

Marmor Modular Knee System and Tronzo Total Hip System advertisement.

[s.l.]: [s.n.], 1969

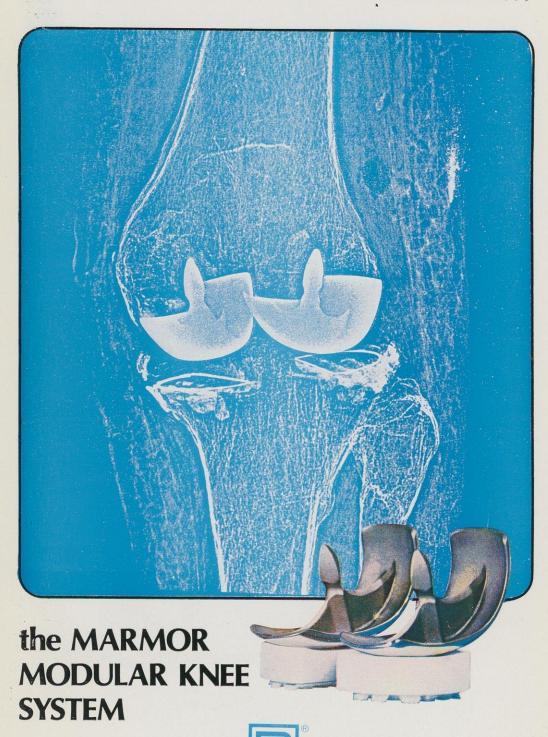
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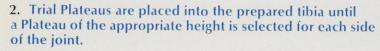
THE CONSERVATIVE APPROACH TO TOTAL KNEE REPLACEMENT...



Simplified Technique Permits Continuous Testing and Adjustment of the Device at Surgery



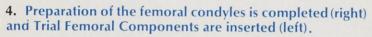
1. Utilizing the Tibial Marking Template, the position of the tibial component is indicated with methylene blue (right) and the plateau is deepened to accept the component (left).







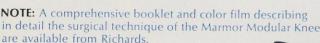
3. A Femoral Template of appropriate size is fitted to each femoral condyle, the template is outlined with methylene blue and a central fixation hole is drilled through the template.







5. The joint is tested with tibial and femoral trial components in place. When satisfactory motion and alignment are achieved, the actual Tibial Prostheses are cemented into place and the joint is again tested. Finally, the actual Femoral Prostheses are cemented into place and the knee replacement is complete.







the MARMOR MODULAR KNEE SYSTEM

patent pending

This precise grouping of interchangeable prosthetic components and simplified instruments permits total or partial replacement of the articulating surfaces of the knee while leaving the widest possible surgical latitude in fulfilling the needs of the individual patient.

- Seven interchangeable prosthetic components may be used in nearly any combination to custom-fit anatomical variances.
- Availability of tibial components in varying heights permits correction of varus or valgus deformities without cement 'layering.'
- Four-part design allows independent restoration of either compartment of the knee when only one side is affected.
- Components are designed to approximate natural joint surfaces so that there are no grooves or tracks to dislocate.



- Normal rotation may occur in the joint without placing undue stress upon cement in the tibia.
- Plastic tibial components are easily replaceable should they become worn.
- Simple insertion procedure requires no precision jig-cutting of bone: retains all natural ligaments intact.
- Minimal bone removal and cement usage leaves the widest possible surgical latitude.

Interchangeable prosthetic components are designed to approximate as nearly as possible the natural articulating surfaces of the knee. Any of the three sizes of femoral components may be combined with a tibial component of appropriate height to custom-fit each case presented.

Femoral Component

316 type stainless steel



(side view)
finned to provide optimal stability
in a small amount of cement



(bottom view)
micro-polished articulating
surface is clearly marked
anterior and posterior.

Tibial Component

ultra high molecular weight polyethylene



(side view) features self-locking cement channels and radiopaque marker



(top view) articulating surface of identical size is common to all plateaus.



A Simple and Logical System of Instruments, **Trial Implants and Prostheses**

TEMPLATES



Marking Template

The arrangement of instruments, trial implants and prostheses in the Marmor Modular Knee System has been designed to facilitate a logical sequence of marking, testing and fitting the correct components to the individual knee. Trial implants are clearly distinguishable and preclude inadvertent damage to the actual components during surgery.

TRIALS

IMPLANTS



6mm Trial Plateau



6mm Tibial Plateau



9mm Trial Plateau



9mm Tibial Plateau



12mm Trial Plateau



12mm Tibial Plateau



15mm Trial Plateau



15mm Tibial Plateau



Small Femoral Template



Small Femoral Trial



Small Femoral Condyle







Medium Femoral Template Medium Femoral Trial Medium Femoral Condyle



Large Femoral Template



Large Femoral Trial



Large Femoral Condyle



Femoral Template Driver/Extractor



Femoral Condyle Driver/Impactor



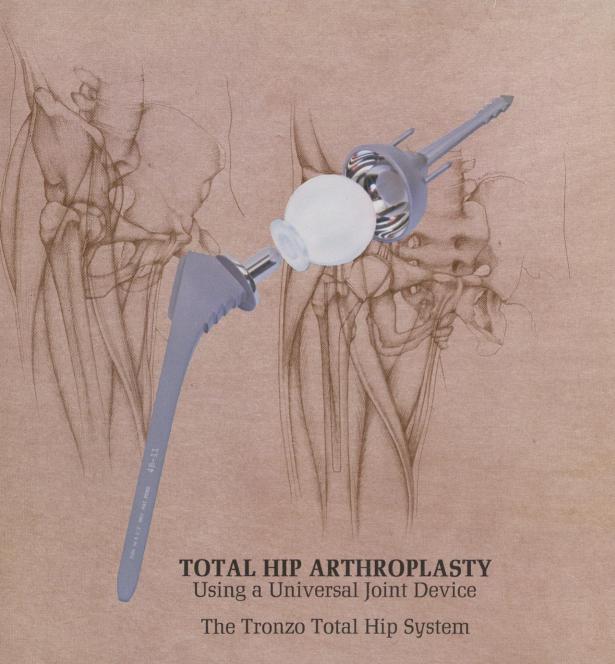
Plastic Cement Spatula



Tibial Plateau Impactor

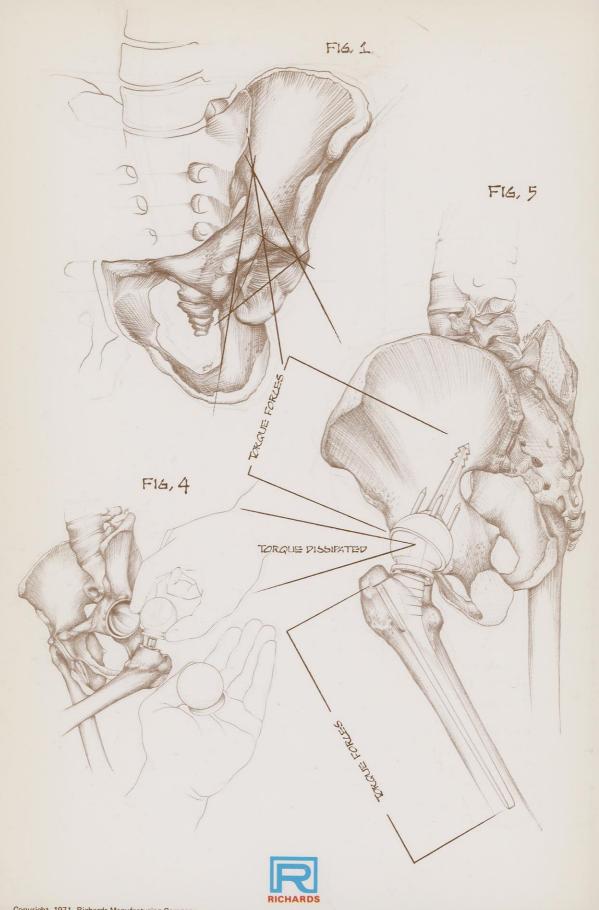
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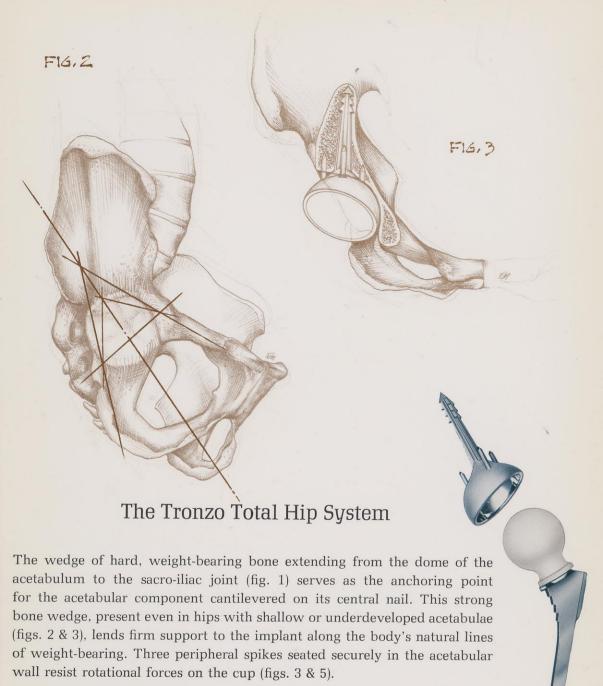
IN CANADA, RICHARDS SURGICAL LIMITED, 130 EAST DRIVE, BRAMALEA, ONTARIO, (416) 677-9744



Use of this total hip system presents a number of unique options in the performance of low-friction total hip arthroplasties. Because it is equally adaptable to implantation with or without acrylic bone cement (polymethylmethacrylate) the Tronzo Total Hip is the only prosthesis with a solid, high-density polyethylene bearing surface that leaves the use of cement to the surgeon's discretion. The carefully engineered, three-part device overcomes many traditional barriers to sound fixation by providing a consistent outlet for minimizing those factors normally associated with prosthetic loosening and pain. Additionally, the versatility of interchangeable stems and necks in different sizes allows the surgeon to "custom fit" the device to individual patients.







A high density polyethylene ball moves freely within the acetabular cup and upon the spindle and collar of the femoral component. Virtually all prosthesis wear is thus confined to the softer material of the ball which may be replaced at some future time without disturbing the metal components (fig. 4). Torque forces exerted on the total device are dissipated at the ball, greatly minimizing their loosening effect on the other components.



The Tronzo Total Hip System PAT. PEND.

IMPLANTS

Stainless Steel*Femoral Stems

Three different size stems are available to meet the surgeon's need for achieving firm fixation in various caliber femoral canals.



Stainless Steel*Acetabular Cup



High Density Polyethylenet Balls Three interchangeable neck lengths allow restoration of the abductor muscles to their proper tension.

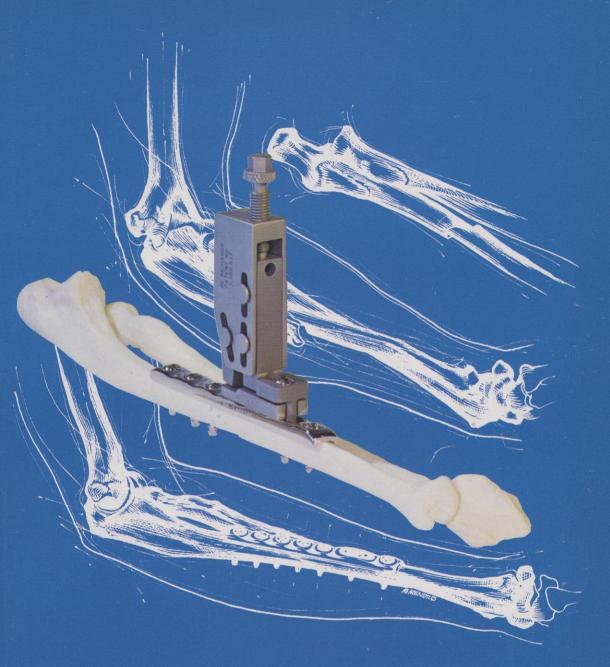


*type 316L VM stainless steel †ultra-hi molecular weight Polyethylene

A complete set of precision instruments available from Richards facilitates accurate implantation of the Tronzo Total Hip implants.

The illustrated booklet and surgical technique entitled "Total Hip Arthroplasty Using a Universal Joint Device With or Without Acrylic Cement" will be furnished to interested readers upon request.

RICHARDS MANUFACTURING COMPANY



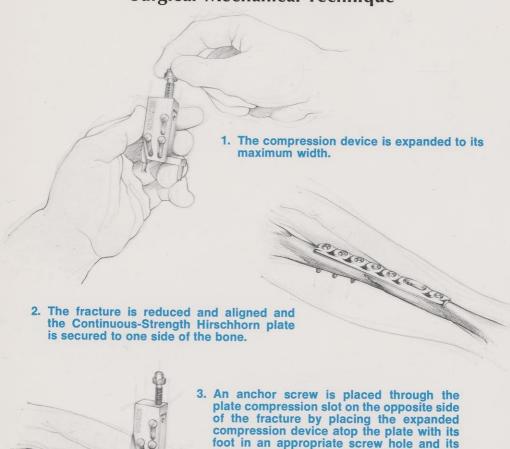
optimal fixation/minimal exposure

the RICHARDS-HIRSCHHORN
Compression Bone Plating System



the RICHARDS-HIRSCHHORN Compression Bone Plating System

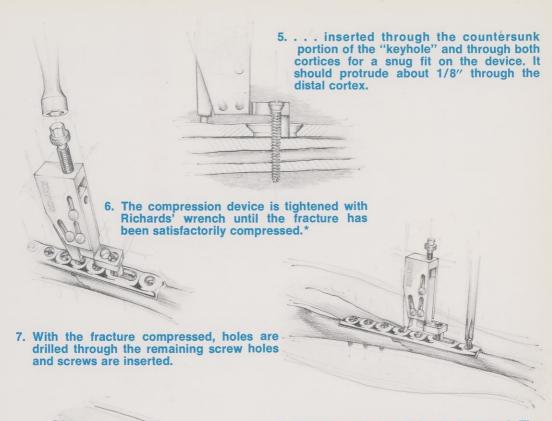
Surgical-Mechanical Technique



"keyhole" positioned over the slot. Then . . .

4. . . . the drill guide is placed in the countersunk (smaller) portion of the "keyhole" and a hole drilled through both cortices. A depth gauge inserted through the "keyhole" to the distal cortex will determine the proper length anchor screw required. The screw is selected and . . .





8. The compression device is loosened. The anchor screw, then the compression device are removed. A hole is drilled through the screw hole occupied by the foot of the device and a screw inserted.

 A final screw is placed in the hole left by removal of the anchor screw. Procedure complete.

*Compression need only be firm enough to achieve good approximation of fragments with care being taken not to "over-compress" the fracture.

Compression bone plating by the Richards-Hirschhorn "over-the-plate" system substantially reduces the exposure associated with this type of procedure. The compression device is placed above and proximal to the fracture site, reducing the bone's tendency to bow or misalign as compression is applied. The anchor screw is placed through a compression slot in the central portion of the plate so that it holds the bone snugly to the plate at the point where compression occurs. Compressing force, precisely controlled by the surgeon, is transmitted directly to the bone fragments which are guided into proper apposition along the tracked plate undersurface. The anchoring screw hole is later fully utilized to assist in plate fixation.



the RICHARDS-HIRSCHHORN Compression Bone Plating System

Hirschhorn Continuous-Strength Bone Plates*



Hirschhorn Bone Plates—Precisely crafted of type 316L Stainless Steel*, these plates in four widths and a wide range of lengths incorporate Richards exclusive* Continuous-Strength design with tracked undersurface to provide superior strength characteristics and minimal periosteal contact.

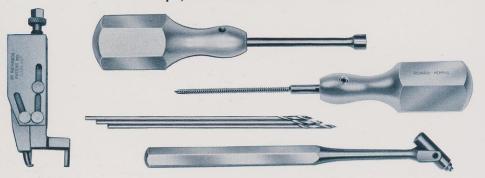


Richards Buttress Threaded Bone Screws

Richards Buttress Threaded Bone Screws—with Radial Fluted Bechtol Points are available in both Hi-Torque and smaller diameter styles to complement extra-strength Hirschhorn Bone Plates with positive holding power provided by non-slip, flat topped threads and fortified shaft.



Richards-Hirschhorn Compression Device,* Compression Wrench, Bone Taps, Twist Drills and Drill Guides.



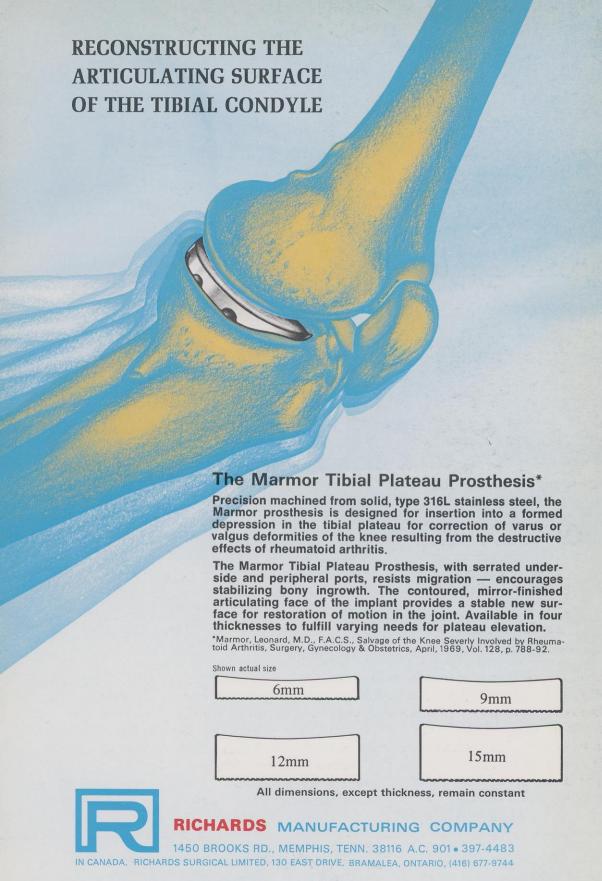
*Richards Continuous-Strength Bone Plates U. S. Patent No. 3, 463, 148

*Richards-Hirschhorn Compression Device U. S. Patent No. 3, 386, 437 All implants fabricated from type 316L Stainless Steel

NOTE: An eight-page guide to Hirschhorn Compression Bone Plating, implants, instruments and sets is available upon request from Richards.

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1. U.S. Pat. No. 3,386,437 (Type 316L stainless steel).

2. U.S. Pat. No. 3,463,148





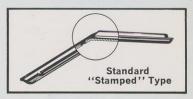
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strength throughout with very little additional bone displacement over standard styles.

As with all Richards type 316L stainless steel implants, the Drop-Forged Neufeld Nail is electro-polished for maximum tissue tolerance. Exacting controls and skilled craftsmanship in manufacture insure you of the highest quality always.









... and impaction at surgery with minimum trauma.

A comprehensive system of interchangeable parts . . . **Richards Drop-Forged** Compression Hip Screw.

The versatility of Richards Compression Hip Screw enables the Orthopedic Surgeon to perform a multitude of hip procedures with a single instrument set and a small number of completely interchangeable plates and screws.

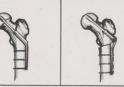
Continuous-Strength plate construction, obtained by drop-hammer forging type 316L stainless steel at white-hot temperatures, increases strength at screw holes for greater reliability.

Sliding action permits firm, controlled impaction at surgery . . . maintains bone-to-bone contact throughout absorption process.

for these procedures



ARTHRODESIS INTRACAPSULAR FRACTURES



OSTEOTOMY







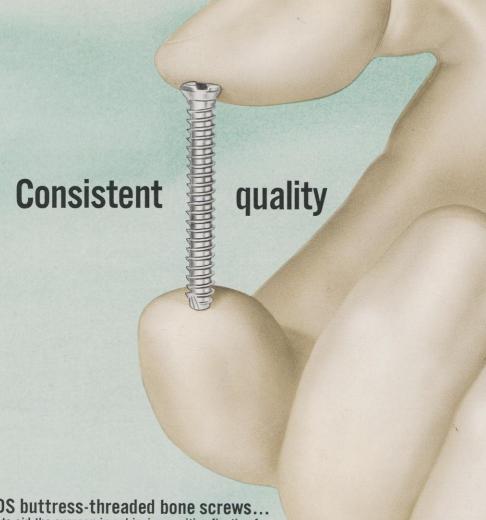
INTERCERVICAL INTERTROCHANTERIC **FRACTURES**

(for complete information write dept Ch)



IN CANADA, RICHARDS SURGICAL LIMITED, 130 EAST DRIVE, BRAMALEA, ONTARIO, (416) 677-9744





RICHARDS buttress-threaded bone screws...

engineered to aid the surgeon in achieving positive fixation for fracture and plating procedures. RICHARDS bone screws, all of type 316L stainless steel, are machined to exacting tolerances for dimensional consistency and electro-polished for maximum tissue tolerance.

(less chance of slippage with buttress threads)

buttress thread



Buttress thread design gives exceptional torque-strength and holding power yet displaces less bone than standard threaded screws.

Self-tapping Bechtol point with three radial cutting flutes (standard screws have only two cutting flutes) facilitates insertion, reduces friction to the bone . . . screwdriver fatigue to the surgeon.





Bechtol

standard

Cruciate head provides better control . . . less slippage (takes standard screwdriver).



RICHARDS BONE SCREWS with the above features are available in 1/4", 5/32", 9/64" and 7/64" diameters in a wide selection of lengths for every need.



RICHARDS MANUFACTURING CO.

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