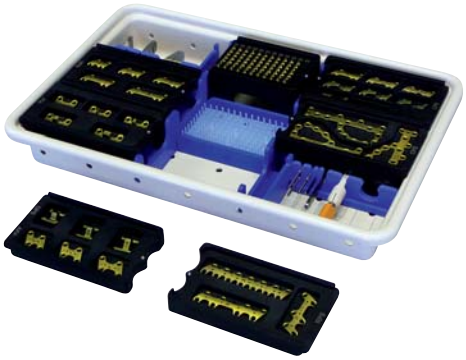
# DARCO® MRS™

Locked plating system for reconstructive rearfoot surgery.

WRIGHT.

# DARCO® MRS™

**Locked plating system for reconstructive rearfoot surgery**



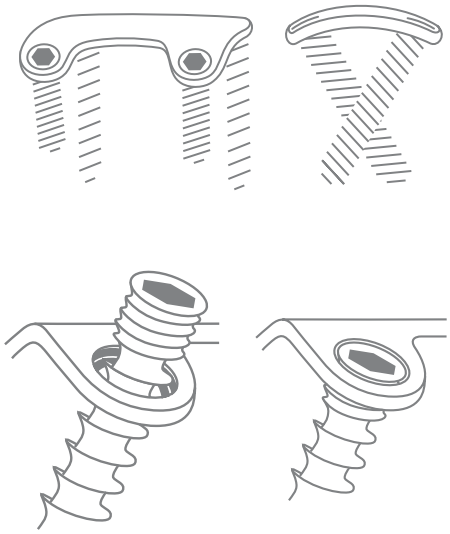


**Figure 1**

## System Basics

The DARCO® MRS™ plating system for the rearfoot has been designed in close collaboration with internationally renowned surgeons to address the specific needs of reconstructive foot and ankle surgery. After many years of iterative research and development, the resulting product is highly refined for treatment of challenging rearfoot disorders.

All implants are manufactured to exacting standards from Titanium Alloy in our German facility. The system has been designed to take advantage of the many benefits of fixed-angle locked screw fixation.

## Implant Design

All plates in the system are rhombic (parallelogram) in form, with converging pairs of 3.5mm screw holes. **(Figure 1)** Every screw hole in every plate may receive either a locked or a non-locked screw, at the surgeon's discretion. The holes are aligned to provide optimal screw purchase through screw convergence. The individual plate geometries vary to suit specific surgical indications.

Locked plating fixation is enabled through a rigid mechanical connection between screw and plate. In this system, the head of the screw has an external thread that matches the internal thread in the plate holes.

The following guidelines should be followed with locked plating systems:

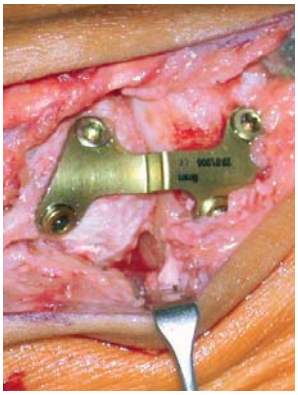
- The plates may be contoured to better fit anatomy. All contouring should be performed with the Locking Drill Guides threaded into the appropriate screw holes to prevent deformation of the holes. Plates should be bent in one direction only; do not "unbend" after initial contouring.
- Ensure that joint surfaces are properly debrided prior to application of the implants.
- Joints and osteotomies should be properly reduced and compressed prior to application of a locking plate. In particularly demanding applications, placement of an interfragmentary compression screw should be considered prior to placement of the locking plate.
- Locked screws are useful in a number of situations. Generally, they provide better fixation in soft bone and stiffen the overall fusion construct between plate and bone.
- Locked screws have a pre-defined trajectory. Locking drill guides should always be used to pre-drill locked screws to ensure that the screws mate properly with the plate.
- Care must be taken with plate positioning so that locked screws are not directed into adjacent functioning joints or other hardware. In this case, non-locked screws may be used to redirect around the offending joint or hardware.
- Locked screws maintain the relative positions of plate and bone; they cannot be used to "lag" the plate to the bone. If the plate must be brought into close apposition with underlying bone, a non-locked screw should be used.

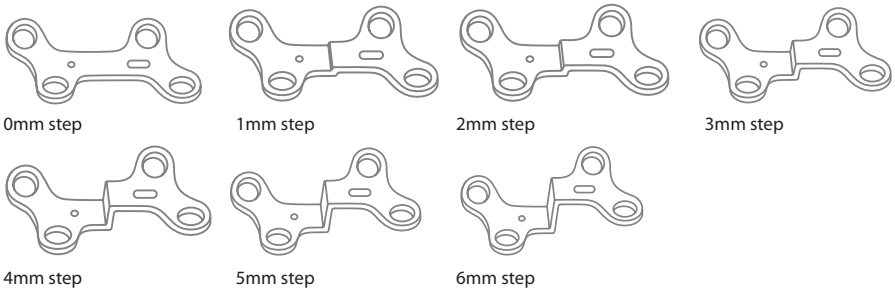
# LPS™

**Step displacement plate for TMT fusions and Lapidus procedures**

- Stable locked plate
- 1mm step increments

Designed for the unique challenges of Lapidus (1st TMT) and Lisfranc fusions. The step design permits plantarization and lateralization of the MT base.





0mm step | 1mm step | 2mm step | 3mm step

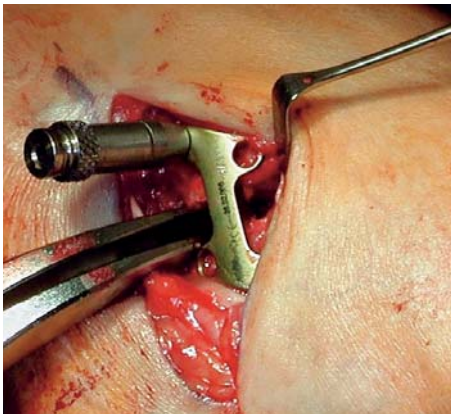
4mm step | 5mm step | 6mm step

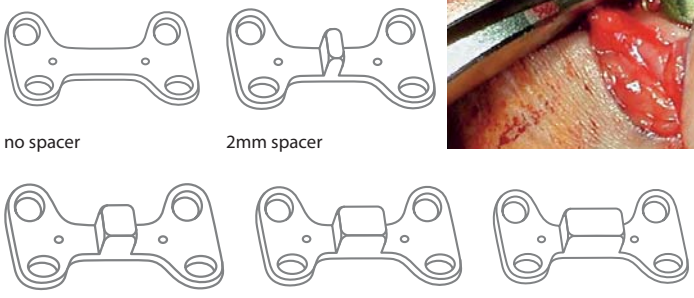
# PIA™

**Plate for Evans lateral/column lengthening, rearfoot osteotomies and fusions**

- Integrated spacers
- 2mm increments

Permits a controlled, incremental interposition for reconstructive fusions and osteotomies of the rearfoot.



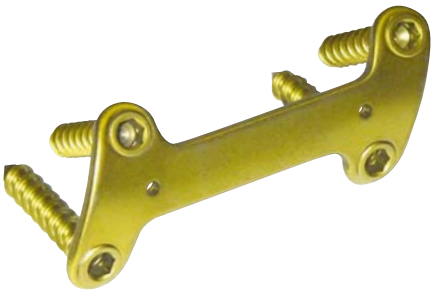


no spacer | 2mm spacer

4mm spacer | 6mm spacer | 8mm spacer

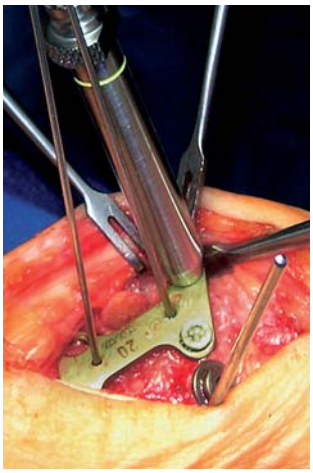
# UPS™ 3.5

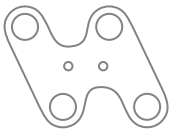
**General purpose plating for a variety of midfoot and rearfoot procedures**



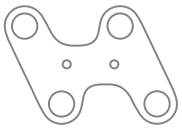
- Rigid, versatile system
- 5 lengths: 12, 16, 20, 24 and 30mm

Useful for isolated tarsal fusions such as CC, NC, and TN joints. Also useful for Evans lenthening procedures with interpositional bone grafts.

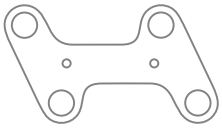




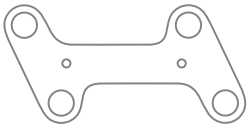
12mm



16mm



20mm



24mm

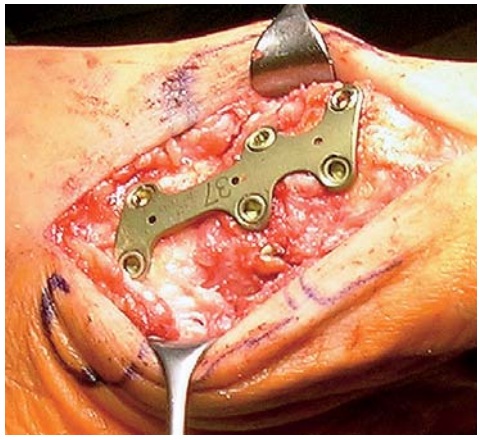
30mm

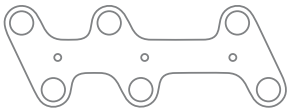
# RPS™

**Plating for complex rearfoot medial/lateral column reconstruction**

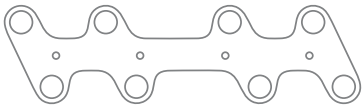
- 3 variations with 6, 8 and 14 holes
- Locked 3.5mm screws for optimal purchase in soft bone

May be used to stabilize the medial and lateral columns from talus to metatarsal in Charcot or Flatfoot reconstruction technique.





6 holes, 37mm



8 holes, 50mm

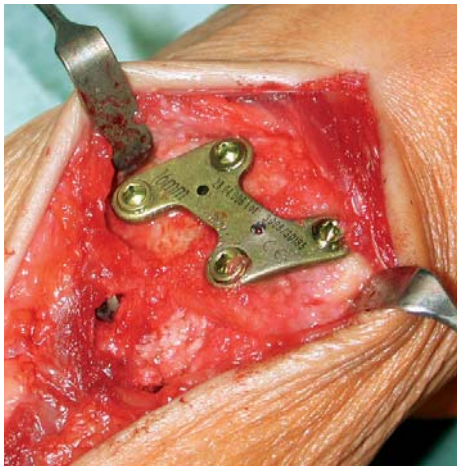
14 holes, 66mm

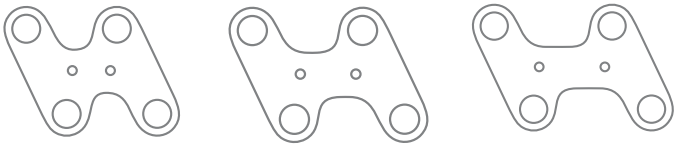
# AFP™

**Flat plate for isolated tarsal fusions**

- 2mm thickness
- 3 lengths: 12, 14 and 16mm

The nature of this design makes it suitable for subtalar, CC, Lisfranc and intercuneiform arthrodesis.

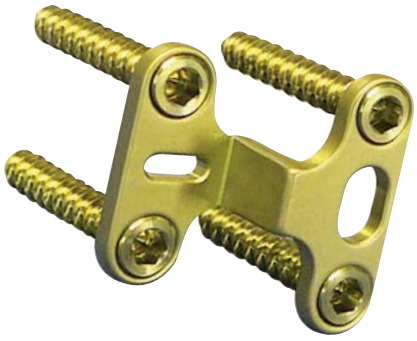




12mm 14mm 16mm

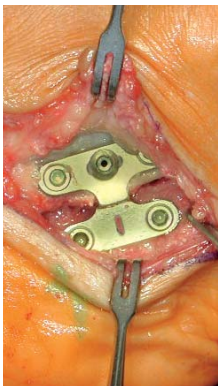
# DPS™

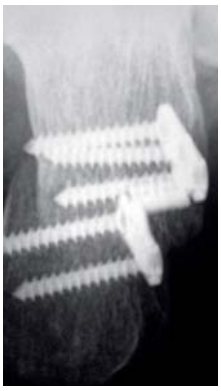
**Step plate for fixation of calcaneal displacement osteotomies**



- 3 step variations: 6, 8 and 10mm

The step plate design allows well-controlled shift of the posterior fragment in displacement calcaneal osteotomies (MDO/ Medial Displacement Osteotomy). Osteotomy and fixation are performed through the same surgical incision.





6mm step 8mm step 10mm step

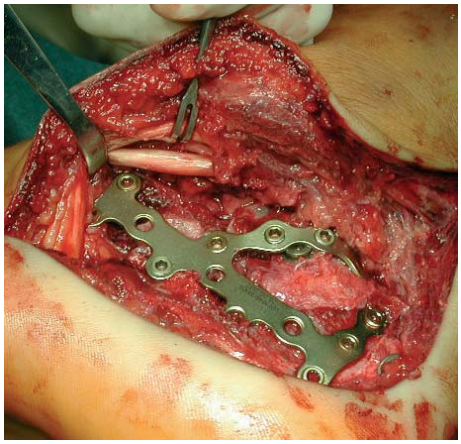
# CPS™

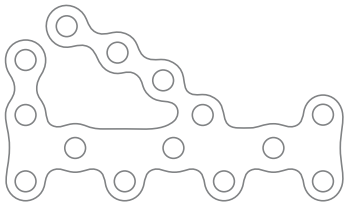
**Low profile, locked plate for the calcaneous**

- Only 1.5mm thick, with locked screws
- Easily contoured
- Universal sizing (fits either left or right)
- 3 sizes: S, M and L

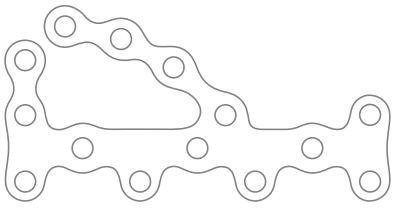
The flexibility of this plate allows it to be easily contoured to the bony surface. It is uniquely designed to offer locked-screw technology while maintaining a low, smooth profile.

The large plate permits fixation of the CC joint for fractures with articular extension.

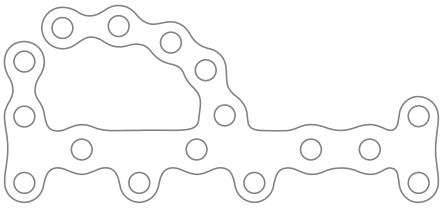




S: 54mm



M: 64mm



L: 74mm

# Ordering Information

### Kit List

| Part No. | Description | Quantity |
|---|---|---|
| DMRSKITA | Implant Kit | |
| DMRSKIT1 | Instrument Kit | |
| **Locked Screws** | | |
| DC 2820-014 | 14mm x 3.5mm | 5 |
| DC 2820-016 | 16mm x 3.5mm | 5 |
| DC 2820-018 | 18mm x 3.5mm | 5 |
| DC 2820-020 | 20mm x 3.5mm | 5 |
| DC 2820-022 | 22mm x 3.5mm | 5 |
| DC 2820-024 | 24mm x 3.5mm | 5 |
| DC 2820-026 | 26mm x 3.5mm | 5 |
| DC 2820-028 | 28mm x 3.5mm | 5 |
| DC 2820-030 | 30mm x 3.5mm | 5 |
| DC 2820-035 | 35mm x 3.5mm | 5 |
| DC 2820-040 | 40mm x 3.5mm | 5 |
| **Non-Locked Screws** | | |
| DC 2820-114 | 14mm x 3.5mm | 2 |
| DC 2820-116 | 16mm x 3.5mm | 2 |
| DC 2820-118 | 18mm x 3.5mm | 2 |
| DC 2820-120 | 20mm x 3.5mm | 2 |
| DC 2820-122 | 22mm x 3.5mm | 2 |
| DC 2820-124 | 24mm x 3.5mm | 2 |
| DC 2820-126 | 26mm x 3.5mm | 2 |
| DC 2820-128 | 28mm x 3.5mm | 2 |
| DC 2820-130 | 30mm x 3.5mm | 2 |
| DC 2820-135 | 35mm x 3.5mm | 2 |
| DC 2820-140 | 40mm x 3.5mm | 2 |
| **Instruments and accessories** | | |
| DC 35 Box | System tray assembly | 1 |
| DC 70-481 | Bending forceps | 1 |
| DC 4157 | Bending iron | 1 |
| DC 4169 | Drill guide | 2 |
| DC 4263-2 | Depth gauge | 1 |
| DC 4197 | Forceps | 1 |
| DC 4261 | Screwdriver, hexagonal, cannulated | 1 |
| DC 5136 | Drill bit, 2.5mm | 2 |
| DC 5620 | Cannulated drill bit 2.5mm | 1 |
| NO 2228-012 | K-wire 140 × 1.1mm | 6 |
| DC 4584 | Screw holding and bending iron | 1 |

| Part No. | Description | Placement in Trays |
|---|---|---|

### LPS™ Plating System for TMT and Lapidus Fusions

| | |
|---|---|
| DC 2801-000 | 0mm step |
| DC 2801-001 | 1mm step |
| DC 2801-002 | 2mm step |
| DC 2801-003 | 3mm step |
| DC 2801-004 | 4mm step |
| DC 2801-005 | 5mm step |
| DC 2801-006 | 6mm step |

| | | |
|---|---|---|
| 0 | 1 | 2 |
| 3 | 4 | 5 |
| 6 | | |

### PIA™ Evans Lateral/Column Lengthening Plate

| | |
|---|---|
| DC 2802-000 | 0mm spacer |
| DC 2802-002 | 2mm spacer |
| DC 2802-004 | 4mm spacer |
| DC 2802-006 | 6mm spacer |
| DC 2802-008 | 8mm spacer |

| | | |
|---|---|---|
| 0 | 2 | 4 |
| 6 | 8 | |

### UPS™ 3.5 General Purpose Plate

| | |
|---|---|
| DC 2801-012 | 12mm |
| DC 2801-016 | 16mm |
| DC 2801-020 | 20mm |
| DC 2801-024 | 24mm |
| DC 2801-030 | 30mm |

| | | |
|---|---|---|
| 12 | 16 | 20 |
| 24 | 30 | |

### RPS™ Rearfoot Medial/Lateral Column Reconstruction Plate

| | |
|---|---|
| DC 2803-006 | 37mm, 6 holes |
| DC 2803-008 | 50mm, 8 holes |
| DC 2803-014 | 66mm, 14 holes |

| | |
|---|---|
| 66 | 37 |
| 50 | |

### AFP™ Tarsal Fusion Plate

| | |
|---|---|
| DC 2804-004 | 12mm |
| DC 2804-005 | 14mm |
| DC 2804-006 | 16mm |

| | | |
|---|---|---|
| | | |
| 12 | 14 | 16 |

### DPS™ Fixation Step Plate

| | |
|---|---|
| DC 2806-106 | 6mm step |
| DC 2806-108 | 8mm step |
| DC 2806-110 | 10mm step |

| | | |
|---|---|---|
| 6 | 8 | 10 |
| | | |

### CPS™ Calcaneous Plate

| | |
|---|---|
| DC 2805-001 | S: 54mm |
| DC 2805-002 | M: 64mm |
| DC 2805-003 | L: 74mm |

| | |
|---|---|
| L | S |
| M | |

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