Ergonomic Handling Systems





Left to right: 6" mandrel with pneumatic retract, 3" toggle retract, 3" "T" handle retract, 50 mm urethane mandrel with locking toggle handle and 6" leaf-type mandrel with pneumatic expand and retract.



Numerous gripper surface profiles are avialble. Left to right: Standard, Piranha, Urethane, Shark and Fine-tooth.

LIFT · TURN · TRANSPORT · LOAD · UNLOAD · STACK · STORE · PACKAGE · PALLETIZE

"Back Injuries - Nations Number One Workplace Safety Problem." The U.S. Department of Labor reports that more than one millionworkers suffer back injuries in the U.S. each year, costing industry billions of dollars on top of the pain and suffering borne by employees. Ergonomic Handling Systems will minimise or eliminate the risk of operator injury and maximise productivity and profits.

Standard Features:

Rugged and durable Automatic expansiion "fail-safe" Change sizes with no tools Universal - fits all MH equipment Easy to change wear parts Aluminum or alloy steel contruction Anodized or nickel plated finish Made in U.S.A.

Specifications:

Maximum load capacity: Up to 2,200 lbs (1000kg) depending on handling equipment type Core diameters 2" (50 mm) to 16" (406 mm)

Low Cost

- Modular Design
- Simple Function
- Made In U.S.A.
- Safe, Easy and Economical

Our **Universal Mandrels** are at the heart of all handling systems, enabling our devices to lift and turn rolled materials by securely gripping the inside of the roll's paper, plastic or metal core, without slipping, and without substantial damage to the core.

Universal Mandrels fit all types of handling equipment and can be changed in seconds without tools.

Universal Mandrels are *fail-safe*. Grippers expand automatically by spring force. Simply insert the mandrel into the core and lift the roll. The grippers remain expanded until the load is fully supported. Only then can the grippers be retracted by the operator.

Grippers can be retracted manually with toggle or "T" handles attached directly to the mandrel, or remotely for increased operator convenience with pneumatic, manual or electric retractors.

Universal Mandrels are available with a number of gripper surface profiles to ensure the safest grip with the least possible damage to the core.

Important Note! We cannot guarantee the performance of its grippers in all applications. Some applications may require experimenting with different gripper surface profiles to find the best fit with your cores. Consult for recommendations of which gripper type is best for your application.

Options & Accessories:

Custom Length
Core Stop
Bumper Nose
Pneumatic and Manual Retract Kit
Spare Mandrel Holder
Powered Remote Retract
Rollers
Stainless Steel Hardware
Rotating
Mandrel Insertion Depth Graduations
High Use Upgrade Package

Minimise Risk. Maximise Profits!



Our website: www.materialshandling.com.au Phone us: 1300 65 00 35 Fax us: 1800 68 68 96 Email us: sales@materialshandling.com.au

Australia Wide Sales and Service

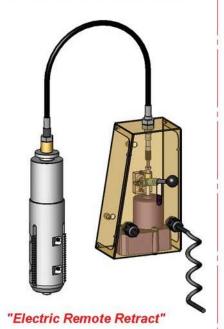
MATERIALS Handling Working with ease-

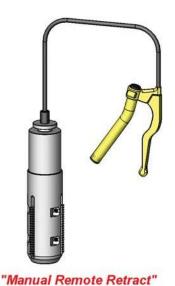
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Mandrel Options & Accessories 2/28/2005

REMOTE RETRACT OPTIONS

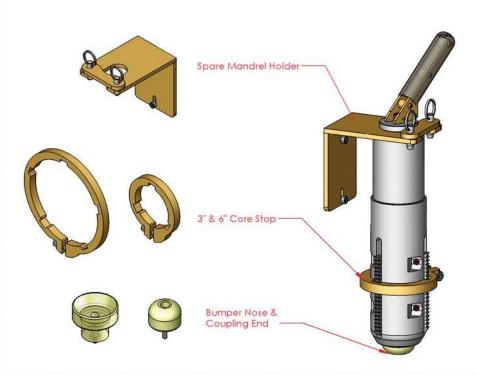






"Pneumatic Remote Retract"

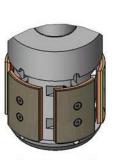
ACCESSORIES OFFERED



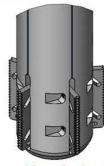
GRIPPER MODIFICATIONS OFFERED



"Transfer Rollers" (replaces one gripper)

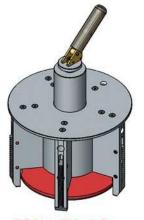


"Leaf Segments" (Urethane)



"Increased Expansion Range" and "Indicator Marks"

SAMPLE CUSTOM MANDRELS



"LT Standoff Mandrel" (large core diameters) (light weight design)



"Custom Couplings and Spindle Alignment Features Available"



"Rotating Mandrel" (mandrel rotates to allow material winding)

MATERIALS

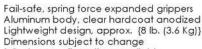
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3 Inch Standard Mandrel

For use with 3" ID cores

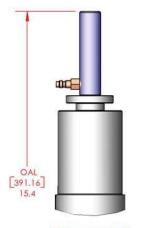


* Custom configurations available

RETRACTION METHODS



Most common machines: (MRT, HRL, VRL)



"Pneumatic"

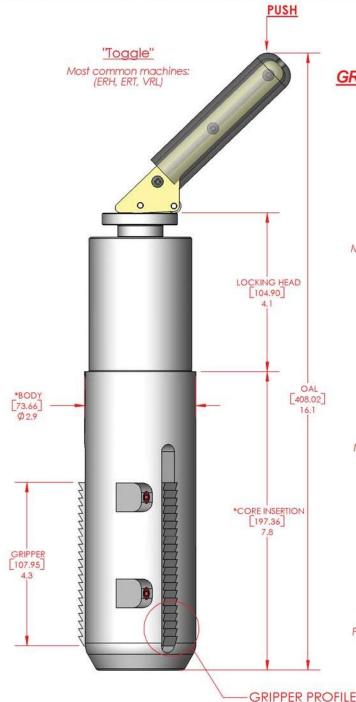
Most common machines: (MRT, HRL, VRL, ERT) Continuous air supply present (50 psi min.) Pneumatic Retract Kit Sold Separately



"Remote"

Most common machines: (ERH, ERT) Electric Remote Retract (24VDC, 110VAC)

Manual Remote Retract (Cable & Hand Lever) Remote Retract Kits Sold Separately







Steel, Aluminum Cores Non-marking 60-70 shore A



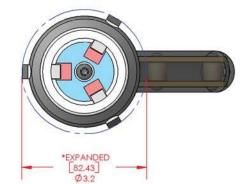
"Shark Tooth"

PVC, Hard Cardboard Cores Double Edge Contact



"Piranha Tooth"

PVC, Hard Cardboard Cores Single Edge Contact -High Wear



MATERIALS

Handling working with ease.

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6 Inch Standard Mandrel

For use with 6" ID cores

COLES

