

Stirrup Options

- Interchangeable with all MILINE ankle components
- High strength fatigue and corrosion resistant steel
- Heavy duty options available
- Extendable service life

Y STIRRUPS



Inventory Id	Description	UOM
MI-YS20	Y-Stirrup For 20mm Systems	EA
MI-YS16	Y-Stirrup For 16mm Systems	EA
MI-YSHD16	Heavy Duty Y-Stirrup For 16mm Systems	EA
MI-YS13	Y-Stirrup For 13mm Systems	EA

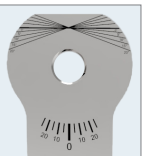
Inventory Id	Description	UOM
MI-SYS20	Standard Action Y-Stirrup For 20mm Systems	EA
MI-SYS16	Standard Action Y-Stirrup For 16mm Systems	EA
MI-SYSHD16	Heavy Duty Standard Action Y-Stirrup For 16mm Systems	EA
MI-SYS13	Standard Action Y-Stirrup For 13mm Systems	EA

RIVET STIRRUPS



Inventory Id	Description	UOM
MI-RS20	Rivet Stirrup For 20mm Systems	EA
MI-RS16	Rivet Stirrup For 16mm Systems	EA
MI-RSHD16	Heavy Duty Rivet Stirrup For 16mm Systems	EA
MI-RS13	Rivet Stirrup For 13mm Systems	EA

Inventory Id	Description	UOM
MI-SRS20	Standard Action Rivet Stirrup For 20mm Systems	EA
MI-SRS16	Standard Action Rivet Stirrup For 16mm Systems	EA
MI-SRSHD16	Heavy Duty Standard Action Rivet Stirrup For 16mm Systems	EA
MI-SRS13	Standard Action Rivet Stirrup For 13mm Systems	EA



Standard Action Stirrup

Note: Use MILINE standard action stirrups for additional motion control options with MILINE standard action ankle joints. Stirrup heads are laser etched in 5° increments for ROM adjustment



635 Executive Dr. | Troy MI, 48083
P 800-521-2192 | 248-588-7480
BeckerOrthopedic.com | f t in

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Upright Options



SHORT UPRIGHTS

- For bilateral orthotic designs

Inventory Id	Description	UOM
MI-LU20	Lamination Upright - 20mm	EA
MI-LU16	Lamination Upright - 16mm	EA
MI-LU13	Lamination Upright - 13mm	EA



UNILATERAL SHORT UPRIGHTS

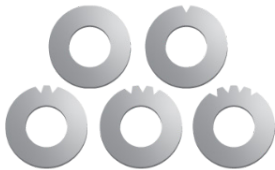
- For unilateral orthotic designs

Inventory Id	Description	UOM
MI-LUHD20	Unilateral Upright - 20mm	EA
MI-LUHD16	Unilateral Upright - 16mm	EA
MI-LUHD13	Unilateral Upright - 13mm	EA

Included Accessories



Attachment screws



Optional thrust washers to adjust M/L play

Optional Accessories



FABRICATION TOOL KIT

MODEL MI-FTK

The Fabrication Tool Kit can be used for both unilateral and bilateral orthotic designs with all three MILINE sizes.



MILINE™
METRIC INTERCHANGEABLE



EC REP

Acorn Regulatory Consultancy Services Limited
Knockmorris Cahir Co. Tipperary Ireland
Postcode: E21 R766
P P 012 4626 8456
F F 012 4626 8648



Double Action

- Long ROM springs and motion limiters included
- Booster Spring options for extended applications
- Systematic Tuning Procedure for MILINE™ Double Action Ankle Joints



Inventory ID	Description	UOM	Leg	Side
MI-220-A0U	MILINE Double Action Ankle Joint - 20mm	EA	Either	Right
MI-216-A0U	MILINE Double Action Ankle Joint - 16mm	EA		Left
MI-213-A0U	MILINE Double Action Ankle Joint - 13mm	EA		Medial



Inventory ID	Description	UOM	Leg/Side	Leg/Side
MI-220-A1U	MILINE Double Action Ankle Joint With Booster-20mm	EA	Rt. Lat.	Lt. Lat.
MI-220-A2U	MILINE Double Action Ankle Joint With Booster-20mm	EA	Lt. Med.	Rt. Med.
MI-216-A1U	MILINE Double Action Ankle Joint With Booster-16mm	EA	Lt. Lat.	Rt. Lat.
MI-216-A2U	MILINE Double Action Ankle Joint With Booster-16mm	EA	Rt. Med.	Lt. Med.
MI-213-A1U	MILINE Double Action Ankle Joint With Booster-13mm	EA	Lt. Lat.	Rt. Lat.
MI-213-A2U	MILINE Double Action Ankle Joint With Booster-13mm	EA	Lt. Med.	Rt. Med.

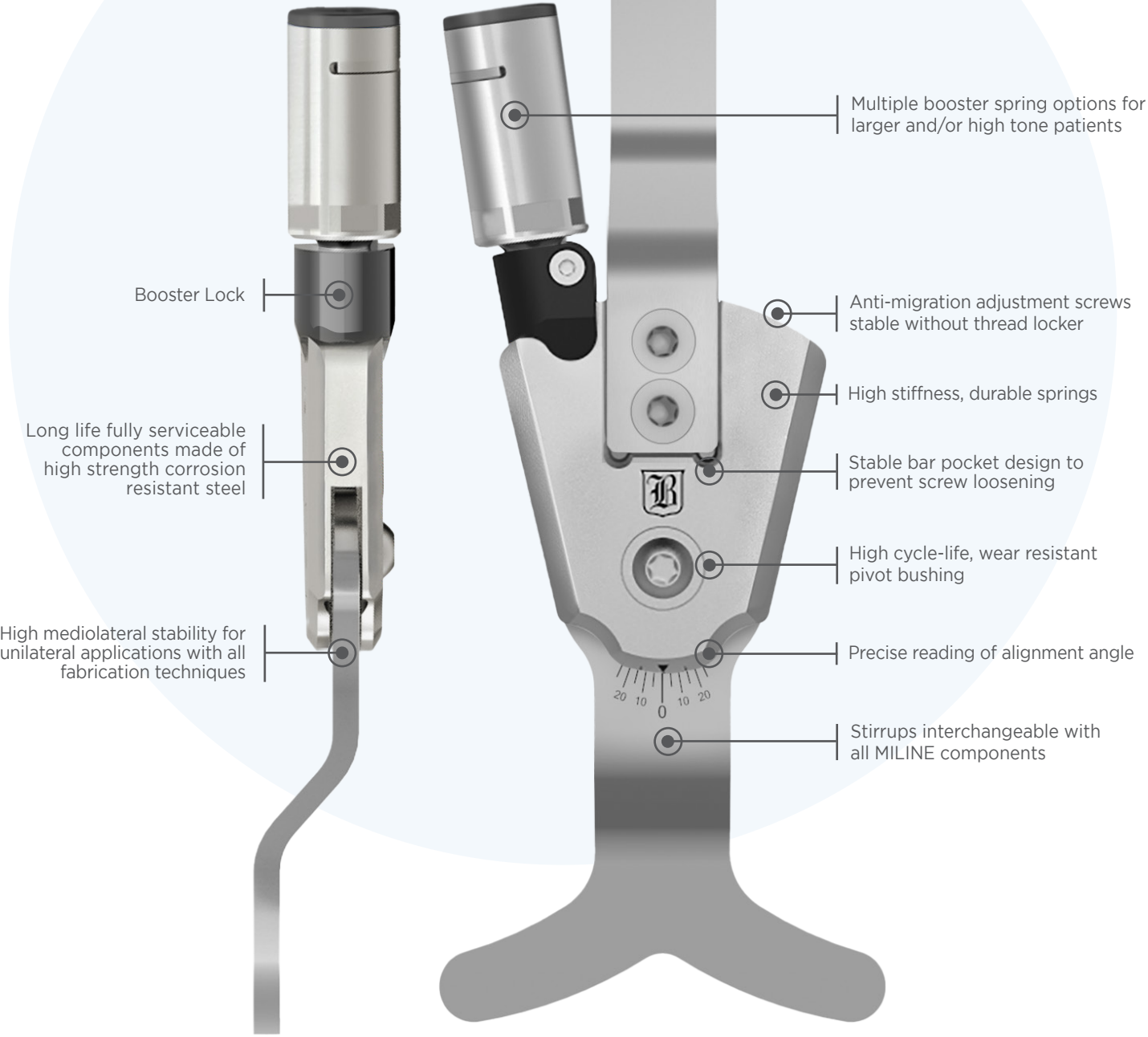
Standard Action

- Interchangeable with all MILINE stirrups to provide free motion at the ankle
- MILINE standard action stirrups are laser etched in 5° increments for optimal adjustment of motion stop angle



Inventory ID	Description	UOM	Leg	Side
MI-020-A0U	MILINE Standard Action Ankle Joint - 20mm	EA	Either	Right
MI-016-A0U	MILINE Standard Action Ankle Joint - 16mm	EA		Left
MI-013-A0U	MILINE Standard Action Ankle Joint - 13mm	EA		Medial

Core Features



Full Scale Image

(Model MI-216-A1U shown)

Dorsiflexion Assist

- Long ROM spring with motion limiter standard
- Plantarflexion resist booster spring options for extended applications



Inventory Id	Description	UOM	Leg	Side
MI-120-A0R	MILINE Dorsiflexion Assist Ankle Joint No Booster-20mm - Right	EA	Right	Lateral
MI-120-A0L	MILINE Dorsiflexion Assist Ankle Joint No Booster-20mm - Left	EA	Left	Medial
MI-116-A0R	MILINE Dorsiflexion Assist Ankle Joint No Booster-16mm - Right	EA	Right	Lateral
MI-116-A0L	MILINE Dorsiflexion Assist Ankle Joint No Booster-16mm - Left	EA	Left	Medial
MI-113-A0R	MILINE Dorsiflexion Assist Ankle Joint No Booster-13mm - Right	EA	Right	Lateral
MI-113-A0L	MILINE Dorsiflexion Assist Ankle Joint No Booster-13mm - Left	EA	Left	Medial

Inventory Id	Description	UOM	Leg	Side
MI-120-A1R	MILINE Dorsiflexion Assist Ankle Joint With Booster-20mm - Right	EA	Right	Lateral
MI-120-A1L	MILINE Dorsiflexion Assist Ankle Joint With Booster-20mm - Left	EA	Left	Medial
MI-116-A1R	MILINE Dorsiflexion Assist Ankle Joint With Booster-16mm - Right	EA	Right	Lateral
MI-116-A1L	MILINE Dorsiflexion Assist Ankle Joint With Booster-16mm - Left	EA	Left	Medial
MI-113-A1R	MILINE Dorsiflexion Assist Ankle Joint With Booster-13mm - Right	EA	Right	Lateral
MI-113-A1L	MILINE Dorsiflexion Assist Ankle Joint With Booster-13mm - Left	EA	Left	Medial

Weight Limits

System Size	Unilateral	Bilateral
13mm Systems	50 kg / 110 lb	80 kg / 176 lb
16mm Systems	85 kg / 187 lb	120 kg / 264.5 lb
20mm Systems	110 kg / 242.5 lb	160 kg / 352.5 lb

MILINE Component Size		NB	B1*	B2	B3
		No Booster	Booster		
13mm	Stiffness	Low	Moderate	High	—
	Active ROM	15°	25°	12°	—
16mm	Stiffness	Moderate	Moderate	High	Very High
	Active ROM	20°	20°	10°	20°
20mm	Stiffness	Moderate/High	Moderate/High	Very High	Max Stiffness
	Active ROM	15°	15°	10°	15°

* Spacer used in spring configuration B1