



WalterLorenz[®] Surgical Assist Arm

Robotic-assisted Total Knee Arthroplasty

Procedural Setup Guide



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WalterLorenz Surgical Assist Arm

The WalterLorenz Surgical Assist Arm is a table-mounted, bionic electromechanical arm and is designed for controlled retraction and/or positioning of instruments. The device connects to any standard OR table rail and may be adjusted to multiple heights and positions depending on the procedure and set-up required. Once setup, Walter is easy to maneuver and position by depressing the activation button twice and holding to unlock the device, allowing it to move with 7 degrees of freedom.

Manual instruments such as retractors, forceps, and elevators may be connected to the WalterLorenz Surgical Assist Arm via one of two methods:

- (1) A proprietary direct connection to the End Effector or
- (2) Utilizing a Universal Instrument Holder

WalterLorenz Surgical Assist Arm Anatomy

- 1** Wrist
- 2** Elbow
- 3** Distal Arm
- 4** Proximal Arm
- 5** Control Box with User Interface Keypad



This guide intends to instruct on the optimal use of the WalterLorenz Surgical Assist Arm in a Robotic-Assisted Total Knee Arthroplasty. This technique utilizes general orthopedic retractors, although you may easily substitute for your preferred instruments.

This guide should be used in conjunction with the WalterLorenz Surgical Assist Arm Product Manual (01-50-1645 or 01-50-1720, see packaging of your device for the appropriate manual).

This guide shows instruments in configurations intended for a LEFT knee procedure. Therefore many configurations will need to be flipped around for a right-side procedure.

Setup & Surgery Preparation

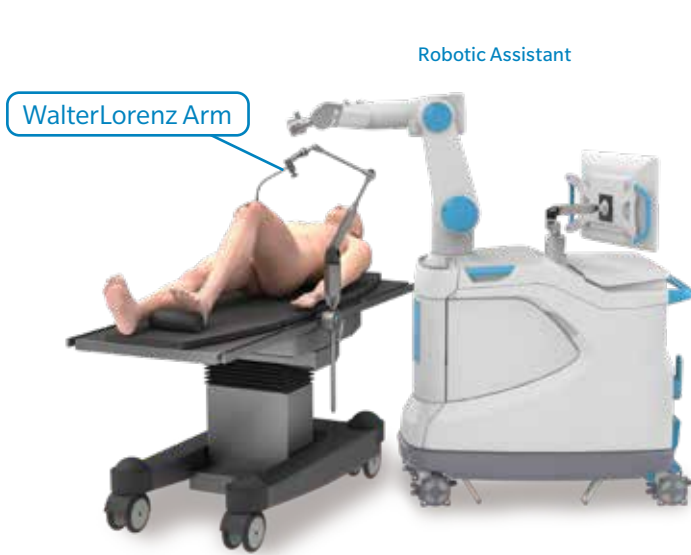


Figure 1

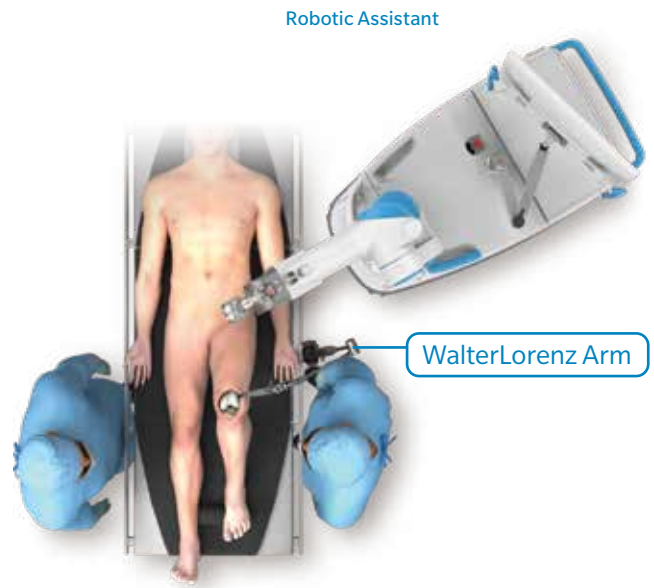


Figure 2

WalterLorenz Surgical Assist Arm Setup and Positioning

Attach the WalterLorenz Arm clamp to the bed rail at the patient's Iliac crest on the operative side. Orient the WalterLorenz Base Pole parallel to the floor. Rotate the WalterLorenz Arm such that the button display faces distally. Tighten the clamp to secure the positioning of the pole. Use the Long Distal Arm, and position the arm beneath the robotic assistant's arm. See Figures 1 and 2*.

- ⓘ **Note:** Images intended to show positioning. Please use proper draping protocols depending upon your OR and product procedures.
- ⓘ **Note:** For WalterLorenz Arm assembly and draping information, please see the WalterLorenz Surgical Assist Arm Product Manual (01-50-1645 or 01-50-1720, see packaging of your device for the appropriate manual).
- ⓘ **Note:** The positioning will vary based on the patient size and the surgeon preference.

*Pictured is the surgeon and assistant on the operative side however this is dependent upon the surgeons preference and not prescriptive.

Common Retractors & Setup



Figure 3
90 Degree Hohmann Retractor



Figure 4
PCL Retractor



Figure 5
Z Retractor

ⓘ **Note:** These are common retractors utilized in Robotic-assisted Total Knee Arthroplasty. The surgeon can interchange universal attachments and retractors as desired and needed throughout the procedure.

Common Retractors & Setup



Figure 6
Universal Forceps Holder Assembly

Before surgery begins, attach WalterLorenz Arm Universal attachments to retractors that will be used in the case.

Universal Forceps Holder Assembly (Figure 6)

1. Turn the large knob on the top of the holder counter-clockwise until the jaws are wider than the handle of the instrument
2. Slide the instrument into one of the grooves
3. Turn the knob clockwise to tighten the holder to the instrument handle

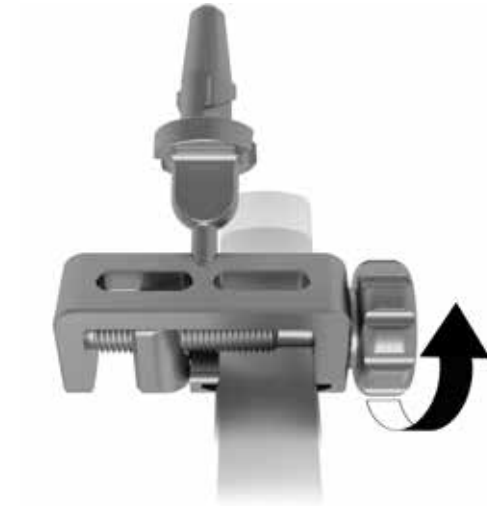


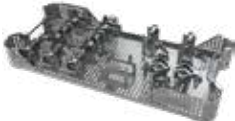






Figure 7
Flat Universal Instrument Holder Assembly

Flat Universal Instrument Holder Assembly (Figure 7)

1. Turn the knob on the holder counter-clockwise until the jaws are wider than the handle of the instrument
2. Slide the instrument into the opening of the jaws
3. Turn the knob clockwise to tighten the holder to the instrument handle

WalterLorenz Surgical Assist Arm Universal Instrument Tray Layout



Product	Description	Part Number
	Universal Instrument Tray	WAL300
	*End Effector	WAL119
	*Forceps Universal Holder	WAL304
	Small Universal Holder	WAL302
	*Flat Universal Holder	WAL301
	Scope Holder	WAL315
	Large Inline Universal Holder	WAL317
	Large 90 Universal Holder	WAL316
	*Torque Relief Tool	WAL318

*These tools are commonly used in Robotic-assisted Total Knee Arthroplasty.

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Legal Manufacturer
Biomet Microfixation
1520 Tradeport Drive
Jacksonville, FL 32218-2480

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