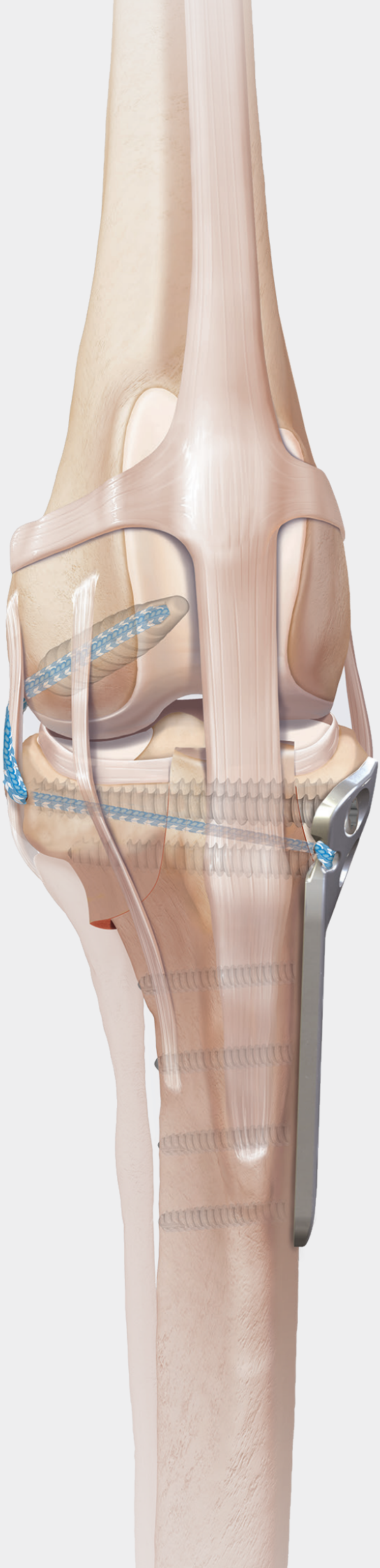
TPLO and OrthoLine™ Plating System

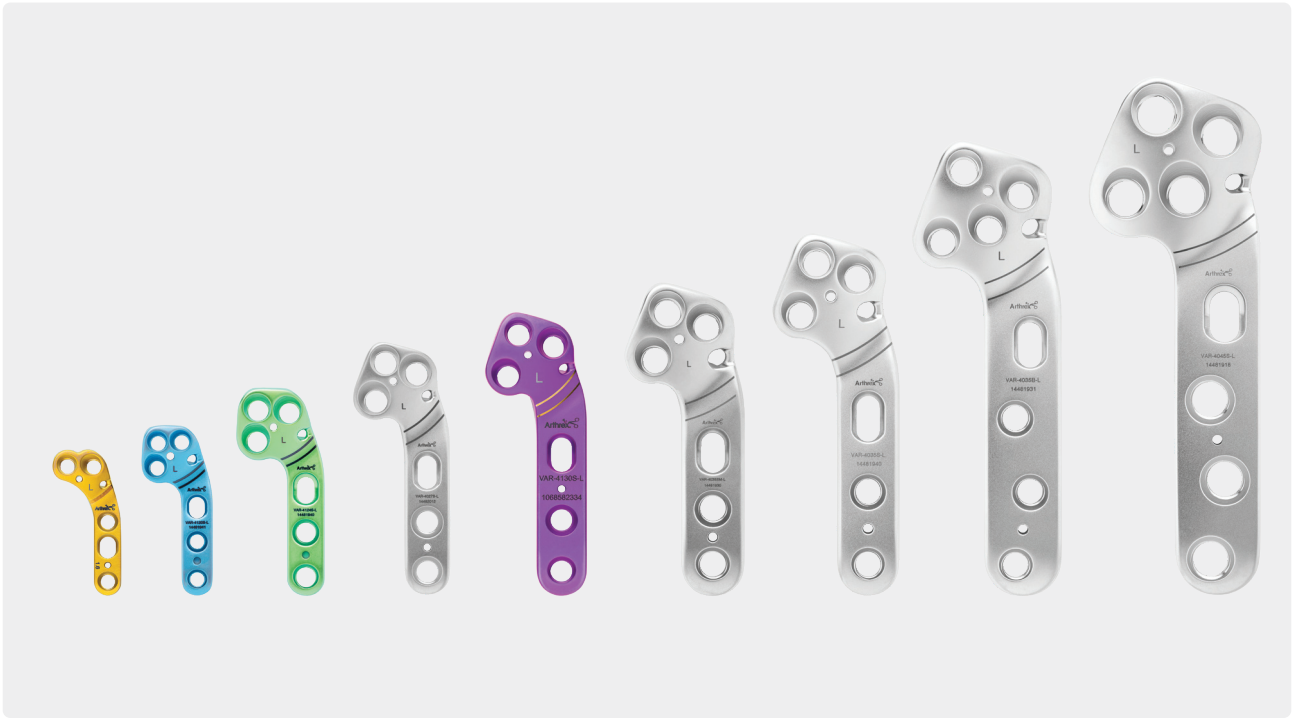
Leading Innovation in Animal Health

Arthrex® Vet Systems



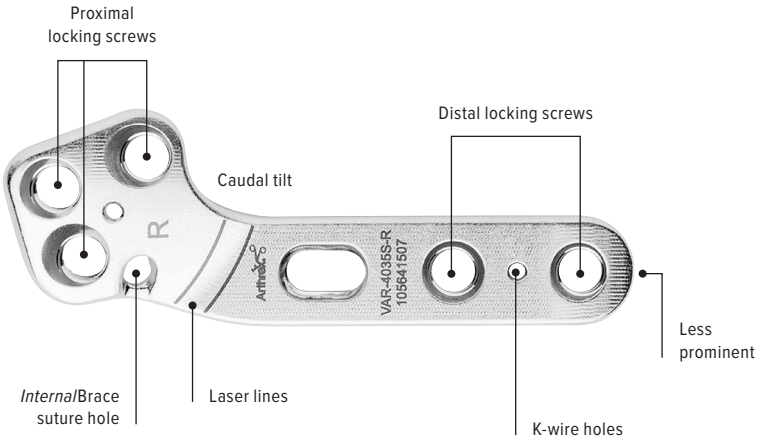
TPLO and MPL Locking System

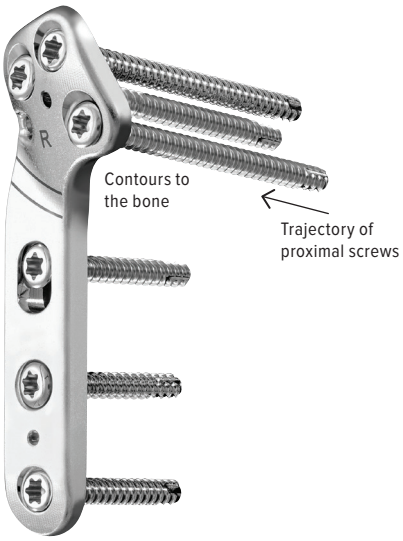
TPLO Locking Plates



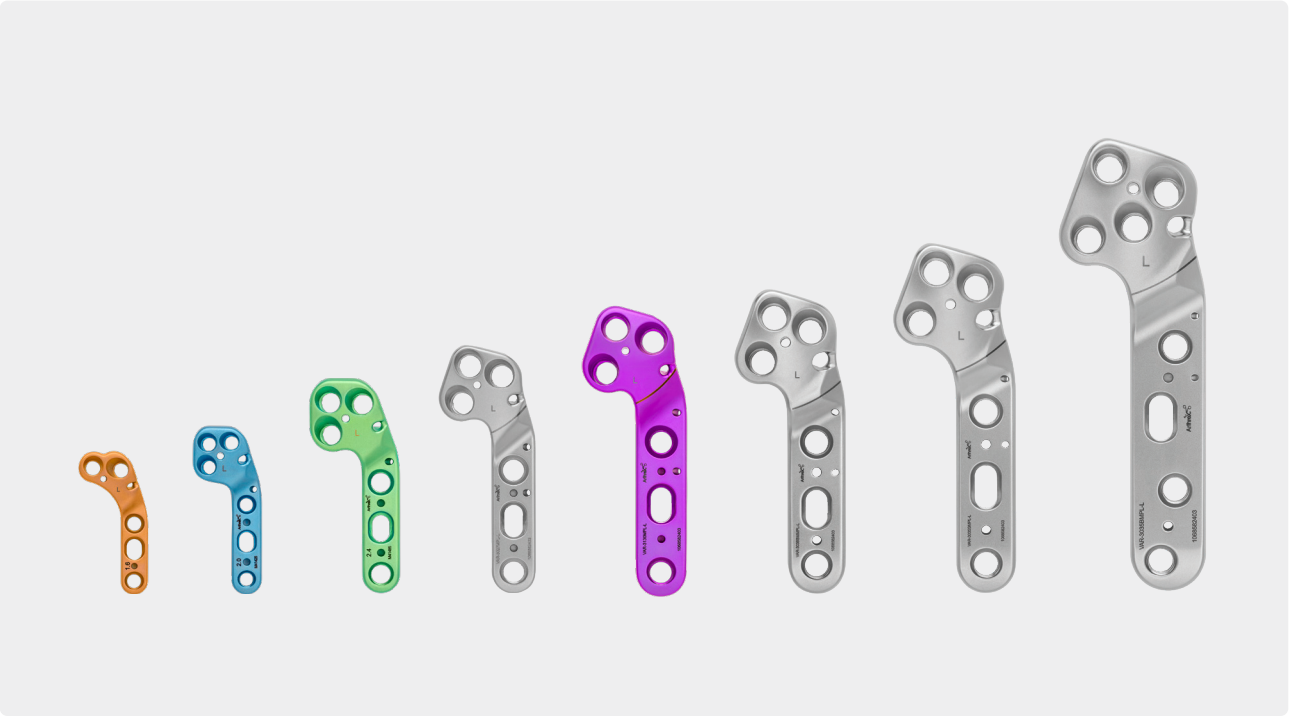
- High-quality medical-grade material, quality assurance, and craftsmanship
- Proximal and distal locking screws
- Anatomically shaped locking TPLO plate
- Shape, contour, and additional features specifically designed to facilitate optimal plate placement
- Allows for optional anti-rotational stabilization with *Interna*lBrace™ ligament augmentation suture hole
- Multicenter safety and efficacy clinical study

Anatomic Design





MPL Locking Plates



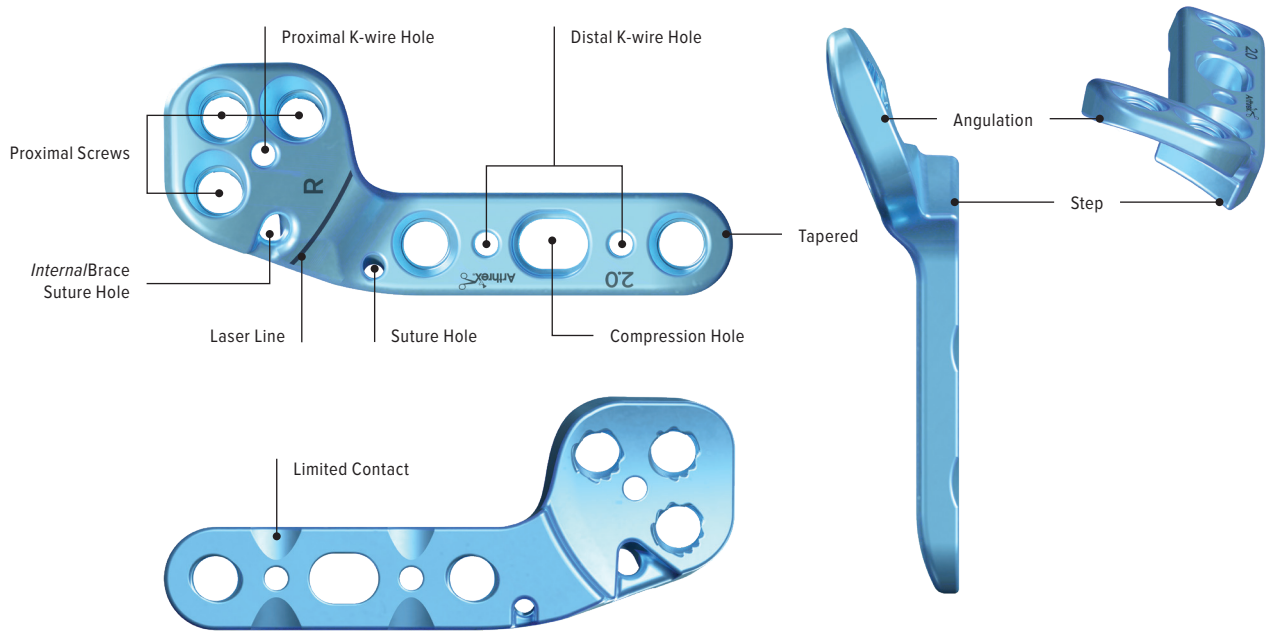
The OrthoLine™ MPL plate system mimics the anatomically designed tibial plateau leveling osteotomy plates, with additional designs and features specifically for medial patella luxation. The size range includes 1.6 mm, 2.0 mm, 2.4 mm, 2.7 mm, 3.0 mm, small 3.5 mm, standard 3.5 mm, and broad 3.5 mm. The design includes a step to offset the fragment from the long bone of the tibia, with the intention of creating medial tibial plateau translation. The smaller sizes, 3.0 mm and below, include a torsional angle. By combining rotation with translation we increase bone contact, needing less translation to achieve the transportation your patient requires. Slight rotation and translation allow for 2-3 mm of tibial tuberosity transportation.

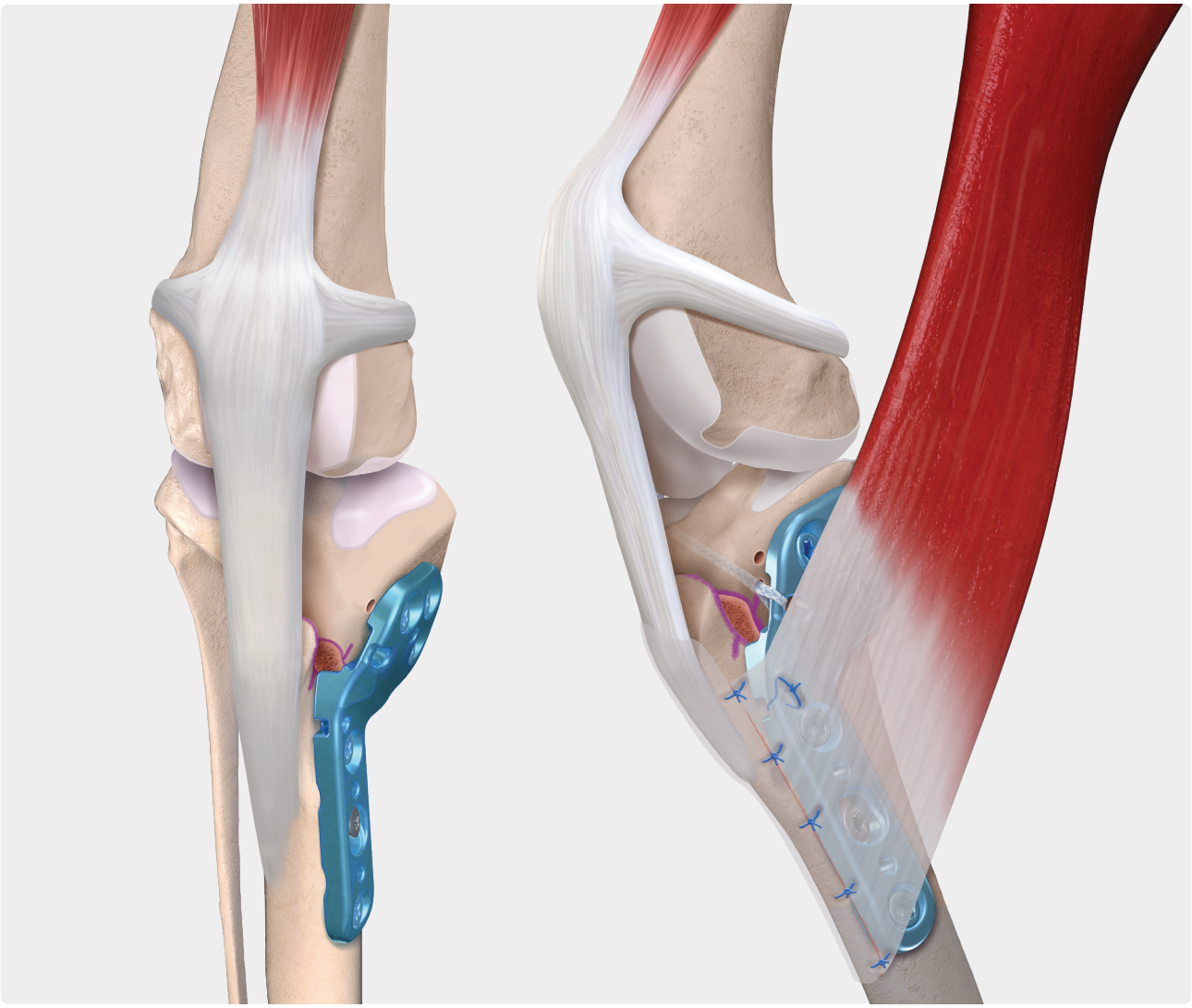
The plates continue to support *Internal*Brace™ ligament augmentation with the use of the proximal suture hole. Distal suture holes on the cranial aspect of the plate aid in soft-tissue closure. The design includes multiple K-wire holes on the distal aspect. The laser line represents the location of the step and aids in proper positioning. The design features lmited contact on the distal aspect and a locking screw distal to the osteotomy, protecting the osteotomy site.

Features and Benefits

- Step to offset the fragment, including slight torsional rotation on smaller sizes
- Proximal screw trajectories avoid the joint
- Distal suture hole to aid in soft-tissue closure
- Scalloped underside to distribute stress and minimize contact
- Proximal suture hole to support rotational stability
- Multiple K-wire holes allow surgeons to choose what is best for the patient
- Distal locking hole to protext the osteotomy site
- Laser line represents the location of the step
- Anatomic plate design with left and right options

Anatomic Design





TPLO Locking Plates

1.6 mm TPLO Locking Plates	
TPLO locking plate, 1.6 mm, standard, left	VAR-4116S-L
TPLO locking plate, 1.6 mm, standard, right	VAR-4116S-R
2.0 mm TPLO Locking Plates	
TPLO locking plate, 2.0 mm, standard, left	VAR-4120S-L
TPLO locking plate, 2.0 mm, standard, right	VAR-4120S-R
2.4 mm TPLO Locking Plates	
TPLO locking plate, 2.4 mm, standard, left	VAR-4124S-L
TPLO locking plate, 2.4 mm, standard, right	VAR-4124S-R
2.7 mm TPLO Locking Plates	
TPLO locking plate, 2.7 mm, standard, left	VAR-4027S-L
TPLO locking plate, 2.7 mm, standard, right	VAR-4027S-R
3.0 mm TPLO Locking Plates	
TPLO locking plate, 3.0 mm, standard, left	VAR-4130S-L
TPLO locking plate, 3.0 mm, standard, right	VAR-4130S-R
3.5 mm TPLO Locking Plates	
TPLO locking plate, 3.5 mm, small, left	VAR-4035SM-L
TPLO locking plate, 3.5 mm, small, right	VAR-4035SM-R
TPLO locking plate, 3.5 mm, standard, left	VAR-4035S-L
TPLO locking plate, 3.5 mm, standard, right	VAR-4035S-R
TPLO locking plate, 3.5 mm, broad, left	VAR-4035B-L
TPLO locking plate, 3.5 mm, broad, right	VAR-4035B-R
4.5 mm TPLO Locking Plates	
TPLO locking plate, 4.5 mm, standard, left	VAR-4045S-L
TPLO locking plate, 4.5 mm, standard, right	VAR-4045S-R

MPL Locking Plates

1.6 mm Plates	
MPL Plate, titanium, left, 1.6 mm	VAR-3116MPL-L
MPL Plate, titanium, right, 1.6 mm	VAR-3116MPL-R
2.0 mm Plates	
MPL Plate, titanium, left, 2.0 mm	VAR-3120MPL-L
MPL Plate, titanium, right, 2.0 mm	VAR-3120MPL-R
2.4 mm Plates	
MPL Plate, titanium, left, 2.4 mm	VAR-3124MPL-L
MPL Plate, titanium, right, 2.4 mm	VAR-3124MPL-R
2.7 mm Plates	
MPL Plate, stainless steel, left, 2.7 mm	VAR-3027MPL-L
MPL Plate, stainless steel, right, 2.7 mm	VAR-3027MPL-R
3.0 mm Plates	
MPL Plate, titanium, left, 3.0 mm	VAR-3130MPL-L
MPL Plate, titanium, right, 3.0 mm	VAR-3130MPL-R
3.5 mm Plates	
MPL Plate, stainless steel, small, left, 3.5 mm	VAR-3035SMMPL-L
MPL Plate, stainless steel, small, right, 3.5 mm	VAR-3035SMMPL-R
MPL Plate, stainless steel, standard, left, 3.5 mm	VAR-3035SMPL-L
MPL Plate, stainless steel, standard, right, 3.5 mm	VAR-3035SMPL-R
MPL Plate, stainless steel, broad, left, 3.5 mm	VAR-3035BMPL-L
MPL Plate, stainless steel, broad, right, 3.5 mm	VAR-3035BMPL-R

Screws

1.6 mm Low-Profile Cortical, Variable Angle, Titanium	
Low-profile cortical screw 1.6 mm × 5-24 mm Sizes: 5*, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22*, 24* mm	VAR-8916-05 to -24
Low-profile variable-angle screw 1.6 mm × 5-24 mm Sizes: 5*, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22*, 24* mm	VAR-8916V-05 to -24
2.0 mm Low-Profile Cortical, Locking, Variable Angle, Titanium	
Low-profile cortical screw 2.0 mm × 6-40 mm Sizes: 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32*, 34*, 36*, 38*, 40* mm	VAR-8920-06 to -40
Low-profile locking screw 2.0 mm × 6-40 mm Sizes: 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32*, 34*, 36*, 38*, 40* mm	VAR-8920L-06 to -40
Low-profile variable-angle screw 2.0 mm × 6-40 mm Sizes: 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32*, 34*, 36*, 38*, 40* mm	VAR-8920V-06 to -40
2.4 mm Low-Profile Cortical, Locking, Variable Angle, Titanium	
Low-profile cortical screw 2.4 mm × 6-40 mm Sizes: 6*, 7*, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32*, 34*, 36*, 38*, 40* mm	VAR-8924-06 to -40
Low-profile locking screw 2.4 mm × 6-40 mm Sizes: 6*, 7*, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32*, 34*, 36*, 38*, 40* mm	VAR-8924L-06 to -40
Low-profile variable-angle screw 2.4 mm × 6-40 mm Sizes: 6*, 7*, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32*, 34*, 36*, 38*, 40* mm	VAR-8924V-06 to -40
2.7 mm Low-Profile Cortical, Locking, Stainless Steel	
Low-profile cortical screw 2.7 mm × 10-34 mm Sizes: 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34 mm	VAR-8827-10 to -34
Low-profile locking screw 2.7 mm × 10-34 mm Sizes: 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34 mm	VAR-8827L-10 to -34

*These sizes are not included in the screw caddy.

Screws (cont.)

3.0 mm Low-Profile Cortical, Locking, Variable Angle, Titanium	
Low-profile cortical screw 3.0 mm × 8-55 mm Sizes: 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42*, 44*, 46*, 48*, 50*, 55* mm	VAR-8930-08 to -55
Low-profile locking screw 3.0 mm × 8-55 mm Sizes: 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42*, 44*, 46*, 48*, 50*, 55* mm	VAR-8930L-08 to -55
Low-profile variable-angle screw 3.0 mm × 8-55 mm Sizes: 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42*, 44*, 46*, 48*, 50*, 55* mm	VAR-8930V-08 to -55
3.5 mm Low-Profile Cortical, Locking, Stainless Steel	
Low-profile cortical screw 3.5 mm × 16-60 mm Sizes: 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60 mm	VAR-8835-16 to -60
Low-profile locking screw 3.5 mm × 16-60 mm Sizes: 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60 mm	VAR-8835L-16 to -60
4.0 mm Low-Profile, Locking, Stainless Steel	
Low-profile locking screw 4.0 mm × 18-60 mm Sizes: 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60 mm	VAR-8840L-18 to -60

*These sizes are not included in the screw caddy.

Instruments

Common Instruments for 1.6 mm/2.0 mm/2.4 mm TPLO Plates	
TPLO tissue protector, mini	VAR-4000TPM
TPLO caliper	VAR-4000-CAL
Depth measuring device (1.6 mm/2.0 mm/2.4 mm)	VAR-2024DD
Screw holding forceps	VAR-8941F
Mini mallet, 7 in	VAR-8826M
Low-profile Hohmann retractor	VAR-13210
Wire cutter, 1.57 mm (0.062 in)	VAR-8956-10
Drill guide, 1.1 mm	VAR-4016TDG
Drill/depth guide, locking, 1.6 mm	VAR-4016DG
T6 driver (1.6 mm/2.0 mm)	VAR-4020-01
T6 screwdriver	VAR-4020-02
Locking plate holder, 2.0 mm	VAR-4020-03
Instruments for 2.0 mm TPLO Plates	
Tap/nonlocking drill guide, 2.0 mm	VAR-4020TDG
Locking drill guide, 2.0 mm	VAR-4020DG
Bone tap, 2.0 mm	VAR-4020T
T6 driver, AO	VAR-4020-01
T6 screwdriver	VAR-4020-02
Locking plate holder, 2.0 mm	VAR-4020-03
Instruments for 2.4 mm TPLO Plates	
Tap/nonlocking drill guide, 2.4 mm	VAR-4024TDG
Locking drill guide, 2.4 mm	VAR-4024DG
Bone tap, 2.4 mm	VAR-4024T
T8 driver, AO	VAR-4024-01
T8 screwdriver	VAR-4024-02
Locking plate holder, 2.4 mm	VAR-4024-03
Instruments for 2.7 mm TPLO Plates	
TPLO tissue protector, small	VAR-4000TPSM
TPLO caliper	VAR-4000-CAL
Nonlocking drill guide, 3.0 mm/2.0 mm	VAR-8943-31
Locking drill guide	VAR-8950-07
Depth device, low profile, 2.7 mm/3.5 mm	VAR-8943-15
T10 driver, AO	VAR-8944DH
T10 screwdriver	VAR-8943-08
Screw holding forceps	VAR-8941F
Locking plate holder, 2.7 mm	VAR-8950-09
Mini mallet, 7 in	VAR-8826M
Low-profile Hohmann retractor	VAR-13210
Wire cutter, 1.57 mm (0.062 in)	VAR-8956-10

All instruments are used for both TPLO and MPL plates.

Instruments (cont.)

Instruments for 3.0 mm TPLO Plates	
TPLO tissue protector, small	VAR-4000TPSM
TPLO caliper	VAR-4000-CAL
Depth device, low profile, 2.7 mm/3.5 mm	VAR-8943-15
T10 screwdriver (2.7 mm/3.0 mm)	VAR-8944DH
Screwdriver, T10 hexalobe	VAR-8943-08
Locking plate holder, 2.7 mm/3.0 mm	VAR-8950-09
Drill/depth guide, locking, 3.0 mm	VAR-4030DG
Drill guide, variable, 3.0 mm	VAR-4030VDG
Tap/drill guide, 3.0 mm/2.3 mm (3.0 mm)	VAR-4030TDG
Bone tap, 3.0 mm	VAR-4030T
Mini mallet, 7 in	VAR-8826M
Low-profile Hohmann retractor	VAR-13210
Instruments for 3.5 mm TPLO Plates	
TPLO tissue protector, small	VAR-4000TPSM
TPLO tissue protector, standard	VAR-4000TPS
TPLO caliper	VAR-4000-CAL
Nonlocking drill guide, 2.5 mm/3.5 mm	VAR-8943-14
Locking drill guide, 3.5 mm	VAR-4035DG
Locking drill guide, 3.5 mm, cortical screw	VAR-8943-43
Depth device, low profile, 2.7 mm/3.5 mm	VAR-8943-15
T15 driver, AO	VAR-8941DH
T15 screwdriver	VAR-8943-10
Screw holding forceps	VAR-8941F
Locking plate holder, 3.5 mm	VAR-8954-07
Mini mallet, 7 in	VAR-8826M
Low-profile Hohmann retractor	VAR-13210
Wire cutter, 1.57 mm (0.062 in)	VAR-8956-10
Instruments for 4.0 mm Screws With 3.5 mm TPLO Plates	
Drill/depth guide, locking, 4.0 mm	VAR-4040DG
Instruments for 4.5 mm TPLO Plates	
TPLO tissue protector, standard	VAR-4000TPS
TPLO caliper	VAR-4000-CAL
Nonlocking drill guide, 3.0 mm/4.5 mm	VAR-8970-02
Locking drill guide, 4.5 mm	VAR-4045DG
Locking drill guide, 4.5 mm, cortical screw	VAR-8970-01
Depth device, 4.5 mm	VAR-8970-07
T20 driver, AO	VAR-8970-03
T20 screwdriver	VAR-8970-04
Screw holding forceps	VAR-8941F
Locking plate holder, 4.5 mm	VAR-4045-01
Mini mallet, 7 in	VAR-8826M
Low-profile Hohmann retractor	VAR-13210
Wire cutter, 1.57 mm (0.062 in)	VAR-8956-10

All instruments are used for both TPLO and MPL plates.

Disposables and Limited Reusables

Disposables and Limited Reusables for 1.6 mm/2.0 mm/2.4 mm TPLO Plates	
K-wire, 1.14 mm (0.045 in) × 150 mm (5.9 in)	VAR-8933K
K-wire, 1.57 mm (0.062 in)	VAR-8941K
Drill bit, solid, AO, 1.1 mm (1.6 mm)	VAR-4016D
Drill bit, solid, short, AO, 1.1 mm (1.6 mm)	VAR-4016SD
Drill bit, 1.5 mm	VAR-4020D
Drill bit, solid, short, AO, 1.5 mm (2.0 mm)	VAR-4024D
Drill bit, 1.8 mm	VAR-4020SD
Drill bit, solid, short, AO, 1.8 mm (2.4 mm)	VAR-4024SD
Osteotome, 2.0 mm	VAR-13203-02
Osteotome, 4.0 mm	VAR-13203-04
Disposables and Limited Reusables for 2.7 mm TPLO Plates	
K-wire, 1.14 mm (0.045 in) × 150 mm (5.9 in)	VAR-8933K
K-wire, 1.57 mm (0.062 in)	VAR-8941K
K-wire, 2.3 mm (0.092 in)	VAR-8967K
Drill bit, 2.0 mm	VAR-8944-22
Osteotome, 5.0 mm	VAR-13203-05
Disposables and Limited Reusables for 3.0 mm TPLO Plates	
K-wire, 2.3 mm (0.092 in)	VAR-8967K
Drill bit, solid, AO, 2.3 mm	VAR-4030D
Drill bit, solid, short, AO, 2.3 mm	VAR-4030SD
Guidewire w/ trocar tip, 1.3 mm × 150 mm (3.5 mm)	VAR-8937K
Guidewire w/ trocar, 1.1 mm	VAR-8933K
Small osteotome, 5.0 mm	VAR-13203-05
Disposables and Limited Reusables for 3.5 mm TPLO Plates	
K-wire, 1.14 mm (0.045 in) × 150 mm (5.9 in)	VAR-8933K
K-wire, 1.57 mm (0.062 in)	VAR-8941K
K-wire, 2.3 mm (0.092 in)	VAR-8967K
Guide pin, 3.0 mm (0.118 in)	VAR-13303-3.0
Drill bit, 2.8 mm, long	VAR-4035D
Drill bit, 2.5 mm, short	VAR-8943-30
Drill bit, 2.5 mm, long	VAR-8943-42
Osteotome, 5.0 mm	VAR-13203-05
Disposables and Limited Reusables for 4.0 mm Screws With 3.5 mm TPLO Plates	
Drill bit, solid, AO, 3.5 mm	VAR-4040D
Disposables and Limited Reusables for 4.5 mm TPLO Plates	
K-wire, 1.57 mm (0.062 in)	VAR-8941K
K-wire, 2.3 mm (0.092 in)	VAR-8967K
Guide pin, 3.0 mm (0.118 in)	VAR-13303-3.0
Drill bit, 3.8 mm	VAR-4045D
Drill bit, 3.0 mm	VAR-8970-30
Osteotome, 5.0 mm	VAR-13203-05

All disposables and limited reusables are used for TPLO and MPL plates.

TPLO Sets and Cases

Developed with surgeons and staff in mind, the Arthrex TPLO set includes the standard required instruments along with several new instruments specifically designed to help create a more reproducible TPLO procedure.

The case can hold TPLO plates, a drop-in screw caddy with a measuring guide, and instruments, making this tray ideal for housing equipment and implants together, if desired. Customize your ideal TPLO pack using the bottom pin mat, which provides space for other instruments. The case size is factored in for the most common autoclave.

Sets/Cases for 2.0 mm/2.4 mm TPLO Plates	
TPLO set w/ instruments, 2.0 mm/2.4 mm **(a)**	VAR-402024S
TPLO case w/ screw caddies, 2.0 mm/2.4 mm	VAR-402024C
TPLO screw caddy, 2.0 mm	VAR-4020SC-01
TPLO screw caddy, 2.4 mm	VAR-4024SC-01
Sets/Cases for 2.7 mm TPLO Plates	
TPLO set w/ instruments, 2.7 mm **(b)**	VAR-4027S
TPLO case w/ screw caddy, 2.7 mm	VAR-4027C
TPLO screw caddy, 2.7 mm	VAR-4027SC-01
Sets/Cases for 3.0 mm TPLO Plates	
TPLO set w/ instruments, 3.0 mm **(c)**	VAR-4030S
TPLO case w/ screw caddy, 3.0 mm	VAR-4030C
TPLO screw caddy, 3.0 mm	VAR-3030SC-01
Sets/Cases for 3.5 mm TPLO Plates	
TPLO set w/ instruments, 3.5 mm **(d)**	VAR-4035S
TPLO case w/ screw caddy, 3.5 mm	VAR-4035C
TPLO screw caddy, 3.5 mm	VAR-4035SC-01
Sets/Cases for 4.5 mm TPLO Plates	
TPLO set w/ instruments, 4.5 mm **(e)**	VAR-4045S
TPLO case w/ screw caddy, 4.5 mm	VAR-4045C
TPLO screw caddy, 4.5 mm	VAR-4045SC-01

Reference Charts

TPLO Weight Chart

TPLO Plate System – Weight Reference Chart

	1-4 kg	3-7 kg	8-12 kg	13-17 kg	15-20 kg	18-25 kg	26-39 kg	40-55 kg	56+ kg	
*Internal*Brace™ Anchors	TPLO Plate Sizes									*Internal*Brace Sutures
2.5 mm PushLock® anchor	1.6 mm									#2 FiberWire® suture SutureTape suture, 1.3 mm
2.4 mm/2.5 mm PushLock anchor		2.0 mm								SutureTape suture, 1.3 mm
2.5 mm/2.9 mm PushLock anchor			2.4 mm							SutureTape suture, 1.3 mm
3.5 mm SwiveLock® anchor				2.7 mm						LabralTape™ suture, 1.5 mm FiberTape® suture, 2.0 mm
3.5 mm/4.75 mm SwiveLock anchor					3.0 mm					LabralTape suture, 1.5 mm FiberTape suture, 2.0 mm
3.5 mm/4.75 mm SwiveLock anchor						3.5 mm, small				LabralTape suture, 1.5 mm FiberTape suture, 2.0 mm
4.75 mm SwiveLock anchor							3.5 mm, standard			FiberTape suture, 2.0 mm
4.75 mm/5.5 mm SwiveLock anchor								3.5 mm, broad		FiberTape suture, 2.0 mm
5.5 mm SwiveLock anchor									4.5 mm	FiberTape suture, 2.0 mm

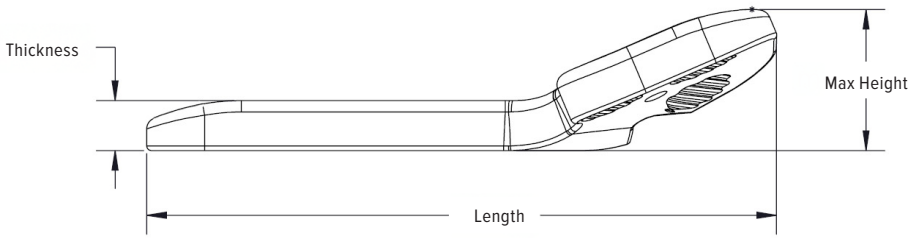
TPLO Rotation Guide – Correct TP to 3°

TPA	Desired Post-op Angle	Correction Angle	Saw Blade Radius (mm)									
			8	10	12	15	18	21	24	27	30	33
15	3°	12°	1.67	2.09	2.51	3.14	3.76	4.39	5.02	5.64	6.27	6.9
16	3°	13°	1.81	2.26	2.72	3.40	4.08	4.75	5.43	6.11	6.79	7.47
17	3°	14°	1.95	2.44	2.92	3.66	4.39	5.12	5.85	6.58	7.31	8.04
18	3°	15°	2.09	2.61	3.13	3.92	4.70	5.48	6.27	7.05	7.83	8.61
19	3°	16°	2.23	2.78	3.34	4.18	5.01	5.85	6.68	7.52	8.35	9.19
20	3°	17°	2.36	2.96	3.55	4.43	5.32	6.21	7.09	7.98	8.87	9.76
21	3°	18°	2.50	3.13	3.75	4.69	5.63	6.57	7.51	8.45	9.39	10.32
22	3°	19°	2.64	3.30	3.96	4.95	5.94	6.93	7.92	8.91	9.90	10.89
23	3°	20°	2.78	3.47	4.17	5.21	6.25	7.29	8.34	9.38	10.42	11.46
24	3°	21°	2.92	3.64	4.37	5.47	6.56	7.65	8.75	9.84	10.93	12.03
25	3°	22°	3.05	3.82	4.58	5.72	6.87	8.01	9.16	10.30	11.45	12.59
26	3°	23°	3.19	3.99	4.78	5.98	7.18	8.37	9.57	10.77	11.96	13.16
27	3°	24°	3.33	4.16	4.99	6.24	7.48	8.73	9.98	11.23	12.47	13.72
28	3°	25°	3.46	4.33	5.19	6.49	7.79	9.09	10.39	11.69	12.99	14.29
29	3°	26°	3.60	4.50	5.40	6.75	8.10	9.45	10.80	12.15	13.50	14.85
30	3°	27°	3.74	4.67	5.60	7.00	8.40	9.80	11.21	12.61	14.01	15.41
31	3°	28°	3.87	4.84	5.81	7.26	8.71	10.13	11.61	13.06	14.52	15.97
32	3°	29°	4.01	5.01	6.01	7.51	9.01	10.52	12.02	13.52	15.02	16.53
33	3°	30°	4.14	5.18	6.21	7.76	9.32	10.87	12.42	13.98	15.53	17.08
34	3°	31°	4.28	5.34	6.41	8.02	9.62	11.22	12.83	14.43	16.03	17.64
35	3°	32°	4.41	5.51	6.62	8.27	9.92	11.58	13.23	14.88	16.54	18.19
36	3°	33°	4.54	5.68	6.82	8.52	10.22	11.93	13.63	15.34	17.04	18.75
37	3°	34°	4.68	5.85	7.02	8.77	10.53	12.28	14.03	15.79	17.54	19.3
38	3°	35°	4.81	6.01	7.22	9.02	10.83	12.63	14.43	16.24	18.04	19.85
39	3°	36°	4.94	6.18	7.42	9.27	11.12	12.98	14.83	16.69	18.54	20.4
40	3°	37°	5.08	6.35	7.62	9.52	11.42	13.33	15.23	17.13	19.04	20.94
41	3°	38°	5.21	6.51	7.81	9.77	11.72	13.67	15.63	17.58	19.53	21.49
42	3°	39°	5.34	6.68	8.01	10.01	12.02	14.02	16.02	18.03	20.03	22.03

OrthoLine™ TPLO Plates Size Chart

	Product Image	Item Number	Length (mm)	Thickness (mm)	Max Height (mm)
TPLO Plate, Ti, 1.6 mm		VAR-4116S-L	24.6	1.9	6.1
		VAR-4116S-R			
TPLO Plate, Ti, 2.0 mm		VAR-4120S-L	29.0	2.3	6.1
		VAR-4120S-R			
TPLO Plate, Ti, 2.4 mm		VAR-4124S-L	35.4	2.7	7.8
		VAR-4124S-R			
TPLO Plate, SS, 2.7 mm		VAR-4027S-L	43.4	2.9	8.3
		VAR-4027S-R			
TPLO Plate, Ti, 3.0 mm		VAR-4030S-L	48.8	3.3	8.3
		VAR-4030S-R			

	Product Image	Item Number	Length (mm)	Thickness (mm)	Max Height (mm)
TPLO Plate, SS, Small, 3.5 mm		VAR-4035SM-L	53.5	3.7	9.7
		VAR-4035SM-R			
TPLO Plate, SS, Standard, 3.5 mm		VAR-4035S-L	62.4	3.7	10.7
		VAR-4035S-R			
TPLO Plate, SS, Broad, 3.5 mm		VAR-4035B-L	76.6	3.7	11.6
		VAR-4035B-R			
TPLO Plate, SS, 4.5 mm		VAR-4045S-L	89.2	3.7	12.2
		VAR-4045S-R			



MPL Weight Chart

1-4 kg	3-7 kg	8-12 kg	13-17 kg	15-20 kg	18-25 kg	26-39 kg	40-55 kg
1.6 mm	2.0 mm	2.4 mm	2.7 mm	3.0 mm	3.5 mm, small	3.5 mm, standard	3.5 mm, broad

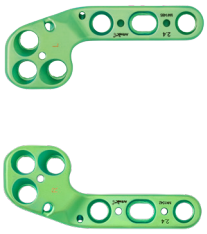
Plate Step and Angle Chart

Item Number	Description	Plate Size	Step	Torsional Angle	K-wire Sizes
VAR-3116MPL-L	MPL Plate, titanium, left	1.6 mm	1.4 mm	10°	0.86 mm
VAR-3116MPL-R	MPL Plate, titanium, right	1.6 mm	1.4 mm	10°	0.86 mm
VAR-3120MPL-L	MPL Plate, titanium, left	2.0 mm	2.0 mm	10°	1.14 mm
VAR-3120MPL-R	MPL Plate, titanium, right	2.0 mm	2.0 mm	10°	1.14 mm
VAR-3124MPL-L	MPL Plate, titanium, left	2.4 mm	2.4 mm	10°	1.14 mm
VAR-3124MPL-R	MPL Plate, titanium, right	2.4 mm	2.4 mm	10°	1.14 mm
VAR-3027MPL-L	MPL Plate, stainless steel, left	2.7 mm	2.7 mm	10°	1.14 mm
VAR-3027MPL-R	MPL Plate, stainless steel, right	2.7 mm	2.7 mm	10°	1.14 mm
VAR-3130MPL-L	MPL Plate, titanium, left	3.0 mm	3.0 mm	5°	1.14 mm
VAR-3130MPL-R	MPL Plate, titanium, right	3.0 mm	3.0 mm	5°	1.14 mm
VAR-3035SMPL-L (standard)	MPL Plate, stainless steel, left	3.5 mm	3.75 mm	0°	1.57 mm
VAR-3035SMPL-R (standard)	MPL Plate, stainless steel, right	3.5 mm	3.75 mm	0°	1.57 mm
VAR-3035SMMPL-L (small)	MPL Plate, stainless steel, left	3.5 mm	4.0 mm	0°	1.57 mm
VAR-3035SMMPL-R (small)	MPL Plate, stainless steel, right	3.5 mm	4.0 mm	0°	1.57 mm
VAR-3035BMPL-L (broad)	MPL Plate, stainless steel, left	3.5 mm	4.5 mm	0°	1.57 mm
VAR-3035BMPL-R (broad)	MPL Plate, stainless steel, right	3.5 mm	4.5 mm	0°	1.57 mm

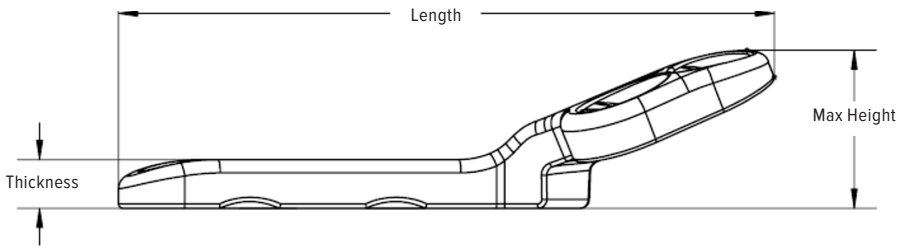
Suture Reference Chart: MPL Plates

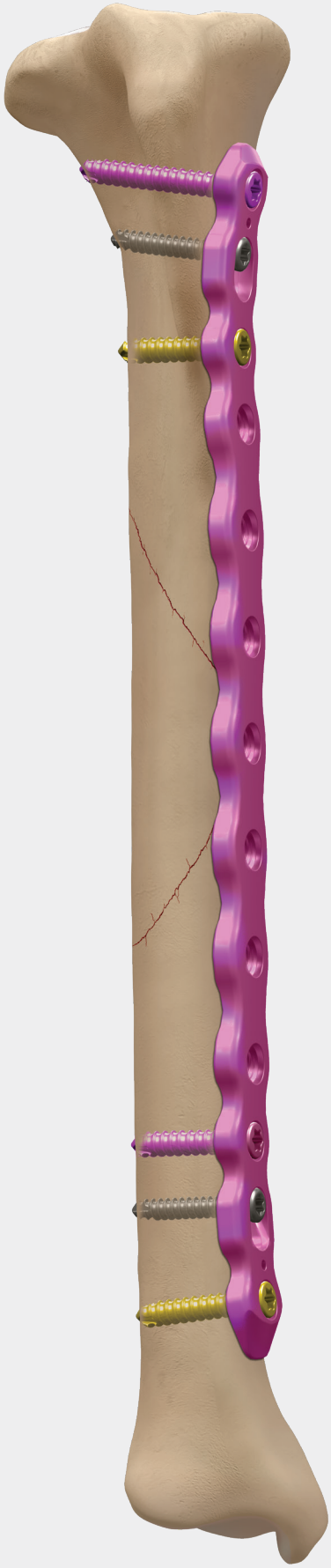
Product Image	Plate Size	VetSuture	Product Description
	1.6 mm	VAR-R316	Polydioxanone 3-0, SH, TP, ½ C
		VAR-R317	Polydioxanone 2-0, SH, TP, ½ C
	2.0 mm	VAR-J8665	Polypropylene 3-0, FS-2, Rev Ctg, 3⁄8 C
	2.4 mm	VAR-R334	Polydioxanone 0, CT-2, TP, ½ C
		VAR-R340	Polydioxanone 0, CT-1, TP, ½ C
	2.7 mm	VAR-R467	Polydioxanone 0, CP-1, Rev Ctg, ½ C
	3.0 mm		
	3.5 mm	VAR-R468	Polydioxanone 1, CP-1, Rev Ctg, ½ C
	3.5 mm		
	3.5 mm		

OrthoLine™ MPL Plates Size Chart

	Product Image	Item Number	Length (mm)	Thickness (mm)	Max Height (mm)
MPL Plate, Ti, 1.6 mm		VAR-3116MPL-L VAR-3116MPL-R	25.6	1.9	6.3
MPL Plate, Ti, 2.0 mm		VAR-3120MPL-L VAR-3120MPL-R	31.3	2.3	7.1
MPL Plate, Ti, 2.4 mm		VAR-3124MPL-L VAR-3124MPL-R	37.7	2.7	9.0
MPL Plate, SS, 2.7 mm		VAR-3027MPL-L VAR-3027MPL-R	43.9	2.9	9.6
MPL Plate, Ti, 3.0 mm		VAR-3130MPL-L VAR-3130MPL-R	48.8	3.3	10.3

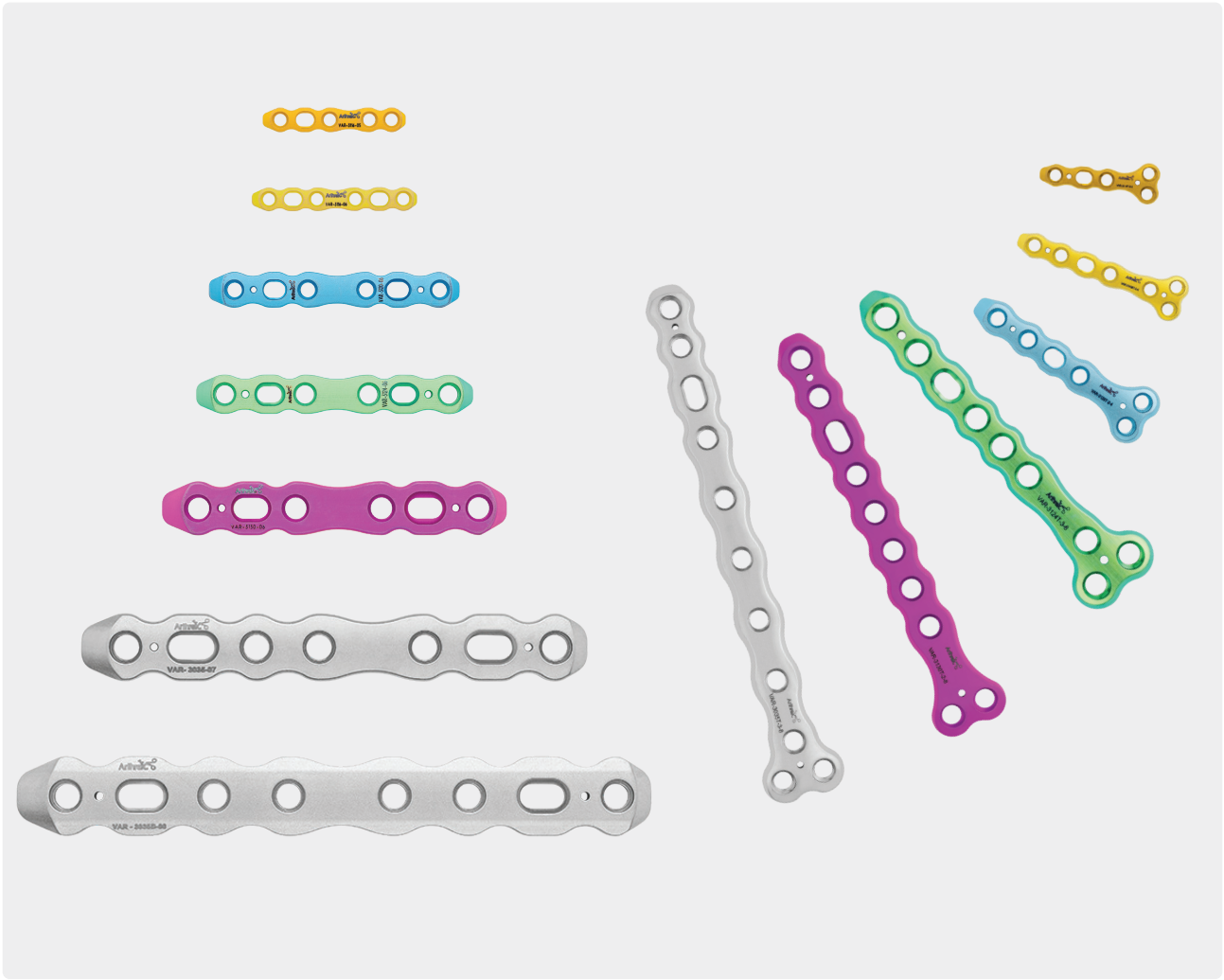
	Product Image	Item Number	Length (mm)	Thickness (mm)	Max Height (mm)
MPL Plate, SS, Small, 3.5 mm		VAR-3035SMMPL-L	56.1	3.7	13.4
		VAR-3035SMMPL-R			
MPL Plate, SS, Standard, 3.5 mm		VAR-3035SMPL-L	62.9	3.7	14.5
		VAR-3035SMPL-R			
MPL Plate, SS, Broad, 3.5 mm		VAR-3035BMPL-L	78.6	3.7	16.1
		VAR-3035BMPL-R			





OrthoLine™ Fracture Management System

Straight Plates and T-Plates



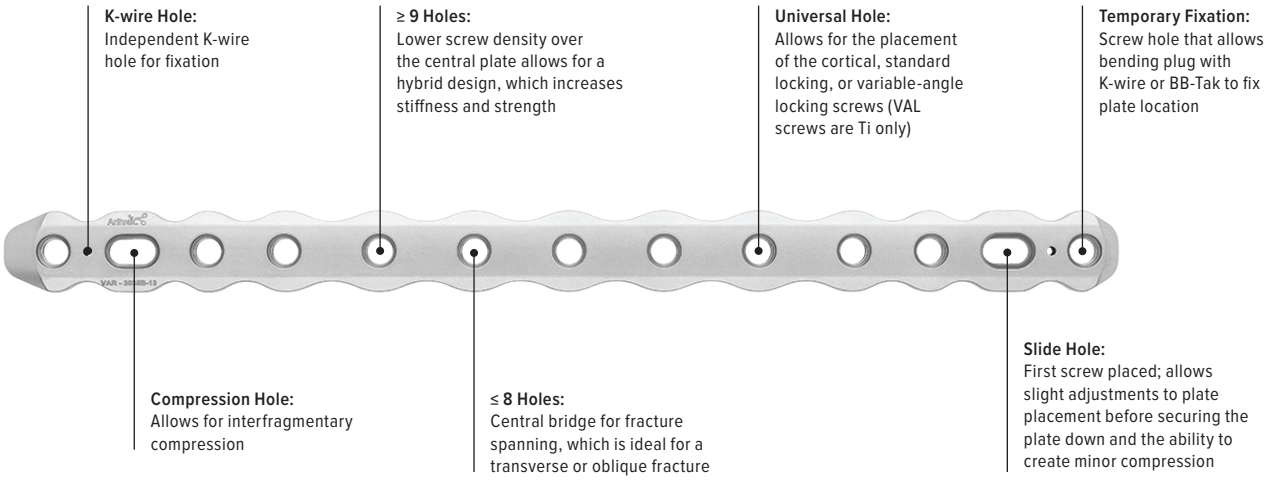
A considerable upgrade from a standard straight and T-plate design, the 70-piece Ortholine™ plating system product line enables fracture repair for a wide range of canine and feline patients. Unique screw hole spacing, oblong sliding, and compression slots allow for optimal plate positioning.

Development, research, and surgeon feedback converged to create an innovative plating system in a comprehensive range of sizes and lengths designed specifically for veterinary patients of all weight ranges. The Ortholine plating system is available in 1.6 mm, 2.0 mm, 2.4 mm, 3.0 mm, 3.5 mm, and broad 3.5 mm, in a variety of lengths, allowing fracture repair on the widest range of patient sizes.

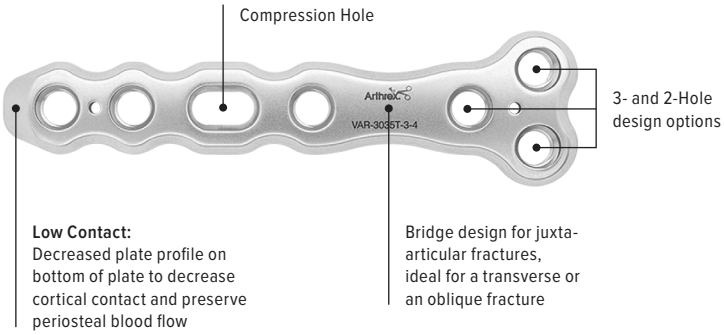
Features and Benefits

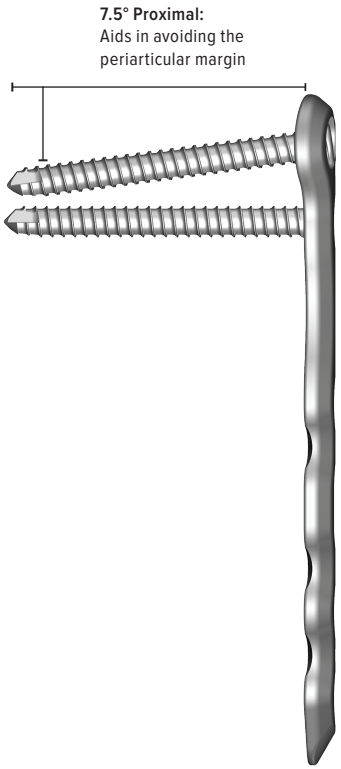
- High screw density where needed
- Slide and compression holes
- Strong plate for bridging
- Low plate contact and low-profile design
- Color-coded for easier identification
- K-wire holes
- Cortical/locking/variable-angle locking screws
- Indicated for sizes from small cats to large dogs

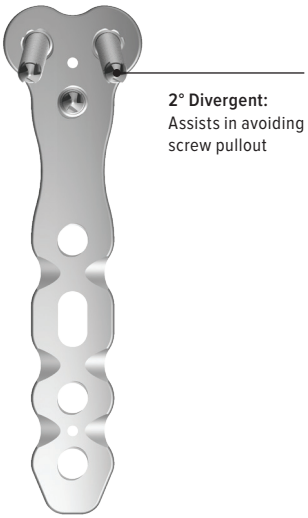
Anatomic Design: Straight Plate



Anatomic Design: T-Plate







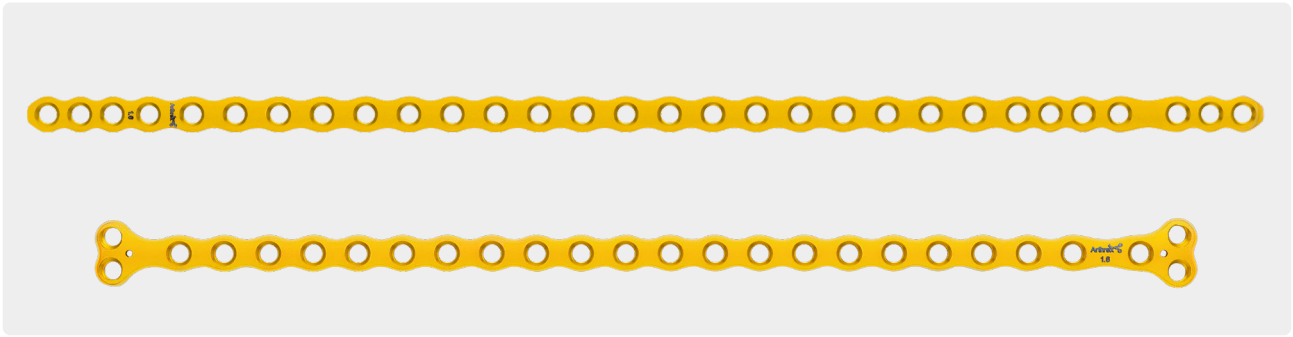
OrthoLine™ Straight Plates and T-Plates

1.6 mm OrthoLine Straight Plates (Bronze)	
Straight plate, 5-hole, 1.6 mm, titanium	VAR-3116-05
Straight plate, 6-hole, 1.6 mm, titanium	VAR-3116-06
Straight plate, 7-hole, 1.6 mm, titanium	VAR-3116-07
1.6 mm OrthoLine T-Plates (Bronze)	
T-plate broad, Ti, 1.6 mm, 2-hole/3-hole	VAR-3116T-2-3
1.6 mm OrthoLine Straight Broad Plates (Gold)	
Straight plate broad, 5-hole, 1.6 mm, titanium	VAR-3116B-05
Straight plate broad, 6-hole, 1.6 mm, titanium	VAR-3116B-06
Straight plate broad, 7-hole, 1.6 mm, titanium	VAR-3116B-07
Straight plate broad, 8-hole, 1.6 mm, titanium	VAR-3116B-08
Straight plate broad, 9-hole, 1.6 mm, titanium	VAR-3116B-09
Straight plate broad, 10-hole, 1.6 mm, titanium	VAR-3116B-10
1.6 mm OrthoLine T-Plates Broad (Gold)	
T-plate, 2-hole/3-hole, 1.6 mm, titanium	VAR-3116BT-2-3
T-plate broad, 3-hole/4-hole, 1.6 mm, titanium	VAR-3116BT-3-4
2.0 mm OrthoLine Straight Plates (Blue)	
Straight plate, 6-hole, 2.0 mm, titanium	VAR-3120-06
Straight plate, 7-hole, 2.0 mm, titanium	VAR-3120-07
Straight plate, 8-hole, 2.0 mm, titanium	VAR-3120-08
Straight plate, 9-hole, 2.0 mm, titanium	VAR-3120-09
Straight plate, 10-hole, 2.0 mm, titanium	VAR-3120-10
Straight plate, 11-hole, 2.0 mm, titanium	VAR-3120-11
Straight plate, 12-hole, 2.0 mm, titanium	VAR-3120-12
Straight plate, 13-hole, 2.0 mm, titanium	VAR-3120-13
Straight plate, 14-hole, 2.0 mm, titanium	VAR-3120-14
Straight plate, 15-hole, 2.0 mm, titanium	VAR-3120-15
2.0 mm OrthoLine T-Plates (Blue)	
T-plate, 2-hole/4-hole , 2.0 mm, titanium	VAR-3120T-2-4
T-plate, 3-hole/4-hole, 2.0 mm, titanium	VAR-3120T-3-4
T-plate, 2-hole/6-hole, 2.0 mm, titanium	VAR-3120T-2-6
T-plate, 3-hole/6-hole, 2.0 mm, titanium	VAR-3120T-3-6
2.4 mm OrthoLine Straight Plates (Green)	
Straight plate, 6-hole, 2.4 mm, titanium	VAR-3124-06
Straight plate, 7-hole, 2.4 mm, titanium	VAR-3124-07
Straight plate, 8-hole, 2.4 mm, titanium	VAR-3124-08
Straight plate, 9-hole, 2.4 mm, titanium	VAR-3124-09
Straight plate, 10-hole, 2.4 mm, titanium	VAR-3124-10
Straight plate, 11-hole, 2.4 mm, titanium	VAR-3124-11
Straight plate, 12-hole, 2.4 mm, titanium	VAR-3124-12
Straight plate, 13-hole, 2.4 mm, titanium	VAR-3124-13
Straight plate, 14-hole, 2.4 mm, titanium	VAR-3124-14
Straight plate, 15-hole, 2.4 mm, titanium	VAR-3124-15
2.4 mm OrthoLine T-Plates (Green)	
T-plate, 2-hole/4-hole, 2.4 mm, titanium	VAR-3124T-2-4
T-plate, 3-hole/4-hole, 2.4 mm, titanium	VAR-3124T-3-4
T-plate, 2-hole/6-hole, 2.4 mm, titanium	VAR-3124T-2-6
T-plate, 3-hole/4-hole, 2.4 mm, titanium	VAR-3124T-3-6

3.0 mm OrthoLine Straight Plates (Purple)	
Straight plate, 6-hole, 3.0 mm, titanium	VAR-3130-06
Straight plate, 7-hole, 3.0 mm, titanium	VAR-3130-07
Straight plate, 8-hole, 3.0 mm, titanium	VAR-3130-08
Straight plate, 9-hole, 3.0 mm, titanium	VAR-3130-09
Straight plate, 10-hole, 3.0 mm, titanium	VAR-3130-10
Straight plate, 11-hole, 3.0 mm, titanium	VAR-3130-11
Straight plate, 12-hole, 3.0 mm, titanium	VAR-3130-12
Straight plate, 13-hole, 3.0 mm, titanium	VAR-3130-13
Straight plate, 14-hole, 3.0 mm, titanium	VAR-3130-14
Straight plate, 15-hole, 3.0 mm, titanium	VAR-3130-15
Straight plate, 16-hole, 3.0 mm, titanium	VAR-3130-16
Straight plate, 17-hole, 3.0 mm, titanium	VAR-3130-17
Straight plate, 18-hole, 3.0 mm, titanium	VAR-3130-18
Straight plate, 19-hole, 3.0 mm, titanium	VAR-3130-19
Straight plate, 20-hole, 3.0 mm, titanium	VAR-3130-20
Straight plate, 21-hole, 3.0 mm, titanium	VAR-3130-21
Straight plate, 22-hole, 3.0 mm, titanium	VAR-3130-22
3.0 mm OrthoLine T-Plates (Purple)	
T-plate, 2-hole/4-hole, 3.0 mm, titanium	VAR-3130T-2-4
T-plate, 3-hole/4-hole, 3.0 mm, titanium	VAR-3130T-3-4
T-plate, 2-hole/6-hole, 3.0 mm, titanium	VAR-3130T-2-6
T-plate, 2-hole/8-hole, 3.0 mm, titanium	VAR-3130T-2-8
T-plate, 3-hole/6-hole, 3.0 mm, titanium	VAR-3130T-3-6
T-plate, 3-hole/8-hole, 3.0 mm, titanium	VAR-3130T-3-8
T-plate, 3-hole/13-hole, 3.0 mm, titanium	VAR-3130T-3-13
3.5 mm OrthoLine Straight Plates (Matte)	
Straight plate, 6-hole, 3.5 mm, stainless steel	VAR-3035-06
Straight plate, 7-hole, 3.5 mm, stainless steel	VAR-3035-07
Straight plate, 8-hole, 3.5 mm, stainless steel	VAR-3035-08
Straight plate, 9-hole, 3.5 mm, stainless steel	VAR-3035-09
Straight plate, 10-hole, 3.5 mm, stainless steel	VAR-3035-10
Straight plate, 11-hole, 3.5 mm, stainless steel	VAR-3035-11
Straight plate, 12-hole, 3.5 mm, stainless steel	VAR-3035-12
Straight plate, 13-hole, 3.5 mm, stainless steel	VAR-3035-13
Straight plate, 14-hole, 3.5 mm, stainless steel	VAR-3035-14
Straight plate, 15-hole, 3.5 mm, stainless steel	VAR-3035-15
Straight plate, 16-hole, 3.5 mm, stainless steel	VAR-3035-16
Straight plate, 17-hole, 3.5 mm, stainless steel	VAR-3035-17
Straight plate, 18-hole, 3.5 mm, stainless steel	VAR-3035-18
Straight plate, 19-hole, 3.5 mm, stainless steel	VAR-3035-19
Straight plate, 20-hole, 3.5 mm, stainless steel	VAR-3035-20
3.5 mm OrthoLine T-Plates (Matte)	
T-plate, 2-hole/4-hole, 3.5 mm, stainless steel	VAR-3035T-2-4
T-plate, 3-hole/4-hole, 3.5 mm, stainless steel	VAR-3035T-3-4
T-plate, 2-hole/6-hole, 3.5 mm, stainless steel	VAR-3035T-2-6
T-plate, 2-hole/8-hole, 3.5 mm, stainless steel	VAR-3035T-2-8
T-plate, 3-hole/6-hole, 3.5 mm, stainless steel	VAR-3035T-3-6
T-plate, 3-hole/8-hole, 3.5 mm, stainless steel	VAR-3035T-3-8
T-plate, 3-hole/12-hole, 3.5 mm, stainless steel	VAR-3035T-3-12

OrthoLine™ Straight Plates and T-Plates (cont.)	
3.5 mm OrthoLine Straight Broad Plates (Matte)	
Straight plate broad, 8-hole, 3.5 mm, stainless steel	VAR-3035B-08
Straight plate broad, 9-hole, 3.5 mm, stainless steel	VAR-3035B-09
Straight plate broad, 10-hole, 3.5 mm, stainless steel	VAR-3035B-10
Straight plate broad, 11-hole, 3.5 mm, stainless steel	VAR-3035B-11
Straight plate broad, 12-hole, 3.5 mm, stainless steel	VAR-3035B-12
Straight plate broad, 13-hole, 3.5 mm, stainless steel	VAR-3035B-13
Straight plate broad, 14-hole, 3.5 mm, stainless steel	VAR-3035B-14
Straight plate broad, 15-hole, 3.5 mm, stainless steel	VAR-3035B-15
Straight plate broad, 16-hole, 3.5 mm, stainless steel	VAR-3035B-16
Straight plate broad, 17-hole, 3.5 mm, stainless steel	VAR-3035B-17
Straight plate broad, 18-hole, 3.5 mm, stainless steel	VAR-3035B-18
Straight plate broad, 19-hole, 3.5 mm, stainless steel	VAR-3035B-19
Straight plate broad, 20-hole, 3.5 mm, stainless steel	VAR-3035B-20

Cuttable Plates



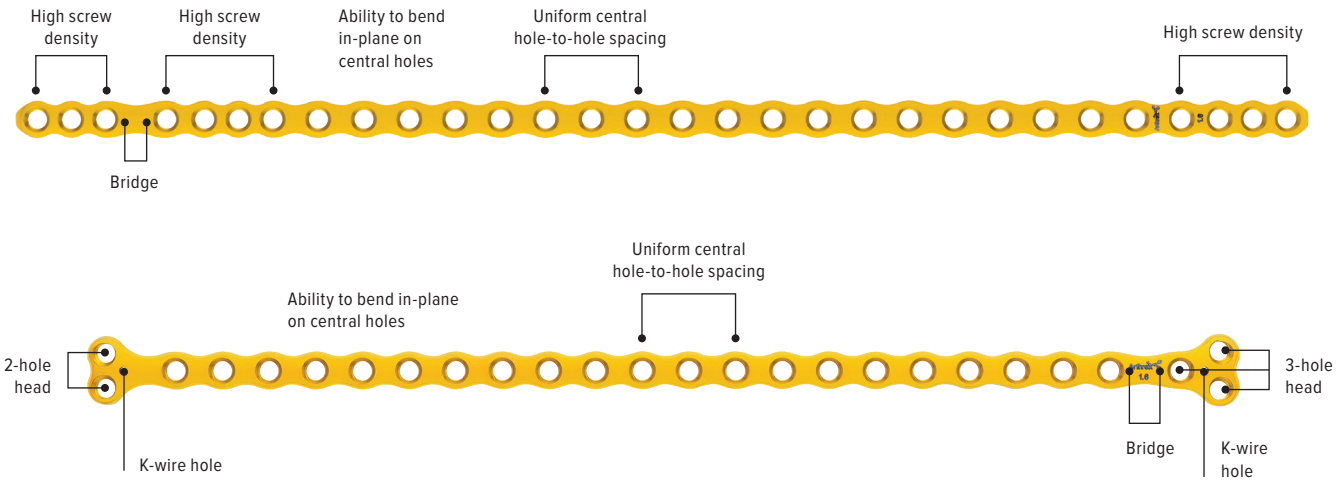
The cuttable straight plates are designed to offer multiple options and applications for veterinary orthopedic surgery. Each plate features three tight hole-to-hole spacings on either end, followed by a bridge on one side and a transition hole. Additionally, there is another set of three tight hole-to-hole spacings on the side with the bridge. The central hole spacing is larger, allowing for in-plane bending of approximately 7°-8° before deformation of the screw hole occurs. This design provides flexibility and precision in various surgical scenarios.

The cuttable T-plates are designed to be placed in a juxta-articular fashion and cut to size. The design features a 3-hole T on one side and a 2-hole T on the opposite side, following a bridge design with uniform hole-to-hole spacing throughout centrally. The central hole spacing allows for in-plane bending of approximately 7°-8°. This design ensures adaptability and precise placement in complex orthopedic procedures.

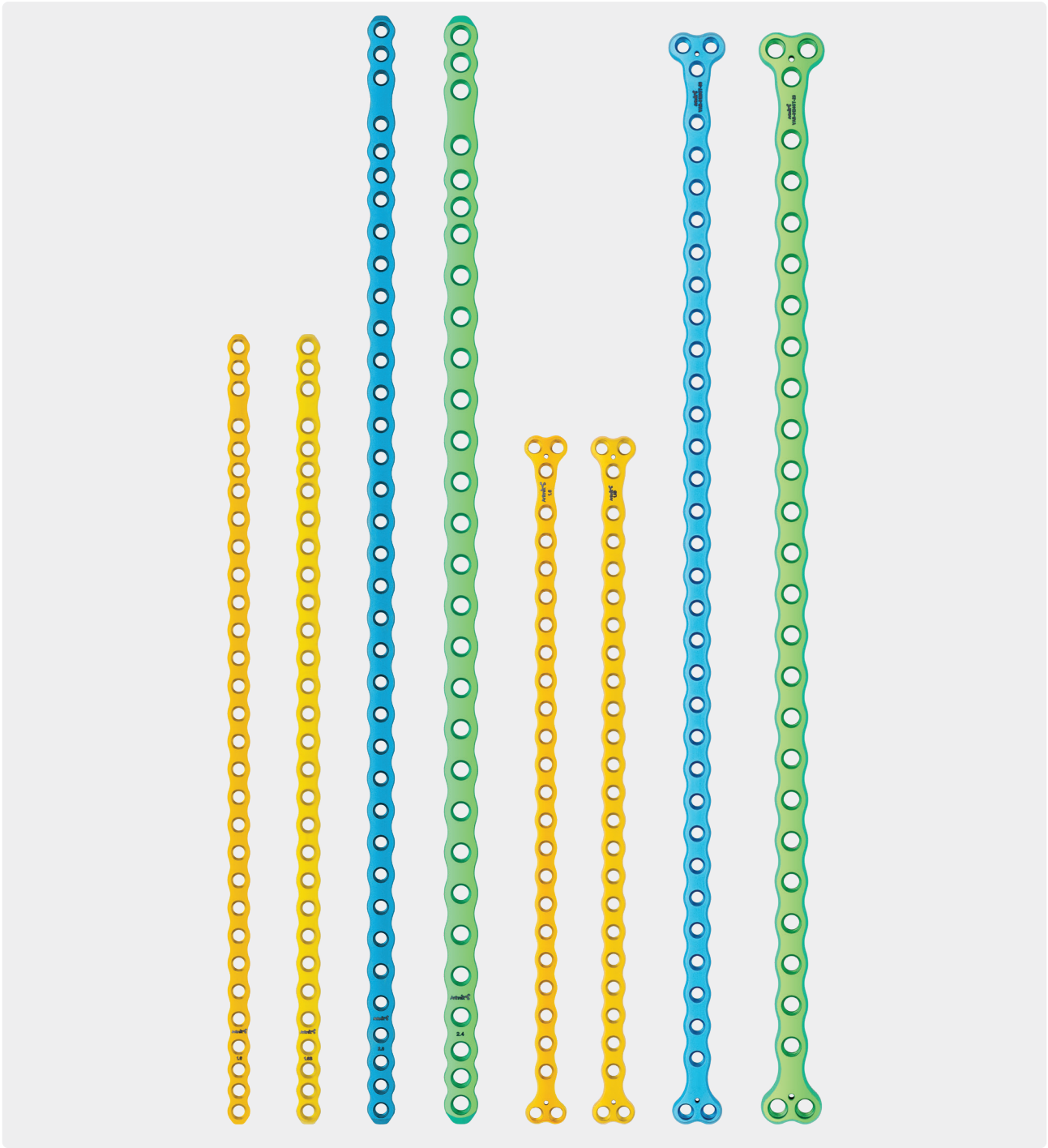
Features and Benefits

- Orthogonal plating
- Range of sizes, including 1.6 mm, 1.6 mm broad, 2.0 mm, and 2.4 mm
- Titanium options for 1.6 mm to 2.4 mm plates
- Double-ended plate with high screw density and bridge design
- 2- and 3-hole T-plates with bridge designs on either end
- Central hole-to-hole spacing allows for in-plane bending

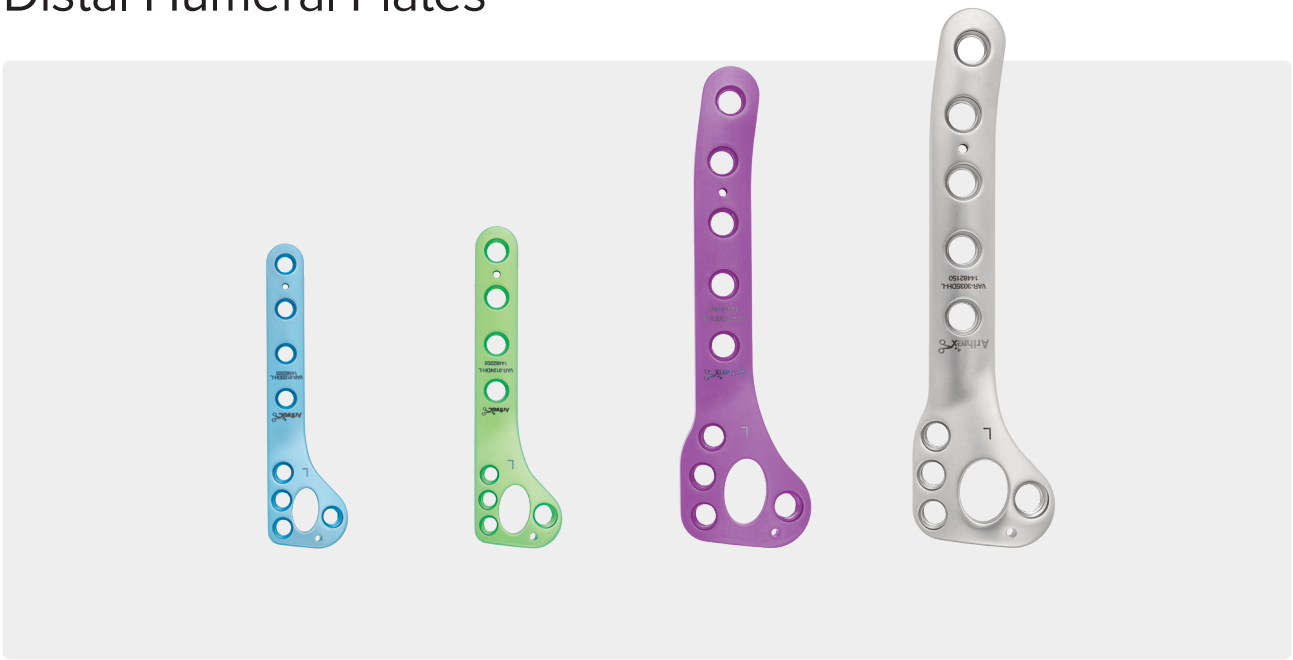
Anatomic Design



Cuttable Plates	
1.6 mm OrthoLine™ Cuttable Plates	
Cuttable straight plate, 1.6 mm, titanium	VAR-3116C-30
Cuttable T-plate, 1.6 mm, titanium	VAR-3116CT-21
1.6 mm OrthoLine Cuttable Plates Broad	
Cuttable straight plate, broad, 1.6 mm, titanium	VAR-3116BC-30
Cuttable T-plate, broad, 1.6 mm, titanium	VAR-3116BCT-21
2.0 mm OrthoLine Cuttable Plates	
Cuttable straight plate, 2.0 mm, titanium	VAR-3120C-36
Cuttable T-plate, 2.0 mm, titanium	VAR-3120CT-30
2.4 mm OrthoLine Cuttable Plates	
Cuttable straight plate, 2.4 mm, titanium	VAR-3124C-29
Cuttable T-plate, 2.4 mm, titanium	VAR-3124CT-23



Distal Humeral Plates



The OrthoLine™ distal humeral fracture system is the first plate of its kind to incorporate a transcondylar screw for distal humeral medial, supracondylar, Y-shaped, and T-shaped fractures.

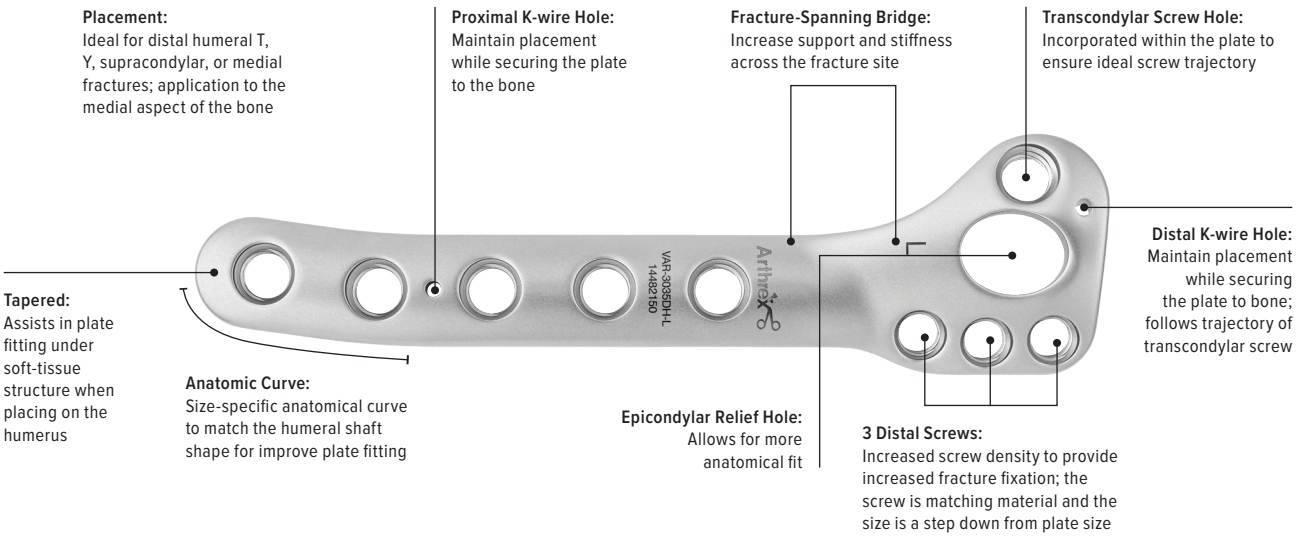
Designed with the surgeon in mind, OrthoLine distal humeral plates are anatomic, incorporating the transcondylar screw within the construct and including a specific trajectory to help with proper transcondylar screw placement.

Repair medial, supracondylar, Y-shaped, and T-shaped fractures with a single plate construct using a K-wire on the lateral aspect for Y-shaped and T-shaped fractures when placing the plate medially. The epicondylar oval hole helps the surgeon find the right location to facilitate the best plate placement and allows for epicondyle relief.

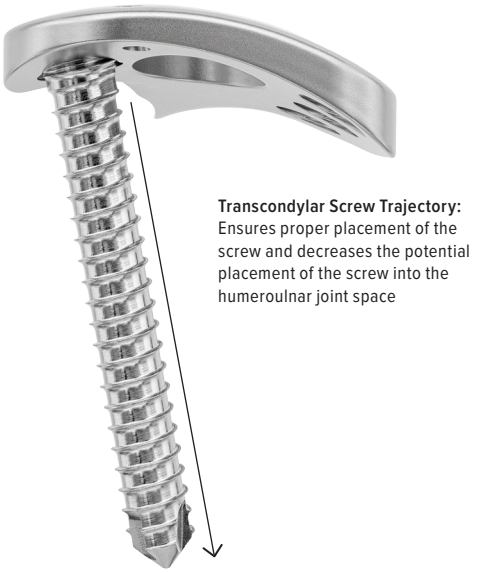
Features and Benefits

- Plate incorporates transcondylar screw
- Optimized trajectory for transcondylar screw
- Distal aspect accommodates 4 locking screws
- Anatomic, strong, single-bridging plate design
- Designed for medial, supracondylar, T-shaped, and Y-shaped fractures
- OrthoLine distal humeral plates use 2 screw sizes per implant:
  - 3.5 mm/2.7 mm
  - 3.0 mm/2.4 mm
  - 2.4 mm/2.0 mm
  - 2.4 mm/2.0 mm or 1.6 mm

Anatomic Design



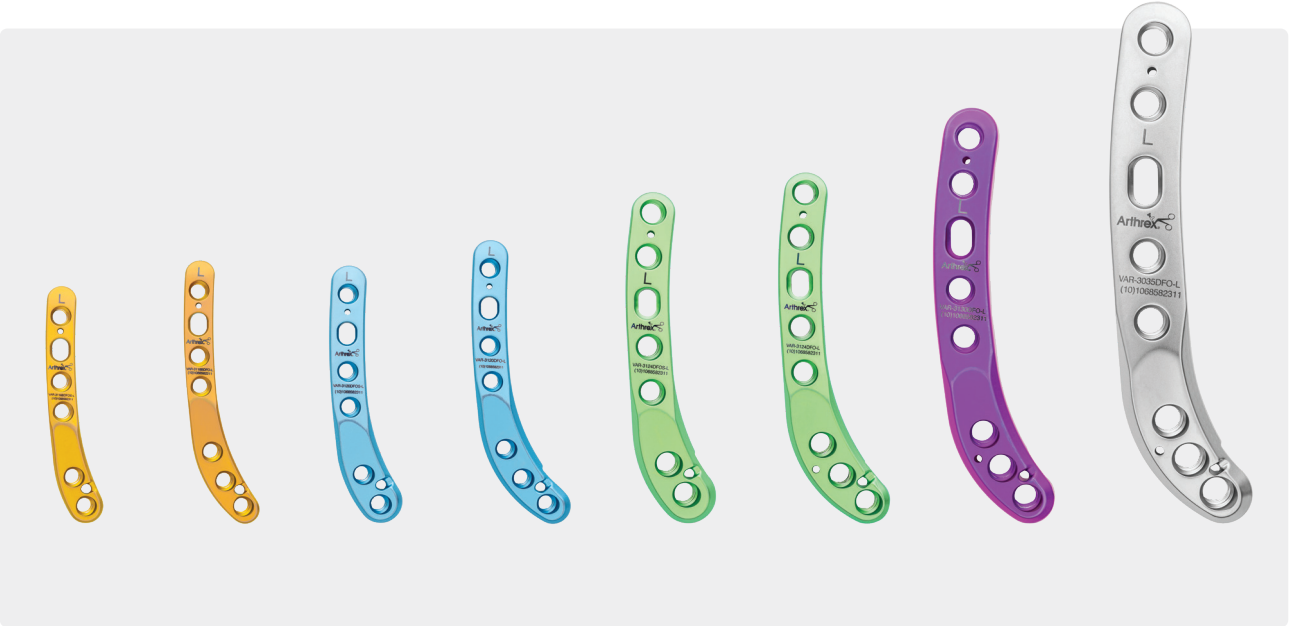
Screw Trajectory



Transcondylar Screw Trajectory:
Ensures proper placement of the screw and decreases the potential placement of the screw into the humeroulnar joint space

Distal Humeral Plates	
2.0 mm OrthoLine™ Distal Humeral Plates (Blue)	
Distal humeral plate, left, 2.0 mm, titanium	VAR-3120DH-L
Distal humeral plate, right, 2.0 mm, titanium	VAR-3120DH-R
2.4 mm OrthoLine Distal Humeral Plates (Green)	
Distal humeral plate, left, 2.4 mm, titanium	VAR-3124DH-L
Distal humeral plate, right, 2.4 mm, titanium	VAR-3124DH-R
3.0 mm OrthoLine Distal Humeral Plates (Purple)	
Distal humeral plate, left, 3.0 mm, titanium	VAR-3130DH-L
Distal humeral plate, right, 3.0 mm, titanium	VAR-3130DH-R
3.5 mm OrthoLine Distal Humeral Plates (Matte)	
Distal humeral plate, left, 3.5 mm, stainless steel	VAR-3035DH-L
Distal humeral plate, right, 3.5 mm, stainless steel	VAR-3035DH-R

Distal Femoral Osteotomy Plates

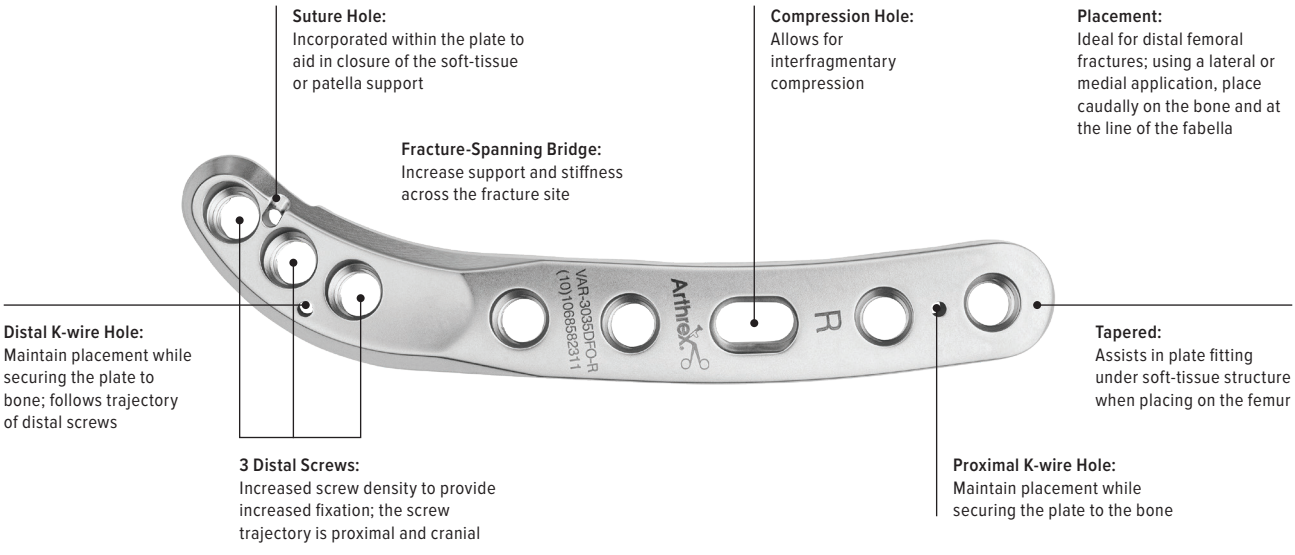


The OrthoLine™ distal femoral osteotomy (DFO) plate system includes 1.6 mm, 2.0 mm, 2.4 mm, 3.0 mm, and 3.5 mm sizes. Each plate size is anatomically contoured to mimic the anatomy of patients within the given size range. The plate includes distal screw trajectories to avoid the femoral trochlea and intercondylar notch. Proximal screw trajectories align with the bone stock of the diaphyseal bone. The plate is designed to minimize soft-tissue irritation. The DFO plate includes a suture hole, a unique feature that allows additional patellar stabilization by securing a suture strand from the parapatellar ligament to the suture hole within the plate.

Features and Benefits

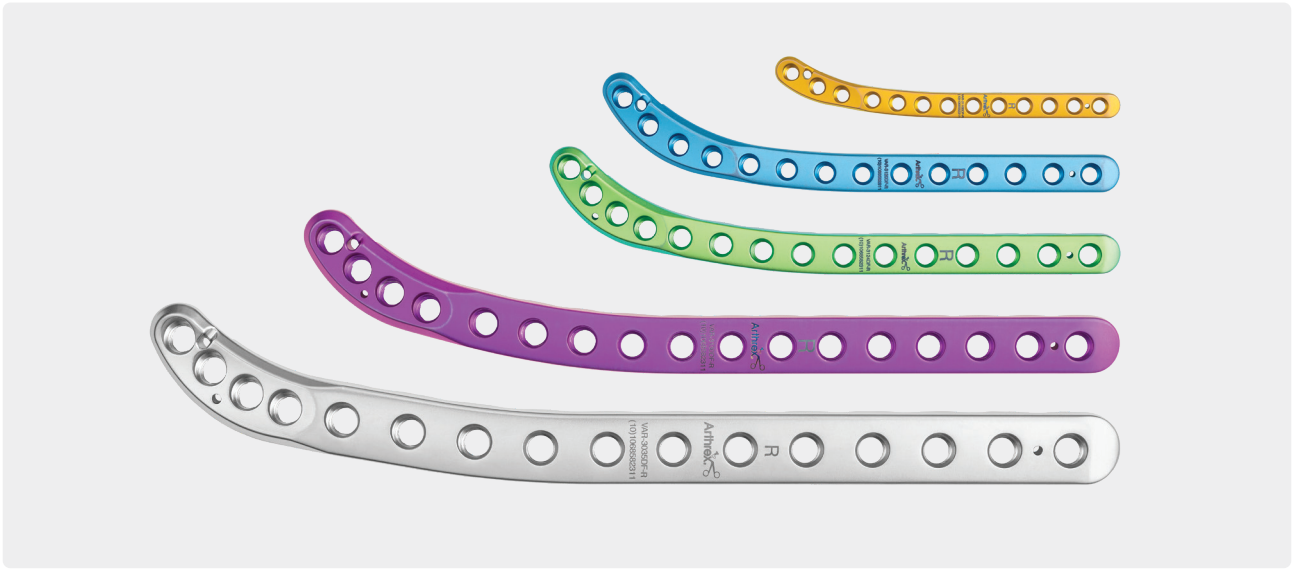
- Distal screw trajectories avoid the femoral trochlea and intercondylar notch
- Proximal screw trajectories to align centrally in the diaphyseal bone
- Compression slot allows the surgeon to dictate desired compression
- Anatomic plate design with left and right options
- Strong bridging plate design
- Tapered design to avoid soft-tissue irritation
- Suture hole for additional patellar stabilization

Anatomic Design



Distal Femoral Osteotomy Plates	
1.6 mm Distal Femur Osteotomy Broad Plates (Gold)	
Distal femur osteotomy plate, broad, short, 1.6 mm, titanium, left	VAR-3116BDFOS-L
Distal femur osteotomy plate, broad, short, 1.6 mm, titanium, right	VAR-3116BDFOS-R
Distal femur osteotomy plate, broad, 1.6 mm, titanium, left	VAR-3116BDFO-L
Distal femur osteotomy plate, broad, 1.6 mm, titanium, right	VAR-3116BDFO-R
2.0 mm Distal Femoral Osteotomy Plates (Blue)	
Distal femur osteotomy plate, short, 2.0 mm, titanium, left	VAR-3120DFOS-L
Distal femur osteotomy plate, short, 2.0 mm, titanium, right	VAR-3120DFOS-R
Distal femur osteotomy plate, 2.0 mm, titanium, left	VAR-3120DFO-L
Distal femur osteotomy plate, 2.0 mm, titanium, right	VAR-3120DFO-R
2.4 mm Distal Femoral Osteotomy Plates (Green)	
Distal femur osteotomy plate, short, 2.4 mm, titanium, left	VAR-3124DFOS-L
Distal femur osteotomy plate, short, 2.4 mm, titanium, right	VAR-3124DFOS-R
Distal femur osteotomy plate, 2.4 mm, titanium, left	VAR-3124DFO-L
Distal femur osteotomy plate, 2.4 mm, titanium, right	VAR-3124DFO-R
3.0 mm Distal Femoral Osteotomy Plates (Purple)	
Distal femur osteotomy plate, 3.0 mm, titanium, left	VAR-3130DFO-L
Distal femur osteotomy plate, 3.0 mm, titanium, right	VAR-3130DFO-R
3.5 mm Distal Femoral Osteotomy Plates (Matte)	
Distal femur osteotomy plate, 3.5 mm, stainless steel, left	VAR-3035DFO-L
Distal femur osteotomy plate, 3.5 mm, stainless steel, right	VAR-3035DFO-R

Distal Femur Fracture Plates



The OrthoLine™ distal femoral fracture system is designed to aid in fractures of the distal femur. The plate is designed to be placed on the lateral aspect of the bone with minimal to no contouring.

Designed with the surgeon in mind, the OrthoLine distal femoral fracture plates are anatomically designed, incorporating distal and proximal screw trajectories to align centrally in the metaphyseal and diaphyseal bone.

The anatomic design features include a contour to follow the natural procurvatum, distal caudal curvature with increased screw density of the distal aspect of the plate, and specific screw trajectories throughout the plate.

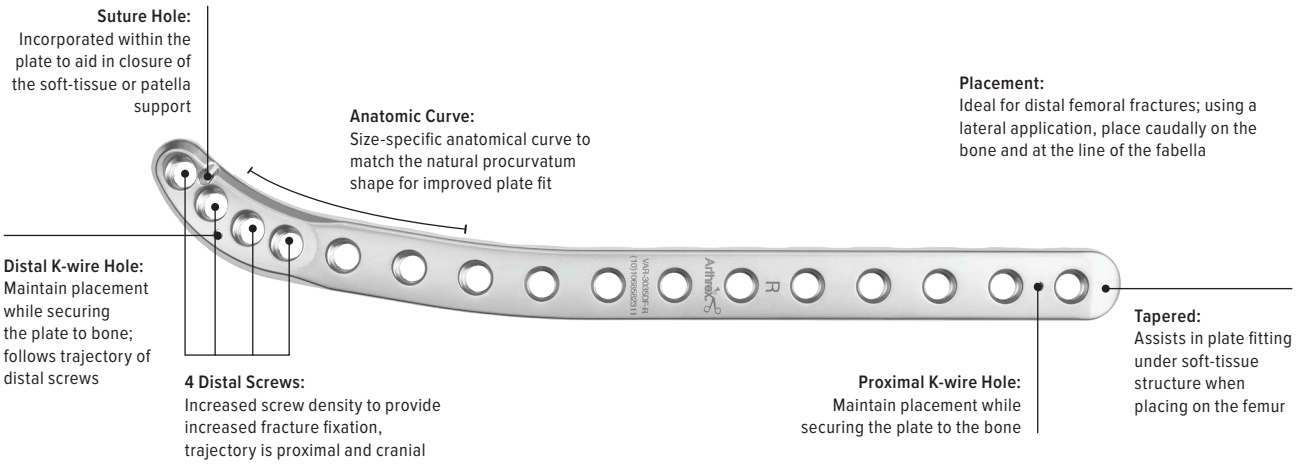
OrthoLine plates include features to help create a more reproducible procedure. The plates are contoured anatomically to match the bone surface. The K-wire holes allow plate placement prior to screw insertion, which helps the surgeon find the best location to place the plate. The low-profile design is less prominent under the skin, with features that limit bone-to-plate contact. The plate includes a suture hole on the distal end to aid in the stabilization of the patella or to aid in soft-tissue closure.

Additionally, features designed to aid in proper plate placement include variable-angle locking (VAL) screws for the titanium lines.

Features and Benefits

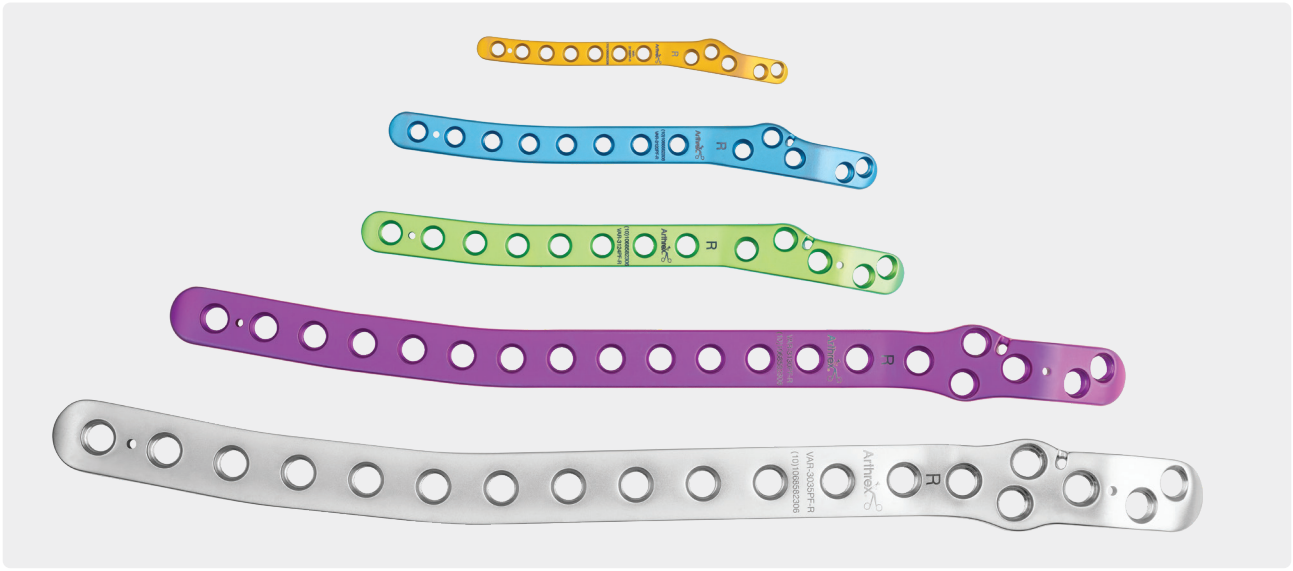
- Suture hole to aid in soft tissue closure
- High distal screw density pattern with specific trajectories
- Anatomic plate designs to follow the procurvatum and distal curvature
- Left and right options in a variety of sizes for patients of all sizes

Anatomic Design



Distal Femoral Plates	
1.6 mm Distal Femur Fracture Broad Plates (Gold)	
Distal femur plate, broad, titanium, 1.6 mm, left	VAR-3116BDF-L
Distal femur plate, broad, titanium, 1.6 mm, right	VAR-3116BDF-R
2.0 mm Distal Femur Fracture Plates (Blue)	
Distal femur plate, titanium, 2.0 mm, left	VAR-3120DF-L
Distal femur plate, titanium, 2.0 mm, right	VAR-3120DF-R
2.4 mm Distal Femur Fracture Plates (Green)	
Distal femur plate, titanium, 2.4 mm, left	VAR-3124DF-L
Distal femur plate, titanium, 2.4 mm, right	VAR-3124DF-R
3.0 mm Distal Femur Fracture Plates (Purple)	
Distal femur plate, titanium, 3.0 mm, left	VAR-3130DF-L
Distal femur plate, titanium, 3.0 mm, right	VAR-3130DF-R
3.5 mm Distal Femur Fracture Plates (Matte)	
Distal femur plate, stainless steel, 3.5 mm, left	VAR-3035DF-L
Distal femur plate, stainless steel, 3.5 mm, right	VAR-3035DF-R

Proximal Femoral Plates



The OrthoLine™ proximal femoral fracture system is designed to aid in fractures of the proximal femur. The plate is designed to be placed on the lateral aspect of the bone with minimal to no contouring.

Designed with the surgeon in mind, the OrthoLine proximal femoral fracture plates are anatomically designed, incorporating proximal and distal screw trajectories to align centrally in the metaphyseal and diaphyseal bone.

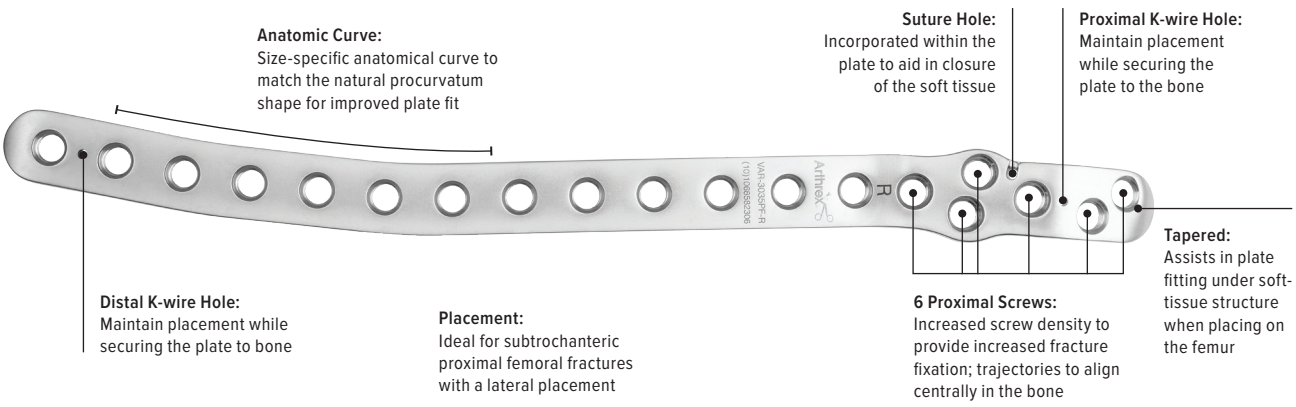
The anatomic design features include a contour to follow the natural procurvatum, double proximal curvature to follow the trochanter, and increased screw density with a unique pattern on the proximal end.

OrthoLine plates include features to help create a more reproducible procedure. The plates are contoured anatomically to match the bone surface. The K-wire holes allow plate placement prior to screw insertion, which helps the surgeon find the best location to place the plate. The low-profile design is less prominent under the skin, with features that limit bone-to-plate contact. The plate includes a suture hole on the proximal end to aid in soft-tissue closure. Additionally, features designed to aid in proper plate placement include variable-angle locking (VAL) screws for the titanium lines.

Features and Benefits

- Suture hole to aid in soft-tissue closure
- High proximal screw density including a unique pattern with specific trajectories
- Anatomic plate designs to follow the procurvatum and trochanteric curvature
- Left and right options in a variety of sizes for patients of all sizes

Anatomic Design



Proximal Femoral Plates	
1.6 mm Proximal Femur Broads Plates (Gold)	
Proximal femur plate broad, titanium, 1.6 mm, left	VAR-3116BPF-L
Proximal femur plate broad, titanium, 1.6 mm, right	VAR-3116BPF-R
2.0 mm Proximal Femur Plates (Blue)	
Proximal femur plate, titanium, 2.0 mm, left	VAR-3120PF-L
Proximal femur plate, titanium, 2.0 mm, right	VAR-3120PF-R
2.4 mm Proximal Femur Plates (Green)	
Proximal femur plate, titanium, 2.4 mm, left	VAR-3124PF-L
Proximal femur plate, titanium, 2.4 mm, right	VAR-3124PF-R
3.0 mm Proximal Femur Plates (Purple)	
Proximal femur plate, titanium, 3.0 mm, left	VAR-3130PF-L
Proximal femur plate, titanium, 3.0 mm, right	VAR-3130PF-R
3.5 mm Proximal Femur Plates (Matte)	
Proximal femur plate, short, stainless steel, 3.5 mm, left	VAR-3035PFS-L
Proximal femur plate, short, stainless steel, 3.5 mm, right	VAR-3035PFS-R
Proximal femur plate, stainless steel, 3.5 mm, left	VAR-3035PF-L
Proximal femur plate, stainless steel, 3.5 mm, right	VAR-3035PF-R
Proximal femur plate broad, stainless steel, 3.5 mm, left	VAR-3035BPF-L
Proximal femur plate broad, stainless steel, 3.5 mm, right	VAR-3035BPF-R

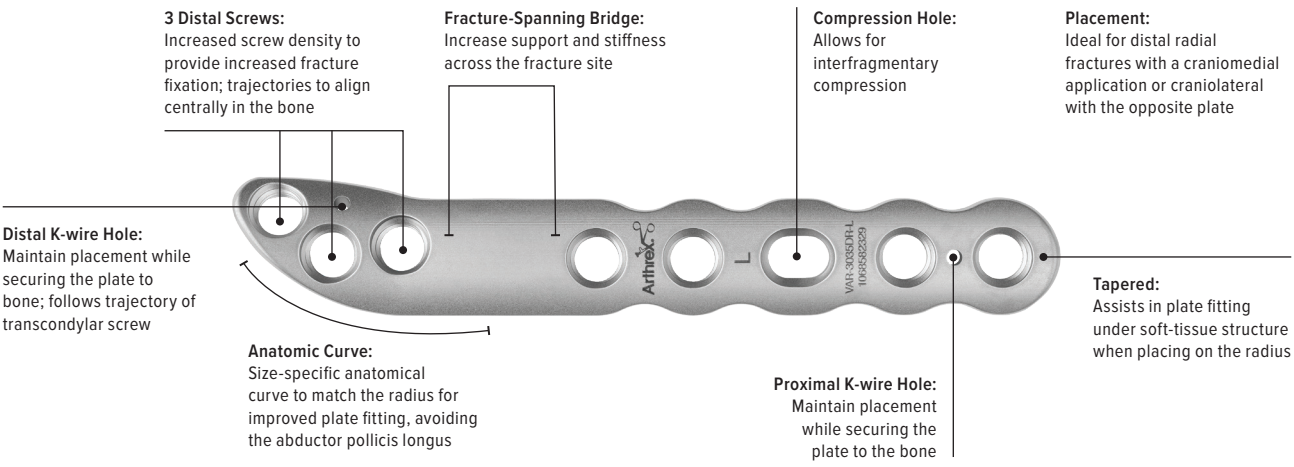
Radial Fracture Plates

The OrthoLine™ radial fracture plate system includes 1.6 mm, 2.0 mm, 2.4 mm, 3.0 mm, and 3.5 mm sizes. Each plate is anatomically contoured to mimic the anatomy of patients within a given size range. The system is designed with multiplanar distal screw trajectories, and proximal screws are aligned centrally within the bone to improve screw pullout. Thinner than a standard T-plate or straight plate, this plate design allows less soft-tissue interference. The tubular bottom enables better conformity to the patient's bone structure and increases the area moment of inertia. This unique design also includes a fracture-spanning bridge with a sliding screw socket allowing compression across the fracture site, bending plugs, and several K-wire holes to assist in placement. The plates are designed for a craniomedial placement, but a craniolateral placement can be used with the contralateral side.

Features and Benefits

- Distal screw trajectories
- Proximal screw trajectories to align centrally in the bone
- Designed for distal radial fractures
- Anatomic plate design with left and right options
- High screw density where needed
- Tapered design to avoid soft-tissue irritation
- Compression hole
- Fracture-spanning bridge
- 2 placement options

Anatomic Design



Distal Fracture Plates	
1.6 mm Radial Fracture Plates (Gold)	
Radial fracture plate, titanium, 1.6 mm, left	VAR-3116DR-L
Radial fracture plate, titanium, 1.6 mm, right	VAR-3116DR-R
Radial fracture plate, broad, titanium, 1.6 mm, left	VAR-3116BDR-L
Radial fracture plate, broad, titanium, 1.6 mm, right	VAR-3116BDR-R
2.0 mm Radial Fracture Plates (Blue)	
Radial fracture plate, titanium, 2.0 mm, left	VAR-3120DR-L
Radial fracture plate, titanium, 2.0 mm, right	VAR-3120DR-R
2.4 mm Radial Fracture Plates (Green)	
Radial fracture plate, titanium, 2.4 mm, left	VAR-3124DR-L
Radial fracture plate, titanium, 2.4 mm, right	VAR-3124DR-R
3.0 mm Radial Fracture Plates (Purple)	
Radial fracture plate, titanium, 3.0 mm, left	VAR-3130DR-L
Radial fracture plate, titanium, 3.0 mm, right	VAR-3130DR-R
3.5 mm Radial Fracture Plates (Matte)	
Radial fracture plate, SS, 3.5 mm, left	VAR-3035DR-L
Radial fracture plate, SS, 3.5 mm, right	VAR-3035DR-R

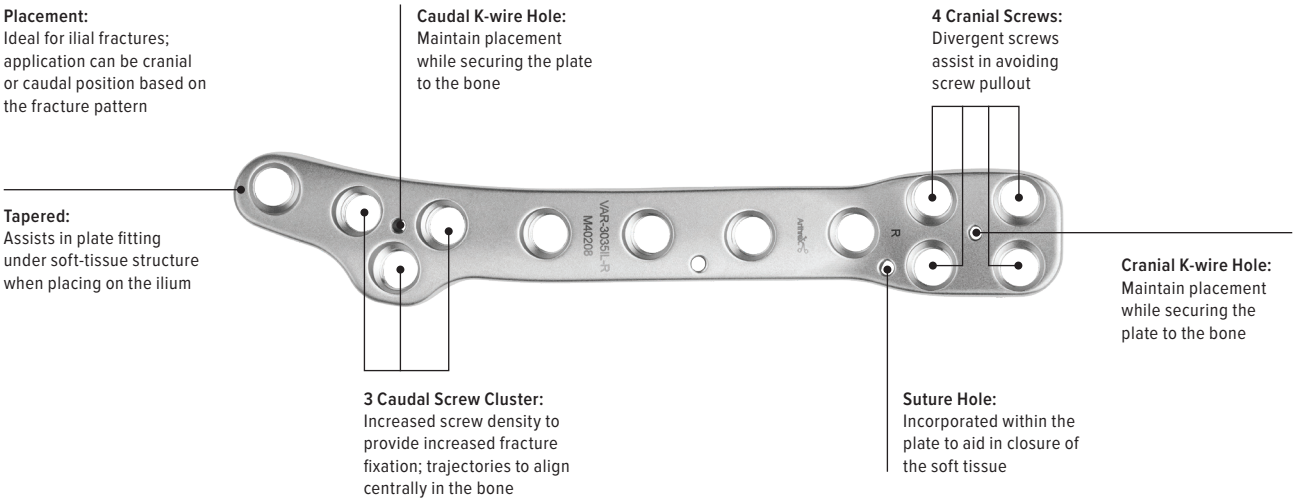
Ilial Fracture Plates

The OrthoLine™ ilial fracture plate system includes 1.6 mm, 2.0 mm, 2.4 mm, 3.0 mm, and 3.5 mm sizes. Each plate size is anatomically contoured to mimic the anatomy of patients within a given size range. The plate includes cranial divergent screw trajectories to improve purchase in the cranial ilium. The caudal screw trajectories are more dorsally oriented to help diverge away from the coxofemoral joint. Additionally, the ilial plate includes a suture hole that fits Arthrex VetSuture for apposition of the gluteal musculature at closure.

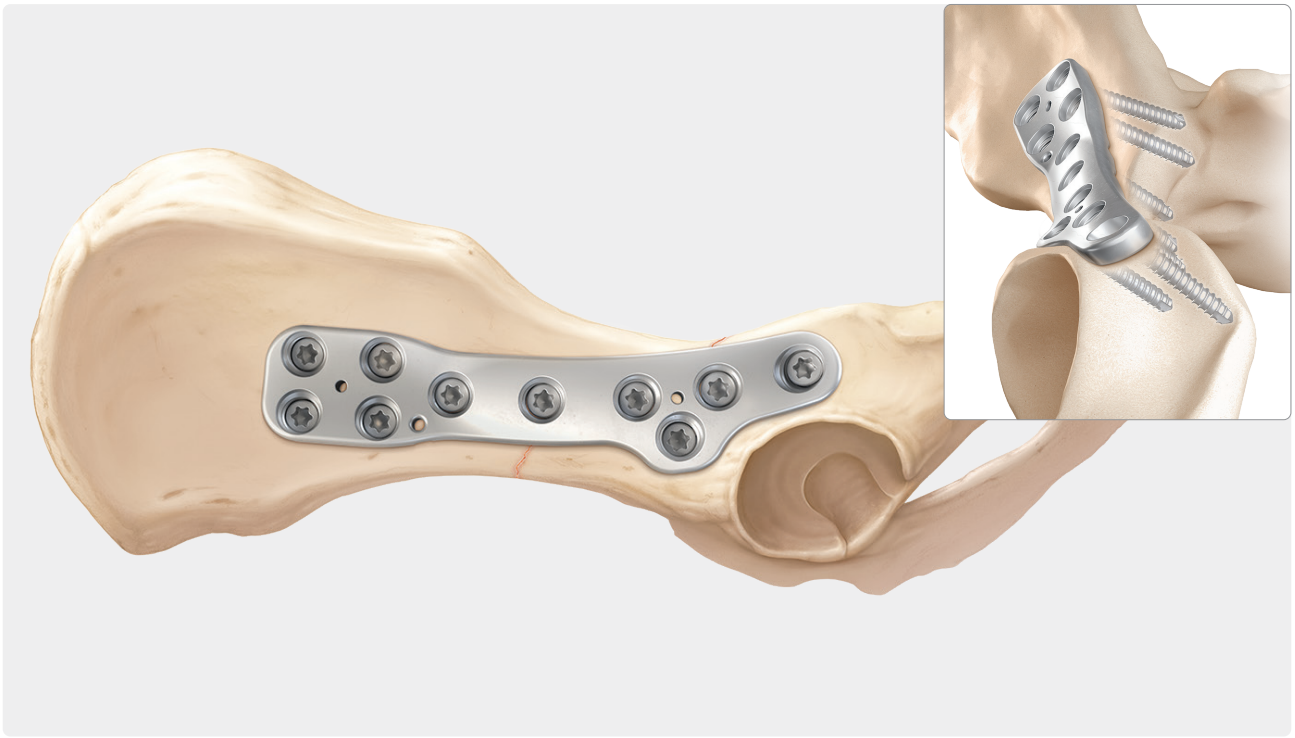
Features and Benefits

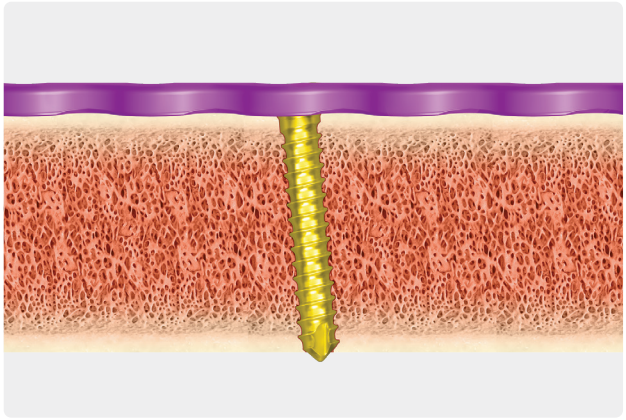
- Divergent cranial screw trajectories for added pull-out strength
- Caudal screw trajectories to diverge from coxofemoral joint
- Designed for cranial, caudal, and oblique fracture patterns
- Anatomic plate design with left and right options
- High screw density where needed
- Suture hole to aid in soft-tissue closure
- Scalloped underside to distribute stress and minimize contact

Anatomic Design



Ilial Fracture Plates	
1.6 mm Ilial Fracture Plates (Gold)	
Ilial fracture plate, titanium, 1.6 mm, left	VAR-3116I-L
Ilial fracture plate, titanium, 1.6 mm, right	VAR-3116I-R
2.0 mm Ilial Fracture Plates (Blue)	
Ilial fracture plate, titanium, 2.0 mm, left	VAR-3120I-L
Ilial fracture plate, titanium, 2.0 mm, right	VAR-3120I-R
2.4 mm Ilial Fracture Plates (Green)	
Ilial fracture plate, titanium, 2.4 mm, left	VAR-3124I-L
Ilial fracture plate, titanium, 2.4 mm, right	VAR-3124I-R
3.0 mm Ilial Fracture Plates (Purple)	
Ilial fracture plate, titanium, 3.0 mm, left	VAR-3130I-L
Ilial fracture plate, titanium, 3.0 mm, right	VAR-3130I-R
3.5 mm Ilial Fracture Plates (Matte)	
Ilial fracture plate, SS, 3.5 mm, left	VAR-3035I-L
Ilial fracture plate, SS, 3.5 mm, right	VAR-3035I-R
Ilial fracture plate, long, SS, 3.5 mm, left	VAR-3035IL-L
Ilial fracture plate, long, 3.5 amm, right	VAR-3035IL-R





- 1.6 mm/2.0 mm screws interchangeable
- 3.5 mm/4.0 mm screws interchangeable
- 3.0 mm cortical fits in a 2.4 locking hole when added strength is required
- Colored locking screws to match the plates and instruments

Screws

1.6 mm Low-Profile Cortical, Variable-Angle, Titanium	
Low-profile cortical screw, 1.6 mm × 5-24 mm Sizes: 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24 mm	VAR-8916-05 to -24
Low-profile variable angle screw, 1.6 mm × 5-24 mm Sizes: 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24 mm	VAR-8916V-05 to -24
2.0 mm Low-Profile Cortical, Locking, Variable-Angle, Titanium	
Low-profile cortical screw, 2.0 mm × 6-40 mm Sizes: 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40 mm	VAR-8920-06 to -40
Low-profile locking screw, 2.0 mm × 6-40 mm Sizes: 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40 mm	VAR-8920L-06 to -40
Low-profile variable angle screw, 2.0 mm × 6-40 mm Sizes: 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40 mm	VAR-8920V-06 to -40
2.4 mm Low-Profile Cortical, Locking, Variable-Angle, Titanium	
Low-profile cortical screw, 2.4 mm × 6-40 mm Sizes: 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40 mm	VAR-8924-06 to -40
Low-profile locking screw, 2.4 mm × 6-40 mm Sizes: 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40 mm	VAR-8924L-06 to -40
Low-profile variable-angle screw, 2.4 mm × 6-40 mm Sizes: 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40 mm	VAR-8924V-06 to -40
2.7 mm Low-Profile Cortical, Locking, Stainless Steel	
Low-profile cortical screw, 2.7 mm × 10-34 mm Sizes: 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34 mm	VAR-8827-10 to -34
Low-profile locking screw, 2.7 mm × 10-34 mm Sizes: 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34 mm	VAR-8827L-10 to -34
3.0 mm Low-Profile Cortical, Locking, Variable-Angle, Titanium	
Low-profile cortical screw, 3.0 mm × 8-55 mm Sizes: 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 55 mm	VAR-8930-08 to -55
Low-profile locking screw, 3.0 mm × 8-55 mm Sizes: 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 55 mm	VAR-8930L-08 to -55
Low-profile variable-angle screw, 3.0 mm × 8-55 mm Sizes: 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 55 mm	VAR-8930V-08 to -55
3.5 mm Low-Profile Cortical, Locking, Stainless Steel	
Low-profile cortical screw, 3.5 mm × 16-60 mm Sizes: 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60 mm	VAR-8835-16 to -60
Low-profile locking screw, 3.5 mm × 16-60 mm Sizes: 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60 mm	VAR-8835L-16 to -60
4.0 mm Low-Profile, Locking, Stainless Steel	
Low-profile locking screw, 4.0 mm × 18-60 mm Sizes: 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60 mm	VAR-8840L-18 to -60

(a) **(b)** **(c)** **(d)**

Bending Plugs

Bending plug, cannulated, 1.6 mm/2.0 mm **(a)**	VAR-4020-04
Bending plug, cannulated, 2.4 mm **(b)**	VAR-4024-04
Bending plug, cannulated, 2.7 mm	VAR-4027-04
Bending plug, cannulated, 3.0 mm **(c)**	VAR-4030-04
Bending plug, cannulated, 3.5 mm **(d)**	VAR-4035-04
Bending plug caddy	VAR-4000BPC

Instruments

Instruments for 1.6 mm OrthoLine™ Plating System (Bronze/Gold)	VAR-3116S-01
Drill bit, solid, AO, 1.1 mm (1.6 mm)	VAR-4016D
Drill bit, solid, short, AO, 1.1 mm (1.6 mm)	VAR-4016SD
Depth measuring device (1.6 mm/2.0 mm/2.4 mm)	VAR-2024DD
T6 driver (1.6 mm/2.0 mm)	VAR-4020-01
T6 screwdriver (1.6 mm/2.0 mm)	VAR-4020-02
Bending plug caddy	VAR-4000BPC
General sterilization case	VAR-4000GC
General sterilization case insert	VAR-4000GC-01
Screw caddy, 1.6 mm	VAR-3116SC-01
Bending plug cannulated, 1.6 mm/2.0 mm	VAR-4020-014
Screw holding forceps	VAR-8941F
Drill/depth guide, locking, 1.6 mm (1.6 mm)	VAR-4016DG
Drill guide, 1.1 mm (1.6 mm)	VAR-4016TDG
Drill guide, variable, 1.6 mm (1.6 mm)	VAR-4016VDG
0.86 mm K-wire drill guide, locking, 1.6 mm/2.0 mm	VAR-4020KDG*
Bending iron, small (1.6 mm/2.0 mm)	VAR-4000-07
BB-Tak, small 1.1 mm × 40 mm (1.6 mm/2.0 mm/2.4 mm)	VAR-8933BB*
BB-Tak, small, threaded 1.1 mm × 40 mm (1.6 mm/2.0 mm/2.4 mm)	VAR-8933TBB*
Guidewire w/ trocar tip, 0.86 mm × 80 mm (1.6 mm/2.0 mm)	VAR-8929K*
Instruments for 2.0 mm OrthoLine Plating System (Blue)	VAR-3120S-01
Drill bit, solid, AO, 1.5 mm (2.0 mm)	VAR-4020D
Drill bit, solid, short, AO, 1.5 mm (2.0 mm)	VAR-4020SD
Depth measuring device (1.6 mm/2.0 mm/2.4 mm)	VAR-2024DD
T6 driver (1.6 mm/2.0 mm)	VAR-4020-01
T6 screwdriver (1.6 mm/2.0 mm)	VAR-4020-02
Bending plug caddy	VAR-4000BPC
General sterilization case	VAR-4000GC
General sterilization case insert	VAR-4000GC-01
Screw caddy VAL, 2.0 mm	VAR-3020SC-01
Bending plug cannulated, 1.6 mm/2.0 mm	VAR-4020-014
Screw holding forceps	VAR-8941F
Drill/depth guide, locking 2.0 mm (2.0 mm)	VAR-4020DG
Tap/drill guide, 2.0/1.5 mm (2.0 mm)	VAR-4020TDG
Drill guide, variable, 2.0 mm (2.0 mm)	VAR-4020VDG
0.86 mm K-wire drill guide, locking, 1.6 mm/2.0 mm	VAR-4020KDG*
Bone tap, 2.0 mm (2.0 mm)	VAR-4020T*
Bending iron, small (1.6 mm/2.0 mm)	VAR-4000-07
BB-Tak, small 1.1 mm × 40 mm (1.6 mm/2.0 mm/2.4 mm)	VAR-8933BB*
BB-Tak, small, threaded 1.1 mm × 40 mm (1.6 mm/2.0 mm/2.4 mm)	VAR-8933TBB*
Guidewire w/ trocar tip, 0.86 × 80 mm (1.6 mm/2.0 mm)	VAR-8929K*

Instruments for 2.4 mm OrthoLine Plating System (Green)	VAR-3124S-01
Drill bit, solid, AO, 1.8 mm (2.4 mm)	VAR-4024D
Drill bit, solid, short, AO, 1.8 mm (2.4 mm)	VAR-4024SD
Depth measuring device (1.6 mm/2.0 mm/2.4 mm)	VAR-2024DD
T8 driver (2.4 mm mm)	VAR-4024-01
T8 screwdriver (2.4 mm)	VAR-4024-02
Bending plug caddy	VAR-4000BPC
General sterilization case	VAR-4000GC
General sterilization case insert	VAR-4000GC-01
Screw caddy VAL, 2.4 mm	VAR-3024SC-01
Bending plug cannulated, 2.4 mm	VAR-4024-04
Screw holding forceps	VAR-8941F
Drill/depth guide, locking, 2.4 mm (2.4 mm)	VAR-4024DG
Tap/drill guide, 2.4 mm/1.8 mm (2.4 mm)	VAR-4024TDG
Drill guide, variable, 2.4 mm (2.4 mm)	VAR-4024VDG
1.14 mm K-wire drill guide, locking, 2.4 mm	VAR-4024KDG*
Bone tap, 2.4 mm (2.4 mm)	VAR-4024T*
Bending iron, medium (2.4 mm/3.0 mm)	VAR-4000-08
BB-Tak, small 1.1 mm × 40 mm (1.6 mm/2.0 mm/2.4 mm)	VAR-8933BB*
BB-Tak, small, threaded 1.1 mm × 40 mm (1.6 mm/2.0 mm/2.4 mm)	VAR-8933TBB*
Guidewire w/ trocar tip, 1.1 mm × 150 mm (2.4 mm/3.0 mm)	VAR-8933K*

Compatible OrthoLine plate size is given in parentheses

*Not included in set

Instruments (cont.)

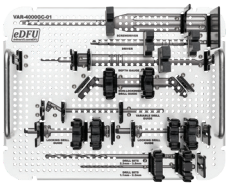
Instruments for 2.7 mm OrthoLine™ Plating System (Matte)	VAR-3027S-01
2.0 mm drill bit (2.7 mm)	VAR-8944-22
Depth measuring device (2.7 mm/3.0 mm/3.5 mm/4.0 mm)	VAR-8943-15
T10 driver	VAR-8944DH
T10 screwdriver	VAR-8943-08
Bending plug caddy	VAR-4000BPC
General sterilization case	VAR-4000GC
General sterilization case insert	VAR-4000GC-01
TPLO screw caddy, 2.7 mm	VAR-4027SC-01
Bending plug cannulated, 2.7 mm	VAR-4027-04
Screw holding forceps	VAR-8941F
2.7 mm locking drill guide	VAR-8950-07
2.0 mm/3.0 mm nonlocking drill guide	VAR-8943-31
Bone tap, 2.7 mm	VAR-4027T*
Bending plug, cannulated, 2.7 mm	VAR-4027-04
Bending plug caddy	VAR-4000BPC
BB-Tak, large, threaded 1.6 mm × 50 mm	VAR-8941TBB*
BB-Tak, large 1.6 mm × 50 mm	VAR-8941BB*
Guidewire w/ trocar 1.1 × 150 mm	VAR-8933K*
Instruments for 3.0 mm OrthoLine Plating System (Purple)	VAR-3130S-01
Drill bit, solid, AO, 2.3 mm (3.0 mm)	VAR-4030D
Drill bit, solid, short, AO, 2.3 mm (3.0 mm)	VAR-4030SD
Depth measuring device (2.7 mm/3.0 mm/3.5 mm/4.0 mm)	VAR-8943-15
T10 driver (3.0 mm)	VAR-8944DH
T10 screwdriver (3.0 mm)	VAR-8943-08
Bending plug caddy	VAR-4000BPC
General sterilization case	VAR-4000GC
General sterilization case insert	VAR-4000GC-01
Screw caddy VAL, 3.0 mm	VAR-3030SC-01
Bending plug cannulated, 3.0 mm	VAR-4030-04
Screw holding forceps	VAR-8941F
Drill/depth guide, locking, 3.0 mm (3.0 mm)	VAR-4030DG
Tap/drill guide, 3.0 mm/2.3 mm (3.0 mm)	VAR-4030TDG
Drill guide, variable, 3.0 mm (3.0)	VAR-4030VDG
1.14 mm K-wire drill guide, locking, 2.7 mm/3.0 mm	VAR-4030KDG*
Bone tap, 3.0 mm (3.0 mm)	VAR-4030T*
Bending iron, medium (2.4 mm/3.0 mm)	VAR-4000-08
BB-Tak, large 1.6 mm × 50 mm (2.4 mm/3.0 mm/3.5 mm)	VAR-8941BB*
BB-Tak, large, threaded 1.6 mm × 50 mm (2.4 mm/3.0 mm/3.5 mm)	VAR-8941TBB*
Guidewire w/ trocar tip, 1.1 mm × 150 mm (2.4 mm/3.0 mm)	VAR-8933K*

Instruments for 3.5 mm/4.0 mm OrthoLine Plating System (Matte)	VAR-3035S-01
Drill bit, solid, short, AO, 2.5 mm (3.5 mm cortical)	VAR-8943-30
Drill bit, solid, AO, 2.8 mm (3.5 mm locking)	VAR-4035D
Drill bit, solid, AO, 3.5 mm (4.0 mm)	VAR-4040D
Drill/depth guide, locking, 4.0 mm	VAR-4040DG
Depth measuring device (2.7 mm/3.0 mm/3.5 mm/4.0 mm)	VAR-8943-15
T15 driver (3.5 mm)	VAR-8941DH
T15 screwdriver (3.5 mm)	VAR-8943-10
Bending plug caddy	VAR-4000BPC
General sterilization case	VAR-4000GC
General sterilization case insert	VAR-4000GC-01
Screw caddy, 3.5 mm/4.0 mm	VAR-4035SC-02
Bending plug cannulated, 3.5 mm	VAR-4035-04
Screw holding forceps	VAR-8941F
Drill/depth guide, locking, 3.5 mm (3.5 mm)	VAR-4035DG
Drill/depth guide, locking, 4.0 mm (3.5 mm)	VAR-4040DG
Drill guide (3.5 mm)	VAR-8943-14
1.3 mm K-wire drill guide, locking, 3.5 mm	VAR-4035KDG*
Bending iron, large (3.5 mm/3.5 mm broad)	VAR-4000-09
BB-Tak, large 1.6 mm × 50 mm (2.4 mm/3.0 mm/3.5 mm)	VAR-8941BB*
BB-Tak, large, threaded 1.6 mm × 50 mm (2.4 mm/3.0 mm/3.5 mm)	VAR-8941TBB*
Guidewire w/ trocar tip, 1.3 mm × 150 mm (3.5 mm)	VAR-8937K*

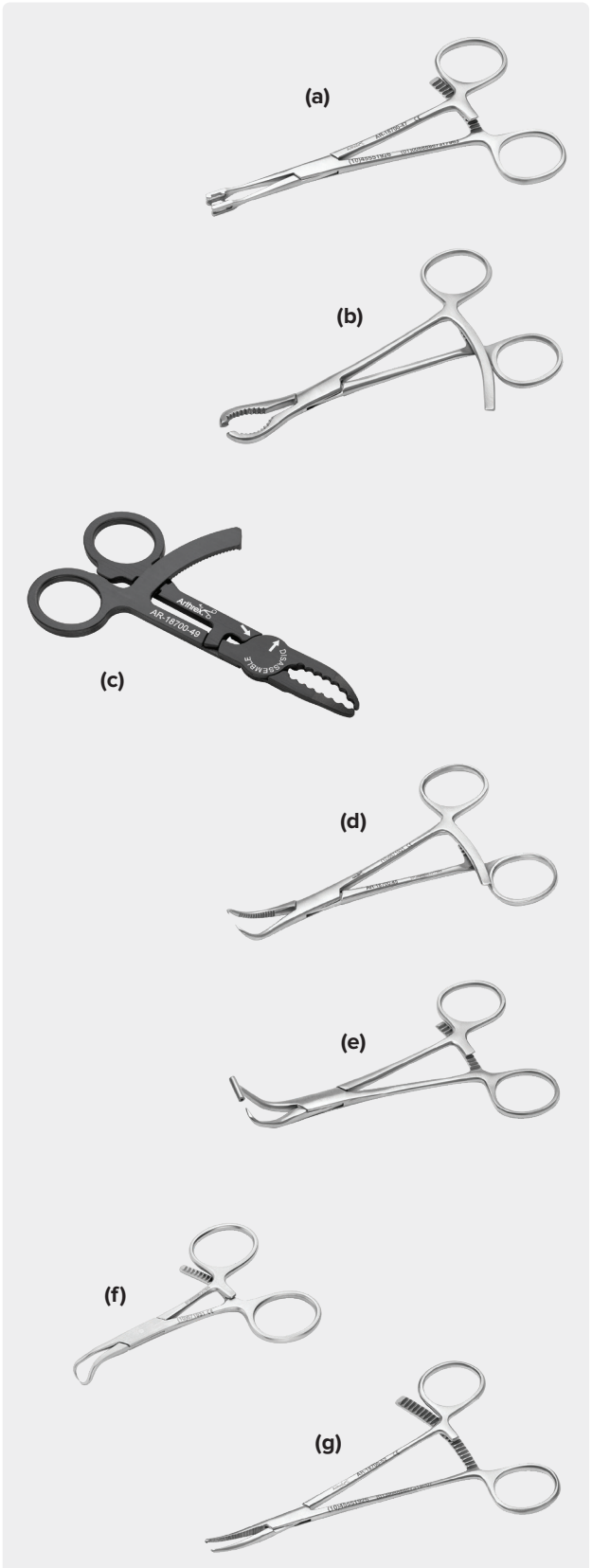
Compatible OrthoLine plate size is given in parentheses

*Not included in set

OrthoLine™ Cases and Caddies

Product Image	Product Description	Item Number
	OrthoLine system case	VAR-4000GC
	Generic case insert	VAR-4000GC-01
	1.6 mm Screw caddy	VAR-3016SC-01
	2.0 mm Screw caddy	VAR-3020SC-01
	2.4 mm Screw caddy	VAR-3024SC-01
	2.7 mm Screw caddy	VAR-4027SC-01
	3.0 mm Screw caddy	VAR-3030SC-01
	3.5 mm/4.0 mm Screw caddy	VAR-4035SC-02
	Bending plug caddy	VAR-4000BPC

The OrthoLine™ Fracture Reduction System

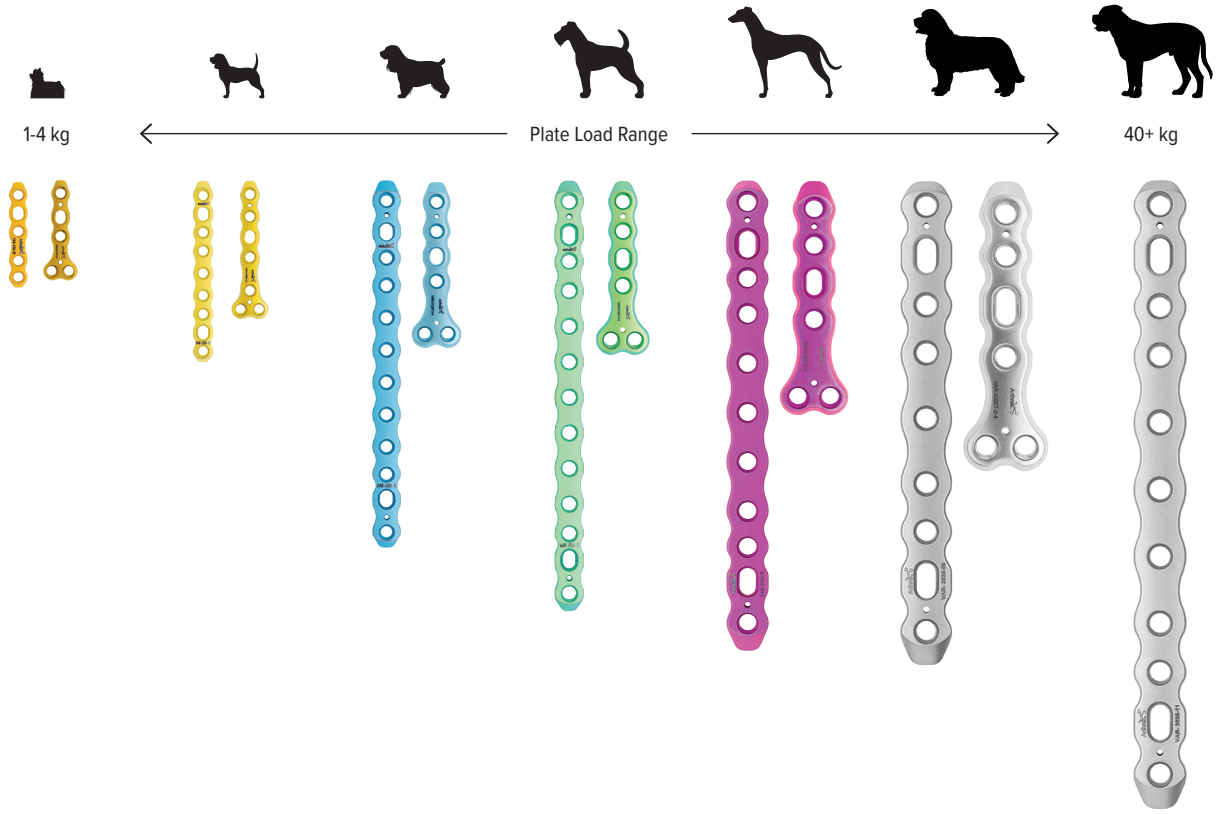


The OrthoLine fracture reduction system simplifies bone fracture relocation or transfer stability and aligns with the OrthoLine fracture management system. The strong, lightweight, carbon fiber, radiolucent lobster claw allows imaging-guided fracture reduction procedures that do not require removing clamps. The reduction forceps with guidewire hold a small bone in apposition during a fracture reduction. The clamp can help with insertion of cannulated screw guidewires.

Freer elevator	VAR-4000-10
Hohmann retractor, double-ended, 6/10 mm	VAR-4000-11
Ikuta clamp **(a)**	VAR-4000-12
Lobster clamp, mini **(b)**	VAR-4000-13
Lobster clamp, mini, radiolucent **(c)**	VAR-4000-14
Periosteal elevator, 6 mm, curved blade	VAR-4000-15
Pliers, needlenose	VAR-4000-16
Pointed reduction forceps **(d)**	VAR-4000-17
Reduction forceps, guidewire **(e)**	VAR-4000-18
Sharp hook	VAR-4000-19
Termite forceps **(f)**	VAR-4000-20
Toothed reduction forceps, Kocher **(g)**	VAR-4000-21

OrthoLine™ System Weight Reference Charts

Straight and T-Plates

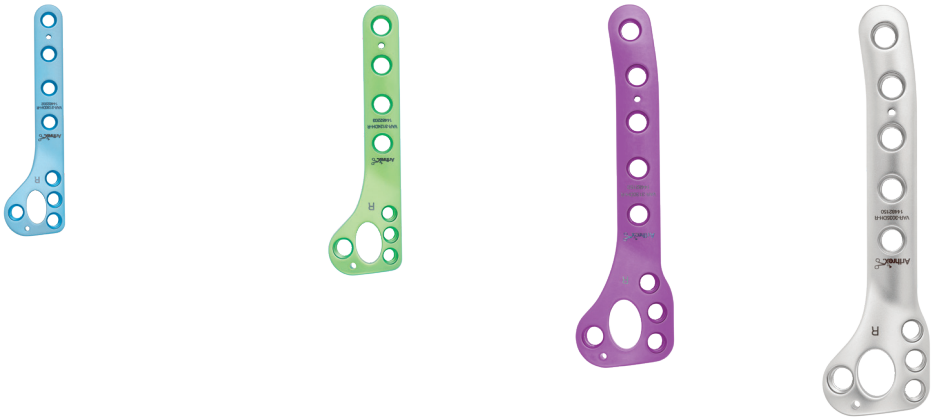


Straight Plate

	1-4 kg	4-8 kg	8-12 kg	13-19 kg	20-30 kg	31-45 kg	45-55+ kg
Radius	› 1.6 mm › 1.6B mm	2.0 mm	› 2.0 mm › 2.4 mm	3.0 mm	3.5 mm	3.5 mm	3.5 mm
Humerus	› 1.6 mm › 1.6B mm	2.0 mm	› 2.4 mm › 3.0 mm	› 3.0 mm › 3.5 mm	3.5 mm	3.5B mm	3.5B mm
Femur	› 1.6 mm › 1.6B mm	› 2.0 mm › 2.4 mm	› 2.4 mm › 3.0 mm	› 3.0 mm › 3.5 mm	3.5 mm	› 3.5 mm › 3.5B mm	3.5B mm
Tibia	› 1.6 mm › 1.6B mm	2.0 mm	2.4 mm	› 3.0 mm › 3.5 mm	3.5 mm	› 3.5 mm › 3.5B mm	3.5B mm
T-Plate	› 1.6 mm › 1.6B mm	2.0 mm	› 2.0 mm › 2.4 mm	3.0 mm	3.5 mm	3.5 mm	3.5 mm

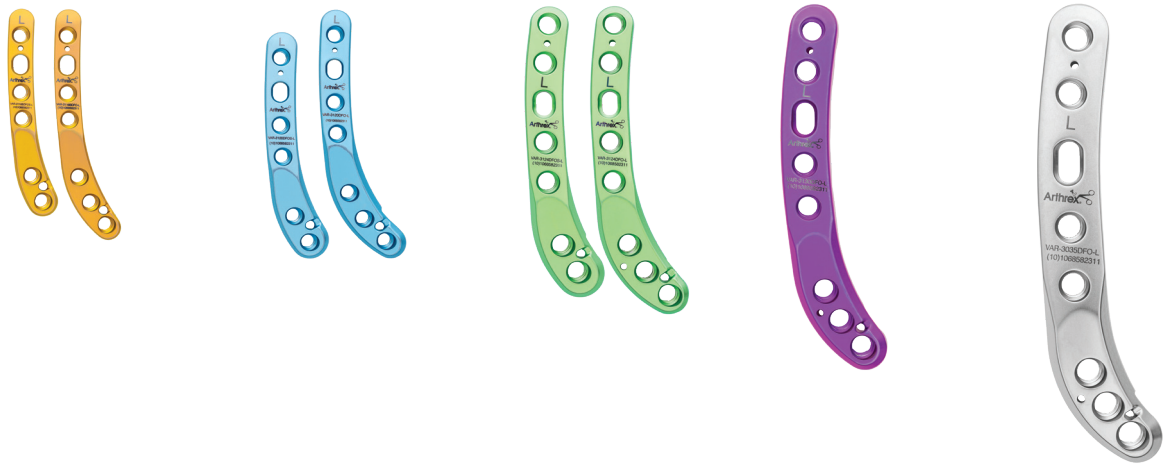
Distal Humeral Plate

	1-6 kg	6-8 kg	8-13 kg	13-20 kg	20-35 kg
Humerus	2.0 mm	2.0 mm	2.4 mm	3.0 mm	3.5 mm
Screw Range	1.6 mm/2.0 mm	2.0 mm	2.0 mm/2.4 mm	2.4 mm/3.0 mm	2.7 mm/3.5 mm



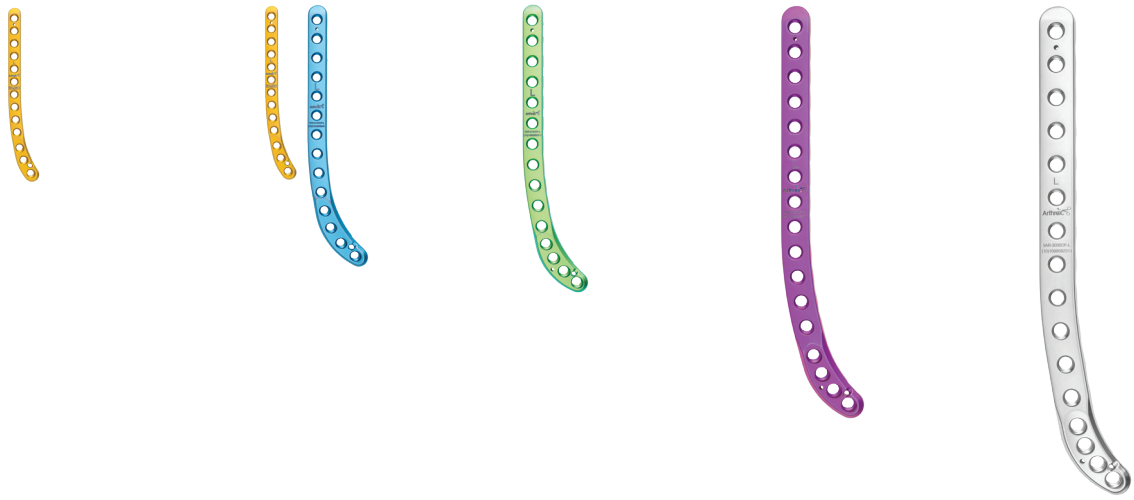
Distal Femur Osteotomy Plate

1-6 kg	6-8 kg	8-13 kg	13-20 kg	20-35 kg
1.6B mm	2.0 mm	2.4 mm	3.0 mm	3.5 mm



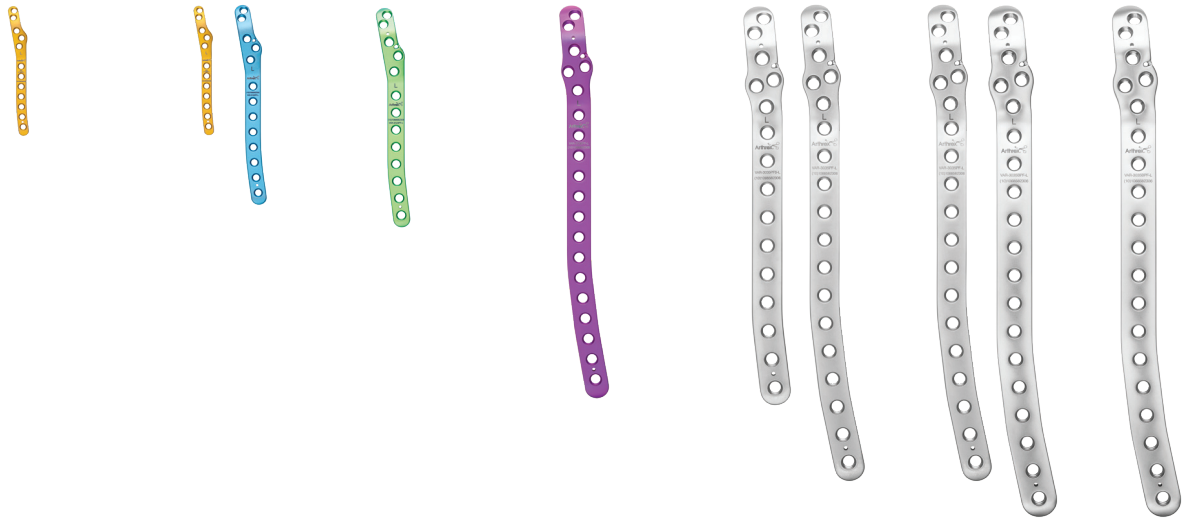
Distal Femoral Plate

1-6 kg	6-8 kg	8-13 kg	13-20 kg	20-35 kg
1.6B mm	1.6B mm/2.0 mm	2.4 mm	3.0 mm	3.5 mm



Proximal Femoral Plate

1-4 kg	4-6 kg	7-12 kg	13-19 kg	20-32 kg	31-46 kg	45-55 kg
1.6B mm	1.6B mm/2.0 mm	2.4 mm	3.0 mm	3.5 mm	3.5 mm/3.5B mm	3.5B mm



Radial Fracture Plate

1-6 kg	6-8 kg	8-13 kg	13-20 kg	20-35 kg
1.6 mm/1.6B mm	2.0 mm	2.4 mm	3.0 mm	3.5 mm





Ilial Fracture Plate

1-6 kg	6-8 kg	8-13 kg	13-20 kg	20-35 kg
1.6B mm	2.0 mm	2.4 mm	3.0 mm	3.5 mm





Screw and Drill Bit Reference Charts

Locking Screw and Drill Bit

	Product Image	Item Number	Thread Diameter	Screw Type	Length Range	Drill Bit	Drill Bit Number	Tap	Tap Number
T6 Hexalobe		VAR-8920L-XX	2.0 mm	Low-profile locking screw	› 6-14 mm, increments of one › 16-40 mm, increments of two	1.5 mm	VAR-4020D	2.0 mm	VAR-4020T
T8 Hexalobe		VAR-8924L-XX	2.4 mm	Low-profile locking screw	› 6-14 mm, increments of one › 16-40 mm, increments of two	1.8 mm	VAR-4024D	2.4 mm	VAR-4024T
T10 Hexalobe		VAR-8827L-XX	2.7 mm	Low-profile locking screw	› 10-34 mm, increments of two	2.0 mm	VAR-8944-22	2.7 mm	VAR-4027T
		VAR-8930L-XX	3.0 mm	Low-profile locking screw	› 8-50 mm, increments of two › 55 mm	2.3 mm	VAR-4030D	3.0 mm	VAR-4030T
T15 Hexalobe		VAR-8835L-XX	3.5 mm	Low-profile locking screw	› 8-60 mm, increments of two	2.8 mm	VAR-4035D	N/A	N/A
		VAR-8840L-XX	4.0 mm	Low-profile locking screw	› 18-60 mm, increments of two › 65 mm	3.5 mm	VAR-4040D	N/A	N/A
T20 Hexalobe		VAR-8845L-XX	4.5 mm	Low-profile locking screw	› 24-65 mm, increments of two › 65 mm	3.8 mm	VAR-4045D	N/A	N/A

Cortical Screw and Drill Bit

	Product Image	Item Number	Thread Diameter	Screw Type	Length Range	Drill Bit	Drill Bit Number	Tap	Tap Number
T6 Hexalobe		VAR-8916-XX	1.6 mm	Cortical screw	› 5-14 mm, increments of one › 16-24 mm, increments of two	1.1 mm	VAR-4016D	N/A	N/A
		VAR-8920-XX	2.0 mm	Cortical screw	› 6-14 mm, increments of one › 16-40 mm, increments of two	1.5 mm	VAR-4020D	2.0 mm	VAR-4020T
T8 Hexalobe		VAR-8924-XX	2.4 mm	Cortical screw	› 6-14 mm, increments of one › 16-40 mm, increments of two	1.8 mm	VAR-4024D	2.4 mm	VAR-4024T
T10 Hexalobe		VAR-8827-XX	2.7 mm	Cortical screw	› 10-34 mm, increments of two	2.0 mm	VAR-8944-22	2.7 mm	VAR-4027T
		VAR-8930-XX	3.0 mm	Cortical screw	› 8-50 mm, increments of two › 55 mm	2.3 mm	VR-4030D	3.0 mm	VAR-4030T
T15 Hexalobe		VAR-8835-XX	3.5 mm	Cortical screw	› 8-60 mm, increments of two › 65 mm	2.5 mm	VAR-8943-30	N/A	N/A
T20 Hexalobe		VAR-8845-XX	4.5 mm	Cortical screw	› 24 mm-60 mm, increments of two › 65 mm	3.0 mm	VAR-8970-30	N/A	N/A

Variable-Angle Screw and Drill Bit

	Product Image	Item Number	Thread Diameter	Screw Type	Length Range	Drill Bit	Drill Bit Number	Tap	Tap Number
T6 Hexalobe		VAR-8916V-XX	1.6 mm	Variable angle screw	› 5-14 mm, increments of one › 16-24 mm, increments of two	1.1 mm	VAR-4016D	N/A	N/A
		VAR-8920V-XX	2.0 mm	Variable angle screw	› 6-14 mm, increments of one › 16-40 mm, increments of two	1.5 mm	VAR-4020D	2.0 mm	VAR-4020T
T8 Hexalobe		VAR-8924V-XX	2.4 mm	Variable angle screw	› 6-14 mm, increments of one › 16-40 mm, increments of two	1.8 mm	VAR-4024D	2.4 mm	VAR-4024T
T10 Hexalobe		VAR-8930V-XX	3.0 mm	Variable angle screw	› 8-50 mm, increments of two › 55 mm	2.3 mm	VAR-4030D	3.0 mm	VAR-4030T

OrthoLine™ System Fracture Plate Sizing Charts

1.6 mm Plates

	Product Image	Item Number	Max Width (mm)	Length (mm)	Max Thickness (mm)	Screw Holes	K-Wire Hole Size (mm)
Straight Plate, Ti*, 1.6 mm		VAR-3116-05	5.0	29.0	1.4	5 holes	
		VAR-3116-06	5.0	34.5	1.4	6 holes	
		VAR-3116-07	5.0	39.5	1.4	7 holes	
Straight Plate, Broad, Ti*, 1.6 mm		VAR-3116B-05	5.5	29.5	1.74	5 holes	
		VAR-3116B-06	5.5	35.0	1.74	6 holes	
		VAR-3116B-07	5.5	40.0	1.74	7 holes	
		VAR-3116B-08	5.5	45.0	1.74	8 holes	
		VAR-3116B-09	5.5	49.0	1.74	9 holes	
		VAR-3116B-10	5.5	55.0	1.74	10 holes	
T-Plate, Ti*, 1.6 mm		VAR-3116T-2-3	5.0	26.2	1.41	2 holes / 3 holes	0.86 × 80 VAR-8929K
T-Plate, Broad, Ti*, 1.6 mm		VAR-3116BT-2-3	5.5	26.6	1.75	2 holes / 3 holes	0.86 × 80 VAR-8929K
		VAR-3116BT-3-4	5.5	37.5	1.75	3 holes / 4 holes	0.86 × 80 VAR-8929K

*Ti = titanium

2.0 mm Plates

	Product Image	Item Number	Max Width (mm)	Length (mm)	Max Thickness (mm)	Screw Holes	K-Wire Hole Size (mm)
Straight Plate, Ti*, 2.0 mm		VAR-3120-06	6.2	43.0	2.34	6 holes	0.86 × 80 VAR-8929K
		VAR-3120-07	6.2	49.0	2.34	7 holes	0.86 × 80 VAR-8929K
		VAR-3120-08	6.2	55.0	2.34	8 holes	0.86 × 80 VAR-8929K
		VAR-3120-09	6.2	59.0	2.34	9 holes	0.86 × 80 VAR-8929K
		VAR-3120-10	6.2	66.0	2.34	10 holes	0.86 × 80 VAR-8929K
		VAR-3120-11	6.2	73.0	2.34	11 holes	0.86 × 80 VAR-8929K
		VAR-3120-12	6.2	80.0	2.34	12 holes	0.86 × 80 VAR-8929K
		VAR-3120-13	6.2	87.0	2.34	13 holes	0.86 × 80 VAR-8929K
		VAR-3120-14	6.2	94.0	2.34	14 holes	0.86 × 80 VAR-8929K
		VAR-3120-15	6.2	101.0	2.34	15 holes	0.86 × 80 VAR-8929K
T-Plate, Ti*, 2.0 mm		VAR-3120T-2-4	6.2	36.7	2.07	2 holes / 4 holes	0.86 × 80 VAR-8929K
		VAR-3120T-2-6	6.2	45.7	2.2	2 holes / 6 holes	0.86 × 80 VAR-8929K
		VAR-3120T-3-4	6.2	41.75	2.07	3 holes / 4 holes	0.86 × 80 VAR-8929K
		VAR-3120T-3-6	6.2	50.7	2.2	3 holes / 6 holes	0.86 × 80 VAR-8929K

*Ti = titanium

2.4 mm Plates

	Product Image	Item Number	Max Width (mm)	Length (mm)	Max Thickness (mm)	Screw Holes	K-Wire Hole Size (mm)
Straight Plate, Ti*, 2.4 mm		VAR-3124-06	7.5	52.5	2.85	6 holes	1.14 × 150 VAR-8933K
		VAR-3124-07	7.5	60.0	2.85	7 holes	1.14 × 150 VAR-8933K
		VAR-3124-08	7.5	67.5	2.85	8 holes	1.14 × 150 VAR-8933K
		VAR-3124-09	7.5	73.5	2.85	9 holes	1.14 × 150 VAR-8933K
		VAR-3124-10	7.5	82.5	2.85	10 holes	1.14 × 150 VAR-8933K
		VAR-3124-11	7.5	91.5	2.85	11 holes	1.14 × 150 VAR-8933K
		VAR-3124-12	7.5	100.5	2.85	12 holes	1.14 × 150 VAR-8933K
		VAR-3124-13	7.5	109.5	2.85	13 holes	1.14 × 150 VAR-8933K
		VAR-3124-14	7.5	118.5	2.85	14 holes	1.14 × 150 VAR-8933K
		VAR-3124-15	7.5	127.5	2.85	15 holes	1.14 × 150 VAR-8933K
T-Plate, Ti*, 2.4 mm		VAR-3124T-2-4	7.5	43.83	2.6	2 holes / 4 holes	1.14 × 150 VAR-8933K
		VAR-3124T-2-6	7.5	55.3	2.7	2 holes / 6 holes	1.14 × 150 VAR-8933K
		VAR-3124T-3-4	7.5	49.95	2.6	3 holes / 4 holes	1.14 × 150 VAR-8933K
		VAR-3124T-3-6	7.5	62.8	2.7	3 holes / 6 holes	1.14 × 150 VAR-8933K

*Ti = titanium

3.0 mm Plates

	Product Image	Item Number	Max Width (mm)	Length (mm)	Max Thickness (mm)	Screw Holes	K-Wire Hole Size (mm)
Straight Plate, Ti*, 3.0 mm		VAR-3130-06	9.5	60.5	3.53	6 holes	1.14 × 150 VAR-8933K
		VAR-3130-07	9.5	68.5	3.53	7 holes	1.14 × 150 VAR-8933K
		VAR-3130-08	9.5	76.5	3.53	8 holes	1.14 × 150 VAR-8933K
		VAR-3130-09	9.5	83.5	3.53	9 holes	1.14 × 150 VAR-8933K
		VAR-3130-10	9.5	94.5	3.53	10 holes	1.14 × 150 VAR-8933K
		VAR-3130-11	9.5	105.5	3.53	11 holes	1.14 × 150 VAR-8933K
		VAR-3130-12	9.5	116.5	3.53	12 holes	1.14 × 150 VAR-8933K
		VAR-3130-13	9.5	127.5	3.53	13 holes	1.14 × 150 VAR-8933K
		VAR-3130-14	9.5	138.5	3.53	14 holes	1.14 × 150 VAR-8933K
		VAR-3130-15	9.5	149.5	3.53	15 holes	1.14 × 150 VAR-8933K
		VAR-3130-16	9.5	160.5	3.53	16 holes	1.14 × 150 VAR-8933K
		VAR-3130-17	9.5	171.5	3.53	17 holes	1.14 × 150 VAR-8933K

*Ti = titanium

	Product Image	Item Number	Max Width (mm)	Length (mm)	Max Thickness (mm)	Screw Holes	K-Wire Hole Size (mm)
Straight Plate, Ti*, 3.0 mm		VAR-3130-18	9.5	182.5	3.25	18 holes	1.14 × 150 VAR-8933K
		VAR-3130-19	9.5	193.5	3.25	19 holes	1.14 × 150 VAR-8933K
		VAR-3130-20	9.5	204.5	3.25	20 holes	1.14 × 150 VAR-8933K
		VAR-3130-21	9.5	215.5	3.25	21 holes	1.14 × 150 VAR-8933K
		VAR-3130-22	9.5	226.5	3.25	22 holes	1.14 × 150 VAR-8933K
T-Plate, Ti*, 3.0 mm		VAR-3130T-2-4	9.5	51.9	3.25	2 holes / 4 holes	1.14 × 150 VAR-8933K
		VAR-3130T-2-6	9.5	64.8	3.4	2 holes / 6 holes	1.14 × 150 VAR-8933K
		VAR-3130T-2-8	9.5	82.8	3.4	2 holes / 8 holes	1.14 × 150 VAR-8933K
		VAR-3130T-3-4	9.5	59.05	3.25	3 holes / 4 holes	1.14 × 150 VAR-8933K
		VAR-3130T-3-6	9.5	71.9	3.4	3 holes / 6 holes	1.14 × 150 VAR-8933K
		VAR-3130T-3-8	9.5	95.9	3.4	3 holes / 8 holes	1.14 × 150 VAR-8933K
		VAR-3130T-3-13	9.5	148.4	3.6	3 holes / 13 holes	1.14 × 150 VAR-8933K

*Ti = titanium

3.5 mm Plates

	Product Image	Item Number	Max Width (mm)	Length (mm)	Max Thickness (mm)	Screw Holes	K-Wire Hole Size (mm)
Straight Plate, SS*, 3.5 mm		VAR-3035-06	12.0	78.0	4.0	6 holes	1.3 × 150 VAR-8937K
		VAR-3035-07	12.0	89.0	4.0	7 holes	1.3 × 150 VAR-8937K
		VAR-3035-08	12.0	100.0	4.0	8 holes	1.3 × 150 VAR-8937K
		VAR-3035-09	12.0	111.5	4.0	9 holes	1.3 × 150 VAR-8937K
		VAR-3035-10	12.0	126.5	4.0	10 holes	1.3 × 150 VAR-8937K
		VAR-3035-11	12.0	141.5	4.0	11 holes	1.3 × 150 VAR-8937K
		VAR-3035-12	12.0	156.5	4.0	12 holes	1.3 × 150 VAR-8937K
		VAR-3035-13	12.0	171.5	4.0	13 holes	1.3 × 150 VAR-8937K
		VAR-3035-14	12.0	186.5	4.0	14 holes	1.3 × 150 VAR-8937K
		VAR-3035-15	12.0	201.5	4.0	15 holes	1.3 × 150 VAR-8937K
		VAR-3035-16	12.0	216.5	4.0	16 holes	1.3 × 150 VAR-8937K
		VAR-3035-17	12.0	231.5	4.0	17 holes	1.3 × 150 VAR-8937K

*SS = stainless steel

	Product Image	Item Number	Max Width (mm)	Length (mm)	Max Thickness (mm)	Screw Holes	K-Wire Hole Size (mm)
Straight Plate, SS*, 3.5 mm		VAR-3035-18	12.0	246.5	4.0	18 holes	1.3 × 150 VAR-8937K
		VAR-3035-19	12.0	261.5	4.0	19 holes	1.3 × 150 VAR-8937K
		VAR-3035-20	12.0	276.5	4.0	20 holes	1.3 × 150 VAR-8937K
Straight Plate, Broad, SS*, 3.5 mm		VAR-3035B-18	12.0	269	4.0	18 holes	1.3 × 150 VAR-8937K
		VAR-3035B-19	12.0	285	4.0	19 holes	1.3 × 150 VAR-8937K
		VAR-3035B-20	12.0	301	4.0	20 holes	1.3 × 150 VAR-8937K

*SS = stainless steel

	Product Image	Item Number	Max Width (mm)	Length (mm)	Max Thickness (mm)	Screw Holes	K-Wire Hole Size (mm)
Straight Plate, Broad, SS*, 3.5 mm		VAR-3035B-08	14.0	111.5	5.1	8 holes	1.3 × 150 VAR-8937K
		VAR-3035B-09	14.0	125.0	5.1	9 holes	1.3 × 150 VAR-8937K
		VAR-3035B-10	14.0	141.0	5.1	10 holes	1.3 × 150 VAR-8937K
		VAR-3035B-11	14.0	157.0	5.1	11 holes	1.3 × 150 VAR-8937K
		VAR-3035B-12	14.0	173.0	5.1	12 holes	1.3 × 150 VAR-8937K
		VAR-3035B-13	14.0	189.0	5.1	13 holes	1.3 × 150 VAR-8937K
		VAR-3035B-14	14.0	205.0	5.1	14 holes	1.3 × 150 VAR-8937K
		VAR-3035B-15	14.0	221.0	5.1	15 holes	1.3 × 150 VAR-8937K
		VAR-3035B-16	14.0	237.0	5.1	16 holes	1.3 × 150 VAR-8937K
		VAR-3035B-17	14.0	253.0	5.1	17 holes	1.3 × 150 VAR-8937K
		VAR-3035B-18	14.0	269.0	5.1	18 holes	1.3 × 150 VAR-8937K
		VAR-3035B-19	14.0	285.0	5.1	19 holes	1.3 × 150 VAR-8937K
		VAR-3035B-20	14.0	301.0	5.1	20 holes	1.3 × 150 VAR-8937K

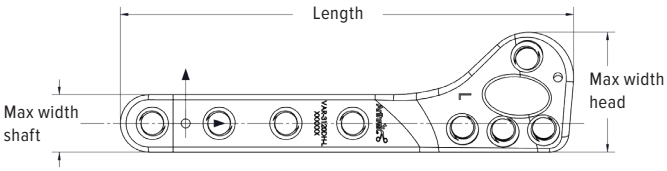
*SS = stainless steel

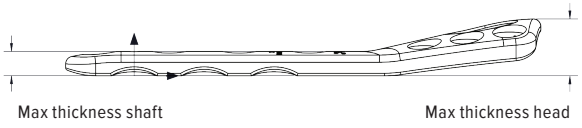
	Product Image	Item Number	Max Width (mm)	Length (mm)	Max Thickness (mm)	Screw Holes	K-Wire Hole Size (mm)
T-Plate, SS*, 3.5 mm		VAR-3035T-2-4	12.0	65.33	3.52	2 holes / 4 holes	1.3 × 150 VAR-8937K
		VAR-3035T-2-6	12.0	82.8	3.8	2 holes / 6 holes	1.3 × 150 VAR-8937K
		VAR-3035T-2-8	12.0	107.8	3.8	2 holes / 8 holes	1.3 × 150 VAR-8937K
		VAR-3035T-3-4	12.0	73.7	3.52	3 holes / 4 holes	1.3 × 150 VAR-8937K
		VAR-3035T-3-6	12.0	90.4	3.8	3 holes / 6 holes	1.3 × 150 VAR-8937K
		VAR-3035T-3-8	12.0	127.2	3.8	3 holes / 8 holes	1.3 × 150 VAR-8937K
		VAR-3035T-3-12	12.0	183.3	4.0	3 holes / 12 holes	1.3 × 150 VAR-8937K

*SS = stainless steel

Distal Humeral Plate

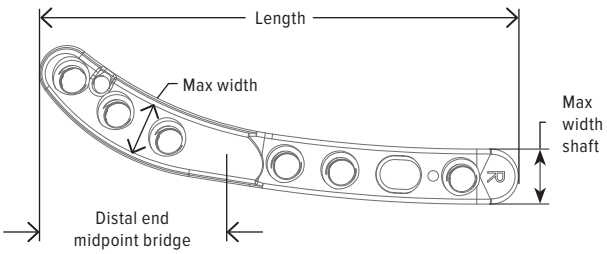
	Product Image	Item Number	Length (mm)	Max Thickness Head (mm)	Max Thickness Shaft (mm)	Max Width Head (mm)	Max Width Shaft (mm)
Distal Humeral Plate Ti, 2.0 mm		VAR-3120DH-L	48.2	4.2	2.4	12.7	6.0
		VAR-3120DH-R					
Distal Humeral Plate Ti, 2.4 mm		VAR-3124DH-L	55.8	5.6	3.2	15.2	7.6
		VAR-3124DH-R					
Distal Humeral Plate Ti, 3.0 mm		VAR-3130DH-L	75.5	8.3	4.0	20.3	9.1
		VAR-3130DH-R					
Distal Humeral Plate SS, 3.5 mm		VAR-3035DH-L	85.2	9.2	4.4	22.3	10.6
		VAR-3035DH-R					

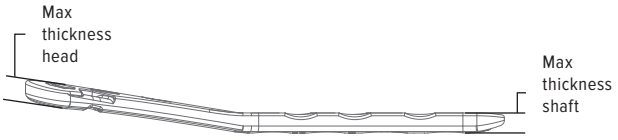




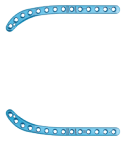
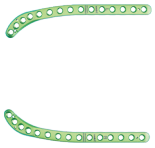
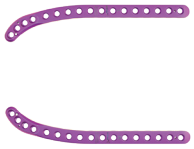
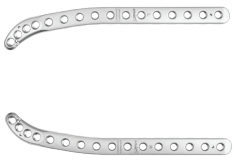
Distal Femur Osteotomy Plate

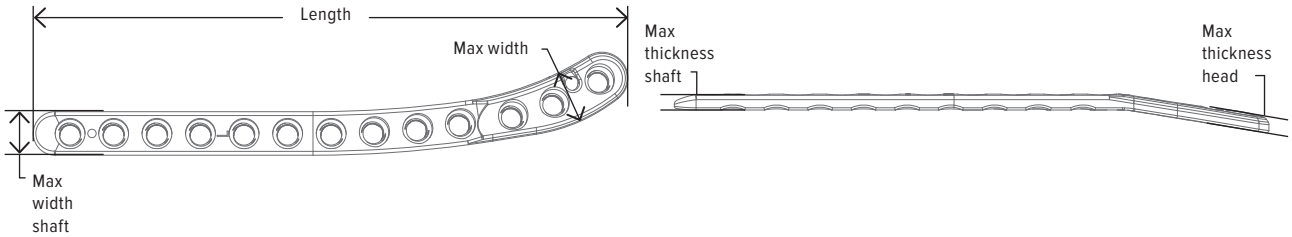
	Product Image	Item Number	Length (mm)	Max Thickness Head (mm)	Max Thickness Shaft (mm)	Max Width Head (mm)	Max Width Shaft (mm)
Distal Femur Osteotomy Plate, Ti, Broad, Short, 1.6 mm		VAR-3116BDFOS-L VAR-3116BDFOS-R	39.4	1.8	1.8	6.04	5.0
Distal Femur Osteotomy Plate, Ti, Broad, 1.6 mm		VAR-3116BDFO-L VAR-3116BDFO-R	43.5	2.1	1.8	6.04	5.0
Distal Femur Osteotomy Plate, Ti, Short, 2.0 mm		VAR-3120DFOS-L VAR-3120DFOS-R	42.7	2.5	2.3	7.4	6.0
Distal Femur Osteotomy Plate, Ti, 2.0 mm		VAR-3120DFO-L VAR-3120DFO-R	46.9	3.1	2.3	7.4	6.0
Distal Femur Osteotomy Plate, Ti, Short, 2.4 mm		VAR-3124DFOS-L VAR-3124DFOS-R	54.5	3.07	3.07	9.7	7.3
Distal Femur Osteotomy Plate, Ti, 2.4 mm		VAR-3124DFO-L VAR-3124DFO-R	57.3	3.6	3.07	9.7	7.3
Distal Femur Osteotomy Plate, Ti, 3.0 mm		VAR-3130DFO-L VAR-3130DFO-R	72.7	3.5	3.6	10.5	9.3
Distal Femur Osteotomy Plate, SS, 3.5 mm		VAR-3035DFO-L VAR-3035DFO-R	85.6	4.1	4.3	13.05	11.9



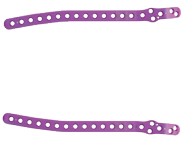


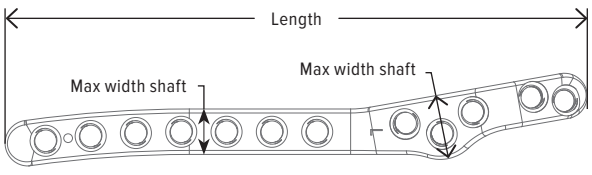
Distal Femur Fracture Plate

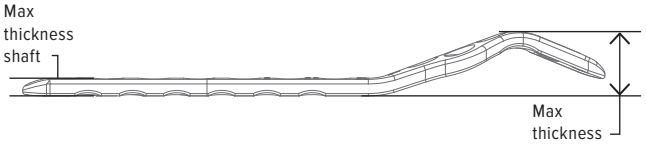
	Product Image	Item Number	Length (mm)	Max Thickness Head (mm)	Max Thickness Shaft (mm)	Max Width Head (mm)	Max Width Shaft (mm)
Distal Femur Plate, Ti, Broad, 1.6 mm		VAR-3116BDF-L VAR-3116BDF-R	68.3	1.9	1.8	6.1	5.0
Distal Femur Plate, Ti, 2.0 mm		VAR-3120DF-L VAR-3120DF-R	81.6	3.1	2.3	7.4	6.0
Distal Femur Plate, Ti, 2.4 mm		VAR-3124DF-L VAR-3124DF-R	104.4	3.5	2.8	9.6	7.3
Distal Femur Plate, Ti, 3.0 mm		VAR-3130DF-R VAR-3130DF-L	131.8	3.6	3.6	10.6	9.3
Distal Femur Plate, SS, 3.5 mm		VAR-3035DF-L VAR-3035DF-R	161.3	4.2	4.3	13.05	11.9



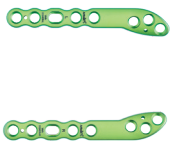
Proximal Femur Plate

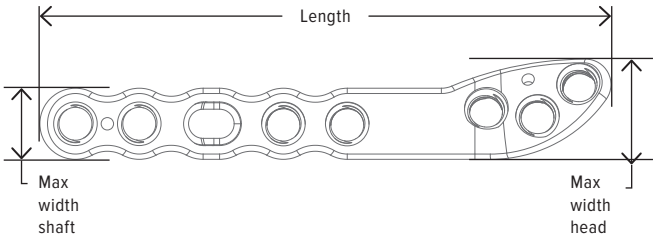
	Product Image	Item Number	Length (mm)	Max Thickness Head (mm)	Max Thickness Shaft (mm)	Max Width Head (mm)	Max Width Shaft (mm)
Proximal Femur Plate, Ti, Broad, 1.6 mm		VAR-3116BPF-L VAR-3116BPF-R	64.2	7.0	1.9	7.0	5.0
Proximal Femur Plate, Ti, 2.0 mm		VAR-3120PF-L VAR-3120PF-R	78.6	7.9	2.2	8.1	6.1
Proximal Femur Plate, Ti, 2.4 mm		VAR-3124PF-L VAR-3124PF-R	96.5	9.7	2.9	9.5	7.6
Proximal Femur Plate, Ti, 3.0 mm		VAR-3130PF-L VAR-3130PF-R	154.3	11.5	3.6	12.6	9.4
Proximal Femur Plate, SS, Short, 3.5 mm		VAR-3035PFS-L VAR-3035PFS-R	155.1	13.0	4.3	15.2	11.9
Proximal Femur Plate, SS, 3.5 mm		VAR-3035PF-L VAR-3035PF-R	188.1	13.0	4.3	15.2	11.9
Proximal Femur Plate, SS, Broad, 3.5 mm		VAR-3035BPF-L VAR-3035BPF-R	201.7	14.3	5.5	17.7	14.0

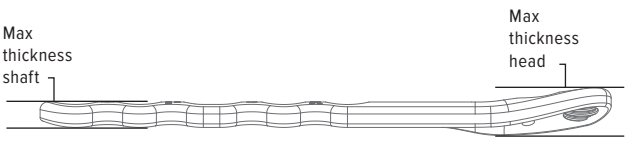




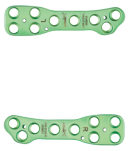
Distal Radial Fracture Plate

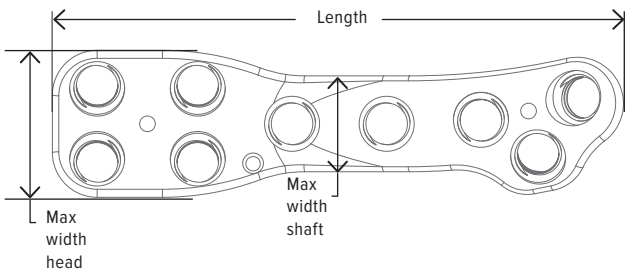
	Product Image	Item Number	Length (mm)	Max Thickness Head (mm)	Max Thickness Shaft (mm)	Max Width Head (mm)	Max Width Shaft (mm)
Distal Radial Plate, Ti, 1.6 mm		VAR-3116DR-L VAR-3116DR-R	39.0	2.6	1.4	7.3	5.0
Distal Radial Plate, Ti, Broad, 1.6 mm		VAR-3116BDR-L VAR-3116BDR-R	42.3	3.1	1.8	7.9	5.4
Distal Radial Plate, Ti, 2.0 mm		VAR-3120DR-L VAR-3120DR-R	46.9	3.7	1.9	8.8	5.7
Distal Radial Plate, Ti, 2.4 mm		VAR-3124DR-L VAR-3124DR-R	57.2	4.7	2.5	10.0	7.1
Distal Radial Plate, Ti, 3.0 mm		VAR-3130DR-L VAR-3130DR-R	64.1	5.4	3.2	11.6	8.8
Distal Radial Plate, SS, 3.5 mm		VAR-3035DR-L VAR-3035DR-R	80.1	6.3	4.1	13.6	11.4

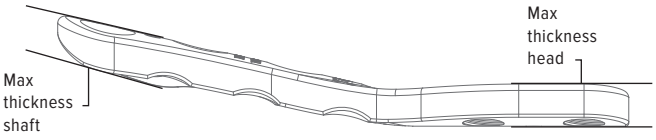




Ilial Fracture Plate

	Product Image	Item Number	Length (mm)	Max Thickness Head (mm)	Max Thickness Shaft (mm)	Max Width Head (mm)	Max Width Shaft (mm)
Ilial Fracture Plate, Ti, 1.6 mm		VAR-3116I-L	35.8	1.8	2.0	7.9	5.0
		VAR-3116I-R					
Ilial Fracture Plate, Ti, 2.0 mm		VAR-3120I-L	38.0	2.5	2.7	9.1	6.1
		VAR-3120I-R					
Ilial Fracture Plate, Ti, 2.4 mm		VAR-3124I-L	45.3	3.3	3.5	11.6	7.6
		VAR-3124I-R					
Ilial Fracture Plate, Ti, 3.0 mm		VAR-3130I-L	60.8	3.9	5.2	13.4	9.4
		VAR-3130I-R					
Ilial Fracture Plate, SS, 3.5 mm		VAR-3035I-L	71.0	4.3	6.2	14.7	10.9
		VAR-3035I-R					
Ilial Fracture Plate, Long, SS, 3.5 mm		VAR-3035IL-L	94.3	4.3	6.4	14.7	10.9
		VAR-3035IL-R					





Cuttable Plate

	Product Image	Item Number	Length (mm)	Max Thickness (mm)	Max Width (mm)
Cuttable Plate, Ti, 1.6 mm		VAR-3116C-30	170.1	1.4	5.0
		VAR-3116CT-21	148.2	1.4	9.4
Cuttable Plate, Ti, broad, 1.6 mm		VAR-3116BC-30	170.1	1.8	5.5
		VAR-3116BCT-21	148.5	1.8	10.0
Cuttable Plate, Ti, 2.0 mm		VAR-3120C-36	242.2	2.3	6.2
		VAR-3120CT-30	237.4	2.3	12.4
Cuttable Plate, Ti, 2.4 mm		VAR-3124C-29	242.8	2.9	7.5
		VAR-3124CT-23	239.0	2.9	14.5

Reference Charts

Compression Movement Using Nonlocking Drill Guides

Size	50% Compression	100% Compression
1.6 mm	0.22	1.0 mm
2.0 mm	0.22	0.58 mm
2.4 mm	0.32	1.05 mm
3.0 mm	0.79	1.80 mm
3.5 mm	1.27	2.96 mm

When referring to 50% of the compression hole, this reference is 50% of the hole and not 50% of the ramp.

Screw Hole to Screw Hole Spacing

Straight Plates

	Long Taper Hole Distances			Short Taper Hole Distances			
FG number	Hole 1-2 (Dimension 1)	Hole 2-3 (Dimension 2)	Hole 3-4 (Transition hole; Dimension 3)	Hole 1-2 (Dimension 4)	Hole 2-3 (Dimension 5)	Hole 3-4 (Transition hole; Dimension 6)	Center Holes (Dimension 7)
VAR-3035B-08	11 mm	11 mm	13 mm	11 mm	11 mm	13 mm	N/A
VAR-3035B-09	11 mm	11 mm	13 mm	11 mm	11 mm	13 mm	1 × 16 mm
VAR-3035B-10	11 mm	11 mm	13 mm	11 mm	11 mm	13 mm	2 × 16 mm
VAR-3035B-11	11 mm	11 mm	13 mm	11 mm	11 mm	13 mm	3 × 16 mm
VAR-3035B-12	11 mm	11 mm	13 mm	11 mm	11 mm	13 mm	4 × 16 mm
VAR-3035B-13	11 mm	11 mm	13 mm	11 mm	11 mm	13 mm	5 × 16 mm
VAR-3035B-14	11 mm	11 mm	13 mm	11 mm	11 mm	13 mm	6 × 16 mm
VAR-3035B-15	11 mm	11 mm	13 mm	11 mm	11 mm	13 mm	7 × 16 mm
VAR-3035B-16	11 mm	11 mm	13 mm	11 mm	11 mm	13 mm	8 × 16 mm
VAR-3035B-17	11 mm	11 mm	13 mm	11 mm	11 mm	13 mm	9 × 16 mm
VAR-3035B-18	11 mm	11 mm	13 mm	11 mm	11 mm	13 mm	10 × 16 mm
VAR-3035B-19	11 mm	11 mm	13 mm	11 mm	11 mm	13 mm	11 × 16 mm
VAR-3035B-20	11 mm	11 mm	13 mm	11 mm	11 mm	13 mm	12 × 16 mm

T-Plates

FG number	Hole 1-2 (Dimension 1)	Hole 2-3 (Dimension 2)	Hole 3-4 (Dimension 3)	Hole 4-6 (Dimension 4)	Hole 5-6 (Dimension 5)	Hole 6-7 (Dimension 6)	Hole 4-8 (Dimension 7)
VAR-3035T-2-4	9.5 mm	9.5 mm	9.5 mm	20.0 mm	N/A	8.8 mm	N/A
VAR-3035T-3-4	9.5 mm	9.5 mm	9.5 mm	28.5 mm	8.5 mm	10 mm	N/A
VAR-3035T-2-6	9.5 mm	9.5 mm	9.5 mm	20.0 mm	N/A	8.8 mm	2 × 9.5 mm
VAR-3035T-3-6	9.5 mm	9.5 mm	9.5 mm	28.5 mm	8.5 mm	10 mm	2 × 9.5 mm
VAR-3035T-2-8	9.5 mm	9.5 mm	9.5 mm	20.0 mm	N/A	8.8 mm	4 × 11 mm
VAR-3035T-3-8	9.5 mm	9.5 mm	9.5 mm	23.5 mm	8.5 mm	10 mm	4 × 15 mm
VAR-3035T-3-12	9.5 mm	9.5 mm	9.5 mm	23.5 mm	8.5 mm	10 mm	8 × 15 mm

Tips and Tricks

- If the K-wire is interfering with the locking drill guide, cut the K-wire to 10 mm or less to avoid interference
- The bending irons are designed to snuggly fit the straight plates; you may need to upsize or downsize the iron for other plate designs
- 1.6 mm with a bending plug will not fit in the 1.6 mm bending irons; you can use the 2.0 mm irons or bending pliers (VAR-4000-16)
- The straight plates can be bent in plane across the larger hole-to-hole spacing
- Screwdrivers are designed with softer material to help avoid screw stripping, care should be taken to not overtorque the driver, or you could result in a damaged screwdriver
- When tightening a screw, care should be taken not to overtorque the screwdriver
- The 1.6 mm/2.0 mm T6 driver is the most susceptible to deformation because it requires the least amount of torque to fail
- When referring to 50% of the compression hole, this reference is 50% of the hole and not 50% of the ramp
- Minimal compression can be achieved using the far ends of the slide hole
- Care should be taken when using the compression hole to not overcompress; screw stripping or other failure can occur if overcompression occurs
- The 3.0 mm cortical screw can be used in the 2.4 mm plate if stripping of the 2.4 mm screw occurs
- Care should be taken to note specific screw trajectories prior to placing the anatomic plates
- The K-wire drill sleeve can be used to note trajectory of a locking screw hole

The OrthoLine system includes many anatomic plating options. Effective understanding of the trajectory of each screw allows surgeons to avoid certain frustrating errors during surgery. For example, cross-threading of the locking drill guide (LDG) can result in cross-threading of the screw, damaging the plate's threads, or implanting a screw in an undesired location or at an undesirable trajectory. However, proper threading of the LDG prevents all of these potential issues.

To ensure proper seating, first turn the LDG counterclockwise until a click is heard. If no click is heard, adjust the angle slightly until you hear one. The click signals that the correct trajectory is likely reached. Initiate a clockwise turn to seat the guide. It is recommended to have a second plate on the sterile field with screws already placed to serve as a visual reference of each screw's trajectory.

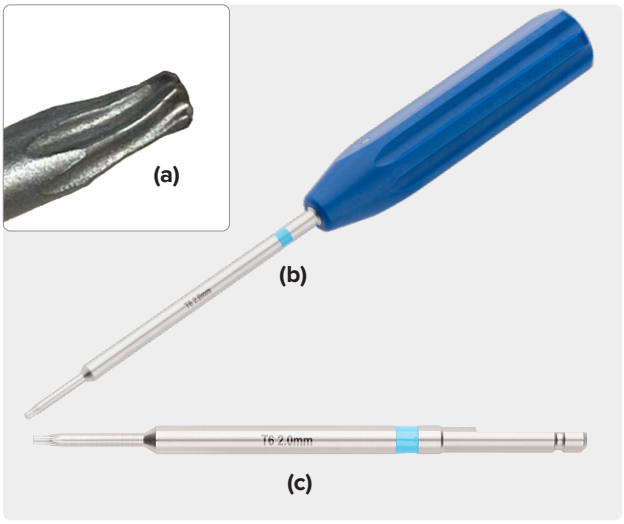


Figure 1. Deformed driver tip **(a)**, T6 screwdriver **(b)** and T6 driver **(c)**

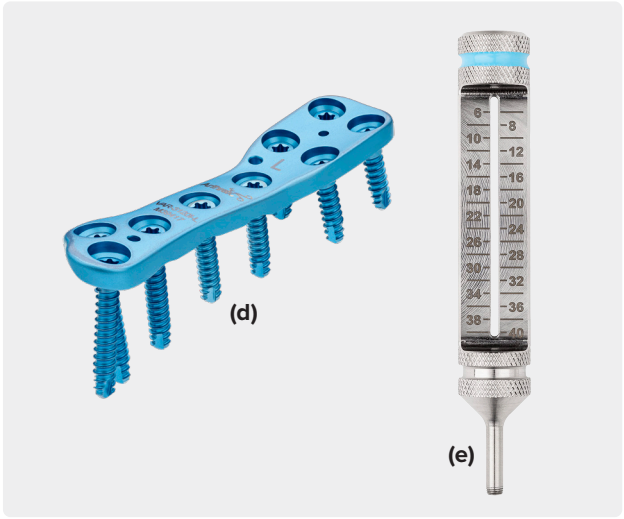


Figure 2. 2.0 mm ilial fracture plate **(d)** and 2.0 mm locking drill guide **(e)**

Notes

This description of technique is provided as an educational tool and clinical aid to assist properly licensed medical professionals in the usage of specific Arthrex products. As part of this professional usage, the medical professional must use their professional judgment in making any final determinations in product usage and technique. In doing so, the medical professional should rely on their own training and experience, and should conduct a thorough review of pertinent medical literature and the product's directions for use. Postoperative management is patient-specific and dependent on the treating professional's assessment. Individual results will vary and not all patients will experience the same postoperative activity level or outcomes.

Arthrex manufacturer, authorized representative, and importer information (Arthrex eIFUs)

US patent information

arthrexvetsystems.com