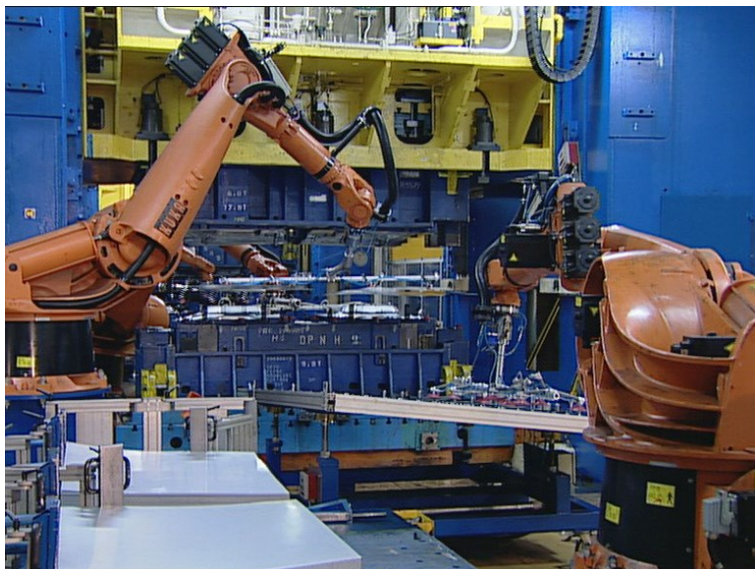




ATLAS TECHNOLOGIES

Atlas destacking systems are used to automatically separate, feed and accurately locate individual sheet metal blanks for subsequent loading into a press, tandem press line or transfer press.

Destacking and press loading are accomplished with robots in the system pictured below



Robotic & Conventional Destacking Systems



Double unattached blanks are held by overhead magnetic belts after being lifted by vacuum cups in the destack head (not shown).

How It Works

Atlas destackers separate blanks via robots, pick and place shuttles or overhead destack head/mag belts and convey them forward to a centering station for pick up by press feeding equipment.

In a typical system, a “cranesaver” conveyor or carts are integrated with the destack unit to queue stacks of blanks, quickly move them into position for destacking and move empty pin pallets or dunnage out after a stack is depleted.

Benefits

Reliable High-Speed Destacking Capability

Improves press productivity (more strokes per minute)

More Throughput

Maximizes stamping press uptime by keeping an uninterrupted flow of material to the press

Improved Part Quality

Ensures consistent surface finish quality by keeping blanks free of contaminants and damage caused by manual handling

Reliability and Maintainability (R&M)

Proven technology and heavy duty design result in higher R&M

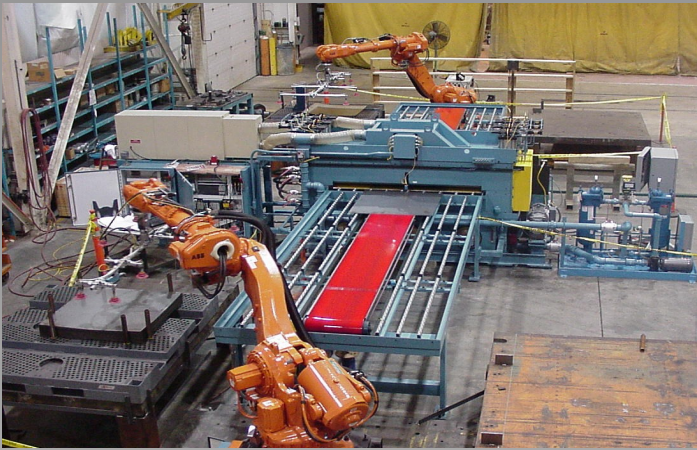
Faster Changeover

Changeover can be as simple as calling up a stored program at the control panel

Proven in the Field

Numerous installations at contract stamping and OEM manufacturing facilities

Improved Ergonomics & Safety Factors



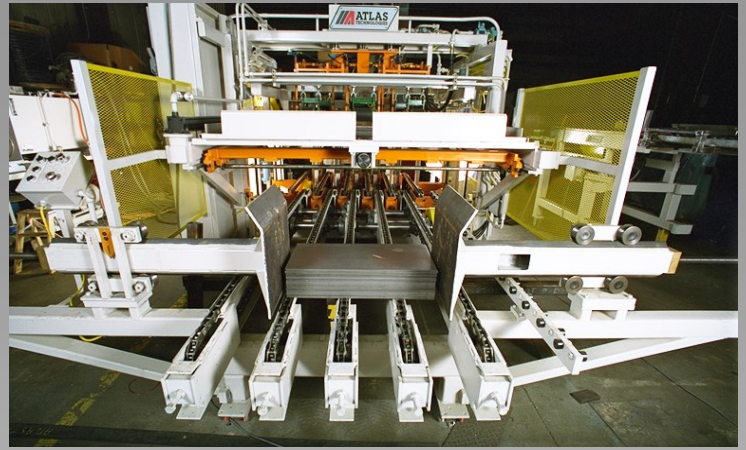
Features & Specifications

FEATURES

- Single or double unattached blank handling
- Uninterrupted destacking and blank feeding (see photo below)
- Automatic fanner magnetic positioning with +/- 30° angle adjustment for contoured parts
- Soft-touch vacuum cup destacking
- Double sheet detection
- Automatic blank reject
- Manual or automatic adjustable centering station or vision system
- Stack pre-staging
- Cranesaver (chain) conveyors or carts deliver and/or queue stacks for continuous destacking
- Lift table maintains stack at a consistent height to reduce destack head travel, allowing high-speed destacking
- Magnetic belt, traversing head or robotic blank feeding
- Modular and standardized designs for various configurations



Uninterrupted destacking feature: forks (upper left) support the remaining blanks while the next stack is positioned on the lift table underneath.



SPECIFICATIONS

Production Rates:	6 to 25 cycles per min.
Blank Material:	Steel or aluminum
Blank Thickness Range:	0.015" - 0.375: (0.4 mm -9.5 mm)
Blank Size Maximum:	Customer specified
Stack Height:	Customer specified
Stack Weight:	Customer specified
Position Accuracy:	Customer specified

OPTIONS

- Uninterrupted destacking feature
- Programmable vacuum cups
- Power rollout
- Programmable fanners
- Electric fanner magnets
- Programmable changeover
- Multiple stack queuing
- Press loader
- Stack pre-staging for high speed applications
- Blank washer/coaters are available
- Robotic simulations and time cycle studies

