

For treatment of carpal joints in dogs

LCP® Pancarpal Arthrodesis Plates

Brochure

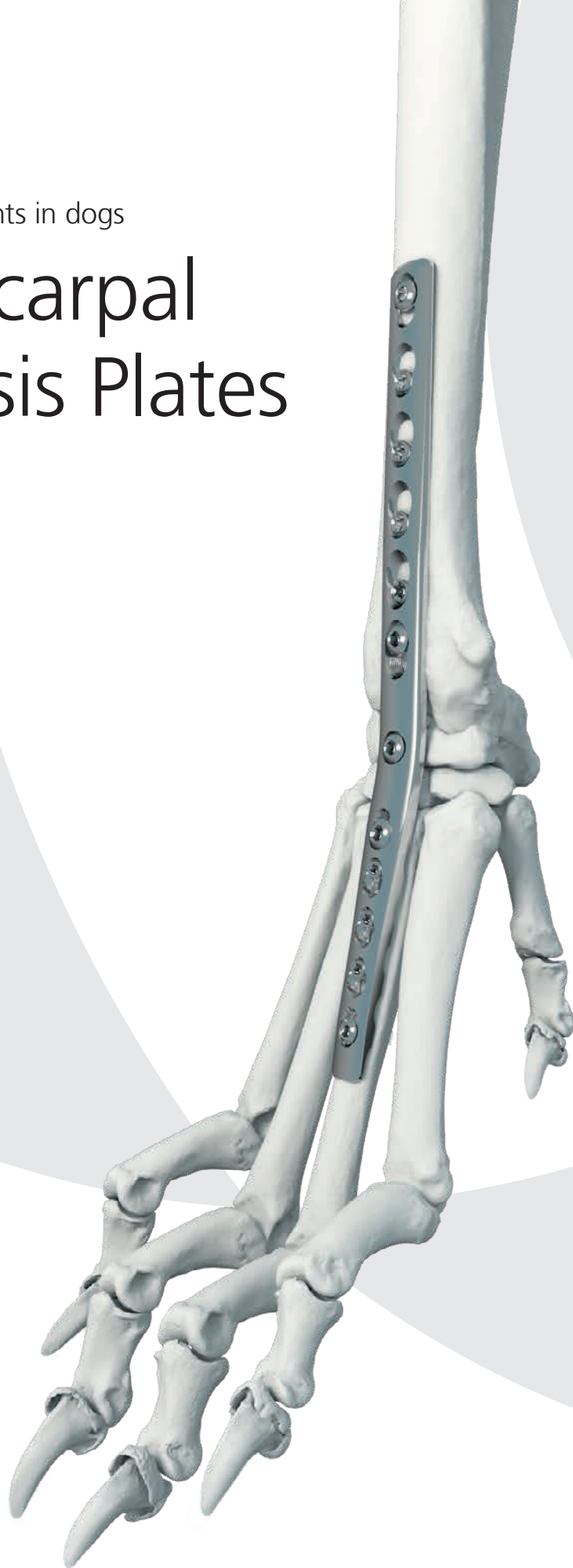


Plate design

Depuy Synthes LCP® Pancarpal Arthrodesis plate design features:

LCP Combi Holes proximally and LCP Combi and/or Stacked Combi Holes distally provide the option to place either cortex or locking screws.

VP4301.12 – 3.5 mm/2.7 mm LCP Pancarpal Arthrodesis Plate, 151 mm long, 3.3 mm thick



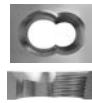
VP4302.11 – 2.7 mm/2.0 mm LCP Pancarpal Arthrodesis Plate, 108 mm long, 2.6 mm thick



VP4303.10 – 2.4 mm/2.0 mm LCP Pancarpal Arthrodesis Plate, 88 mm long, 2.0 mm thick



LCP Combi Holes accept locking or cortex screws

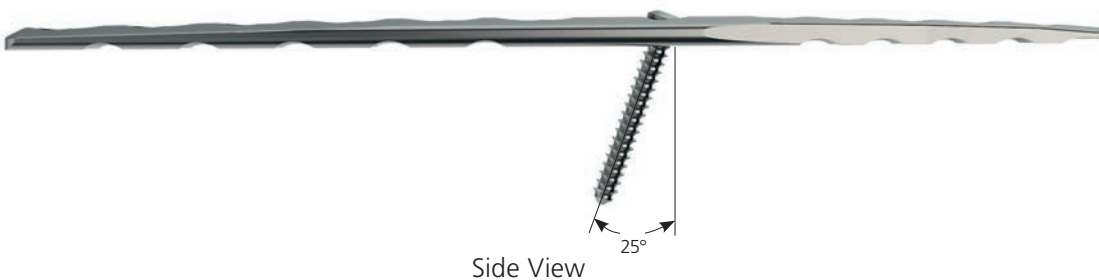


Stacked Combi Holes accept locking or cortex screws



Plate thickness tapers proximally and distally to improve soft tissue coverage and reduce stiffness at the ends of plate.

The center hole accepts a 3.5 mm cortex screw and allows up to 25° of proximal angulation.



Spacing between the most distal hole and the end of the plate has been increased to reduce bone stress.



Bottom View

Extended undercuts to reduce distal plate stiffness

Locking Screws

Screw Head

The tapered, double-lead machine thread on the head of the locking screw engages the threads of the locking plate holes. The resulting fixed-angle construct provides stable fixation of the bone fragments without having to compress the plate to the bone. A perfectly contoured plate is therefore not required to achieve fixation and maintain proper alignment.

Thread Profile

Because locking screws do not compress the plate to the bone, the “pull-out” mode of failure is not applicable to locking screws. For this reason, locking screws are made with a smaller thread profile and a larger core diameter. This results in increased mechanical strength over comparably sized cortex screws.¹

Drive Mechanism

The StarDrive® Recess of a locking screw provides three significant improvements over an internal hex drive. First, “stripping” of the screw head is minimized as a failure mode, which results in a much higher tolerance to wear for the screwdriver.¹ Second, the tapered StarDrive Recess provides automatic screw retention without the need for an additional screw holding mechanism. Third, the StarDrive Recess allows a smaller screw head and allows the screw head to sit flush with the plate.

Caution: DePuy Synthes Companies of Johnson & Johnson implants and instruments are manufactured with proprietary processes that produce superior products to those created by conventional manufacturing processes. Though other companies may be able to estimate the DePuy Synthes Companies general product design, DePuy Synthes Companies product dimensions are proprietary. The precision design of DePuy Synthes Companies products is very important for long-term product function and optimal fit between implants.

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

StarDrive Recess



Double-lead locking threads mate with the threaded portion of the plate



Self-tapping flutes

With these features and qualities, the mixing of DePuy Synthes Companies implants with the implants from other companies is not recommended. The overall performance may be compromised due to differences in design, chemical composition, mechanical properties, and quality.

Given these qualities are trade-secret, no competitor of DePuy Synthes Companies can make a genuine claim “the same as DePuy Synthes Companies.” Combining implants from other companies with DePuy Synthes Companies implants could reduce product performance. Consequently, it is strongly recommended to not mix parts from different manufacturers.

¹ Test data on file at DePuy Synthes Companies (Ref Test Report #SET_20110610).

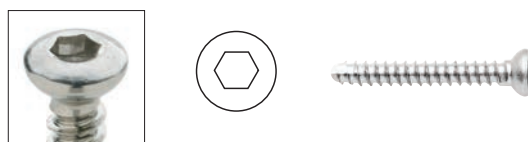
Implants

VP4301.12	Veterinary: LCP Pancarpal Arthrodesis Plate 2.7/3.5 mm, 12 holes, length 151 mm
VP4302.11	Veterinary: LCP Pancarpal Arthrodesis Plate 2.7/2.0 mm, 11 holes, length 108 mm, thickness 2.6 mm
VP4303.10	Veterinary: LCP Pancarpal Arthrodesis Plate 2.4/2.0 mm, 10 holes, length 88 mm, thickness 2.0 mm



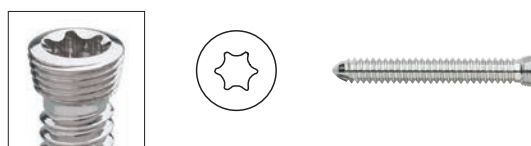
Veterinary: Cortex Screw \varnothing 2.7 mm, self-tapping, Stainless Steel

VS205.006– VS205.044	6 mm–44 mm (in 2 mm increments)
VS205.045	45 mm
VS205.046	46 mm
VS205.048	48 mm
VS205.050	50 mm
VS205.055	55 mm



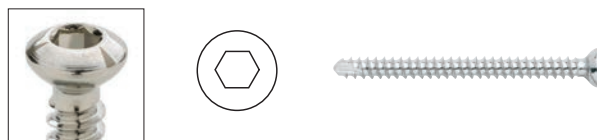
Veterinary: Locking Screw StarDrive \varnothing 2.7 mm (head LCP 2.4), self-tapping, Stainless Steel

VS206.010– VS206.034	10 mm–34 mm (in 2 mm increments)
-------------------------	----------------------------------



Veterinary: Cortex Screw \varnothing 3.5 mm, self-tapping, Stainless Steel

VS302.010– VS302.044	10 mm–44 mm (in 2 mm increments)
VS302.045	45 mm
VS302.046– VS302.050	46 mm–50 mm (in 2 mm increments)
VS302.055– VS302.070	55 mm–70 mm (in 5 mm increments)



Veterinary: Locking Screw StarDrive \varnothing 3.5 mm, self-tapping, Stainless Steel

VS303.010– VS303.042	10 mm–42 mm (in 2 mm increments)
VS303.045	45 mm
VS303.048	48 mm
VS303.050	50 mm
VS303.052	52 mm
VS303.055– VS303.070	55 mm–70 mm (in 5 mm increments)



Veterinary: Cortex Screw \varnothing 2.4 mm, self-tapping, Stainless Steel

VS203.006– VS203.014	6 mm–14 mm (in 1 mm increments)
VS203.016– VS203.040	16 mm–40 mm (in 2 mm increments)



Veterinary: Locking Screw StarDrive \varnothing 2.4 mm, self-tapping, T8, Stainless Steel

VS208.006– VS208.014	6 mm–14 mm (in 1 mm increments)
VS208.016– VS208.030	16 mm–30 mm (in 2 mm increments)



Veterinary: Cortex Screw \varnothing 2.0 mm, self-tapping, Stainless Steel

VS202.006– VS202.040	6 mm–40 mm (in 2 mm increments)
-------------------------	---------------------------------



Veterinary: Locking Screw \varnothing 2.0 mm, self-tapping, Stainless Steel

VS207.006– VS207.014	6 mm–14 mm (in 1 mm increments)
VS207.016– VS207.030	16 mm–30 mm (in 2 mm increments)



Set Information

Recommended Sets

103.503	Veterinary: Small Fragment Instrument Set
103.515	Veterinary: Small Fragment Screw Set

Note: Small Fragment Instrument Set (103.503) consists of Standard Instrument Set (103.501), with graphic case, and Locking Instrument Set (103.502).



103.503



103.515

The images in this brochure are illustrative only and should not be interpreted to represent surgical technique. Screw types, screw insertion order, and number of plate holes filled should be decided on a case by case basis by the surgeon. For information on screw insertion and basic plating technique please refer to the Small Fragment Technique Guide, 036.000.995. The products should not be used unless the surgeon is familiar with the AO method as described in the latest editions of the Manual for Internal Fixation by M.E. Mueller, et al (Publisher: Springer-Verlag), and AO Principles of Fracture Management in the Dog and Cat by Johnson, et al (Publisher: Thieme).

Recommended Sets

103.521 Mini Fragment Instrument Set

103.524 Mini Fragment Implant Set

Note: Mini Fragment Instrument Set (103.521) consists of Standard Instrument Set (103.522), with graphic case, and Locking Instrument Set (103.523).



103.521



103.524

