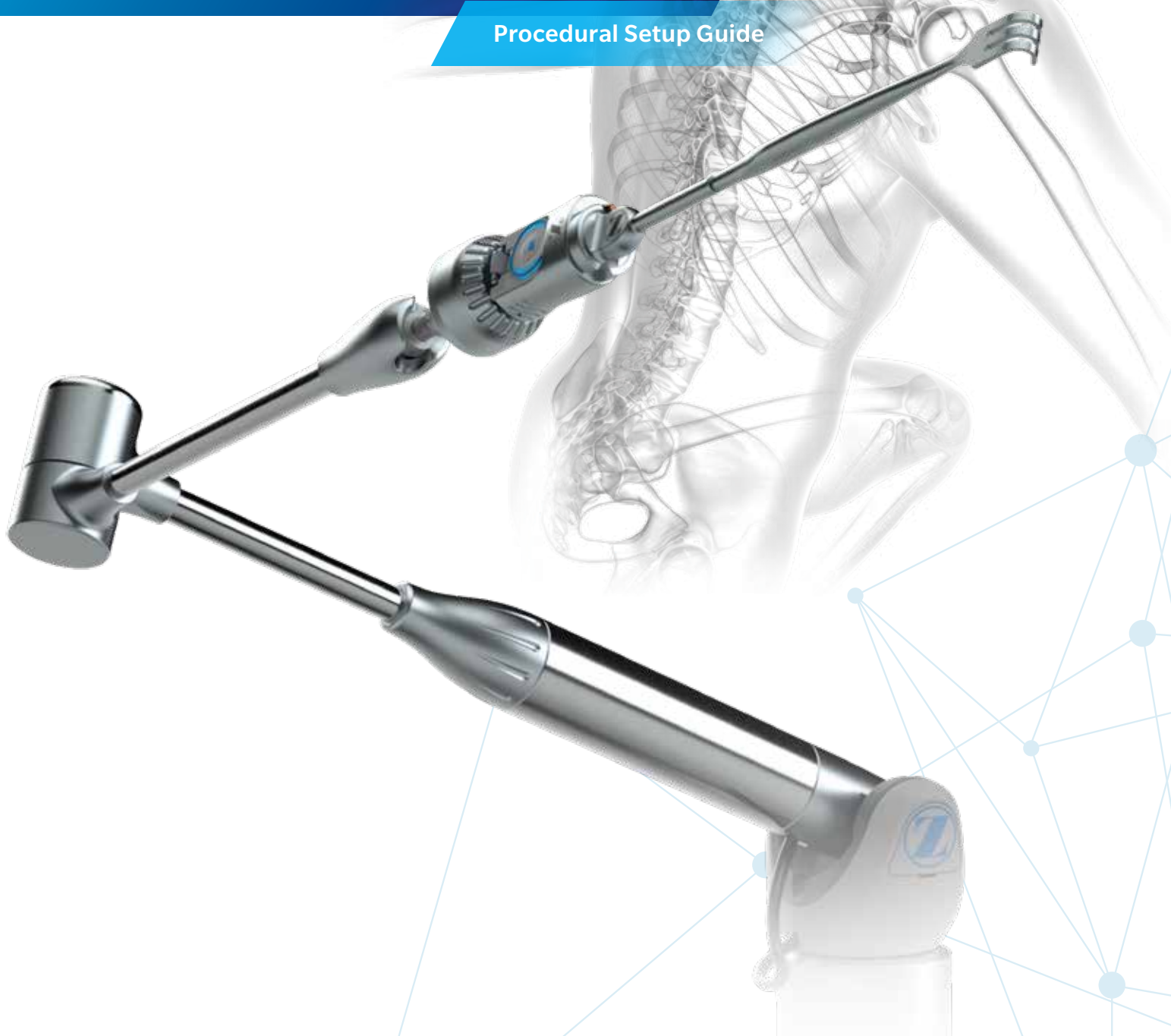


# WalterLorenz® Surgical Assist Arm

Total and Reverse Shoulder Arthroplasty

Procedural Setup Guide





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# WalterLorenz Surgical Assist Arm

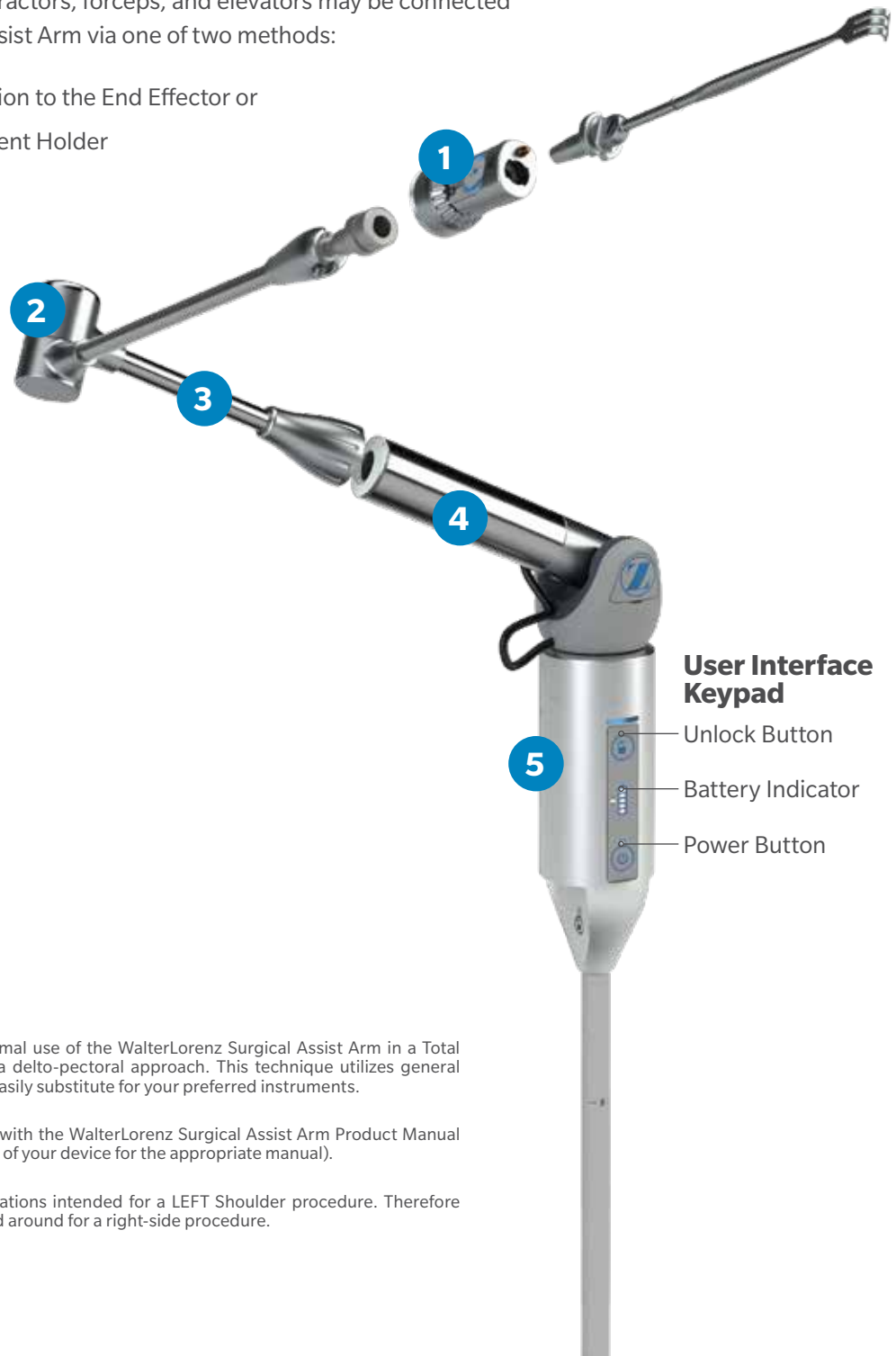
The WalterLorenz Surgical Assist Arm is a table-mounted, bionic electromechanical arm and is designed for controlled retraction and/or positioning of instruments. The device connects to any standard OR table rail and may be adjusted to multiple heights and positions depending on the procedure and set-up required. Once setup, the WalterLorenz Arm 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 Total and Reverse Shoulder Arthroplasty with a delto-pectoral approach. 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 Shoulder procedure. Therefore many configurations will need to be flipped around for a right-side procedure.

## Setup and Surgery Preparation

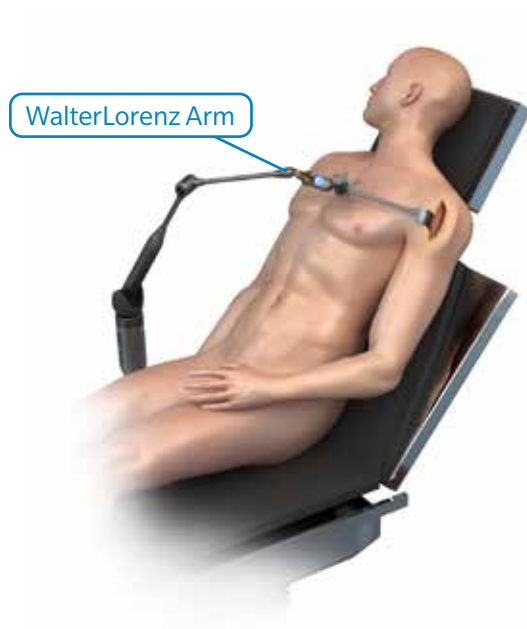


Figure 1

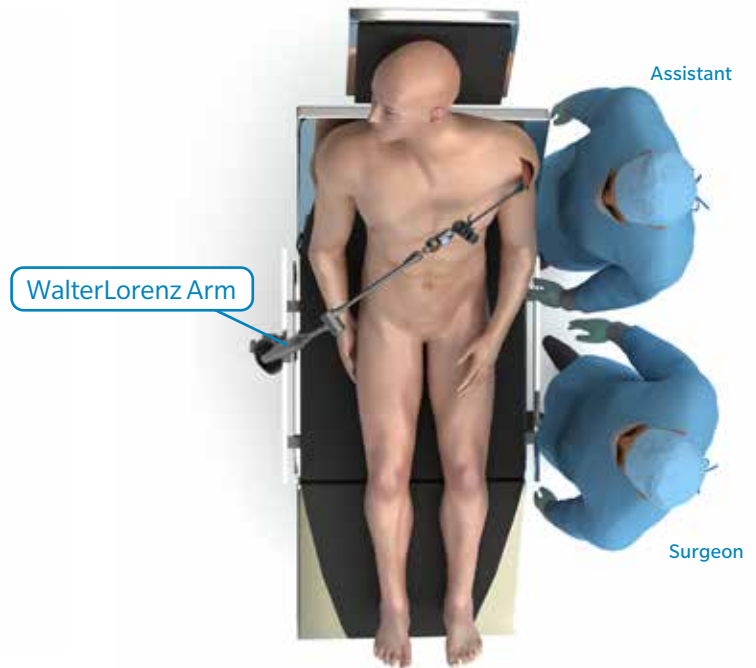


Figure 2

### WalterLorenz Arm Surgical Assist Arm Setup and Positioning

Attach the WalterLorenz Arm clamp to the bed rail at the patient's iliac crest on the non-operative side. Orient the WalterLorenz Arm base pole perpendicular to the floor. Rotate the WalterLorenz Arm such that the button display faces the patient's feet. Tighten the clamp to secure the positioning of the pole. Use the long distal arm, and position the arm across the patient's body. See figures 1 and 2.

The contralateral setup allows for the WalterLorenz Arm to hold any anterior retractors desired.

**Note:** For the complete 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:** For ipsilateral setup, the surgeon can choose to position the OR Assistant on either side of the table dependent on surgical preference.

## Common Retractors and Setup



Figure 3  
Fukuda Retractor



Figure 4  
Browne Deltoid Retractor



Figure 5  
Thin or Wide Glenoid Retractor



Figure 6  
Hohman Retractor

ⓘ **Note:** These are common retractors used in Total Shoulder Arthroplasty. The surgeon can interchange universal attachments and retractors as desired.



Figure 7  
Darrach Retractor

## Common Retractors and Setup (cont.)



Figure 8  
Universal Forceps Holder Assembly



Figure 9  
Flat Universal Instrument Holder Assembly



Figure 10  
Large Inline Universal Holder Assembly

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

### Universal Forceps Holder Assembly (Figure 8)

1. Turn the large knob on the top of the holder counterclockwise 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

### Flat Universal Instrument Holder Assembly (Figure 9)

4. Turn the knob on the holder counter-clockwise until the jaws are wider than the handle of the instrument
5. Slide the instrument into the opening of the jaws
6. Turn the knob clockwise to tighten the holder to the instrument handle

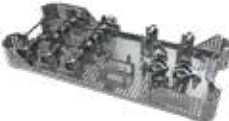








### Large Inline Universal Holder Assembly (Figure 10)

1. Turn the knob counterclockwise to extend the inner metal circle
2. Insert the handle of the desired retractor into the metal circle
3. Turn the knob clockwise to tighten the metal inner circle around the handle of the retractor

ⓘ **Note:** This attachment works best for retractors with thick, round handles that are not compatible with other attachment styles.

## 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 Shoulder Arthroplasty.









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