

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  |

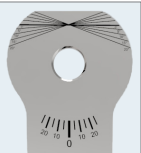


RIVET STIRRUPS

| 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  |

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



Standard Action Stirrup



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Upright Options



LAMINATION UPRIGHTS

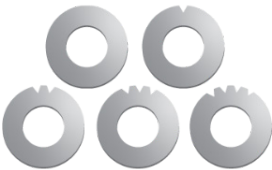
- Made of heavy-duty stainless steel

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

EC REP

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MILINE™  
METRIC INTERCHANGEABLE



Double Action

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

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

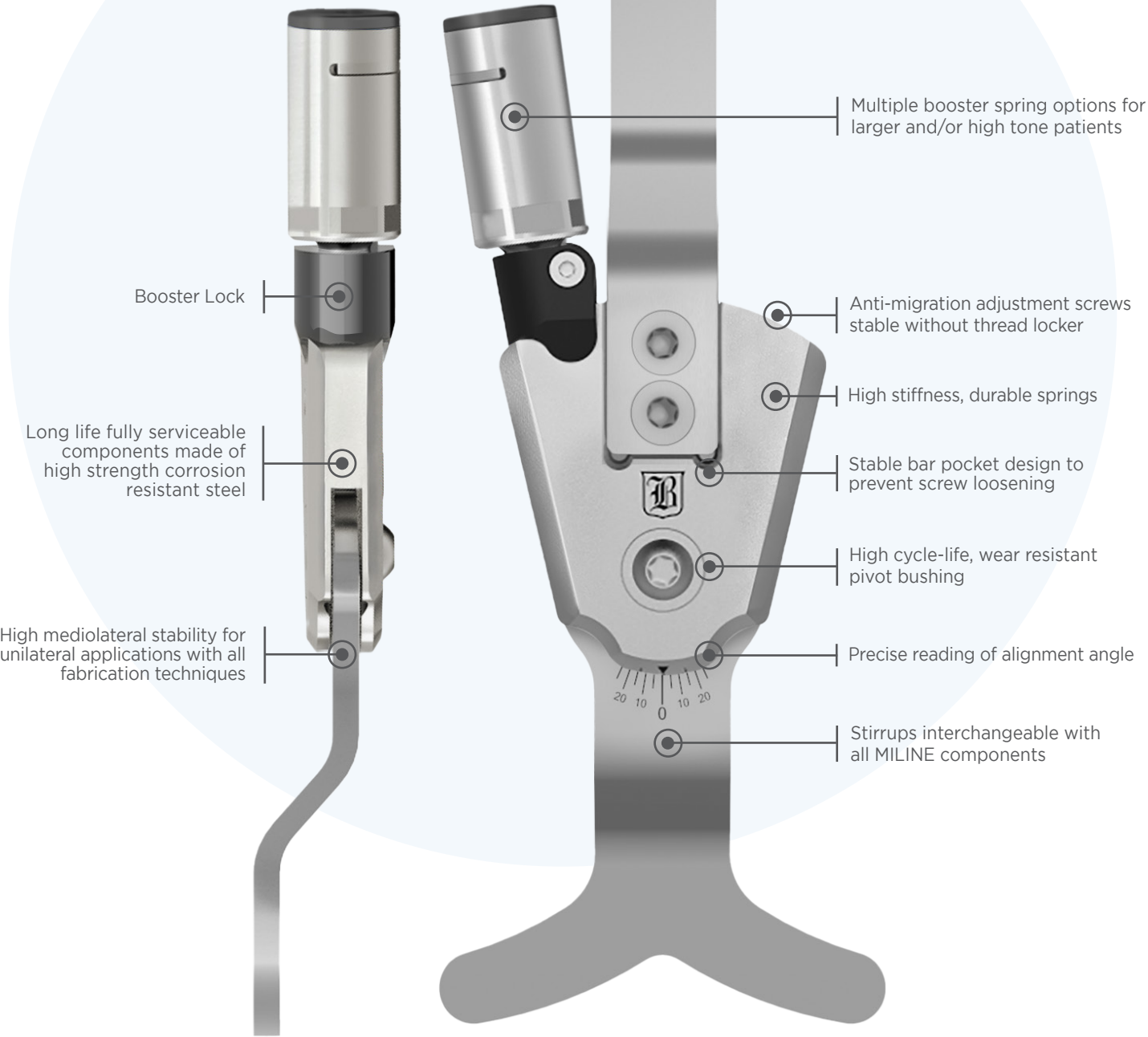
|              |                                                              |                                                                                   |       |         |  |
|--------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|-------|---------|--|
|              |                                                              |  |       |         |  |
|              |                                                              | A1U                                                                               | A2U   |         |  |
| Inventory ID | Description                                                  | UOM                                                                               | Leg   | Side    |  |
| MI-220-A1U   | MILINE Double Action Ankle Joint With Posterior Booster-20mm | EA                                                                                | Right | Lateral |  |
|              |                                                              |                                                                                   | Left  | Medial  |  |
| MI-220-A2U   | MILINE Double Action Ankle Joint With Anterior Booster-20mm  | EA                                                                                | Left  | Lateral |  |
|              |                                                              |                                                                                   | Right | Medial  |  |
| MI-216-A1U   | MILINE Double Action Ankle Joint With Posterior Booster-16mm | EA                                                                                | Right | Lateral |  |
|              |                                                              |                                                                                   | Left  | Medial  |  |
| MI-216-A2U   | MILINE Double Action Ankle Joint With Anterior Booster-16mm  | EA                                                                                | Left  | Lateral |  |
|              |                                                              |                                                                                   | Right | Medial  |  |
| MI-213-A1U   | MILINE Double Action Ankle Joint With Posterior Booster-13mm | EA                                                                                | Right | Lateral |  |
|              |                                                              |                                                                                   | Left  | Medial  |  |
| MI-213-A2U   | MILINE Double Action Ankle Joint With Anterior Booster-13mm  | EA                                                                                | Left  | Lateral |  |
|              |                                                              |                                                                                   | Right | Medial  |  |

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

|                                                                                     |                                           |                                                                                     |        |                                                                                     |  |
|-------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|--|
|  |                                           |  |        |  |  |
| 20mm                                                                                |                                           | 16mm                                                                                |        | 13mm                                                                                |  |
| Inventory ID                                                                        | Description                               | UOM                                                                                 | Leg    | Side                                                                                |  |
| MI-020U                                                                             | MILINE Standard Action Ankle Joint - 20mm | EA                                                                                  | Either |                                                                                     |  |
| MI-016U                                                                             | MILINE Standard Action Ankle Joint - 16mm | EA                                                                                  |        |                                                                                     |  |
| MI-013U                                                                             | MILINE Standard Action Ankle Joint - 13mm | EA                                                                                  |        |                                                                                     |  |

Core Features



Full Scale Image

(Model MI-216-A1U shown)

Dorsiflexion Assist

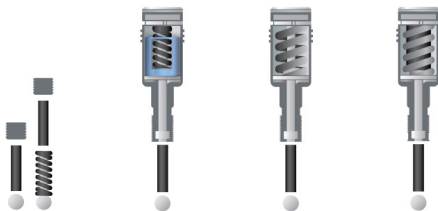
- Long ROM spring with motion limiter standard
- Plantarflexion resist booster spring options for extended applications

|                                                                                     |                                                                |                                                                                     |       |                                                                                     |  |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|--|
|  |                                                                |  |       |  |  |
| 20mm                                                                                |                                                                | 16mm                                                                                |       | 13mm                                                                                |  |
| Inventory Id                                                                        | Description                                                    | UOM                                                                                 | Leg   | Side                                                                                |  |
| MI-120-A0R                                                                          | MILINE Dorsiflexion Assist Ankle Joint No Booster-20mm - Right | EA                                                                                  | Right | Lateral                                                                             |  |
|                                                                                     |                                                                |                                                                                     | Left  | Medial                                                                              |  |
| MI-120-A1L                                                                          | MILINE Dorsiflexion Assist Ankle Joint No Booster-20mm - Left  | EA                                                                                  | Left  | Lateral                                                                             |  |
|                                                                                     |                                                                |                                                                                     | Right | Medial                                                                              |  |
| MI-116-A0R                                                                          | MILINE Dorsiflexion Assist Ankle Joint No Booster-16mm - Right | EA                                                                                  | Right | Lateral                                                                             |  |
|                                                                                     |                                                                |                                                                                     | Left  | Medial                                                                              |  |
| MI-116-A1L                                                                          | MILINE Dorsiflexion Assist Ankle Joint No Booster-16mm - Left  | EA                                                                                  | Left  | Lateral                                                                             |  |
|                                                                                     |                                                                |                                                                                     | Right | Medial                                                                              |  |
| MI-113-A0R                                                                          | MILINE Dorsiflexion Assist Ankle Joint No Booster-13mm - Right | EA                                                                                  | Right | Lateral                                                                             |  |
|                                                                                     |                                                                |                                                                                     | Left  | Medial                                                                              |  |
| MI-113-A1L                                                                          | MILINE Dorsiflexion Assist Ankle Joint No Booster-13mm - Left  | EA                                                                                  | Left  | Lateral                                                                             |  |
|                                                                                     |                                                                |                                                                                     | Right | Medial                                                                              |  |

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