



## **ATLAS TECHNOLOGIES**

Atlas Technologies patented FLEX 3000 is a high speed, fully programmable, in-press transfer system that can be easily retrofitted to existing presses or integrated with new presses. This system is the perfect unit for parts and tooling up to 600 pounds.

# FLEX 3000 In-Press Transfer



*The Atlas FLEX 3000 Transfers parts for a Michigan based Tier 1 stamper.*

## **B e n e f i t s**

### **Higher Productivity**

Since the transfer path is fully programmable, presses can run smaller parts faster than a cam-actuated transfer. Smoother transfer also allows faster speeds without loss of part control.

### **Fast Changeover**

Changeover is as simple as calling up a stored program at the control panel and connecting two finger tooling rails. (Optional feature)

### **Die Accessibility**

Dies are easily accessed, since the FLEX 3000 is mounted overhead and the finger rails can be raised completely out of the way.

### **Reliability and Maintainability (R&M)**

Proven servo-drive, low inertia design and fewer elements to wear result in higher R&M.

### **Utilizing Existing Assets**

A FLEX 3000 transfer system combined with an existing press costs much less than a new transfer press.

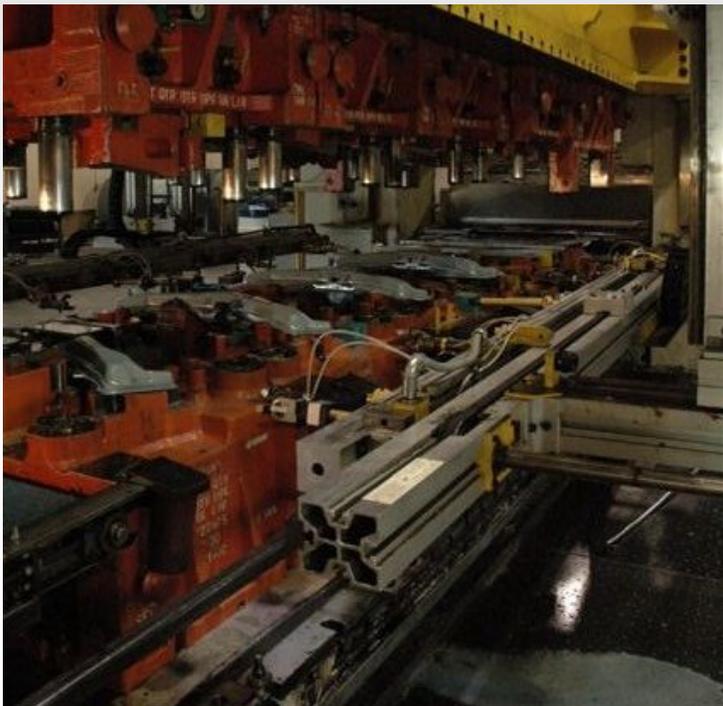
### **Dual Pitch Capability**

By splitting the long axis into two separate units and drives it is now possible to have two separate pitches and accommodate conditions where the pitch could be longer on the first group of dies within the press and shorter for smaller dies.

## Strength, Speed, Power, Agility and Ambition.... It Must Be a FLEX

- Tri-axis, dual-axis, cross-bar or forward/reverse modes of operation.
- Extruded low-mass aluminum rails allow for high-speed operations
- Transfer rails are supported along the length of the rail, instead of at the ends, for higher rigidity and less deflection
- Anti-backlash couplings improve accuracy and smoothness, while reducing wear
- Overhead mounted design:
  - Easy, open access to the dies
  - Bolster is open for scrap removal
  - Windows are clear for part feeding
- Transfer path corner radii programmability
- Jog capability (forward and reverse) is independent of press actuation
- Fully programmable part sensing
- PC-based remote access diagnostics via

*Atlas Universal Rails allow quick tooling changeover.*



*A Canadian Tier 1 Stamper is able to take on additional work due to their Atlas FLEX 3000 with Universal Rails and FLEX Finger Tooling.*

## SPECIFICATIONS

### FLEX 3000

Transfer Stroke:	0-84" (2135 mm)
Position Accuracy:	0.002" (0.05 mm)
X-Axis Speed:	560 ft/min. (170m/min)
Clamp Stroke:	0-36" (915 mm)
Position Accuracy:	0.001" (0.025 mm)
Y-Axis Speed:	305 ft/min (93 m/min)
Lift Stroke:	0-30" (760 mm)
Position Accuracy:	0.001" (0.025 mm)
Z-Axis Speed:	230 ft/min (70 m/min)
Standard Part & Tooling Weight	600 lbs. (272 kg)
Number of Die Stations: (Single Ram Press)	12 Standard 16+ Optional

Tooling: Dedicated Rails with semi-auto connections.

## OPTIONS

- Die automation control package
- External lift unit to clear tall dies
- Live camera for remote access
- FLEX Finger Tooling
- Universal tooling rails with plug-in tooling fingers
- Dual transfer pitch capability
- Transfer hand held teach pendant
- Increased part & tooling weight capacity of 750 lbs. (340 kg).