

Knee spanning solutions



System features

Indications

Intended to be used on adults or pediatric patients as required for fracture fixation (open or closed); post-traumatic joint contracture which has resulted in loss of range of motion; fractures and disease which generally may result in joint contractures or loss of range of motion and fractures requiring distraction; pseudoarthrosis of long bones; limb lengthening by epiphyseal or metaphyseal distraction; correction of bony or soft tissue deformity; correction of segmental bony or soft tissue defects; infected fractures or non-unions; joint arthrodesis; and management of comminuted intra-articular fracture of the distal radius.



Freedom Bar-to-Pin Clamp



Freedom Bar-to-Bar Clamp



Quick Bar-to-Pin Clamp



Quick Bar-to-Bar Clamp

Designed for flexibility in frame construction and ease of use

- Freedom Clamps provide the ability to angle pins up to 50° and also allow linear reduction of fractures with true translation of long bone fragment ends.
- Quick Clamps allow for rapid application, stability, and single point tightening
- Cartridge clamp design is positive locking – no passive release of pins or bars – even when clamps are loosened
- The system includes four hole and six hole multiple clamps to optimize pin spread
- The four hole and six hole clamps offer several attachment posts to maximize construct alternatives
- Various clamps and bar lengths give the surgeon the versatility to assemble the necessary frame constructs
- Self-drilling, self-tapping JET-X® Half Pins
- Stainless steel pins with TiN* coating to reduce friction, which may minimize heat during insertion
- Tapered minor/constant major diameter of half pins provide radial compression to prevent loosening
- JET-X clamp components are designed to meet ASTM** MR Conditional requirements***



The multiple pin clamps are designed so that half pin spacing is compatible with Rancho cubes for definitive treatment

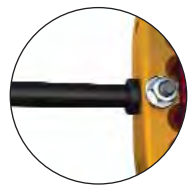
The four hole and six hole clamps offer several attachment posts to maximize construct alternatives



Freedom Post



30° Post



Straight Post



Stainless steel pin with TiN coating

*TiN = Stainless Steel Half Pins with a Titanium Nitride coating

**American Society for Testing and Materials

***See IFU for specific MR Conditional information

Pin placement/frame construction

Tibial pins

- Place initial pin just distal to zone of injury and planned future fixation
- Placement should be AP just medial to anterior tibial crest
- Apply second pin in distal tibia near the diaphyseal/metaphyseal junction for maximum pin spread
- Apply Quick or Freedom Bar to Pin Clamps to each pin
- Attach a bar of sufficient length to end at the level of the patella



Femoral pins

- Insert two half pins anterior and lateral to avoid trapping the quadriceps
- Attain maximum pin spread for construct stability
- Apply Quick or Freedom Bar to Pin Clamps to each pin
- Attach a bar of sufficient length to cross proximal end of tibial bar



Connector bars

- Attach Quick or Freedom Bar to Bar Clamps to the tibial and femoral bars
- Attach a third bar into these clamps
- Distract the leg and reduce the fracture
- Confirm reduction via C-arm
- Tighten all clamps

Note For additional stability, bars can be double stacked.



Optional frame constructs



Construct utilizes the six hole multiple pin clamp with straight posts in the proximal and distal portions



Construct utilizes the six hole multiple pin clamp with freedom posts in the proximal and distal portions

Catalog information

Cat. No.	Description	Cat. No.	Description
7106-4001	JET-X Freedom Clamp 10.5mm to 5mm	7106-5559	JET-X TiN 5mm x 55mm Long Half Pin
7106-4019	JET-X Freedom Clamp 10.5mm to 6mm	7106-5608	JET-X TiN 5mm x 60mm Short Half Pin
7106-4002	JET-X Freedom Clamp 10.5mm to 10.5mm	7106-5609	JET-X TiN 5mm x 60mm Long Half Pin
7106-7375	JET-X 4 Hole Pin Clamp	7106-5658	JET-X TiN 5mm x 65mm Short Half Pin
7106-7376	JET-X 6 Hole Pin Clamp	7106-5659	JET-X TiN 5mm x 65mm Long Half Pin
7106-2721	JET-X Ankle Clamp	7106-5708	JET-X TiN 5mm x 70mm Short Half Pin
7106-2722	JET-X Freedom Clamp 10.5mm Bar to Ring	7106-5709	JET-X TiN 5mm x 70mm Long Half Pin
7106-7379	JET-X Straight Post	7106-5407	JET-X TiN 5mm x 40mm 1.6mm Cannulated
7106-7381	JET-X 30° Angled Post	7105-1039	JET-X 1.6mm x 240mm Wire
7106-7382	JET-X Freedom Post	7106-5504	JET-X TiN 5mm x 50mm Short Traction Pin
7106-7371	JET-X Quick Clamp 10.5mm to 4mm	7106-5507	JET-X TiN 5mm x 50mm Traction Pin
7106-7372	JET-X Quick Clamp 10.5mm to 5mm	7106-6409	JET-X TiN 6mm x 40mm
7106-7373	JET-X Quick Clamp 10.5mm to 6mm	7106-6459	JET-X TiN 6mm x 45mm
7106-7374	JET-X Quick Clamp 10.5mm to 10.5mm	7106-6509	JET-X TiN 6mm x 50mm
7106-7377	JET-X Quick Clamp 6mm to 4mm	7106-6559	JET-X TiN 6mm x 55mm
7106-7378	JET-X Quick Clamp 6mm to 6mm	7106-6609	JET-X TiN 6mm x 60mm
7106-7380	JET-X Quick Clamp 6mm to 5mm	7106-4011	JET-X Mini Freedom Clamp 6mm to 4mm
7106-5110	JET-X 6mm x 110mm Bar	7106-4012	JET-X Mini Freedom Clamp 6mm to 6mm
7106-5185	JET-X 6mm x 185mm Bar	7106-4010	JET-X Freedom Clamp 10.5mm to 4mm
7106-3152	JET-X Mini Distal Radius Half Pin 3mm x 15mm	7106-4019	JET-X Freedom Clamp 10.5mm to 6mm
7106-3202	JET-X Mini Distal Radius Half Pin 3mm x 20mm	7106-7377	JET-X Mini Quick Clamp 6mm to 4mm
7106-2100	JET-X 10.5mm x 100mm Bar	7106-7378	JET-X Mini Quick Clamp 6mm to 6mm
7106-2150	JET-X 10.5mm x 150mm Bar	7106-7371	JET-X Quick Clamp 10.5mm to 4mm
7106-2160	JET-X 10.5mm L-Bar	7106-7373	JET-X Quick Clamp 10.5mm to 6mm
7106-2180	JET-X 10.5mm V-Bar	7106-5050	JET-X 6mm x 50mm Bar
7106-2200	JET-X 10.5mm x 200mm Bar	7106-5075	JET-X 6mm x 75mm Bar
7106-2250	JET-X 10.5mm x 250mm Bar	7106-5110	JET-X 6mm x 110mm Bar
7106-2300	JET-X 10.5mm x 300mm Bar	7106-5150	JET-X 6mm x 150mm Bar
7106-2350	JET-X 10.5mm x 350mm Bar	7106-5185	JET-X 6mm x 185mm Bar
7106-2400	JET-X 10.5mm x 400mm Bar	7106-5225	JET-X 6mm x 225mm Bar
7106-7317	JET-X Drill for Extra 5mm Half Pins	7106-5180	JET-X V-Bar 6mm
7106-7318	JET-X Drill for Short 5mm Half Pins	7106-5226	JET-X Off-Set Bar 6mm
7106-7319	JET-X Drill for Long 5mm Half Pins	7106-3108	JET-X 3mm x 10mm Half Pin
7106-7320	JET-X Drill for Short 6mm Half Pins	7106-3158	JET-X 3mm x 15mm Half Pin
7106-7321	JET-X Drill for Long 6mm Half Pins	7106-3208	JET-X 3mm x 20mm Half Pin
7106-5304	JET-X Extra Short TiN 5mm x 30mm	7106-3258	JET-X 3mm x 25mm Half Pin
7106-5354	JET-X Extra Short TiN 5mm x 35mm	7106-4158	JET-X 4mm x 15mm Half Pin
7106-5404	JET-X Extra Short TiN 5mm x 40mm	7106-4208	JET-X 4mm x 20mm Half Pin
7106-5454	JET-X Extra Short TiN 5mm x 45mm	7106-4258	JET-X 4mm x 25mm Half Pin
7106-5308	JET-X TiN 5mm x 30 mm Short Half Pin	7106-4308	JET-X 4mm x 30mm Half Pin
7106-5309	JET-X TiN 5mm x 30mm Long Half Pin	7106-4358	JET-X 4mm x 35mm Half Pin
7106-5358	JET-X TiN 5mm x 35mm Short Half Pin	7106-7315	JET-X Drill for 3mm Half Pin
7106-5359	JET-X TiN 5mm x 35mm Long Half Pin	7106-7316	JET-X Drill for 4mm Half Pin
7106-5408	JET-X TiN 5mm x 40mm Short Half Pin	7106-3152	JET-X Mini Distal Radius Half Pin 3mm x 15mm
7106-5409	JET-X TiN 5mm x 40mm Long Half Pin	7106-3202	JET-X Mini Distal Radius Half Pin 3mm x 20mm
7106-5458	JET-X TiN 5mm x 45mm Short Half Pin	7106-2016	JET-X Mini Double Pin Clamp
7106-5459	JET-X TiN 5mm x 45mm Long Half Pin	7106-7327	JET-X Mini Distal Radius 2.0mm Drill for 3mm Half Pin
7106-5508	JET-X TiN 5mm x 50mm Short Half Pin	7106-2500*	500mm Bar
7106-5509	JET-X TiN 5mm x 50mm Long Half Pin	7106-2600*	600mm Bar
7106-5558	JET-X TiN 5mm x 55mm Short Half Pin		

*Sterile only

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