

SECUROS

Locking Plate Freedom

- **Polyaxial** locking up to 10°
- **Titanium** implants
- **Interchangeable** screws between 2.0/2.4mm & 2.7/3.5mm systems
- Ability to remove screws & adjust **angulation**



Radiograph provided by: Fred Pike, DVM, DACVS
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Radiograph provided by: David Mason, DVM, MRCVS,
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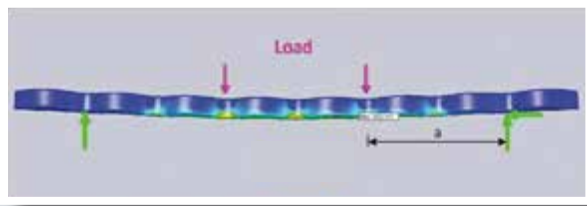


PAX RP



PAX SP

PAX Polyaxial Advanced Locking Veterinary Osteosynthesis System



In 2009, SECUROS introduced the PAX System in an effort to combine the advantages of conventional plate systems and locking plate systems to provide the veterinary surgeon the **best of both worlds**. The PAX system is designed for operative fracture treatment, anatomical reconstruction, and re-establishment of lost functionality. The **modern plate geometries** offer the veterinary surgeon a wide range of application from extremities to the spine. The plates and screws present a stable locking system to provide the fundamental conditions for **bone osteosynthesis**. Because it is possible to lock the plates without pressing them onto the bone it reduces damage to the blood supply. The angularly-stable screw-plate locking system offers a **polyaxial insertion** of the screws into the plate at an angle of **+/- 10 degrees**. The stability of the fracture treatment is the result of the **high construct stiffness** and is almost independent of the bone quality, contact pressure, and whether the plate is precisely formed to the bone or not. The loading is transferred directly from the screw to the plate. The **locking mechanism** utilizes plastic deformation of the plate on the screw head thread while inserting the screw and is reliable for repeated insertion of the screw. **Benefits** of the PAX Advanced Locking System include:

- Titanium and titanium alloy for **supreme biocompatibility**
- **Polyaxial** locking up to 10 degrees
- Available in both **contourable RP** (Reconstruction Plate) or **rigid SP** (Straight Plate) styles
- SP plates feature **comparable stiffness** compared to conventional plates ¹
- SP plates are approximately **40% stiffer** than RP plates¹
- **Angle stable** locking without significant screw pushout loss up to 5 degrees and great results up to 10 degrees ²
- Plates **accept both** PAX locking and conventional screws
- **Interchangeable** locking screws between 2.0/2.4mm and 2.7/3.5mm systems
- Biological **internal fixation** design rationale with good **clinical outcomes** ³
- **Patented** locking technology

1. Internal mechanical testing data results available upon request.

2. Bufkin BW, Barnhart MD, Kazanovicz AJ et al. The effect of screw angulation and insertion torque on the push-out strength of polyaxial locking screws and the single cycle to failure in bending of polyaxial locking plates. Vet Comp Orthop Traumatol 2013; 26: 186-191.

3. Barnhart MD, Rides CF, Kennedy SC et al. Fracture repair using a polyaxial locking plate system (PAX). Vet Surg 2012; 42: 60-66.

*Radiograph provided by Cristóbal Frias Rides, DVM.