

Transfer Press Tooling





A Complete Line of Modular Tooling for In-Press Transfer Systems

The Atlas FLEX Finger Tooling (patent pending) product line gives you a comprehensive modular system of articulated finger tooling that you can use and reuse in your transfer press applications for years to come. Available in three size ranges, it can be used with virtually all types of transfer presses.

FLEX Finger Tooling gives you three major benefits.

Faster, Simpler Setup Uses standard, modular components. Setup is simplified since tooling can be adjusted one axis at a time.

Tooling Adjustability Easily reconfigured for new or revised parts.

Lower Cost Cost savings result from greatly reduced trial-and-error setup time compared to labor-intensive fabricated tooling. Also provides long-term reusability.

Why Flexible Tooling Over Dedicated?

FLEX Finger Tooling significantly reduces assembly and trial-and-error adjustment time, eliminating hours of preparation for production, allowing you to get into production faster and meet tight lead times and schedules. FLEX maximizes the use of your tool setter's time.

Unlike hard-tooled transfer fingers, FLEX Finger Tooling can be reused for future parts of varying sizes, shapes and configurations. Although tooling fingers are typically set up and then left dedicated to one part, the non-obsolescence of flexible tooling, combined with increased setup efficiency, can lower the overall cost of transfer press operation.

Why Atlas Over the Competition?

Unlike other modular finger tooling, FLEX tooling lets you quickly set up the spacing and angle of the fingers and/or grippers, achieving faster tryout and verification of correct workpiece support for production speeds. This feature also allows the press operator, rather than a die maker or tool setter, to easily make any necessary adjustments during the stamping process.

Atlas designed a flexible joint with a swivel assembly that allows one axis to be adjusted at a time without losing orientation of other axes. This eliminates the time consuming and often frustrating experience of adjusting all axes at once. FLEX also maintains position longer than other articulated tooling, resisting the effects of production vibrations. Long-term reusability is also enhanced by the design, since the tooling does not wear out or lose location.

Whether your application involves shovels or grippers, large parts or a long reach, part sensing and actuation requirements or just simple lift and transfer, FLEX tooling does it all. Extra strength allows it to handle even the heaviest gauge applications.

Presetting Fingers

Settings developed from traditional trial-and-error adjustments can be recorded, then recovered quickly and precisely at a later date

using an Atlas Tool Setting Fixture (patent pending), significantly reducing downtime.

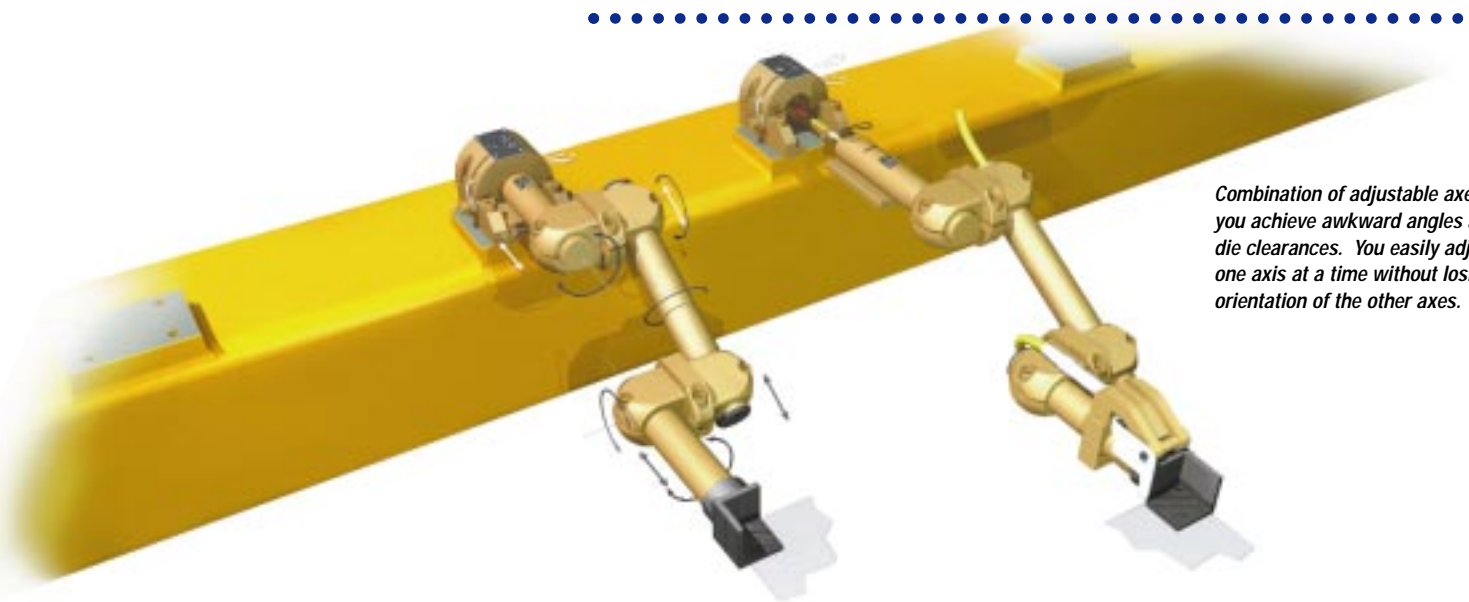
In cases where finger tooling is pre-engineered from die drawings and/or simulations, the innovative Atlas Tool Setting Fixture can preset finger tooling to reduce die tryout time from **hours to minutes**.

We Support All Your Part-Transfer Needs

We offer various levels of engineering support, including installation and launch assistance. We can also help you with kinematic modeling simulation for improved die clearances and optimized die/finger interfaces. A thorough knowledge of various transfer presses, as well as die design and other process factors, is a direct result of our engineering studies and frequent role as systems integrator. When you select FLEX tooling, you get the benefit of 15+ years of transfer press automation expertise. The patented, programmable FLEX 5000® and FLEX 2000 tri-axis in-press transfer systems that we design and build are running in dozens of plants. When combined with FLEX tooling, you achieve the ultimate in fast-response flexibility to changing production schedules and needs.



Atlas FLEX Finger Tooling saves setup time during tryout and verification, and can be easily repositioned to accommodate part design changes or future parts.



Combination of adjustable axes lets you achieve awkward angles and die clearances. You easily adjust one axis at a time without losing the orientation of the other axes.

General Specifications

Atlas FLEX Finger Tooling (patent pending) lengths from 4" (102 mm) to 24" (610 mm) are achieved with a combination of tooling arms.

Three Component Size Categories:

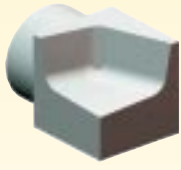
	Tooling Arm OD
Small	1.00" (25 mm)
Medium	1.25" (32 mm)
Large	1.75" (44 mm)

Available Equipment

- ◆ Standard Shovel (1.3" x 2.13" part support area)
- ◆ Custom-Machined Shovels
- ◆ Pneumatic Gripper Assembly
- ◆ Sensors (for grippers)
- ◆ Finger Setup Fixture
- ◆ Edge-Sensing Assembly (for shovels)
- ◆ Adapters (for existing receivers)



Equipped with pneumatically-actuated gripper assembly.



Custom-Machined Shovels



Patented Edge-Sensing Assembly

Contact your Atlas representative, or Ron Demonet, Atlas VP, Sales and Marketing, to order, or for more information.
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Atlas is the metalforming industry leader in designing and building:

Die Change Systems; Storage and Retrieval Systems

including complete die cart/rack systems for transfer presses or tandem line presses

Programmable Tri-Axis In-Press Transfers

including Flex 2000, the patented FLEX 5000® and patent pending FLEX Finger Tooling

Stacking and Destacking Automation

for sheet metal blanks or parts

Pressroom Systems Integration

At Atlas, our entire business is centered around the goal of optimizing the movement of sheet metal and dies during stamping processes—in short, solving your pressroom production problems and taking advantage of automation opportunities.

Atlas is a full-service resource, utilizing our 30 years of experience to provide objective engineering studies, examine alternatives, and find the most productive mixture of manual and automated operations.

We have complete in-house capability for total system responsibility, mechanical and controls design, fabrication, machining, assembly, test and installation. Our team of over 200 professionals utilize in excess of 100,000 square feet of modern manufacturing, engineering and office space.



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