Instruments and implants for 4.5 and 5.5 plate fixation

Large Fragment System

Compatible with DCP and LCP Plating Systems

Cortex and locking screws

Instruments for standard and locked plating



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Large Fragment Standard System

The Large Fragment Standard System contains the 4.5 and 5.5 implants and related instruments required for DCP plating.

Features

- Enables fracture treatment using compression plating with conventional cortex screws
- Can be upgraded to include the LCP system

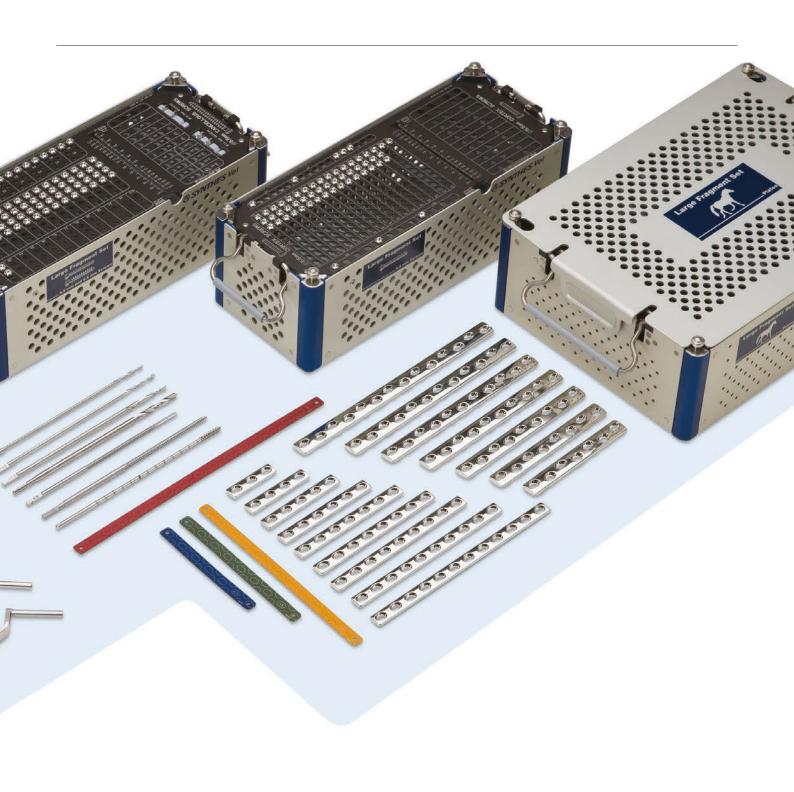
The standard system consists of:

- Large Fragment Standard Instrument Set (103.531)
- Large Fragment Standard Screw Set ∅ 5.5 mm (103.536)
- Large Fragment Standard Screw Set Ø 4.5/6.5 mm (103.537)

Graphic Cases

- Cases are organized in general order of use
- Compact case sizes fit most tabletop autoclaves





Large Fragment Locking System

The Large Fragment Locking System contains the 4.5 and 5.5 implants and related instruments required for LCP locked plating.

Features

- Allows fracture treatment using LCP plates
- Permits the combination of conventional and locking screw techniques
- Graphic Case for Large Fragment Instrument Set (690.542)

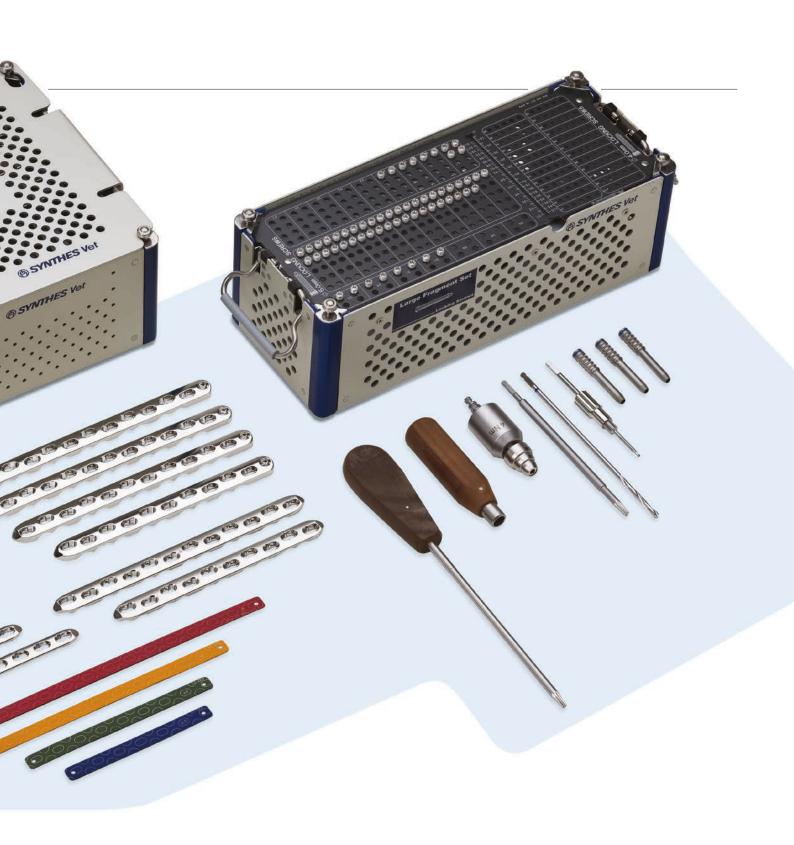
The standard system consists of:

- Large Fragment Locking Instrument Set (103.532)
- LCP Large Fragment Plate Set (103.535)
- Large Fragment Locking Screw Set (103.538)

Graphic Cases

- Cases are organized in general order of use
- Compact case sizes fit most tabletop autoclaves





Plates

DCP (Dynamic Compression Plate)

DCP plate hole

- Incorporates an incline in the hole that converts screw compression into plate translation and compression of the bone fracture
- Accepts conventional screws that may be placed in either load or neutral positions, depending on whether interfragment compression is desired (see Universal Drill Guide for more detail)
- Allows 25° of longitudinal screw angulation and 7° of transverse screw angulation

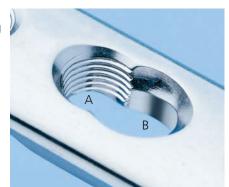


LCP (Locking Compression Plate)

- Locking screws create a fixed-angle construct, resulting in angular stability
- Tapered end for submuscular plate insertion, minimizing tissue trauma
- Limited-contact plate design reduces plate-to-bone contact, protecting vascularity

LCP plate holes

- Dynamic compression unit (DCU) hole allows 40° of longitudinal screw angulation and 7° of transverse screw angulation
- Combi-holes allow placement of conventional screws on one side or locking screws on the opposite side of each hole
- A. Threaded hole section for locking screws
- B. Dynamic compression unit (DCU) hole section for standard screws
- C. Locking screw in threaded side of plate hole
- D. Cortex screw in compression side of plate hole
- E. Stacked combi-hole at plate end accepts either cortex or locking screws







Bibliography

- Gasser, R., and S.M. Perren, "Parametric Numerical Design Optimization of Internal Fixation Plates", 7th Meeting of the European Society of Biomechanics, Aarhus (Denmark), 1990.
- Klaue, K. and S.M. Perren. Unconventional Shapes of the Plate Cross-Section in Internal Fixation: The Trapezoid Plate. Long Term Study of Bone Reaction in Sheep Tibiae. Davos, Switzerland: Laboratory for Experimental Surgery, AO/ASIF, 1990.

Screws

Cortex screws

- Used for bicortical fixation in diaphyseal bone
- Self-tapping screws are standard in all sets, except 5.5 mm screws
- 5.5 mm screws are only available in non-self-tapping







Cancellous bone screws

- Used for fixation of metaphyseal or poor-quality bone
- Available fully or partially threaded
- Deeper threads and coarser pitch maximizes the surface area of the threads in contact with the bone, thereby increasing the screw's holding power







Locking screws

- Used with the locking compression plate (LCP)
- Conical, double-lead machine thread on the head locks into threaded combi-hole or stacked combi-hole in the plate
- Create a fixed-angle construct
- Large core diameter provides improved bending and shear strength
- Stardrive recess provides improved torque transmission to the screw, while retaining the screw without the use of a holding sleeve







Screw Reference Chart

Thread Diameter	4.5 mm	5.5 mm	6.5 mm	5.0 mm
Screw Type	Cortex	Cortex	Cancellous	Locking
Drill Bit for Threaded Hole	3.2 mm	4.0 mm	3.2 mm	4.3 mm
Тар	4.5 mm	5.5 mm	6.5 mm	self-tapping
Drive Type	3.5 mm Hexagonal	3.5 mm Hexagonal	3.5 mm Hexagonal	T25 Stardrive

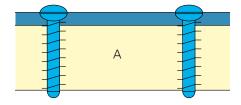
Screw fixation

Determine whether conventional cortex screws, cancellous bone screws or locking screws will be used for fixation. A combination of all may be used.

Note: When a combination of cortex screws and locking screws is used, a cortex screw should be inserted first to pull plate to the bone. If a locking screw is used first, care should be taken to ensure that the plate is held securely to the bone to avoid spinning of the plate about the bone.

Bicortical cortex screw

Bicortical cortex screw fixation compresses a plate to the bone, creating friction between the plate and bone to maintain stability. Bicortical screws require two cortices of fixation to achieve stability (Image A).



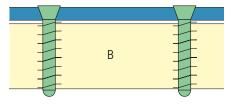
Locking screws

Locking screws provide stability and load transfer due to the threaded connection between the plate and screw, without compression of the plate to the bone (Image B).

Note: The locking screw is not a lag screw. Use nonlocking screws when precise anatomical reduction or interfragmentary compression is required. Prior to insertion of the first locking screw, perform anatomical reduction and fix the fracture with lag screws, if necessary. After insertion of locking screws, anatomical reduction is no longer possible without loosening the locking screw.

Warning: Do not mix Synthes implants with implants from other companies. The overall performance may be compromised due to difference in design, chemical composition, mechanical properties, and workmanship. No competitor of Synthes can make a genuine claim that their product is "the same as Synthes". Combining implants from other companies with Synthes implants could reduce product performance.

Only the finest quality materials are used to manufacture Synthes implants. The metals Synthes uses have been scientifically proven to be of the best biocompatibility and quality available today



Universal Drill Guide Technique

Universal drill guides are the only drill guides that function in all Synthes plate holes.

When a cortex screw is used, a universal drill guide should be used to guide the drill bit. If the screw is intended to achieve interfragmentary compression, the universal drill guide should be placed in the load position, as shown. If the screw is intended to hold the plate, the universal drill guide should be placed in the neutral position.

Compression (load) position

Compression is achieved by placing the universal drill guide in the eccentric position, keeping the drill guide body above the plate as shown.







Neutral position

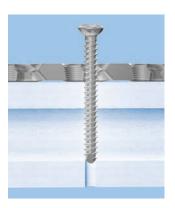
Neutral position is achieved by placing the universal drill guide in the eccentric position, and compressing the drill guide body into the hole.

Note: For illustrative purposes, a combi-hole has been depicted. The same methodology applies to DCP holes.









Featured Instruments

311.449

Instrument for temporary reduction for LCP 4.5/5.0

- For use with 4.5 and 5.5 LCP plates
- Temporarily compresses plate to bone
- Can assist with bone fragment reduction
- Self-drilling, self-tapping 3.2 mm thread
- Synthes quick coupling connection

Insert the instrument for temporary reduction in the near cortex using only power equipment. After insertion, turn the collet clockwise until it compresses the plate securely to the bone. Take care when inserting the instrument into a hole that will be used for plate fixation. Once the instrument is removed, a conventional screw can be placed in the same hole.



312.449

Threaded Drill Guide 4.3

For use with 5.0 mm locking screws

- Threads into locking plate for correct alignment of locking screw with plate hole
- Centers drill bits to ensure perpendicular drilling
- Permits proper mating of locking screw in the threaded portion of the combihole

Technical tip: To prevent cross-threading, turn the threaded drill guide counterclockwise until it is properly engaged (a slight click may be audible), then turn the drill guide clockwise. Do not try to bend the plate using the threaded drill guide as damage may occur to the threads.



322.535

Veterinary: Universal Drill Guide 5.5 For use with 5.5 mm screws



323.460	Universal Drill Guide 4.5/3.2, for neutral and load position For use with 4.5 mm
	screws



312.460 Double Drill Guide 4.5/3.2 For use with 4.5 plates



312.560 Double Drill Guide 5.5/4.0 For use with 5.5 plates

Compression is achieved by placing the double drill guide in the eccentric position. The neutral position is achieved by placing it in the center of the plate hole.



321.120 Tension Device, articulated, span 20 mm

- Generates either compression or distraction
- Facilitates anatomic reduction of fracture fragments





Large Fragment Standard Instrument Set (103.531)

Graphic Case		
690.542	Graphic Case for Large Fragment Instrument Set	
Instruments		
310.290	Drill Bit \varnothing 3.2 mm, length 195/170 mm, 2-flute, for Quick Coupling	
310.400	Drill Bit \varnothing 4.0 mm, length 197/170 mm, 2-flute, for Quick Coupling	
310.480	Drill Bit \varnothing 4.5 mm, length 195/170 mm, 2-flute, for Quick Coupling	
310.550	Drill Bit \varnothing 5.5 mm, extra-long, length 197/170 mm, 2-flute, for Quick Coupling	
310.990	Countersink, large, length 180 mm, for Cortex Screws \varnothing 4.5 mm	
311.440	T-Handle with Quick Coupling	
311.480	Tap for Cortex Screws Ø 4.5 mm, length 180/110 mm	
311.550	Tap for Cortex Screws ∅ 5.5 mm	
311.660	Tap for Cancellous Bone Screws ∅ 6.5 mm, length 195 mm	
312.460	Double Drill Guide 4.5/3.2	
312.560	Double Drill Guide 5.5/4.0	
314.110	Holding Sleeve, large	
314.150	Screwdriver Shaft, hexagonal, large, ∅ 3.5 mm	
314.270	Screwdriver, hexagonal, large, ∅ 3.5 mm, with Groove, length 245 mm	
319.100	Depth Gauge for Screws Ø 4.5 to 6.5 mm, measuring range up to 110 mm	
321.120	Tension Device, articulated, span 20 mm	
321.200	Ratchet Wrench for Nut, hexagonal, 11.0 mm	



322.535	Universal Drill Guide 5.5	
323.460	Universal Drill Guide 4.5/3.2, for neutra and load position	
Also available		
310.310	Drill Bit Ø 3.2 mm, length 145/120 mm, 2-flute, for Quick Coupling	
310.440	Drill Bit Ø 4.5 mm, length 145/120 mm, 2-flute, for Quick Coupling	

Large Fragment Locking Instrument Set (103.532)

Instrument	rs ·	
310.431	Drill Bit \varnothing 4.3 mm, length 180 mm, for Quick Coupling	310.431
311.449	Instrument for temporary reduction for LCP 4.5/5.0	311.449
312.449	Threaded Drill Guide 4.3, 3 ea.	312.449
314.118	Screwdriver Stardrive, T25, self-holding, length 290 mm	314.118
314.119	Screwdriver Shaft Stardrive 4.5/5.0, T25, selfholding, for AO/ASIF Quick Coupling	314.119
397.705	Handle for Torque Limiter Nos. 511.770 and 511.771	397.705
511.771	Torque Limiter, 4 Nm, for Compact Air Drive and Power Drive	511.771

Also available

324.075 Plate Holder, curved

Note: Large Fragment Instrument Set (103.530) consists of Large Fragment Standard Instrument Set (103.531), with graphic case, and Large Fragment Locking Instrument Set (103.532).

LCP Large Fragment Plate Set (103.535)

Graphic Case

690.543	Graphic	Case for	Large	Fragment	Plate	Set
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Instruments

	Bending Templates	
329.920	12 holes	
329.970	7 holes	
329.990	9 holes	

Implants

LCP 4.5 for PIP Arthrodeses, narrow

	Holes	Length (mm)
VP4051.03	3	66

LCP 4.5, narrow (case will hold 2 ea.)

	Holes	Length (mm)
VP4051.04	4	71
VP4051.05	5	89
VP4051.06	6	107
VP4051.07	7	125
VP4051.08	8	143
VP4051.09	9	161
VP4051.10	10	179
VP4051.12	12	215

LCP 4.5, broad (case will hold 2 ea.)

	Holes	Length (mm)
VP4061.08	8	143
VP4061.10	10	179
VP4061.12	12	215



LCP 5.5, broad

	Holes	Length (mm)
VP4071.11	11	198
VP4071.12	12	216
VP4071.13	13	234
VP4071.14	14	252

Also available

LCP 4.5/5.0, narrow (case will hold 2 ea.)

	Holes	Length (mm)
VP4051.11	11	197
VP4051.14	14	251
VP4051.16	16	287

LCP 4.5/5.0, broad (case will hold 2 ea.)

Holes		Length (mm)			
VP4061.06	6	107			
VP4061.07	7	125			
VP4061.08	8	143			
VP4061.09	9	161			
VP4061.11	11	197			
VP4061.14	14	251			
VP4061.16	16	287			
VP4061.18	18	323			

LCP 5.5, broad

	Holes	Length (mm)
VP4071.10	10	180
VP4071.15	15	270
VP4071.16	16	288
VP4071.17	17	306
VP4071.18	18	324

Large Fragment Standard Screw Set \varnothing 5.5 mm (103.536)

Graphic Case

690.546 Rack for Large Fragment Standard Screws \varnothing 5.5 mm

Implants

Cortex Screws Ø 5.5 mm

Qty. 1 1 3 3 3	
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3 3 3	
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	3 3 3 3 3 3 3 3 3 3 3 3 3 3 1 1 1 1 1



Note: Screw rack will hold: Cortex Screws \varnothing 5.5 mm, 24 mm–28 mm (6 ea.), 30 mm–70 mm (10 ea.), and 80 mm–100 mm (4 ea.).

Large Fragment Standard Screw Set \emptyset 4.5/6.5 mm (103.537)

Graphic Case

690.547 Rack for Large Fragment Standard Screws \varnothing 4.5/6.5 mm

Implants

Cortex Screws Ø 4.5 mm, self-tapping

	Length (mm)	Qty.	
VS402.018	18	2	
VS402.020	20	2	
VS402.022	22	2	
VS402.024	24	2	
VS402.026	26	2	
VS402.028	28	2	
VS402.030	30	4	
VS402.032	32	4	
VS402.034	34	4	
VS402.036	36	4	
VS402.038	38	4	
VS402.040	40	4	
VS402.042	42	4	
VS402.044	44	4	
VS402.046	46	4	
VS402.048	48	4	
VS402.050	50	4	
VS402.052	52	4	
VS402.054	54	4	
VS402.056	56	4	
VS402.058	58	4	
VS402.060	60	4	
	<u> </u>		

Washers, 2 ea. (Rack will hold 3 ea.)

	Diameter (mm)
VP1300.04	10
VP1300.05	13



Also available

Cortex Screws Ø 4.5 mm, self-tapping

	Length	ı (mm)
VS402.014	14	
VS402.016	16	
VS402.062	62	
VS402.064	64	
VS402.066	66	
VS402.068	68	
VS402.070	70	
VS402.072	72	
VS402.076	76	
VS402.080	80	
VS402.085	85	
VS402.090	90	
VS402.095	95	
VS402.100	100	

Also Availa	Also Available (continued)						
Cortex Screws	Cortex Screws Ø 4.5 mm						
	Length	(mm)	Length (m	m)			
VS401.014	14	VS401.050	50				
VS401.016	16	VS401.052	52				
VS401.018	18	VS401.054	54				
VS401.020	20	VS401.056	56				
VS401.022	22	VS401.058	58				
VS401.024	24	VS401.060	60				
VS401.026	26	VS401.062	62				
VS401.028	28	VS401.064	64				
VS401.030	30	VS401.066	66				
VS401.032	32	VS401.068	68				
VS401.034	34	VS401.070	70				
VS401.036	36	VS401.072	72				
VS401.038	38	VS401.076	76				
VS401.040	40	VS401.080	80				
VS401.042	42	VS401.085	85				
VS401.044	44	VS401.090	90				
VS401.046	46	VS401.095	95				
VS401.048	48	VS401.100	100				

Cancellous Rone	CCCOVAC	Ø 6 E mm	fully throaded
L ancellous Rone	SCrews	$\langle c \rangle$ b 5 mm	TUIIV Threaded

	Length (mn	Length (mm)	
VS601.020	20	VS601.065	65
VS601.025	25	VS601.070	70
VS601.030	30	VS601.075	75
VS401.035	35	VS601.080	80
VS401.040	40	VS601.085	85
VS401.045	45	VS401.090	90
VS401.050	50	VS601.095	95
VS401.055	55	VS601.100	100
VS601.060	60		

Cancellous	Bone	Screws (0 6.5	mm,	Snort	inread	16 mm	

	Length	n (mm)	Length (m	ım)
VS602.030	30	VS602.070	70	
VS602.035	35	VS602.075	75	
VS602.040	40	VS602.080	80	
VS602.045	45	VS602.085	85	
VS602.050	50	VS602.090	90	
VS602.055	55	VS602.095	95	
VS602.060	60	VS602.100	100	
VS602.065	65			

Cancellous Bone Screws \varnothing 6.5 mm, Long Thread 32 mm

Length (mm)
75
75
80
85
90
95
100

Note: Screw rack will hold: Cortex Screws \varnothing 4.5 mm, 14 mm–58 mm (6 ea.) and 60 mm–100 mm (3 ea.); and Cancellous Bone Screws \varnothing 6.5 mm, 20 mm–40 mm (2 ea.), 45 mm–75 mm (4 ea.) and 80 mm–100 mm (2 ea.)

Large Fragment Locking Screw Set (103.538)

Graphic Case

690.548 Rack for Large Fragment Locking Screw

Implants

Locking Screws Stardrive \emptyset 5.0 mm, self-tapping, 4 ea.

	Length (mm)	Qty.
VS502.024	24	2
VS502.026	26	2
VS502.028	28	2
VS502.030	30	4
VS502.032	32	4
VS502.034	34	4
VS502.036	36	4
VS502.038	38	4
VS502.040	40	4
VS502.042	42	4
VS502.044	44	4
VS502.046	46	4
VS502.048	48	4
VS502.050	50	4
VS502.055	55	2
VS502.060	60	2
VS502.065	65	2
VS502.070	70	2
VS502.075	75	2



Also Available

Locking Screws Stardrive ∅ 5.0 mm, self-tapping

		, , , , , , , , , , , , , , , , , , , ,	
	Length ((mm)	Length (mm)
VS502.014	14	VS502.022	22
VS502.016	16	VS502.080	80
VS502.018	18	VS502.085	85
VS502.020	20	VS502.090	90

Note: Screw rack will hold: Locking Screws \varnothing 5.0 mm, 14 mm – 30 mm (8 ea.), 32 mm – 55 mm (10 ea.), 60 mm – 90 mm (4 ea.); and Locking Screws \varnothing 4.0 mm, 14 mm – 62 mm (5 ea.)

Quick Reference Guide – Instruments

Number Fragment Instrument Set Fragment Instrument Set Fragment Instrument Set Fragment Instrument Set 310.290 Drill Bit Ø 3.2 mm, length 195/170 mm, 2-flute, for Quick Coupling • • • 310.400 Drill Bit Ø 4.2 mm, length 197/170 mm, 2-flute, for Quick Coupling • • • 310.431 Drill Bit Ø 4.3 mm, length 180 mm, for Quick Coupling • • • 310.480 Drill Bit Ø 5.5 mm, length 195/170 mm, 2-flute, for Quick Coupling • • • 310.490 Drill Bit Ø 5.5 mm, length 195/170 mm, 2-flute, for Quick Coupling • • • 310.490 Drill Bit Ø 5.5 mm, length 195/170 mm, 2-flute, for Quick Coupling • • • 310.990 Countersink, large, length 180 mm, for Cortex Screws Ø 4.5 mm • • • 311.440 T-Handle with Quick Coupling • • • • 311.450 Tap for Cortex Screws Ø 4.5 mm, length 180/110 mm • • • 311.490 Tap for Cancellous Bone Screws Ø 6.5 mm, length 195 mm • • • 311.240 Instru	Part	Description	Large	Large	Large
		Description	_	-	_
Set Instrument Set Se			J	_	_
310.290 Drill Bit Ø 3.2 mm, length 195/170 mm, 2-flute, for Quick Coupling 197/170 mm, 2-flute, for Quick C					9
310.290 Drill Bit Ø 3.2 mm, length 195/170 mm, 2-flute, for Quick Coupling 310.400 Drill Bit Ø 4.0 mm, length 197/170 mm, 2-flute, for Quick Coupling 310.431 Drill Bit Ø 4.3 mm, length 180 mm, for Quick Coupling 310.430 Drill Bit Ø 4.3 mm, length 195/170 mm, 2-flute, for Quick Coupling 310.480 Drill Bit Ø 4.5 mm, length 195/170 mm, 2-flute, for Quick Coupling 310.590 Drill Bit Ø 5.5 mm, extra-long, length 197/170 mm, 2-flute, for Quick Coupling 310.990 Countersink, large, length 180 mm, for Cortex Screws Ø 4.5 mm • 311.440 T-Handle with Quick Coupling 311.480 Tap for Cortex Screws Ø 4.5 mm, length 180/110 mm • 311.550 Tap for Cortex Screws Ø 5.5 mm • 10.311.660 Tap for Cancellous Bone Screws Ø 6.5 mm, length 195 mm • 311.449 Instrument for temporary reduction for LCP 4.5/5.0 312.449 Threaded Drill Guide 4.5/3.2 312.449 Threaded Drill Guide 4.3 312.490 Double Drill Guide 5.5/4.0 314.110 Holding Sleeve, large 314.150 Screwdriver Shaft, hexagonal, large, Ø 3.5 mm • 314.270 Screwdriver Shaft, hexagonal, large, Ø 3.5 mm 314.118 Screwdriver Stardrive, T.25, self-holding, length 290 mm • 314.119 Screwdriver Stardrive, T.25, self-holding, for AO/ASIF Quick Coupling 319.100 Depth Gauge for Screws Ø 4.5 to 6.5 mm, measuring range up to 110 mm 321.120 Tension Device, articulated, span 20 mm 321.200 Ratchet Wrench for Nut, hexagonal, 11.0 mm 322.535 Universal Drill Guide 4.5/3.2, for neutral and load position 397.705 Handle for Torque Limiter Nos. 511.770 and 511.771 511.771 Torque Limiter, 4 Nm, for Compact Air Drive and Power Drive				Set	Set
310.290 Drill Bit Ø 3.2 mm, length 195/170 mm, 2-flute, for Quick Coupling 310.400 Drill Bit Ø 4.0 mm, length 197/170 mm, 2-flute, for Quick Coupling 310.431 Drill Bit Ø 4.3 mm, length 180 mm, for Quick Coupling 310.430 Drill Bit Ø 4.3 mm, length 195/170 mm, 2-flute, for Quick Coupling 310.480 Drill Bit Ø 4.5 mm, length 195/170 mm, 2-flute, for Quick Coupling 310.590 Drill Bit Ø 5.5 mm, extra-long, length 197/170 mm, 2-flute, for Quick Coupling 310.990 Countersink, large, length 180 mm, for Cortex Screws Ø 4.5 mm • 311.440 T-Handle with Quick Coupling 311.480 Tap for Cortex Screws Ø 4.5 mm, length 180/110 mm • 311.550 Tap for Cortex Screws Ø 5.5 mm • 10.311.660 Tap for Cancellous Bone Screws Ø 6.5 mm, length 195 mm • 311.449 Instrument for temporary reduction for LCP 4.5/5.0 312.449 Threaded Drill Guide 4.5/3.2 312.449 Threaded Drill Guide 4.3 312.490 Double Drill Guide 5.5/4.0 314.110 Holding Sleeve, large 314.150 Screwdriver Shaft, hexagonal, large, Ø 3.5 mm • 314.270 Screwdriver Shaft, hexagonal, large, Ø 3.5 mm 314.118 Screwdriver Stardrive, T.25, self-holding, length 290 mm • 314.119 Screwdriver Stardrive, T.25, self-holding, for AO/ASIF Quick Coupling 319.100 Depth Gauge for Screws Ø 4.5 to 6.5 mm, measuring range up to 110 mm 321.120 Tension Device, articulated, span 20 mm 321.200 Ratchet Wrench for Nut, hexagonal, 11.0 mm 322.535 Universal Drill Guide 4.5/3.2, for neutral and load position 397.705 Handle for Torque Limiter Nos. 511.770 and 511.771 511.771 Torque Limiter, 4 Nm, for Compact Air Drive and Power Drive			(102 E20)	(102 E21)	(102 E22)
for Quick Coupling 310.400 Drill Bit Ø 4.0 mm, length 197/170 mm, 2-flute, for Quick Coupling 310.431 Drill Bit Ø 4.5 mm, length 180 mm, for Quick Coupling 310.480 Drill Bit Ø 4.5 mm, length 195/170 mm, 2-flute, for Quick Coupling 310.550 Drill Bit Ø 5.5 mm, extra-long, length 197/170 mm, 2-flute, for Quick Coupling 310.990 Countersink, large, length 180 mm, for Cortex Screws Ø 4.5 mm 311.440 T-Handle with Quick Coupling 311.850 Tap for Cortex Screws Ø 4.5 mm • • 311.450 Tap for Cortex Screws Ø 5.5 mm 311.460 Tap for Cancellous Bone Screws Ø 6.5 mm, length 195 mm • • 311.440 Instrument for temporary reduction for LCP 4.5/5.0 312.460 Double Drill Guide 4.5/3.2 312.440 Threaded Drill Guide 4.3 312.560 Double Drill Guide 4.3 312.560 Double Drill Guide 4.3 314.110 Holding Sleeve, large 314.150 Screwdriver Shaft, hexagonal, large, Ø 3.5 mm • • 314.270 Screwdriver Shaft, hexagonal, large, Ø 3.5 mm, with Groove, length 25 mm 314.118 Screwdriver Shaft Stardrive, 125, self-holding, for AO/ASIF Quick Coupling 319.100 Depth Gauge for Screws Ø 4.5 to 6.5 mm, measuring range up to 110 mm 321.120 Tension Device, articulated, span 20 mm 321.200 Ratchet Wrench for Nut, hexagonal, 11.0 mm 322.535 Universal Drill Guide 4.5/3.2, for neutral and load position 397.705 Handle for Torque Limiter, Nos. 511.770 and 511.771 511.771 Torque Limiter, 4 Nm, for Compact Air Drive and Power Drive	210 200	Duill Dia (X 2 2 2 Lorenth 105/170 2 flut-	(103.330)	(103.331)	(103.332)
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311.550 Tap for Cortex Screws Ø 5.5 mm 311.660 Tap for Cancellous Bone Screws Ø 6.5 mm, length 195 mm 311.449 Instrument for temporary reduction for LCP 4.5/5.0 312.460 Double Drill Guide 4.5/3.2 312.449 Threaded Drill Guide 4.3 312.560 Double Drill Guide 5.5/4.0 314.110 Holding Sleeve, large 314.150 Screwdriver Shaft, hexagonal, large, Ø 3.5 mm 314.270 Screwdriver, hexagonal, large, Ø 3.5 mm, with Groove, length 245 mm 314.118 Screwdriver Stardrive, T25, self-holding, length 290 mm 314.119 Screwdriver Shaft Stardrive, 4.5/5.0, T25, self-holding, for AO/ASIF Quick Coupling 319.100 Depth Gauge for Screws Ø 4.5 to 6.5 mm, measuring range up to 110 mm 321.20 Tension Device, articulated, span 20 mm 321.20 Ratchet Wrench for Nut, hexagonal, 11.0 mm 322.535 Universal Drill Guide 5.5 323.460 Universal Drill Guide 4.5/3.2, for neutral and load position 511.771 Torque Limiter, 4 Nm, for Compact Air Drive and Power Drive	311.440	T-Handle with Quick Coupling	•	•	
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397.705 Handle for Torque Limiter Nos. 511.770 and 511.771 • • • • • • • • • • • • • • • • • •		Universal Drill Guide 4.5/3.2, for neutral and load position	•	•	
511.771 Torque Limiter, 4 Nm, for Compact Air Drive and Power Drive • •			•		•
			•		•
		Graphic Case for Large Fragment Instrument Set	•	•	

Quick Reference Guide – Screws

Part	Description	Large	Large	Large
Number		Fragment	Fragment	Fragment
		Standard	Standard	Locking
		5.5 mm	4.5 mm	Screw Set
		Screw Set	Screw Set	
		(103.536)	(103.537)	(103.538)
VS501.024 -	- Cortex Screw ∅ 5.5 mm	•		
VS501.100				
690.546	Rack for Large Fragment Standard Screws \varnothing 5.5 mm	•		
VS402.018 -	- Cortex Screw \varnothing 4.5 mm, self-tapping		•	
VS402.860				
VP1300.04	Washer \varnothing 10.0/4.5 mm, Stainless Steel		•	
VP1300.05	Washer \varnothing 13.0/6.6 mm, for Screws \varnothing 4.5 to 7.3 mm,		•	
	Stainless Steel			
690.547	Rack for Large Fragment Standard Screws \varnothing 4.5/6.5 mm		•	
VS502.206 -	- Locking Screw Stardrive \varnothing 5.0 mm, self-tapping			•
VS502.224				
690.548	Rack for Large Fragment Locking Screws			•

Quick Reference Guide – Plates

Part Number	Description	Large Fragment LCP Plate Set
		(103.538)
329.920	Bending Template for LC-DCP 4.5 and DCP 4.5, length 210 mm	•
329.970	Bending Template for LC-DCP 4.5 and DCP 4.5, length 120 mm	•
329.990	Bending Template for LC-DCP 4.5 and DCP 4.5, length 155 mm	•
690.543	Graphic Case for Large Fragment Plate Set	•
VP4051.03	LCP 4.5 for PIP Arthrodeses, narrow, 3 holes, length 66 mm, Stainless Steel	•
VP4051.04	LCP 4.5, narrow, 4 holes, length 71 mm, Stainless Steel	•
VP4051.05	LCP 4.5, narrow, 5 holes, length 89 mm, Stainless Steel	•
VP4051.06	LCP 4.5, narrow, 6 holes, length 107 mm, Stainless Steel	•
VP4051.07	LCP 4.5, narrow, 7 holes, length 125 mm, Stainless Steel	•
VP4051.08	LCP 4.5, narrow, 8 holes, length 143 mm, Stainless Steel	•
VP4051.09	LCP 4.5, narrow, 9 holes, length 161 mm, Stainless Steel	•
VP4051.10	LCP 4.5, narrow, 10 holes, length 179 mm, Stainless Steel	•
VP4051.12	LCP 4.5, narrow, 12 holes, length 215 mm, Stainless Steel	•
VP4061.08	LCP 4.5, broad, 8 holes, length 143 mm, Stainless Steel	•
VP4061.10	LCP 4.5, broad, 10 holes, length 179 mm, Stainless Steel	•
VP4061.12	LCP 4.5, broad, 12 holes, length 215 mm, Stainless Steel	•
VP4071.11	LCP 5.5, broad, 11 holes, length 198 mm, Stainless Steel	•
VP4071.12	LCP 5.5, broad, 12 holes, length 216 mm, Stainless Steel	•
VP4071.13	LCP 5.5, broad, 13 holes, length 234 mm, Stainless Steel	•
VP4071.14	LCP 5.5, broad, 14 holes, length 252 mm, Stainless Steel	•



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