

3M

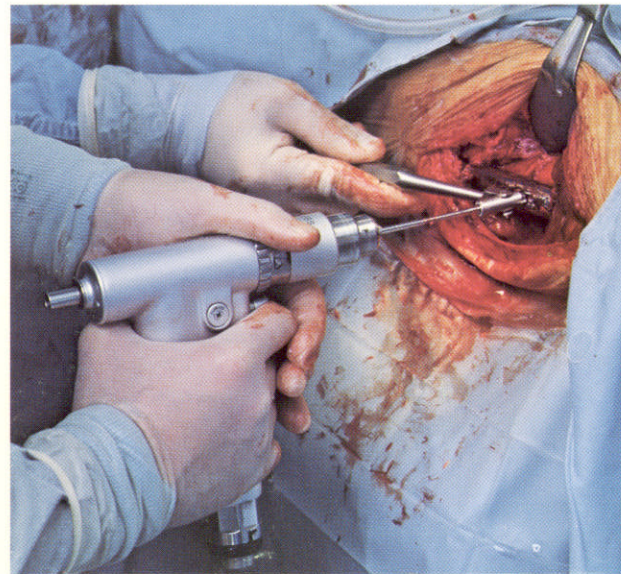
In large bone surgery



SEVEN LARGE BONE PROCEDURES: ONE AIR

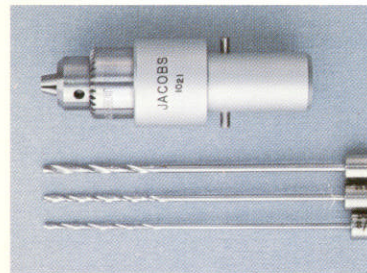
Drilling

Bone preparation to accept surgical screws



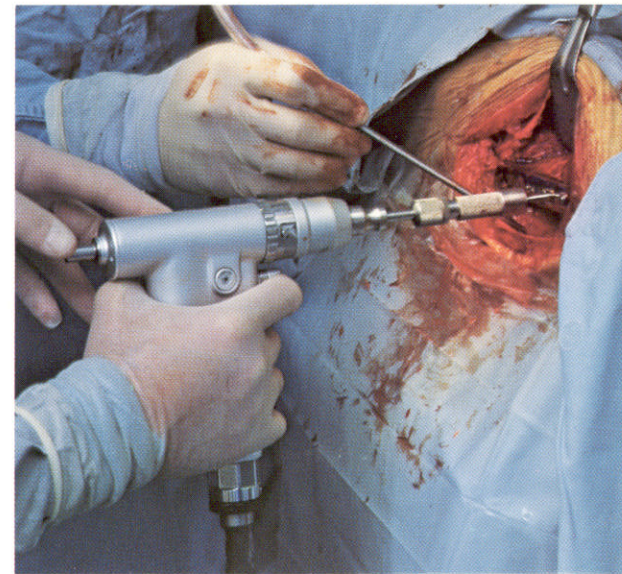
Instrumentation:

L-110 Jacobs Chuck Insert
Drills



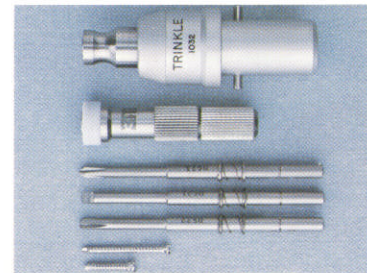
Screwdriving

Fixation of bone plates, nails and internal reduction devices



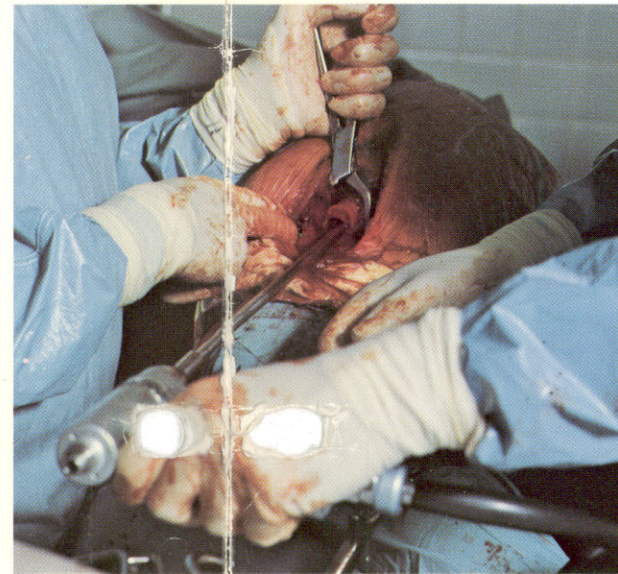
Instrumentation:

L-112 Trinkle Chuck Insert
D-520 Automatic Screwdriver Insert
Bits
Screws



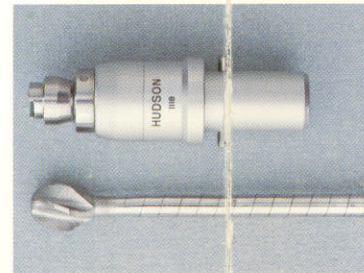
Reaming (intramedullary)

Preparation of intramedullary canal of femur for implant



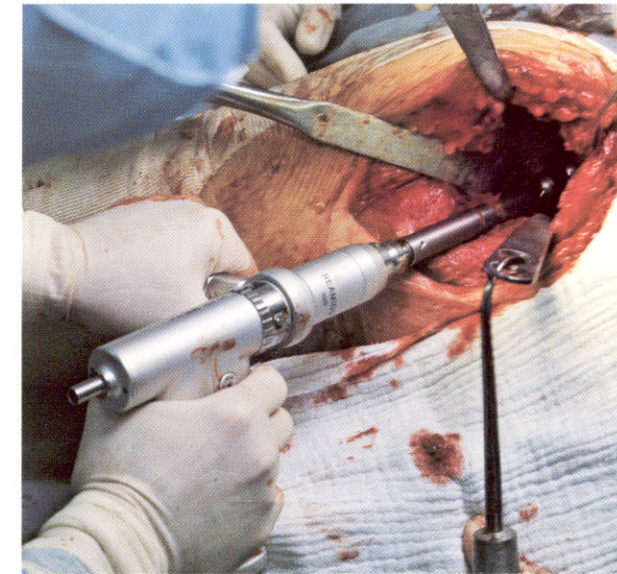
Instrumentation:

L-113 Hudson Chuck Insert
Intramedullary Reamer



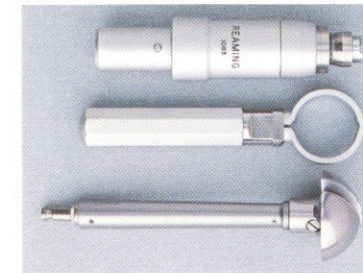
Reaming (acetabulum)

Preparation for joint repair



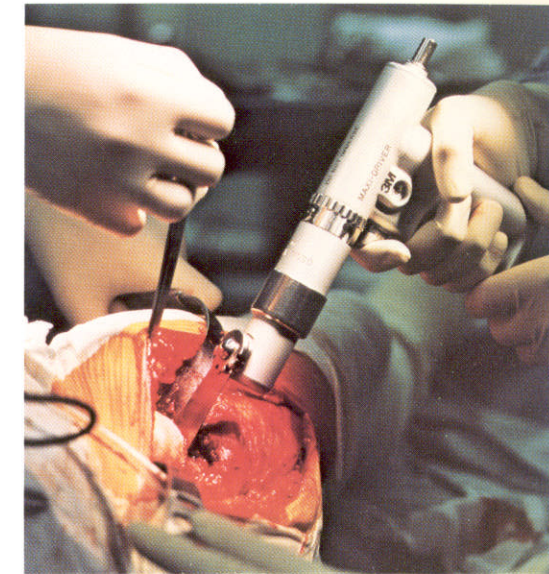
Instrumentation:

L-150 Reaming Driver Insert
L-296 Holding Handle
Mira Reamers



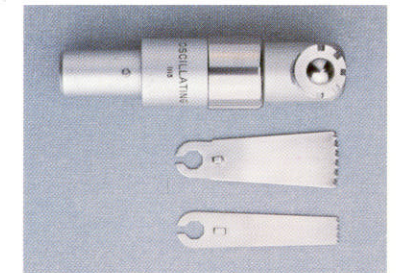
Sawing (oscillating)

Large bone osteotomy, removal of femoral head in preparation for implant



Instrumentation:

L-120A Oscillating Saw Insert
Blades



3M MAXI-DRIVERTM
Air Instrument System

Sawing (reciprocating)

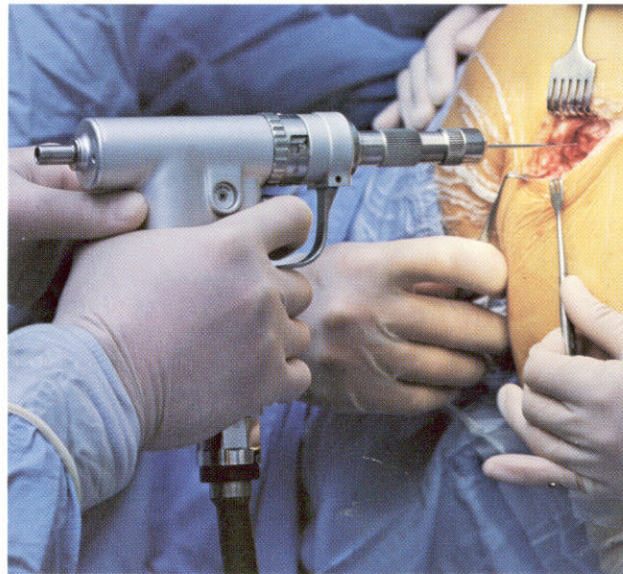
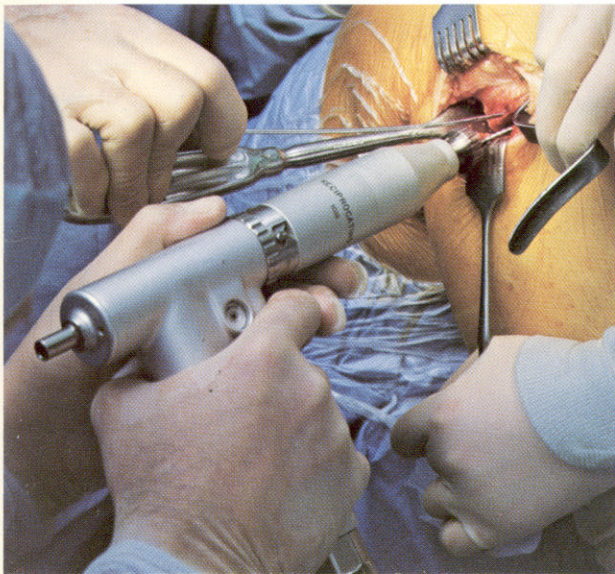
Large bone osteotomy
preparation of tibial plateau
for implant

Pinning

Internal placement of pins
temporary fixation of large bones,
guides for x-ray and reaming,
anchoring traction devices

ning (intra

aration of int
of femur for



Instrumentation:

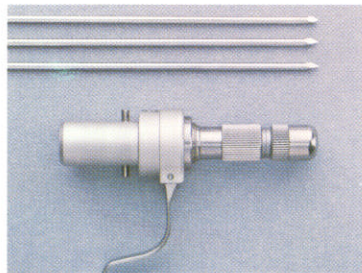
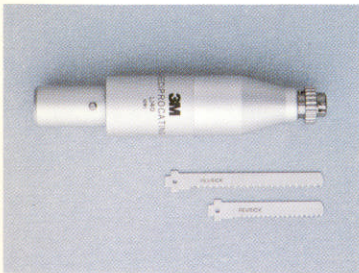
L-140A Reciprocating Saw Insert
Blades

Instrumentation:

L-111 Automatic Pin Insert
Steinmann pins

mentation:

Hudson Ch
medullary Re



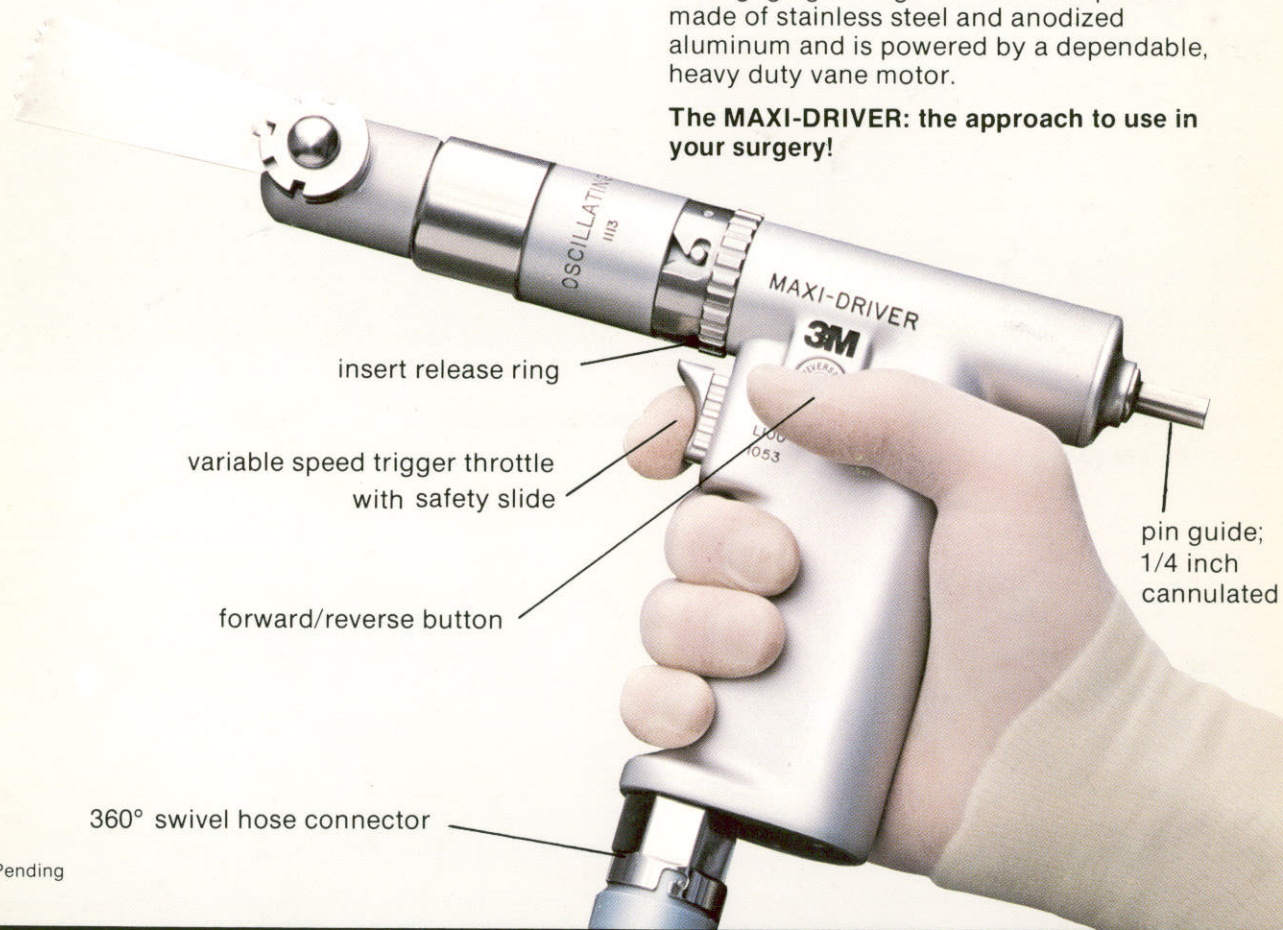
3M MAXI-DRIVERTM

Air Instrument System

the multi-purpose handpiece designed with interchangeable inserts for in-surgery convenience and operating efficiency

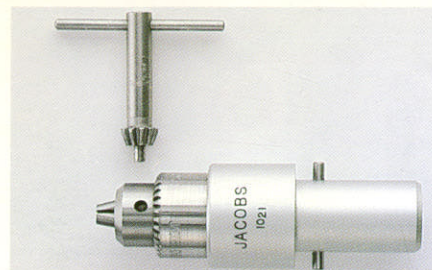
Contoured and comfortably balanced, the Maxi-Driver develops sufficient power to deliver the speed and torque necessary for large bone surgery. All inserts can be changed quickly and easily without tools and the Maxi-Driver's unique positive locking mechanism minimizes the possibility of inserts disengaging during use. The handpiece is made of stainless steel and anodized aluminum and is powered by a dependable, heavy duty vane motor.

The MAXI-DRIVER: the approach to use in your surgery!



Patent Pending

L-110 Jacobs Chuck Insert



Chuck is cannulated and will accept drills, pins and accessories up to 1/4 inch diameter.

L-112 Trinkle Chuck Insert



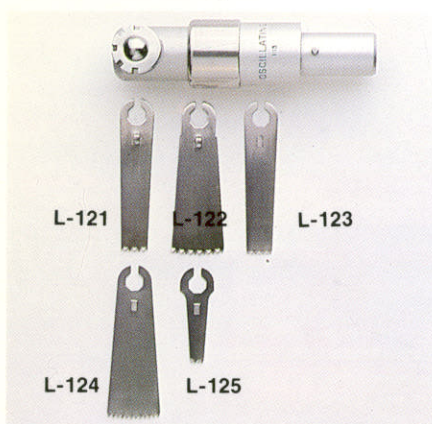
Chuck accepts screwdrivers, twist drills and other accessories that have Trinkle arbors.

L-113 Hudson Chuck Insert



Chuck is cannulated and accepts accessories that have Hudson arbors.

L-120A Oscillating Saw Insert



The saw insert can be engaged into the handpiece in four positions. Blades can be attached in five positions. No tools are required to attach or remove blades. Blades oscillate at 11,000 cycles per minute with a maximum 1/4 inch excursion arc.

- L-121 13mm, standard cut
- L-122 31mm, standard cut
- L-123 13mm, thin cut
- L-124 31mm, thin cut
- L-125 8mm, thin cut

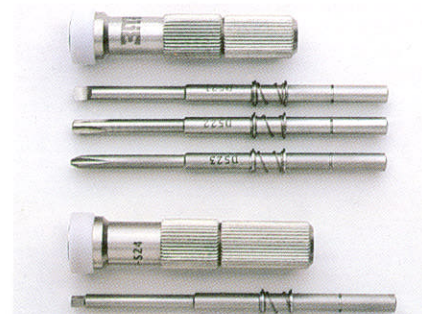
L-140A Reciprocating Saw Insert



The saw insert can be engaged into the handpiece in four positions. Blades can be inserted in two positions. No tools are needed to insert or remove the blades. Positive blade locking mechanism minimizes chance of blades disengaging during surgery. Blades reciprocate at 3000 strokes per minute with a 1/4 inch stroke.

- P-510 68.5 mm fine tooth
- P-511 68.5 mm coarse tooth
- P-512 94 mm coarse tooth
- P-513 94 mm fine tooth

D-520 Automatic Screwdriver



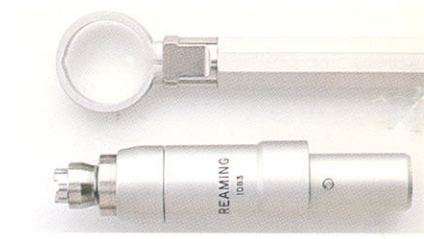
The screwdriver insert is designed with a unique four-ball holding mechanism that securely grasps a screw for positive positioning and driving without wobble. The screwdriver is made of stainless steel and features an automatic self-releasing collet that allows a screw to be inserted or removed without the screwdriver disengaging.

The insert is available with three interchangeable stainless steel bits — slotted, cruciate and Phillips. The D-520 insert fits into a L-112 Trinkle Chuck Insert for use with a Maxi-Driver.

Also available: D-524 Automatic Screwdriver Insert with hex bit for AO/ASIF screws.

Screwdrivers conform to ASTM specification F116.

L-150 Reaming Drive Insert L-296 Holding Handle



Reaming drive insert develops low speed and high torque for heavy duty reaming. The insert reduces the Maxi-Driver speed to 220 rpm. Holding handle provides additional stabilization.

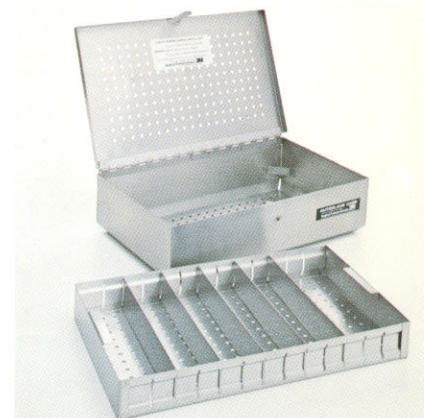
L-111 Automatic Pin Insert

Patent No. 3975032



The quick-release chuck lever allows pin insertion and advancement without the use of additional keys and accessories. Internal cannulation of insert will accommodate wires and pins from 1/16 inch (1.6 mm) to 5/32 inch (4.0 mm).

M-306 Autoclave Case



Made of stainless steel, the autoclave case was designed specifically for sterilization of powered instruments.

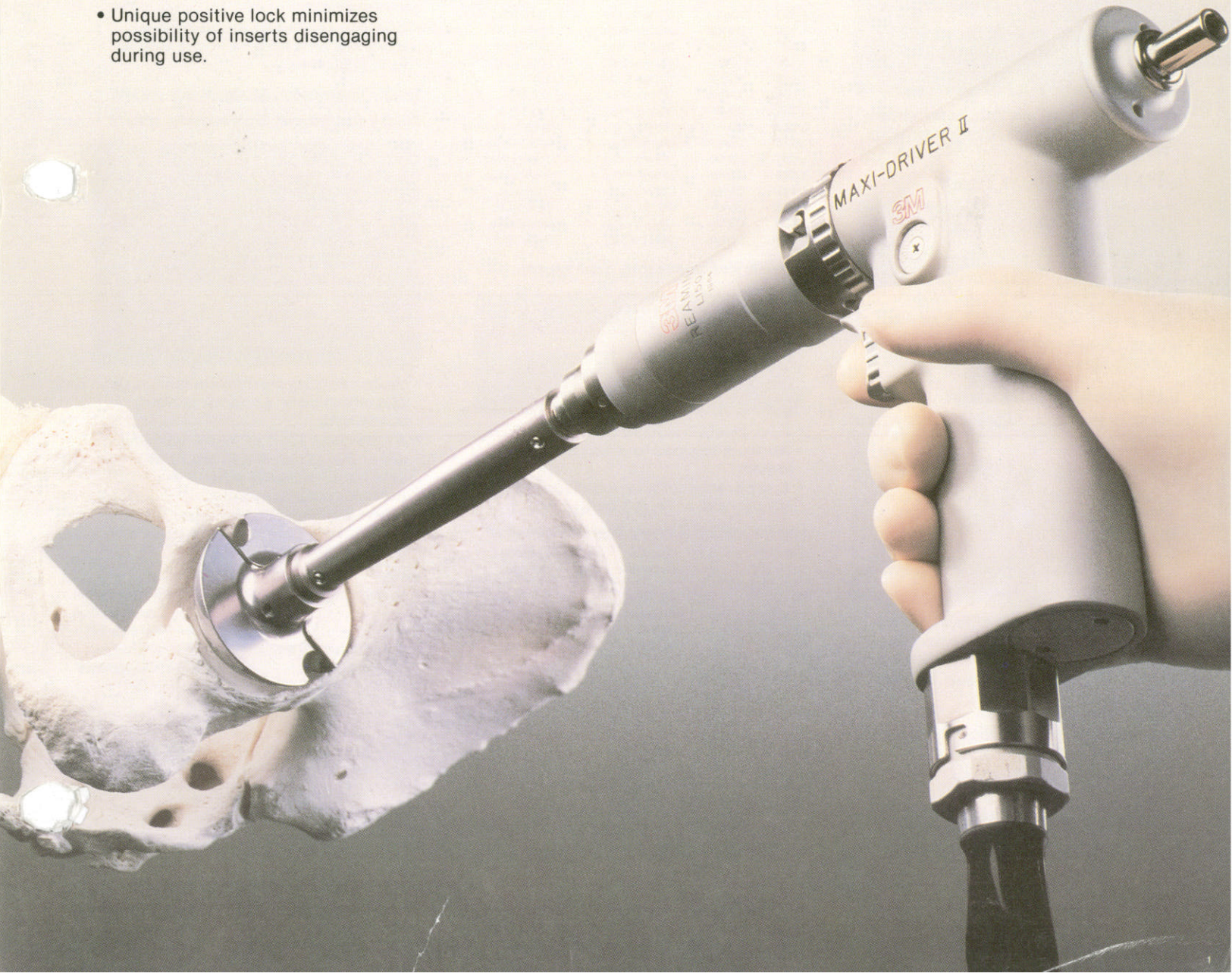
Versatility for large bone procedures

Maxi-Driver™ II

3M

POWERED INSTRUMENT SYSTEM

- Modular system with interchangeable inserts for drilling, screwdriving, reaming, sawing and pinning.
- Powerful, high-torque handpiece is contoured, comfortably balanced and durable.
- All inserts change quickly and easily without tools.
- Unique positive lock minimizes possibility of inserts disengaging during use.



L-100 Handpiece



2

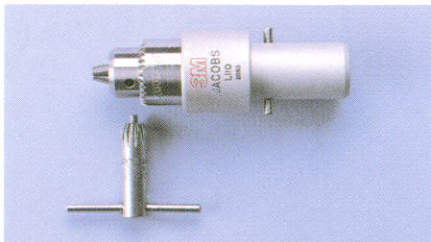
Specifications

- Vane motor
- Variable speed: 0-960 rpm (nominal)
- Stall torque: 29.2 in-lb (3.3 newton-meters)
- Weight: 31.4 oz (855g)
- Normal operating pressure: 100 psi (688 KPa)

- Nitrogen consumption: 12 scfm (.0057 meters³/sec)
- Material: Anodized aluminum/stainless steel

Inserts & Accessories

L-110 Jacobs Chuck Insert



3

- Cannulated, accepts drills, pins and accessories up to 1/4 in (6.3 mm) diameter.

L-112 Trinkle Chuck Insert



4

- Fully cannulated, accepts screwdrivers, twist drills and other accessories with Trinkle arbors.

L-113 Hudson Chuck Insert



5

- Fully cannulated, accepts accessories with Hudson arbors.

L-150 Reaming Drive Insert



6

- Fully cannulated, insert develops low speed and high torque for heavy duty reaming; reduces Maxi-Driver II system speed to 250 rpm. Stall torque: 115 in-lb

L-296 Holding Handle

- Handle provides additional stabilization.

L-120A Oscillating Saw Insert



7

- Four position saw; five position blades.
- No tools required to insert or remove blades.
- Blades oscillate at 17,000 (nominal) cycles per minute with maximum 1/4 in (6.3 mm) excursion arc.

Oscillating Blades, Steril-Packaged

Cat. No.	Blade Width	Overall Length*	Cut Thickness
L121	13mm	85mm <i>med.</i>	1.7mm <i>std.</i>
L122	29mm	85mm <i>med.</i>	1.7mm <i>std.</i>
L123	13mm	85mm <i>med.</i>	1.2mm <i>fine</i>
L124	29mm	85mm <i>med.</i>	1.2mm <i>thin</i>
L125	6mm	53mm <i>short</i>	1.1mm <i>thin</i>
L126	13mm	85mm <i>med.</i>	1.7mm <i>std.</i>
L127	29mm	85mm <i>med.</i>	1.7mm <i>std.</i>
L128	29mm	84mm <i>med.</i>	1.0mm <i>x-fine</i>
L129	13mm	84mm <i>med.</i>	1.0mm <i>x-fine</i>
L130	29mm	98mm <i>long</i>	1.0mm <i>x-thin</i>
L131	29mm	98mm <i>long</i>	1.0mm <i>x-thin</i>
L132	29mm	98mm <i>long</i>	1.7mm <i>std.</i>
L133	29mm	98mm <i>long</i>	1.3mm <i>thin</i>
L134	19mm	98mm <i>long</i>	1.9mm <i>thick</i>
L135	19mm	98mm <i>long</i>	1.3mm <i>thin</i>

L-140A Reciprocating Saw Insert



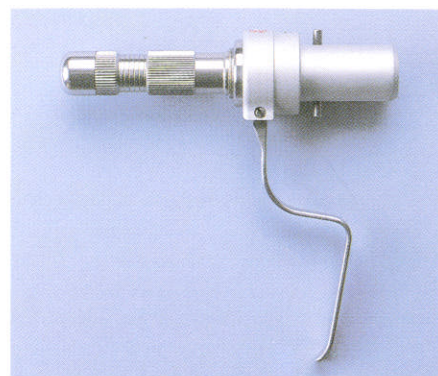
8

- Four position saw; two position blades.
- No tools required to insert or remove blades.
- Blades reciprocate at 4,800 strokes per minute with 1/4 in (6.3 mm) stroke.

Reciprocating Blades, Sterile Packaged

Cat. No.	Overall Length*	No teeth per cm.
P510	68.5mm	7.0 <i>fine</i>
P511	68.5mm	5.5 <i>coarse</i>
P512	94mm	5.5 <i>coarse</i>
P513	94mm	7.0 <i>fine</i>

L-111 Automatic Pin Insert

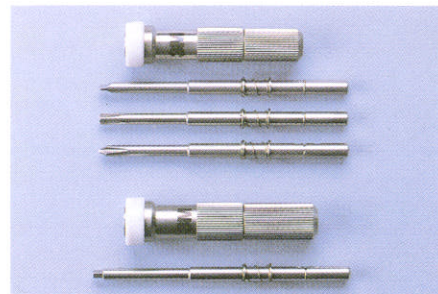


9

- Quick-release for easy pin insertion and advancement.
- Internal cannulation accommodates wires and pins from 1/16 in (1.6 mm) to 1/2 in (3.96 mm).

D-520 Automatic Screwdriver Insert

D-524 Automatic Screwdriver Insert



10

- Unique holding mechanism enhances stability of bone screw for positive positioning.
- All stainless steel with self-releasing collet that allows the screw to be inserted or removed without the screwdrivers disengaging.
- Automatic Screwdriver inserts, fit into L-112 Trinkle Chuck insert for use with the Maxi-Driver II system.

Bits

- D-520 Screwdriver with D-521—Slotted bit
D-522—Cruciate bit
D-523—Phillips bit
- D-524 Screwdriver with D-525—Hex bit—
for ASIF/AO screws