Joint stability can be affected by many factors, including offset and leg length. When the selected primary stem provides adequate leg length but the joint requires additional offset, the concern is potential post-operative dislocation. Do you sacrifice leg length or offset? With the AcuMatch® M-Series, you sacrifice neither.

The M-Series uncouples offset and leg length, providing surgeons a unique way to restore joint stability in complex total hip arthroplasty. Leg length and offset challenges are easily overcome by selecting from two offsets, each with multiple vertical height options.
THE NECK SEGMENT

- High and low offset necks predictably restore normal anatomy.\textsuperscript{1,2,3,4}
- Multiple vertical height options provide for leg length adjustment.
- Machined neck flats decrease neck cross section resulting in an increase in range of motion.\textsuperscript{5,6,7,8}
- Low Plasticity Burnishing increases fatigue strength of neck segment by more than 30 percent.\textsuperscript{14}

MECHANICAL RANGE OF MOTION

Cup Position:
45 degrees abduction,
20 degrees anteversion\textsuperscript{5,6}

54°
Extension

114°
Flexion

41.2mm
Length

25mm
35mm

41.2mm
Offset

41.2mm
36.2mm

Adjust leg length without affecting offset

Adjust offset without affecting leg length
How do you deal with unpredictable bone loss?

Nothing is routine about revision total hip surgery. It is an art. Frequently, unpredictable bone loss results from retrieval of the previously implanted stem. What do you do?

The AcuMatch M-Series’ patented three-segment stem design* gives you more than 33,000 possible neck/metaphyseal/stem constructions. Customize your solutions to a wide range of proximal bone-loss situations.

*Combined with Exactech’s five femoral head lengths
THE METAPHYSEAL SEGMENT

- Trapezoidal shape provides excellent rotational stability for proximal loading and ensures greater bone surface contact.\(^9\)
- Optimized interference fit and 1mm of pure titanium plasma spray achieve the goal of biologic attachment.
- Available in diameters of 21-31mm and x-small (21, 23 and 25mm only), small, medium and large flare options.
- Calcar replacing segments are available for instances where the medial flare of the metaphysis is deficient.

PROXIMAL/DISTAL MISMATCH

A: Smallest stem coupled with largest metaphyseal segment
B: Largest stem coupled with smallest metaphyseal segment
In some patients, the bow of the femur is lateral. In others, the acetabulum is slightly anteverted or retroverted. If you need a long curved stem for a patient with atypical anatomy, do you choose neck version or stem placement? With the M-Series, you don’t have to choose.

The M-Series allows independent neck version and stem placement to minimize the potential for femoral fractures and post-operative dislocation.
THE STEM SEGMENT

- Sharp flutes provide a solid fit in the canal resulting in rotational stability.
- Coronal slot and patented distal tip geometry decrease the incidence of thigh pain.\(^{10}\)
- Forged titanium more closely matches the modulus of elasticity of bone.
What do you want most from your prosthesis?

Confidence in design and construction is an important factor in prosthesis selection.

Exactech® optimized the AcuMatch M-Series design using Finite Element Analysis and extensive mechanical testing. Its taper integrity and strength have been validated at a respected independent laboratory.11 Testing — including bending and torsion — simulated physiological loading which represented activities of daily living.12,13

The results categorized taper wear as “mild” at loads of 6.4 times body weight. Percentage of damage area was categorized as “mild” with only 5.9 percent to 7 percent of total taper surface area affected.12,13

Continuous product improvement is a priority at Exactech, and when new technology was identified that could enhance the fatigue strength of metals, the M-Series was selected as a logical first application. Low Plasticity Burnishing (LPB) is a patented process that increases the fatigue strength of the M-Series neck segment by more than 30 percent.14

From joint stability to bone loss to atypical anatomy, the AcuMatch M-Series is the answer for difficult surgical situations.

REFERENCES