ981P Tray for C1/C2 instruments and implants

JK/JN400 Suitable sterile container (without illustration)

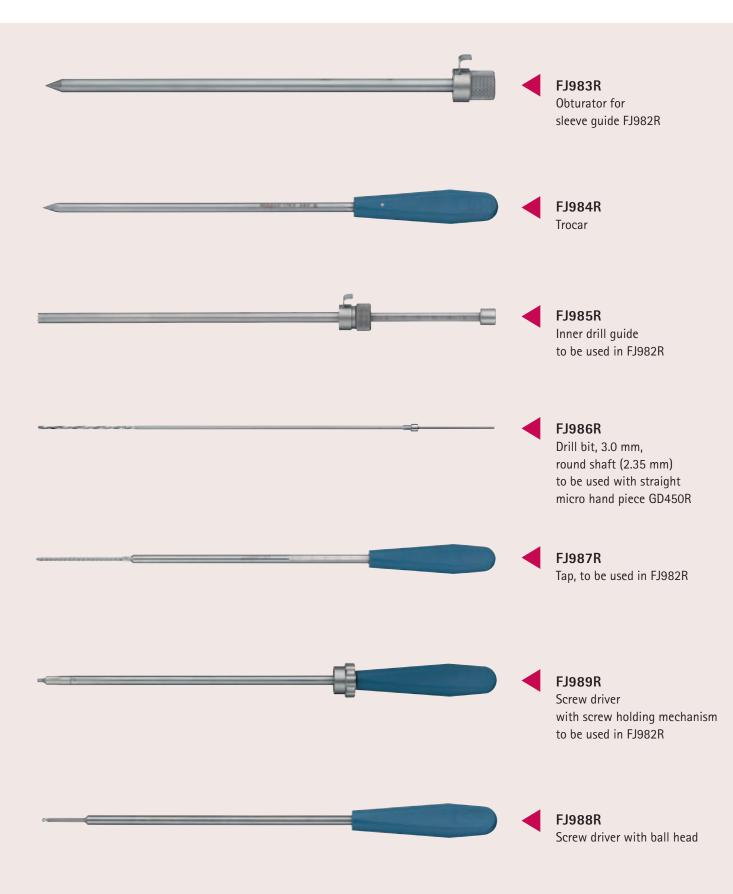
GD450R

Straight micro hand piece (1:1) for drill bits with round shaft (2,35 mm) (INTRA coupling)



FJ982R Sleeve guide





Implants according to Apfelbaum

Odontoid Implants

Odontoid screw, 4.0 mm partially threaded, Titanium

LB512T	32 mm
LB514T	34 mm
LB516T	36 mm
LB518T	38 mm
LB520T	40 mm
LB522T	42 mm
LB524T	44 mm
LB526T	46 mm
LB528T	48 mm
LB530T	50 mm
LB532T	52 mm
LB534T	54 mm
LB536T	56 mm
LB538T	58 mm
LB540T	60 mm
LB542T	62 mm
LB544T	64 mm

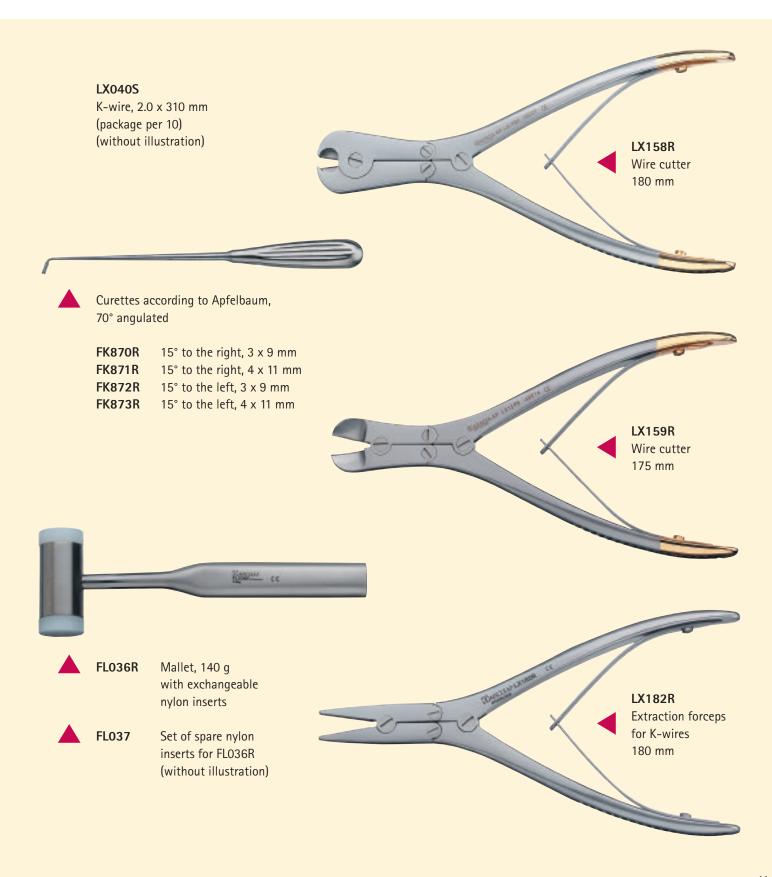
C1/C2 Implants

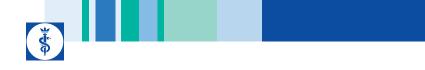
C1/C2 screw, 4.0 mm fully threaded, Titanium

LB472T	32 mm	
LB474T	34 mm	
LB476T	36 mm	-
LB478T	38 mm	-
LB480T	40 mm	1
LB482T	42 mm	1
LB484T	44 mm	1
LB486T	46 mm	1
LB488T	48 mm	1
LB490T	50 mm	÷
LB492T	52 mm	
LB494T	54 mm	
LB496T	56 mm	
LB498T	58 mm	3
LB500T	60 mm	}
LB502T	62 mm	3
LB504T	64 mm	

Implant material: Titanium Alloy according to ISO 5832-3 (Ti6Al4V)







AESCULAP[®]



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