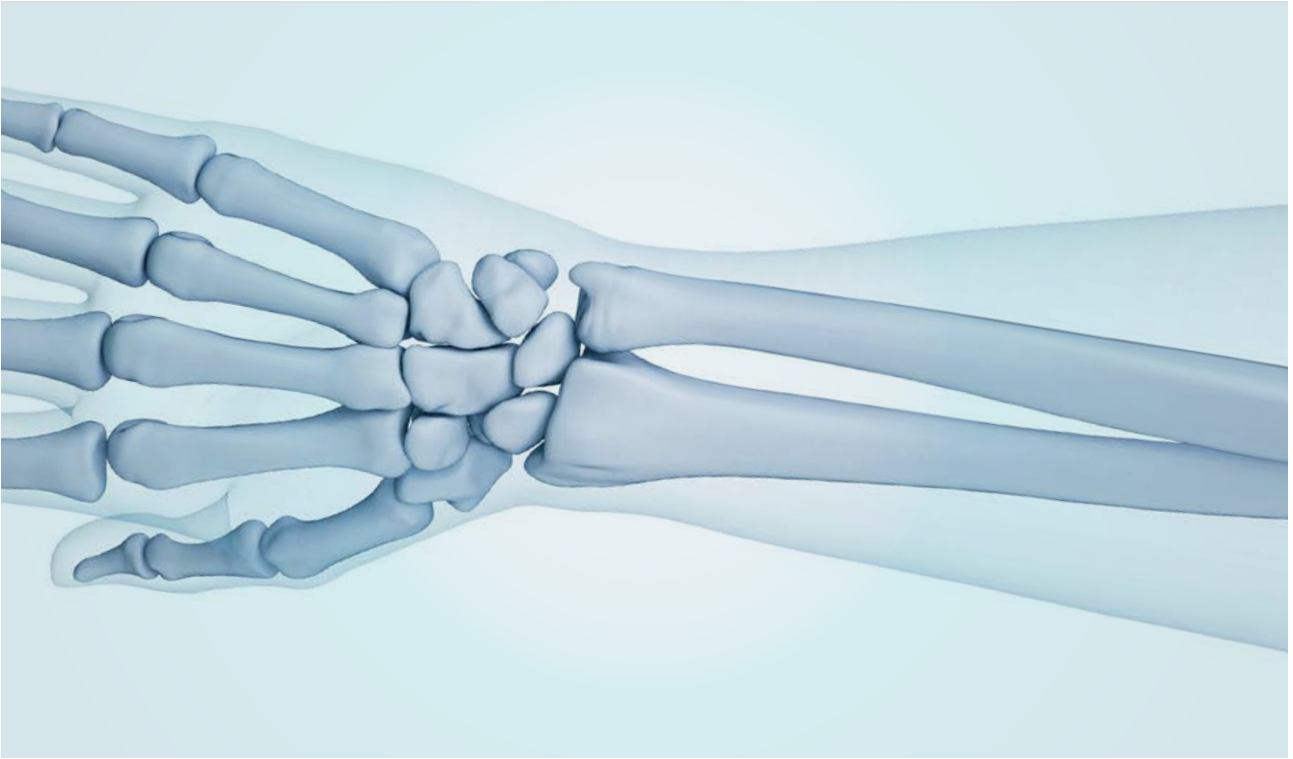


ARX WRIST SYSTEM DORSAL RADIUS PLATE

Surgical Technique

Contents

3	Indication
4	Overview
5	Surgical Technique
12	Plate Variation
13	Set Configuration



Objective

Restoration of the intra- and extra-articular anatomy of the distal radius. Stable internal fixation of fragments, with the possibility of early functional rehabilitation.

Indication

The ARIX Wrist System(Radius) is intended for use in forearm fractures, osteotomies and arthrodesis.

Contraindications

General medical contraindications for surgical intervention.
Distal radius fractures with palmar tilt of the distal fragment.

Advantages

- Anatomic reconstruction of the radiocarpal joint under direct vision.
- Restoration of length and axes.
- No need for cancellous bone grafting if fixed-angle plates are used.
- Early functional rehabilitation of the wrist.
- The plates are not prominent due to their reduced thickness.

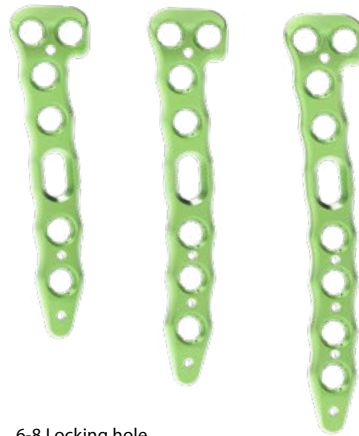
Radial column plate



4-6 Locking hole
25-DDRA-0XX Series

Intermediate column plate

Left



6-8 Locking hole
25-DDRA-2XX Series

Right



6-8 Locking hole
25-DDRA-1XX Series

1. Approach

Straight skin incision from the basis of metacarpal II, ending approximately 5 cm proximal.

2. Reduce fracture

Reduce the fracture under radiographic imaging. If necessary, fix the articular fragments, following anatomic reduction, with Kirschner wires or reduction forceps.



3. Place intermediate column plate

Place the intermediate column plate over the reduced fracture(111-068-2).

If necessary, fix it provisionally with 1.1 mm guide pin.

If necessary, bend the plate to suit to the bone shape.



Required Instruments



Guide Pin
111-068-2

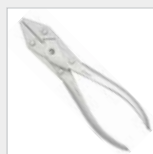


Plate Bender
26.0240.17

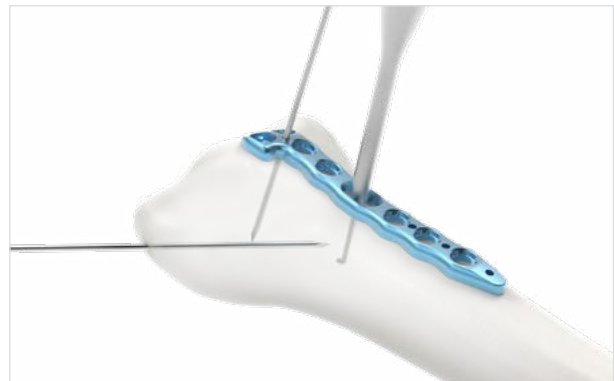
4. Drill screw hole

Using drill guide(111-080), drill through the oblong hole.



5. Measure required screw length

Using depth gauge(111-075), determine screw length.

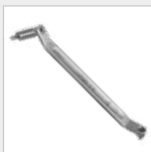


6. Insert cortical screw

Insert cortical screw with STARIX T8 screwdriver(113-HF-613).
Adjust the plate position and tighten the screw.



Required Instruments



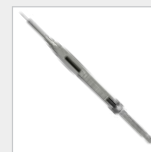
Drill Guide
111-080



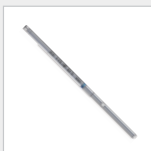
Drill Sleeve
111-101



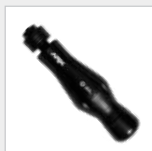
Drill Bit
112-25-701



Depth Gauge
111-075



Screwdriver Shaft
113-HF-613

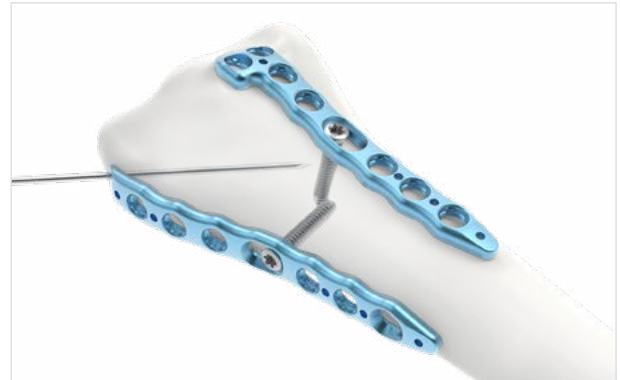


Screwdriver Handle
111-092

7. Place Radial column plate

Place the radial column plate and insert \varnothing 2.5 mm cortical screw in the oblong hole in the proximal shaft. The angle between two plates should be approximately 70° . Follow the step 4 to step 6 to insert cortical screw.

Use the small notch in the distal end of the plate to position the radial column plate properly.

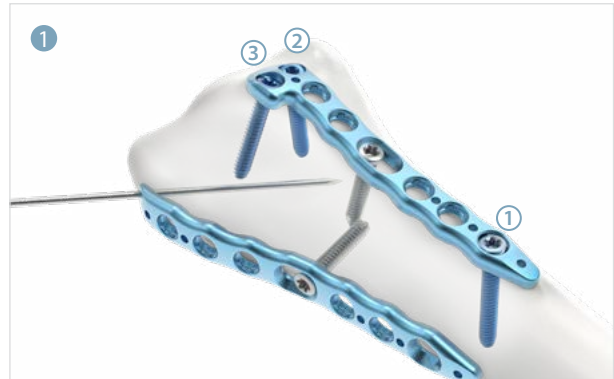


8. Insert variable angle locking screws

Locking screw insertion order

1 Insert screws in intermediate column plate

Insert a \varnothing 2.5 mm locking screw in most proximal hole in the shaft of the intermediate plate ①. Insert \varnothing 2.5 mm locking screws in the distal holes of the plate ②, ③.



2 Insert screws in radial column plate

Insert a \varnothing 2.5 mm locking screw in the most proximal hole of the radial column plate ④. Complete internal fixation by inserting \varnothing 2.5 mm locking screws in the distal end of the plate ⑤, ⑥.

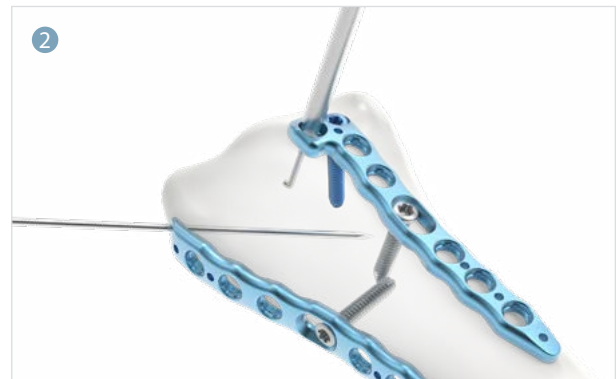


How to insert locking screws

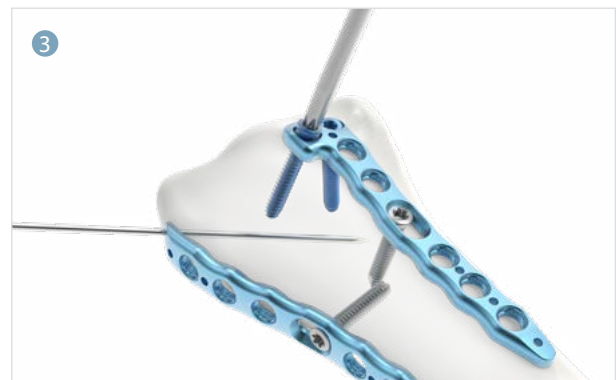
- 1 Mount the variable angle drill guide(111-080) in the variable angle locking hole. Alternatively the variable angle drill sleeve(111-103) can be applied. Use the drill bit(112-25-701) to drill to the desired depth, at the desired angle.



- 2 Determine screw length using the depth gauge(111-075).



- 3 Insert screws with STARIX T8 screwdriver(113-HF-613).



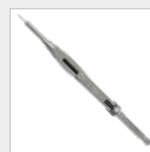
Required Instruments



Drill Guide
111-080



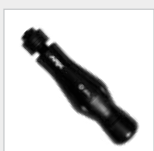
Drill Bit
112-25-701



Depth Gauge
111-075



Screwdriver Shaft
113-HF-613



Screwdriver Handle
111-092



Optional
Drill Sleeve
111-103



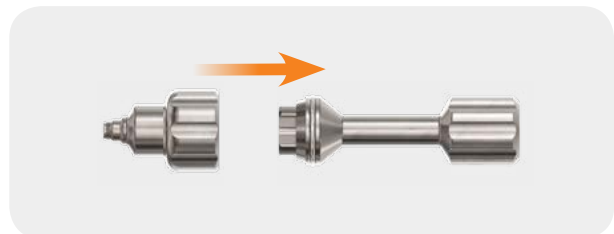
Optional
Drill Sleeve Handle
111-157

How to use variable angle drill sleeve

1 The Variable Angle Drill Sleeve enables the screw to be inserted at a user preferred angle within $\pm 15^\circ$ range.



2 The Drill Sleeve Handle allows for ease of insertion of the drill guide and ensures better visibility for targeting. Before positioning the Drill Sleeve, engage it with the Sleeve Handle. After the Drill Guide is fully engaged with the plate, disconnect the Drill Sleeve Handle. The Drill Sleeve Handle is not required when removing the Drill Sleeve.



Required Instruments



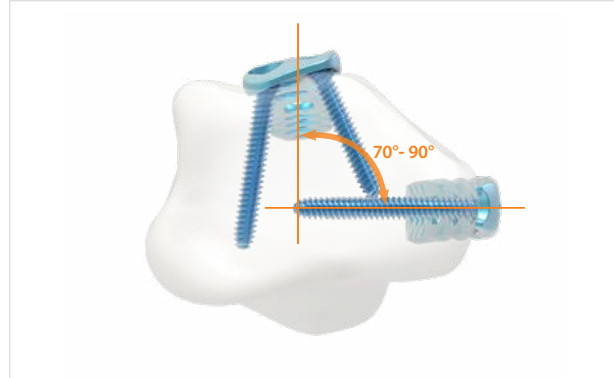
Drill Sleeve
111-103



Drill Sleeve Handle
111-157

9. Confirm proper joint reconstruction and close incision

Confirm proper joint reconstruction, screw placement and screw length using multiple radiographic images. Use the appropriate method for surgical closure of the incision



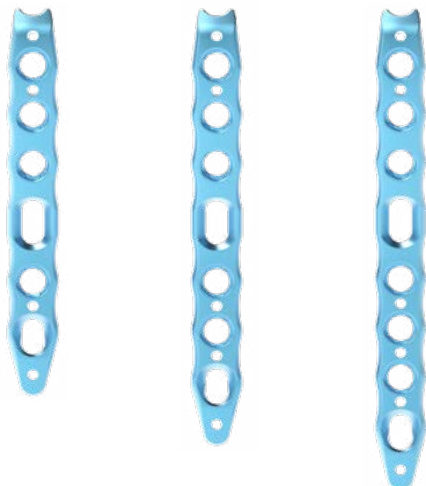
10. Implant removal

To remove locking screws, first unlock all screws from the plate, then remove the screws completely from the bone. The last screw removed should be a cortical screw on the shaft.



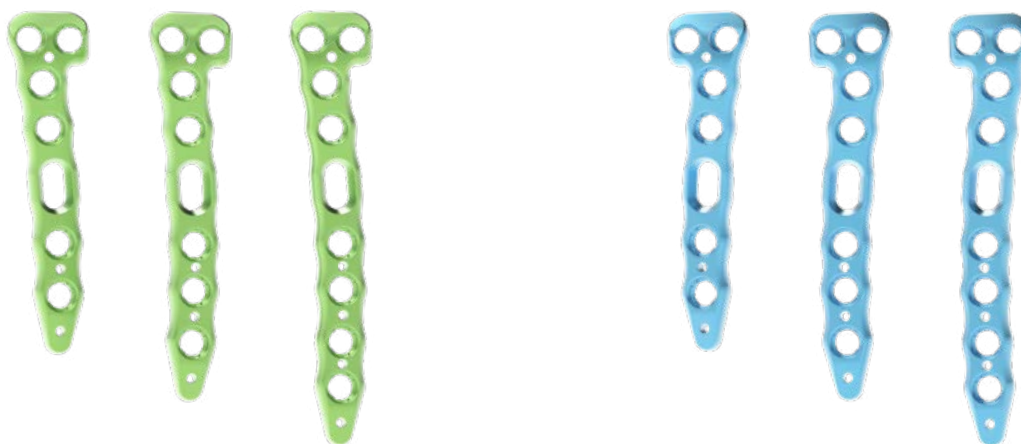
Distal Dorsal Radius Plates

Radial column plate



25-DDRA-004 25-DDRA-005 25-DDRA-006

Intermediate column plate



25-DDRA-206 25-DDRA-207 25-DDRA-208 25-DDRA-106 25-DDRA-107 25-DDRA-108

Code	Holes	Length	Thickness	Color	Set Quantity
25-DDRA-004	4	51.0 mm	2.2 mm	Light blue	Optional
25-DDRA-005	5	57.5 mm	2.2 mm	Light blue	Optional
25-DDRA-006	6	64.0 mm	2.2 mm	Light blue	Optional
25-DDRA-106	6	45.0 mm	2.2 mm	Light blue	Optional
25-DDRA-107	7	51.0 mm	2.2 mm	Light blue	Optional
25-DDRA-108	8	57.0 mm	2.2 mm	Light blue	Optional
25-DDRA-206	6	45.0 mm	2.2 mm	Light green	Optional
25-DDRA-207	7	51.0 mm	2.2 mm	Light green	Optional
25-DDRA-208	8	57.0 mm	2.2 mm	Light green	Optional

Set Configuration Suggestion

Distal Dorsal Radius Plates				Ø 2.5 mm Locking Screws			
No	Code	Description	Q'ty	No	Code	Description	Q'ty
1	25-DDRA-004	Radial Column Plate, Length 51.0 mm	Optional	1	25L-SO-008-TA	Locking Screw, Length 8 mm	10
2	25-DDRA-005	Radial Column Plate, Length 57.5 mm	Optional	2	25L-SO-010-TA	Locking Screw, Length 10 mm	10
3	25-DDRA-006	Radial Column Plate, Length 64.0 mm	Optional	3	25L-SO-012-TA	Locking Screw, Length 12 mm	15
4	25-DDRA-106	Intermediate Column Plate, Right, Length 45.0 mm	Optional	4	25L-SO-014-TA	Locking Screw, Length 14 mm	15
5	25-DDRA-107	Intermediate Column Plate, Right, Length 51.0 mm	Optional	5	25L-SO-016-TA	Locking Screw, Length 16 mm	15
6	25-DDRA-108	Intermediate Column Plate, Right, Length 57.0 mm	Optional	6	25L-SO-018-TA	Locking Screw, Length 18 mm	15
7	25-DDRA-206	Intermediate Column Plate, Left, Length 45.0 mm	Optional	7	25L-SO-020-TA	Locking Screw, Length 20 mm	10
8	25-DDRA-207	Intermediate Column Plate, Left, Length 51.0 mm	Optional	8	25L-SO-022-TA	Locking Screw, Length 22 mm	5
9	25-DDRA-208	Intermediate Column Plate, Left, Length 57.0 mm	Optional	9	25L-SO-024-TA	Locking Screw, Length 24 mm	5
				10	25L-SO-026-TA	Locking Screw, Length 26 mm	5
Distal Volar Radius Plates				Ø 2.5 mm Non-Locking Screws			
No	Code	Description	Q'ty	No	Code	Description	Q'ty
1	25-DVRA-109-R	Medium, Right, Length 46.7 mm	3	1	25-SO-008-TA	Non-Locking Screw, Length 8 mm	5
2	25-DVRA-109-L	Medium, Left, Length 46.7 mm	3	2	25-SO-010-TA	Non-Locking Screw, Length 10 mm	5
3	25-DVRA-110-R	Medium, Right, Length 52.7 mm	2	3	25-SO-012-TA	Non-Locking Screw, Length 12 mm	10
4	25-DVRA-110-L	Medium, Left, Length 52.7 mm	2	4	25-SO-014-TA	Non-Locking Screw, Length 14 mm	15
5	25-DVRA-111-R	Medium, Right, Length 73.7 mm	1	5	25-SO-016-TA	Non-Locking Screw, Length 16 mm	15
6	25-DVRA-111-L	Medium, Left, Length 73.7 mm	1	6	25-SO-018-TA	Non-Locking Screw, Length 18 mm	15
7	25-DVRA-209-R	Large, Right, Length 46.7 mm	3	7	25-SO-020-TA	Non-Locking Screw, Length 20 mm	10
8	25-DVRA-209-L	Large, Left, Length 46.7 mm	3	8	25-SO-022-TA	Non-Locking Screw, Length 22 mm	10
9	25-DVRA-210-R	Large, Right, Length 52.7 mm	2	9	25-SO-024-TA	Non-Locking Screw, Length 24 mm	5
10	25-DVRA-210-L	Large, Left, Length 52.7 mm	2	10	25-SO-026-TA	Non-Locking Screw, Length 26 mm	5
11	25-DVRA-211-R	Large, Right, Length 73.7 mm	1				
12	25-DVRA-211-L	Large, Left, Length 73.7 mm	1				
13	25-DVRA-309-R	Extra-Large, Right, Length 46.7 mm	3				
14	25-DVRA-309-L	Extra-Large, Left, Length 46.7 mm	3				
15	25-DVRA-310-R	Extra-Large, Right, Length 52.7 mm	2				
16	25-DVRA-310-L	Extra-Large, Left, Length 52.7 mm	2				
17	25-DVRA-311-R	Extra-Large, Right, Length 73.7 mm	1				
18	25-DVRA-311-L	Extra-Large, Left, Length 73.7 mm	1				
Instruments				Instruments			
No	Code	Description	Q'ty	No	Code	Description	Q'ty
1	113-HF-613	Screwdriver Shaft for STARIX T8	2	11	111-083-L	Drill Guide Block, Large, Left	1
2	112-25-701	Drill Bit for Ø 2.5 mm Screws	2	12	111-095-L	Drill Guide Block, EX-Large, Right	1
3	111-068-2	Guide Pin Ø 1.1 mm	10	13	111-095-R	Drill Guide Block, EX-Large, Left	1
4	111-080	Drill Guide for Ø 2.5 mm Screws, Fixed & Variable Angle	1	14	114-009	Forceps	1
5	111-101	Drill Sleeve for Ø 2.5 mm Screws, Fixed Angle	1	15	111-092	Screwdriver Handle	2
6	111-103	Drill Sleeve for Ø 2.5 mm Screws, Variable Angle	1	16	111-096	Dispenser	1
7	111-157	Drill Sleeve Handle	1	17	111-075	Depth Gauge	1
8	111-082-R	Drill Guide Block, Medium, Right	1	18	26.0240.17	Plate Bender	2
9	111-082-L	Drill Guide Block, Medium, Left	1	19	112-084	ARIX Wrist System Radius Full Container	1
10	111-083-R	Drill Guide Block, Large, Right	1				

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