



## Company Profile

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"Your tooling component  
Supplier for the 21st century"





## > OUR PROFILE

A dynamic global group serving the needs of tool builders and OEM's across all industries and all continents. With a motivated and dedicated team we have become a fully integrated, single source provider of quality solutions. Our dedication and commitment to your every need coupled with our unsurpassed quality and manufacturing excellence makes us what we are:

*Your tooling component supplier for the 21st century*



Accredited to **ISO 9001**, we're here to give you the highest possible level of quality, capability, and satisfaction. Our goal is simple: To deliver quality products on time every time, striving to continually maintain the highest standards of customer service.

We strive to enhance sound business relationships throughout our customer and supplier network - valuing both as an integral part of our success.

Throughout the group we uphold a code of practice which promotes honesty, loyalty, and integrity in every sphere of our business activities.

Established over a decade ago, Harcourt has a proven track record supplying product into major international programs. Utilizing our global network, customers enjoy a seamless experience between continents further underling Harcourt as your 21st century global supplier.

To learn more visit us online: **[www.harcourtind.com](http://www.harcourtind.com)**

## INNOVATION

Harcourt remains on the leading edge in forward-thinking engineering and technology to avoid tooling issues and delivery delays. *"Harcourt's lean manufacturing model makes them one of the top engineering firms to work with"* - Fixture/Tooling manufacturer client.

## TOOLING COMPONENT EXPERTISE

Harcourt is quick to respond with our expertise and knowledge on industry specs and standards as well as products and their applications. *"Communication and response to purchase inquiries is always very prompt and clear"* - UK Aerospace Tooling Manufacturer client.

## SERVICE

Worry-free shipping of fully-inspected goods when and where our clients need them. *When surveyed, 100% of our clients rated our customer service as very good, and 90% rated us as excellent.*

## SUPPLY CHAIN SOLUTIONS

Our outstanding delivery performance, inventory, and vast manufacturing facilities make Harcourt highly cost efficient. *Recently Harcourt received a 99.62 % on-time rating and a 100% service level quality scorecard rating for a large USA tooling manufacturer client.*

## > WHY HARCOURT?

- Extensive Inventory
- Dependable Service
- Top Quality
- Large & Relevant Product Range
- Cost Effective
- Product Knowledge and Experience
- Unlimited Flexibility
- Global Connectivity





## > OUR RANGE

Comprehensive, innovative, and relevant; our range not only meets your needs, but keeps abreast with the movements of your industry giving you a cutting edge over the rest. Our “off-the-shelf” products are a tribute to our years of experience and foresight into the future. Along side this is our ability to supply nonstandards and specials, whatever your requirement - standard or special - we are the people to talk to.

*If you're building tools - you need our range.*



Generated by increasing demand and fuelled by continual improvement, Harcourt is becoming the brand of choice around the globe. Our attention to quality and service is a welcome change in the tooling component industry enabling our clients to enjoy a level of comfort like never before.

Our focus on innovation has placed us at the forefront of the tooling industry as a premier supplier and solution provider. The Harcourt Brand takes tooling to the next generation:

*Your tooling component supplier for the 21st century*



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PRESS FIT

HEAD PRESS FIT

SLIP/FIXED RENEWABLE

LINERS

HEAD LINERS

LOCKING LINER

DIAMOND GROOVE

SERRATED GROOVE

EASY-CAST LINERS

LOCKING DEVICES

HANDLE BUSHINGS

TEMPLATE BUSHINGS

AIRFEED DRILL BUSHING TIPS

AIRFEED LOCK LINERS

AIRFEED LOCKING DEVICES

**TOTAL DRILLING SOLUTIONS**

## STANDARDS

Any size, any type - we have it. We have become a renowned bushing house, focused on total customer satisfaction. Unrivalled stockholding and quick-turnaround capabilities.

## SPECIALS & CUSTOMS

Our ability to handle any special or custom is what sets us apart. Our resourcefulness and flexibility truly makes us a worry-free solution provider.



**> PRESS & SLIP FIT.** Close tolerance, high quality bushings for both press-fit and slip-fit applications. Selection includes press fit, head press fit, and slip fit in imperial, metric, steel, stainless, and carbide.



**> LINERS.** Products for any application, our liner range covers your requirements for hard tooling (such as INVAR) and soft tooling (such as RENboard) as well as castable tooling and many other materials and types.

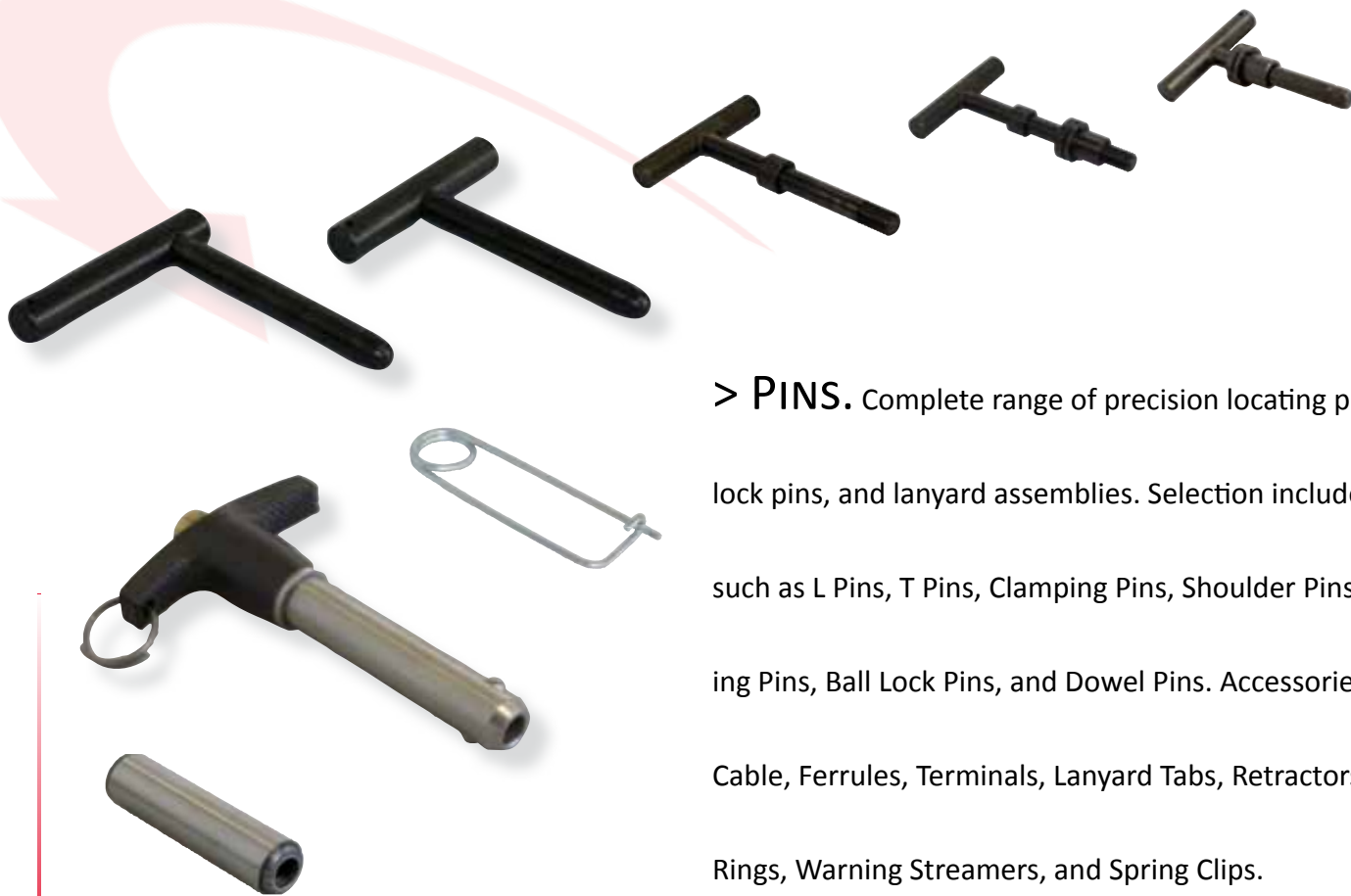


**> HANDLE BUSHINGS.** Comprehensive range of commercially available handle bushings. Available off the shelf 'as is', with attached cable, with attached retractor, or in kits.



**> AIRFEED.** We are power-feed experts with vast experience and hands-on knowledge in this field. Our engineers and product developers are constantly moving with the industry to guarantee unparalleled competitiveness.





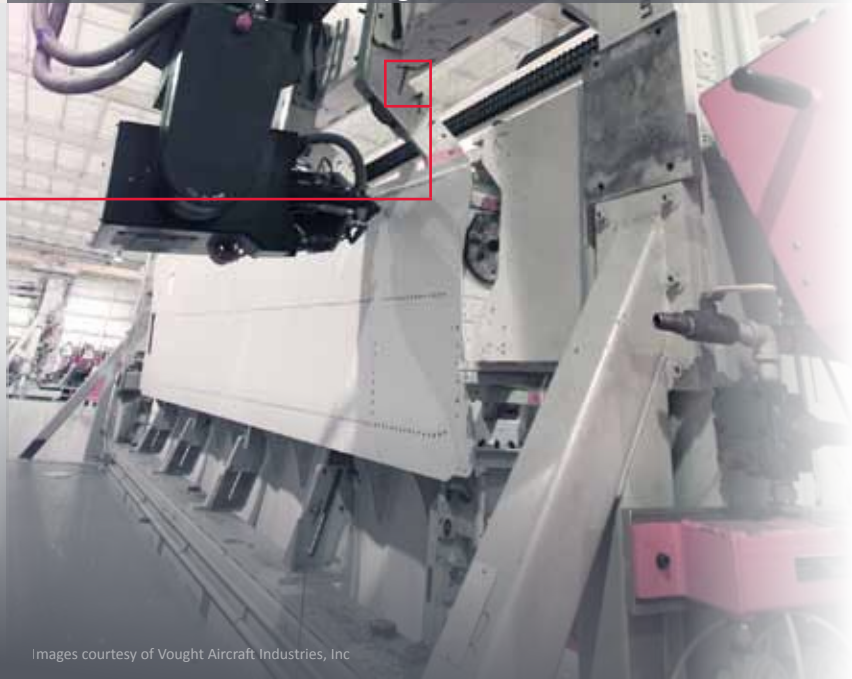
> **PINS.** Complete range of precision locating pins, ball lock pins, and lanyard assemblies. Selection includes pins such as L Pins, T Pins, Clamping Pins, Shoulder Pins, Locking Pins, Ball Lock Pins, and Dowel Pins. Accessories include Cable, Ferrules, Terminals, Lanyard Tabs, Retractors, Cable Rings, Warning Streamers, and Spring Clips.

## > ALIGNMENT PINS

LOCATORS  
HOISTING  
TOOL STORAGE CASES  
THREAD INSERTS  
WORKHOLDING  
SUPPORTING ELEMENTS  
CONTROL & OPERATING COMPONENTS  
SPRING LOADED DEVICES



Alignment pins are precision parts usually used in conjunction with locators to align and temporarily fasten various different objects of a jig/fixture. Their function and precision is usually critical to the accurate operation to which they are aiding.



ALIGNMENT PINS

## > LOCATORS

HOISTING

TOOL STORAGE CASES

THREAD INSERTS

WORKHOLDING

SUPPORTING ELEMENTS

CONTROL & OPERATING COMPONENTS

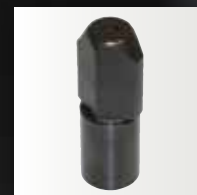
SPRING LOADED DEVICES

## Quality

Uncompromising quality is our standard. Our locators manufactured to the highest quality standards to ensure your finished tool does the job to perfection.

## Availability

Our stock holding and supply network are set-up to support high demand. We consider your delivery schedules to be of critical importance and we take every step to ensure your commitments are protected.



**> SLOTTED LOCATOR BUSHINGS.** Fully EDM'ed with a high-precision finish grind - flawless. Large inventory for quick delivery. Specials and customs are available.



**> BULLET-NOSE PINS.** Used in conjunction with diamond pins to accurately locate two pieces of a fixture precisely and quickly. Range includes round and diamond pins and bushings.



**> TOOLING BALLS & ACCESSORIES.** High-precision machined reference balls, with full range of complementing parts such as tooling ball covers, pads, and thumb screws.



**> SMR DRIFT NESTS.** Provide a temporary, magnetic SMR adapter in almost any location and on almost any surface. Drift nests are incorporated in optical tooling which utilizes laser for precision referencing and aligning.



> **HOIST RINGS.** Complete range of Hoist Rings engineered with your safety in mind. Our Hoist Rings are 200% proof-load tested, are supplied with a certification and are serial numbered for traceability.



> **SHACKLES.** Heavy-duty, drop-forged anchor shackles. Heat treated and load tested to a safety factor of 6 to 1, also meet performance requirements of federal spec. RR-C 271D.



> **LIFTING EYE BOLTS.** Top quality range available in load capacities 500 - 15,000. Red and yellow powder coat also offered.

ALIGNMENT PINS

LOCATORS

> **HOISTING**

TOOL STORAGE CASES

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WORKHOLDING

SUPPORTING ELEMENTS

CONTROL & OPERATING

SPRING LOADING

Complete range of top quality hoisting components & accessories available for quick delivery to cover your requirements and delivery schedules.

Available Swivel Hoist Ring platings:

CADMIUM



NICKEL



> **Swivel Hoist Ring Selection:**



STANDARD



HEAVY-DUTY



LONG U-BAR



STAINLESS STEEL



METRIC





**SELECTION** With 50+ sizes, our range of cases covers all your storage and transportation needs. Sizes start at 182 in<sup>2</sup> and run up to 17,280 in<sup>2</sup> including cases specifically designed for both shipping and storage.

**CUSTOMISE** The Harcourt Case is supplied with foam pre-scored into tiny cubes for you to customize to your specifications.

ALIGNMENT PINS

LOCATORS

HOISTING

## > TOOL STORAGE CASES

THREAD INSERTS

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SPRING LOADED DEVICES



> **STRENGTH.** The Harcourt Case is made with Copolymer Polypropylene using an open cell core and solid wall construction, resulting in a super-strong, lightweight case.

> **PROTECTION.** The Harcourt Case is supplied with foam that is pre-scored into tiny cubes that enables you to customise the interior according to your specific requirements. This do-it-yourself system not only saves you time and money but also ensures your equipment is safe.

> **WATERPROOF.** The secret is a tongue-and-groove fit with a polymer O-ring acting as a waterproof seal. Also, the automatic pressure equalization valve releases built-up pressure while keeping water molecules out making an easy-to-open watertight case.



> **KEY INSERTS.** Used to provide strong, permanent, metal threads in virtually any material. They are strong, solid-walled, one-piece, key locking inserts.



> **SOLID KEY INSERTS.** Ideal for relocating holes that have been drilled or tapped in the wrong location, to fit holes that are too large, or to salvage expensive castings or bases.



> **SELF LOCKING INSERTS.** Offer an automatic self-locking external thread with use-activated epoxy adhesive. These inserts are ideal for preventing and repairing stripped threads. Installation requires only a bolt and wrench - no special tools required.

ALIGNMENT PINS

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TOOL STORAGE CASES

> **THREAD INSERTS**

WORKHOLDING

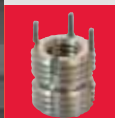
SUPPORTING ELEMENTS

CONTROL & OPERATING COMPONENTS

SPRING LOADED DEVICES



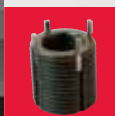
Harcourt offers the most comprehensive range in the industry including:



> Stainless Thinwall Internal Locking Key Inserts



> Thinwall Key Inserts



> Extra Heavy-Duty Key Inserts



ALIGNMENT PINS

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## > WORKHOLDING

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SPRING LOADED DEVICES

> **STRAP CLAMPS & ACCESSORIES.** Expansive range of over 1,500

standard parts ranging from stainless steel strap clamps to knurled face washers.

> **SWIVEL SCREWS.** A popular method of hand-clamping, swivel screws are

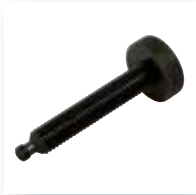
available with a knurled head, a knob head, or a torque head.

> **GRIPPERS.** Hardened, replaceable inserts used to provide extra holding power.

Range includes flat, serrated, and carbide-tipped grippers.

> **CLAMPS.** Toggle and power for any application and environment. We are clamp

specialists, our staff offers more than 100 years of combined clamp experience .





> **LEVELING FEET.** High-quality leveling components ideal for leveling machines and fixtures. Large range for various uses.



> **ANGLE BRACKETS.** Comprehensive range of precision set-up angles including angle brackets and gusseted angle brackets in both steel and aluminum, and cast angle brackets.



> **REST BUTTONS.** Wide selection of workpiece support and jig feet, including the following rest buttons: jig, screw, cone, spherical radius, swivel, soft, and adjustable.

ALIGNMENT PINS

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WORKHOLDING

## > SUPPORTING ELEMENTS

CONTROL & OPERATING COMPONENTS

SPRING LOADED DEVICES

### > Unique Items:



CAST ANGLE  
BRACKETS



SOFT REST  
BUTTONS



FIXTURE JACKS



SPRING JACK  
LOCKS



ALIGNMENT PINS

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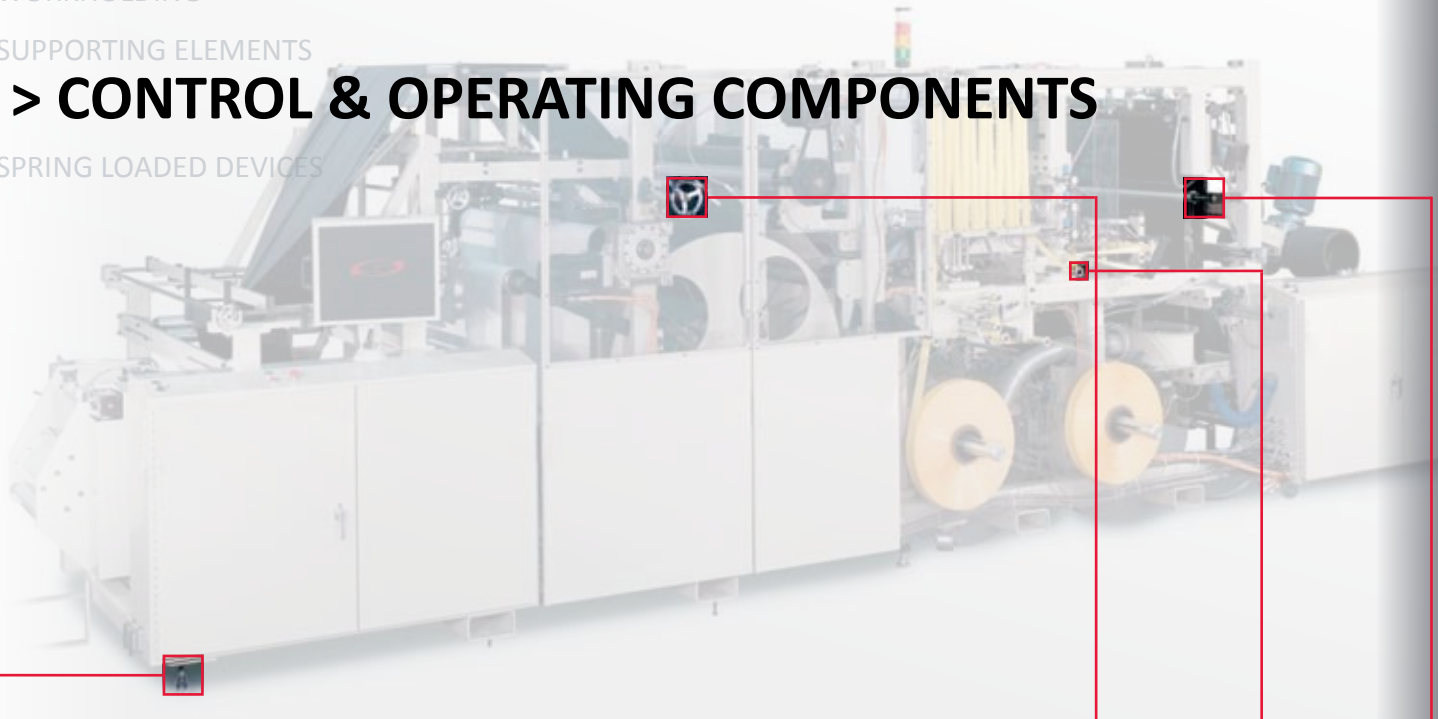
THREAD INSERTS

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SUPPORTING ELEMENTS

## > CONTROL & OPERATING COMPONENTS

SPRING LOADED DEVICES



> **KNOBS.** Selection includes: Ball Knobs, Oval Tapered Knobs, Tapered Knobs, Hand Knobs, Stainless Hand Knobs, Cushion-Grip Hand Knobs, Torque Hand Knobs, and Knurled Knobs.



> **HAND WHEELS.** Available in steel, stainless, and plastic. Steel version can be easily customized for any application - standard customizations are available.



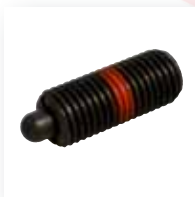
> **HANDLES.** Range includes: Adjustable Handles, Pull Handles, and Speed Ball Handles. For applications ranging from high corrosive industrial environments to clean-room medical laboratories.







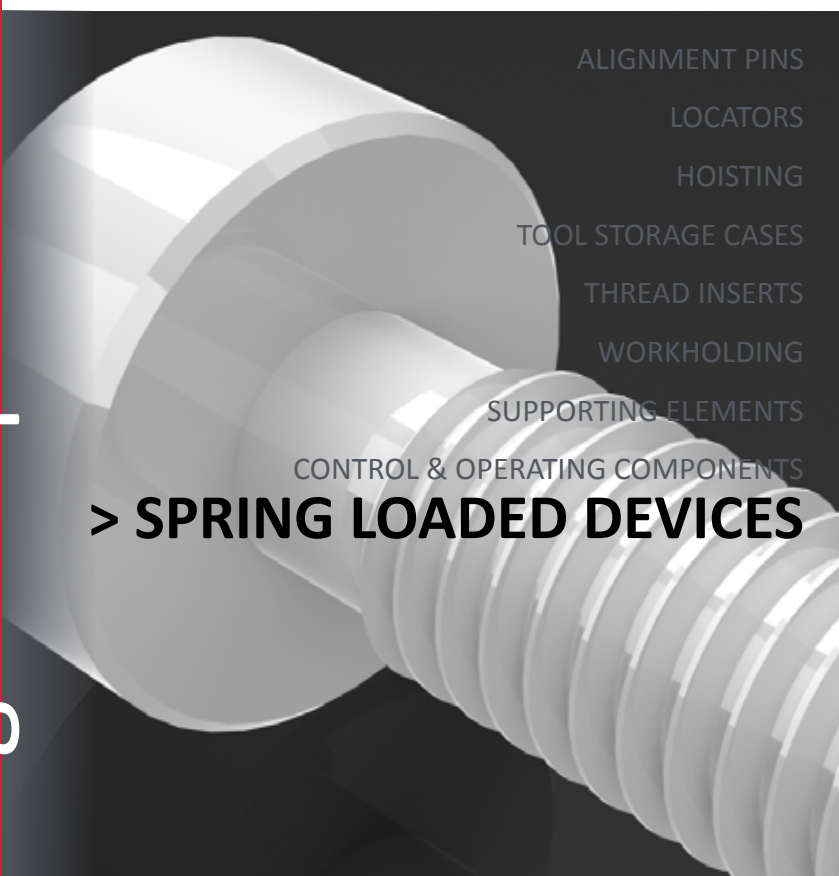
> **HAND RETRACTABLE PLUNGERS.** Hand retractable plunger variations include: pull ring locking and non-locking, and L-handle short and long stroke.



> **BALL & SPRING PLUNGERS.** Self-contained ball-and-spring devices that apply accurate and repeatable end forces. Applications include: indexing, locking, ejecting, positioning, fixturing, latching, electrical contacting, and many others.



> **INDEX PLUNGERS.** Heavy-duty assemblies that provide precision alignment between two plates. Straight and tapered versions available.



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> **SPRING LOADED DEVICES**

**Practicality** Taking real-life situations into account, our products offer practical solutions that have been tried in the most demanding environments.

**Ingenuity** Although practical and functional we have also utilized sharp thinking to produce an inventive and imaginative range relevant to your requirements.



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## > SPECIALS & CUSTOMS

*“Harcourt’s ability to handle all my component needs - whether an OEM specification, an industry standard, or a custom make-to-print is what places them in a league on their own” - Large Tooling Manufacturer client.*

**Flexibility** Our adaptability and readiness to work with your requirements from concept and design to final delivery and beyond.

**Accountability** We stand behind our products 100%. It doesn’t matter if it’s a standard, special, or custom we place full trust in our workmanship, and whatever it takes, we’re ready to back you up.



**> SPECIAL BUSHINGS.** Any size, any shape, any material. Our special bushing knowledge and experience is vast. Utilizing our extensive supply chain or our ‘in-house’ capabilities we can excel on best-cost and delivery.



**> SPECIAL PINS.** Special locating pins, special alignment pins, special ball lock pins, hold down pins, etc. Our pin expertise extends into application knowledge and correct product selection.



**> SPECIAL LOCATORS.** High precision locating components of any description and application. Processes include EDM, centerless grinding, and multi-axis machining.



**> CUSTOMS.** Extensive Capabilities. ‘Make to print’ or totally conceptual, the Harcourt team can take your custom requirements through all phases of manufacture and deliver a top quality part at the most reasonable price.



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