MicroPort Orthopedics

Full Function, Faster®

Anterolateral Approach

Instrumentation rationale

Introduction

To maximize functional recovery, the minimally invasive, Anterolateral Watson-Jones approach was developed to minimize the postoperative dislocation rate while maintaining the abductor strength.

It uses the classic Watson-Jones interval, but without detaching, cutting, or otherwise damaging the abductor. In order to help surgeons better utilize this approach, MicroPort Orthopedics has developed specialized instrumentation to take advantage of the surgical technique and maximize the operative window. When used in conjunction with intraoperative fluoroscopy and Microport's product portfolio, these instruments optimize the positioning of MicroPort Orthopedics' implants to deliver better results.

Optimized surgical window

The MicroPort Orthopedics Anterolateral instruments are designed to maximize a surgeon's visibility in a smaller surgical window. Approach-specific retractors increase the visible operative field and protect soft tissue to aid in recovery. Low profile, offset handles facilitate the proper preparation of the patient's bones and implantation of the final implants without putting extra strain on the patient's position.

Comprehensive instrumentation

This instrumentation system can be adapted to match an individual surgeon's needs and technique. The variety of retractors, offset handles, and preparation instruments provide a comprehensive system that can be tailored to the experience and preferences of the surgeon.

Minimally invasive implant portfolio

As a leader in minimally-invasive surgical techniques MicroPort Orthopedics has designed these instruments to work in tandem with our established product portfolio. The Profemur® stem line offers implants such as the Profemur® Preserve and Profemur® Gladiator that have been designed to provide great results in a smaller operative window. The Prime® acetabular system offers intraoperative flexibility to deliver optimal results in a wide range of patients.

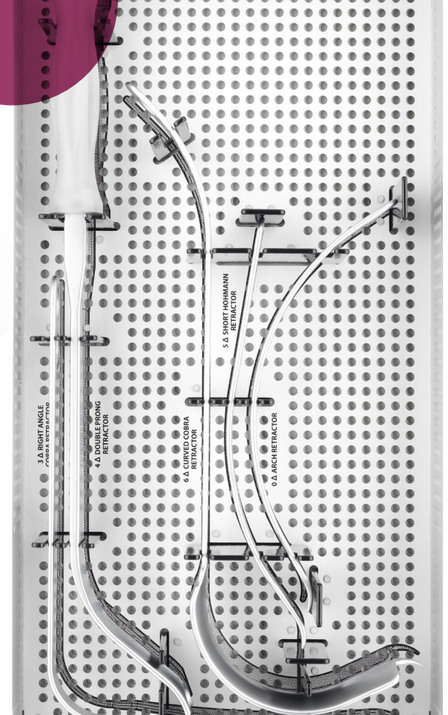
Full Function *Faster*®

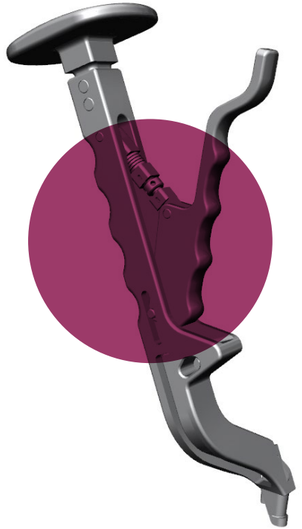
Optimized surgical window

Increased exposure

Specialized retractors are designed to utilize anatomic structures to protect soft tissue and increase the surgical window.

Right Angle Cobra Retractor, Curved Cobra Retractor, Double Prong Retractor, Short Hohmann Retractor, and Arch Retractor.





Reproducible preparation

Simple instrumentation

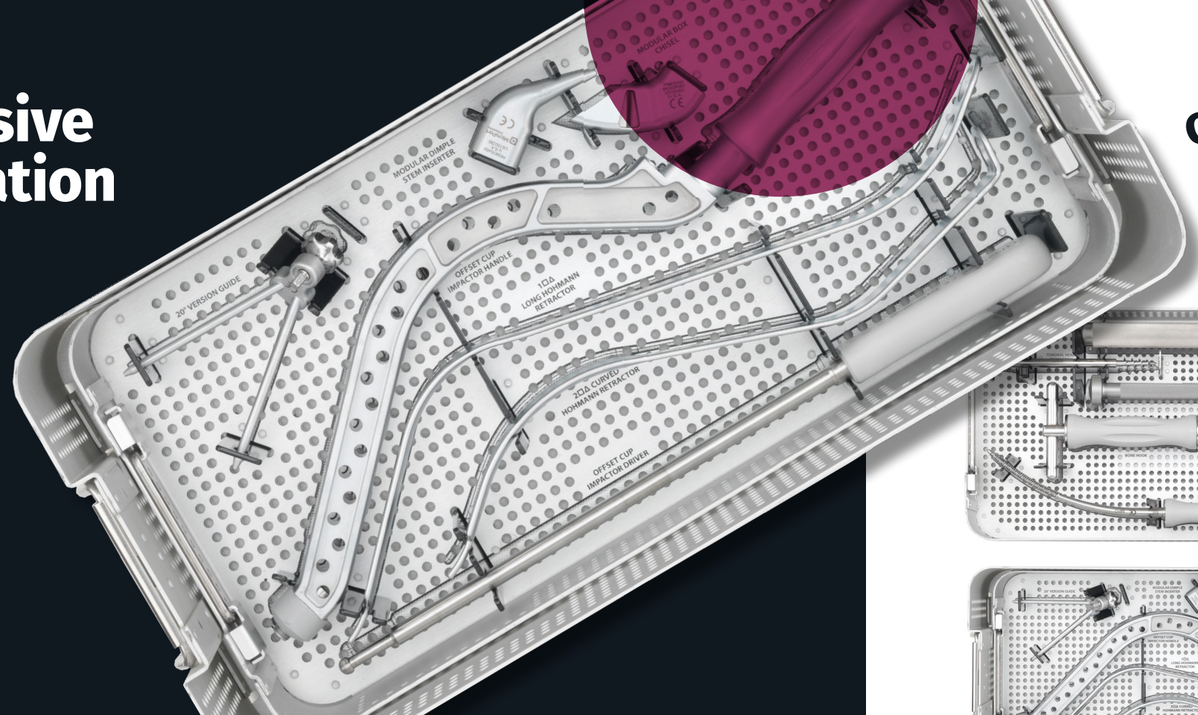
Offset broach handles take advantage of the patients positioning and allow the surgeon to prepare the femur without placing additional strain on the soft tissues.

- 1.4” lateral offset from broach to handle
- 1” and 2” anterior offset options
- 20° angle offset from broach handle to clear body and correct potential varus
- Strike plate centered on handle to minimize eccentric force on femur
- Extraction plate separate to facilitate broach removal
- Modular attachment point for inserter, broaches, and box chisel

Comprehensive instrumentation

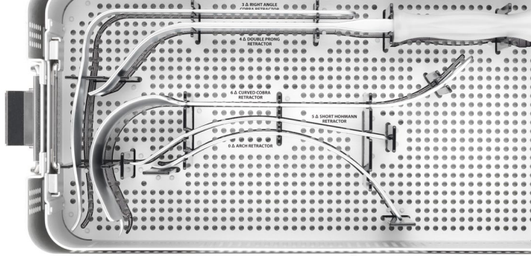
Efficient tray design

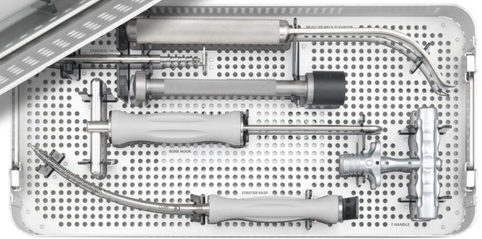
Supplemented by the desired implant-specific instrumentation, only three Anterolateral instrument trays are needed for each case.

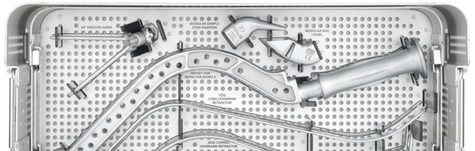


Core instruments

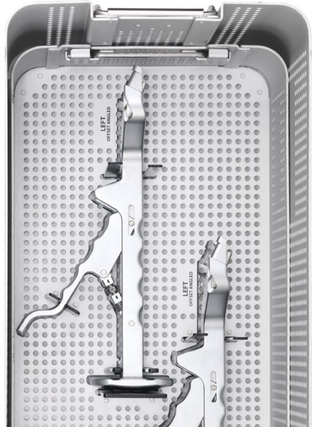
Retractors







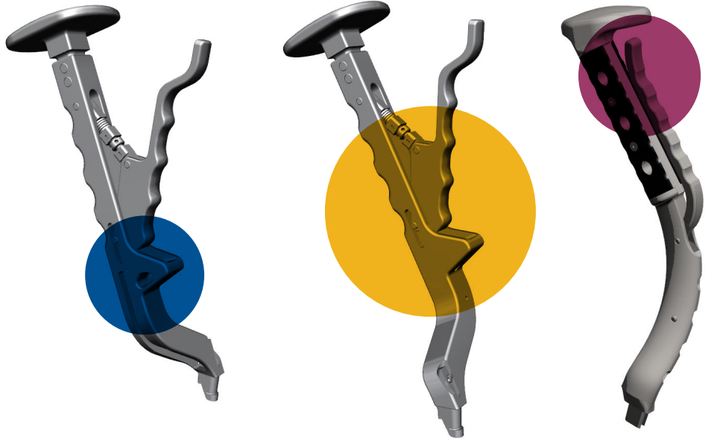
Broach handles

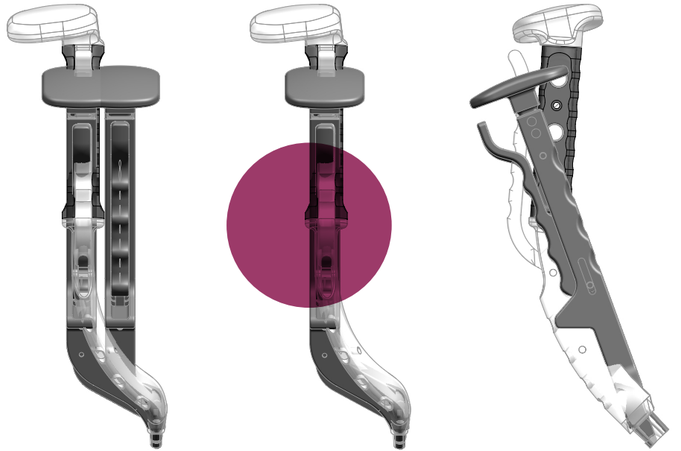


Broach handle options

MicroPort offers straight, 1” offset angled, 2” offset angled, and double offset broach handles to accommodate surgeon preference and optimize the surgical technique

- 1” offset angled broach handle
- 2” offset angled broach handle
- Double offset angled broach handle



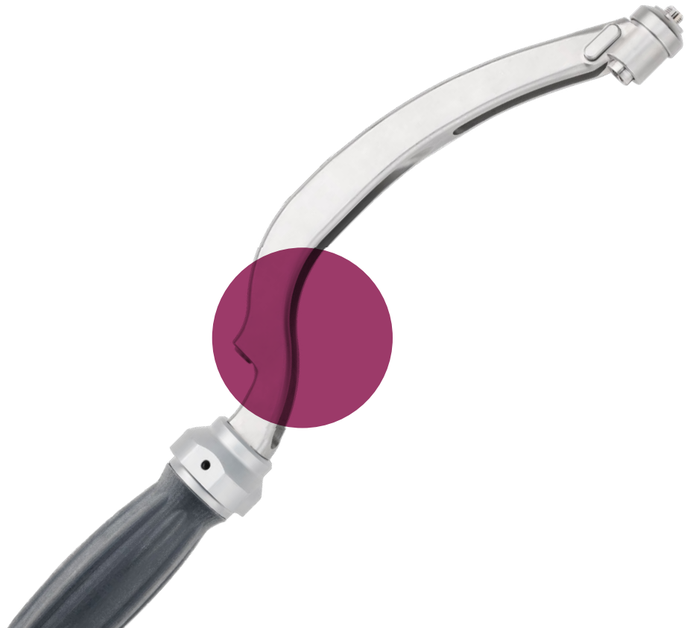


Broach handle comparison

Features	1” offset angled	2” offset angled	Double offset
Anterior offset	20°	20°	1: 45° 2: 2°
Lateral offset	2.0”	2.0”	2.0”
Overall length	10.3”	10.3”	12.0”
Extraction strike	Tap-out hump	-	Underside of plate

Offset cup impactor

The offset cup impactor with a modular version guide allows the surgeon to adjust the insertion angle for each patient, while maintaining the appropriate version during implantation for reproducible results.



Offset cup impactor with quick release

The offset cup impactor with a quick release attachment allows for quick release of the handle with one simple quarter turn following cup impaction. This cup impactor also allows for the attachment of a modular version guide.

Minimally invasive product portfolio

Profemur® Preserve

Featuring 24 stem sizes, optimized neck geometries to maximize head center coverage, and a reduced lateral shoulder, this short stem is well-suited for minimally invasive procedures. The curved medial geometry facilitates load transfer to the cortical bone and helps to ease insertion, and direct lateralization of head centers allows intraoperative offset adjustments to be isolated.

Straight
34mm
Varus 8°
37mm

Straight
31mm
Varus 8°
33mm

Straight
27mm
Varus 8°
29mm

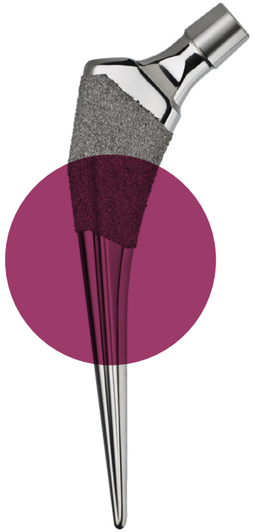
The clinical centroid is the driving force behind the Preserve design. A study of 900 radiographs, sampled globally, confirmed that femur size and neck length are positively correlated, and revealed that three neck groups is the optimal number for minimizing implant options while maximizing head center coverage and allowing for improved operating room flow. The design was robustly validated with an additional 150-case randomized templating study.

Size 1-4
Size 5-8
Size 9-12

The difference in neck length between each group is roughly one head size, 3.5 mm.

Profemur® Gladiator

The triple-tapered wedge shape and the reduced lateral shoulder on the Profemur® Gladiator make it a great option for minimally-invasive procedures such as Direct Anterior. Additionally, horizontal grooves are designed to more evenly distribute load forces, while vertical grooves assist with rotational stability.



Profemur® TL

Designed with a dual-taper philosophy, the Profemur® TL stem features a slim anteroposterior dimension that preserves bone and provides stable, three point fixation in the proximal femur. The reduced lateral shoulder, narrow profile, and broach only technique combine to make this stem a great option for minimally invasive techniques such as Direct Anterior Total Hip Arthroplasty.

MicroPort offers implants to match your **stem philosophy**

View our full product line at microportortho.com

Prime Acetabular System

The Prime Acetabular Cup System is the next step in the evolution of the successful Dynasty® Acetabular Cup System. It is the first system that supports a variety of surgical approaches and is optimized for a highly cross-linked polyethylene bearing surface, eliminating the compromises associated with alternative bearings.

Liner options: standard, lipped, and lateralized/face changing

A-Class: highly cross-linked
E-Class: vitamin E blended polyethylene

BioFoam® Cancellous Titanium coating

Product ordering information

ATALKIT1 ANTEROLATERAL RETRACTOR KIT

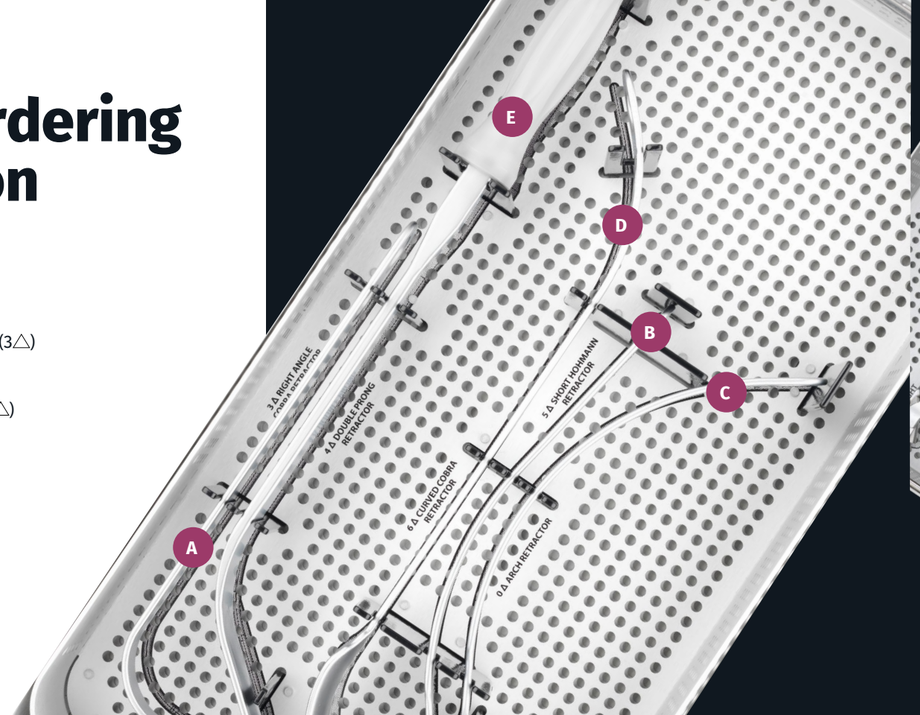
A. Right Angle Cobra Retractor (3△)
20162000

B. Short Hohmann Retractor (5△)
20162001

C. Curved Cobra Retractor (6△)
20162004

D. Arch Retractor (0△)
20162006

E. Double Prong Retractor (4△)
20162010



ATRRKIT2 ANTERIOR 2” OFFSET BROACH HANDLE KIT

A. 2” Offset Angled Broach Handle–Left
ATBRHANL

B. 2” Offset Angled Broach Handle–Right
ATBRHANR

ATRRKIT1 ANTERIOR CORE KIT

A. Mueller retractor
20070080

B. Long Hohmann retractor (1□△)
20162003

C. Curved Hohmann retractor (2□)
20162005

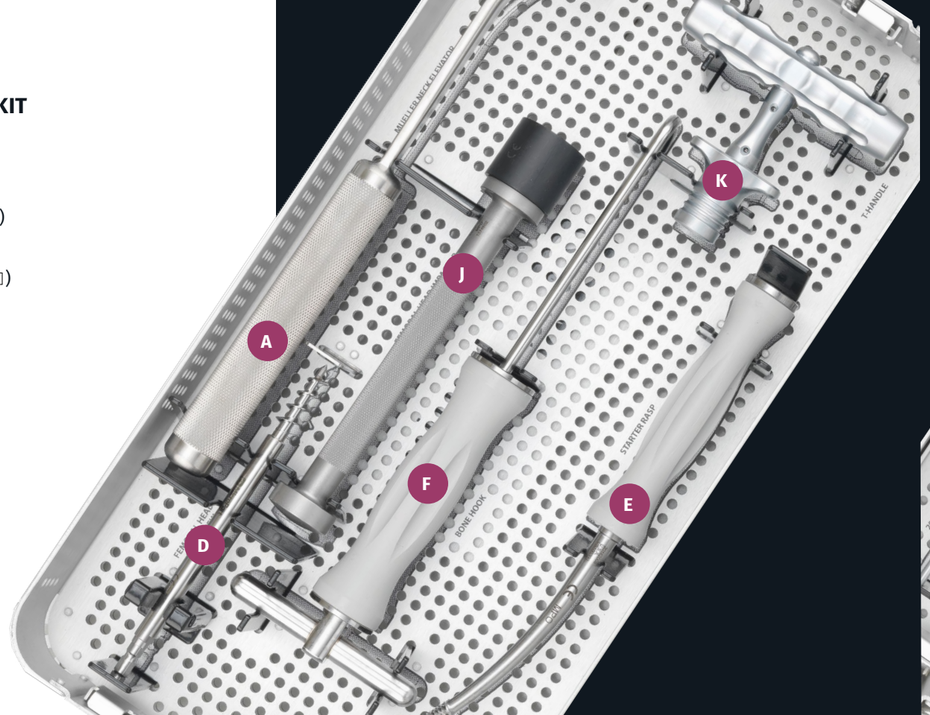
D. Corkscrew
20162007

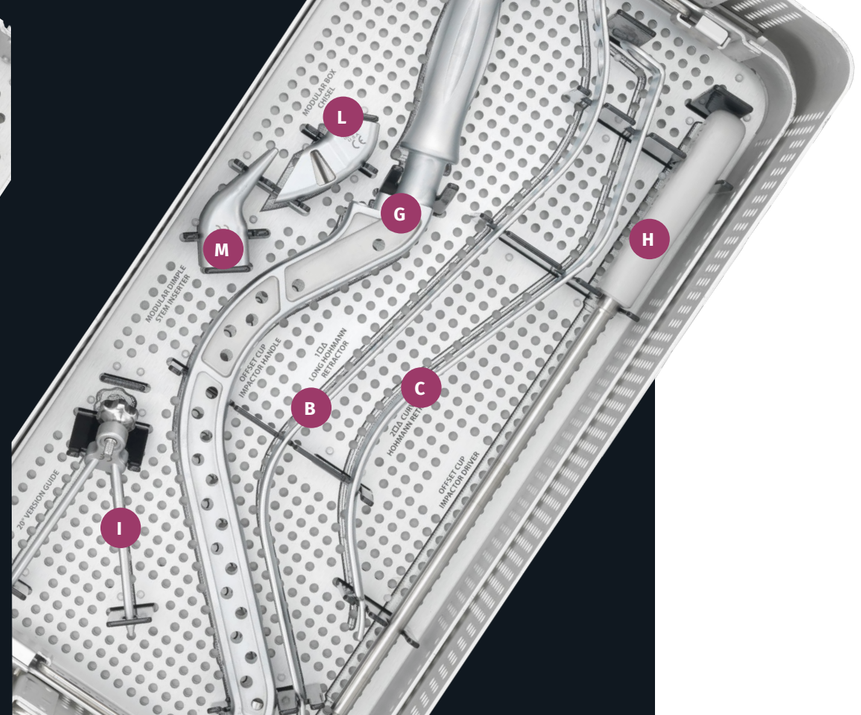
E. Curved rasp
20162008

F. Bone hook
20162009

G. Offset cup impactor handle
20162011

H. Offset cup impactor driver
20162012





ATRRKIT1 ANTERIOR CORE KIT

I. Offset cup impactor version guide
20162013

J. Head impactor
4400FI0000

K. T-Handle
E5001001

L. Modular box chisel
PRMOD450

M. Modular offset stem impactor
PRMOD460

MicroPort Orthopedics

Full Function, Faster®

MicroPort Orthopedics Inc.
5677 Airline Road
Arlington, TN USA 38002
866 872 0211

microportortho.com

The CE-Marking of Conformity is applied per catalog number and appears on the outer package label, if applicable.