



EC&S Sheet Handling Equipment

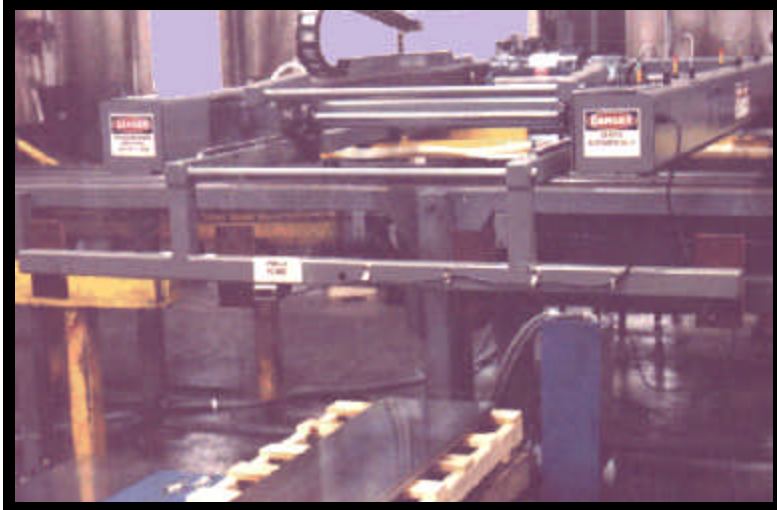
MAINLINEFEEDER/STACKER	High Production High Speed
MINILINE STACKER	Blanking Press Stacker
HSF485	Mechanical Sheet Separation
Steel Sheet Feeder	High Production Roll Form Delivery



Robotics

MAINLINE SHEET FEEDER & STACKER

Consider These Benefits:



- * High speed non-contact sheet delivery.
- * Can operate to two stack positions for uninterrupted operation.
- * Sheet alignment at placement for clean stacks.
- * Robust. The MAINLINE is designed and built to last under heavy industrial usage.

Shown with guards removed



The MAINLINE machine uses recently developed power transmission products to drive two lightweight carriages at amazing speeds. It is particularly effective when sheet products must be fed or stacked at high speeds without sliding contact. The floating nature of each of the two carriages allows individual sheets to be realigned as they are stacked or delivered. This is important for roll form feeding and neat stack creation.

Associated products such as lift tables and stack discharge conveyors can be supplied.

ROLL FORMING LAMINATING COATING LINES



Robotics

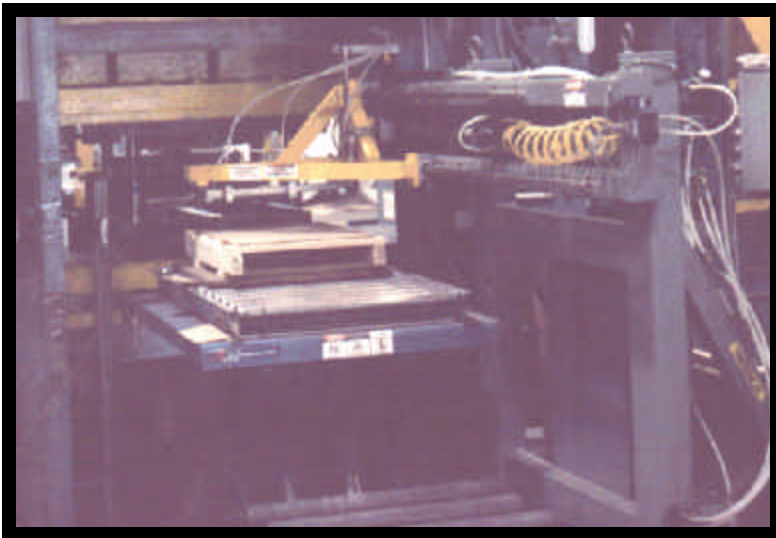
MINI-LINE STACKER

Consider These Benefits:



Shown with guards removed

- * StackerArms can reach into press to handle small parts.
- * Production rates from 20 to 30 parts per min.
- * Economical pneumatic actuation.
- * Robust. The MINILINE is designed and built to last under heavy industrial usage.



The MINILINE stacker is intended for use in press room stacking operations. Its rapid cycle rate and ease of setup allows it to handle a variety of parts.

Optional casters for machine transport make the machine useful at a number of press sites and allows easy removal when hand stacking is necessary.

The MINILINE stacker will maintain accurate stack counts and can be used as the control center for automatic stack changeout.

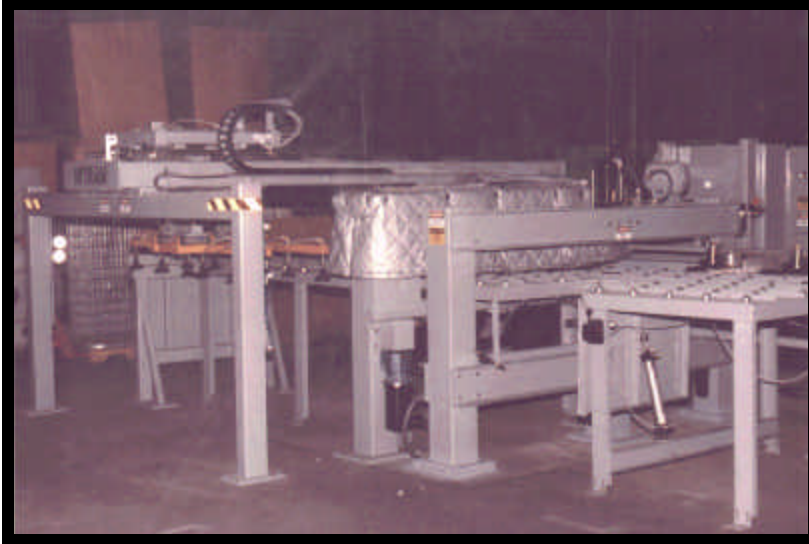
BLANKING LINES FORMING PRESSES ROLL FORMING



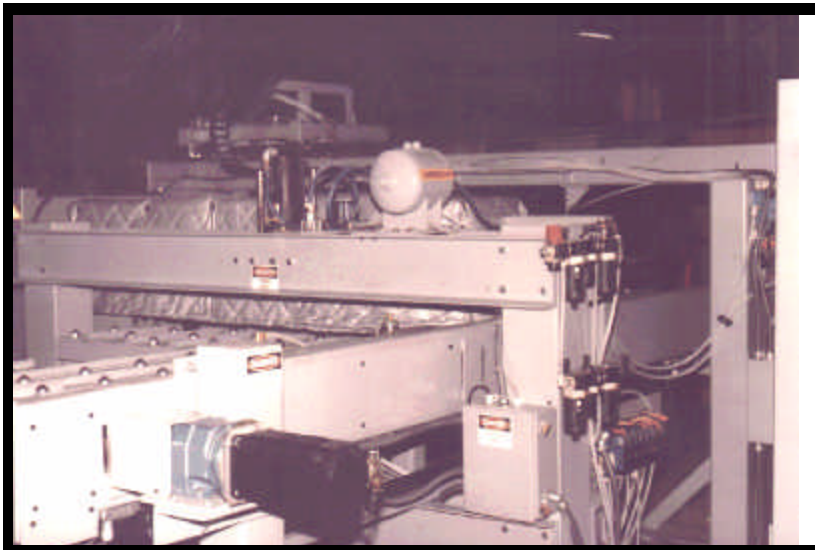
Robotics

HSF 485 SHEET FEEDER

Consider These Benefits:



Shown with guards removed



- * Patented sheet separation features separates difficult to feed materials every time.
- * Reduced setup. The leading edge design accommodates all lengths of material without adjustment.
- * Quick. The HSF 485 can deliver 4 ft wide sheets at 5 sec. intervals when used with the niproll delivery system.
- * Robust. The HSF485 is designed and built to last.

The HSF 485 Sheet feeder provides reliable single sheet delivery to automated press lines, coating lines, slitting lines and other sheet production processes which cannot tolerate double sheeting. It employs a patented method of sheet separation which allows adjustment of these separating force based upon product thickness. Our double floating head design reduces cup stress and eliminates material marking.

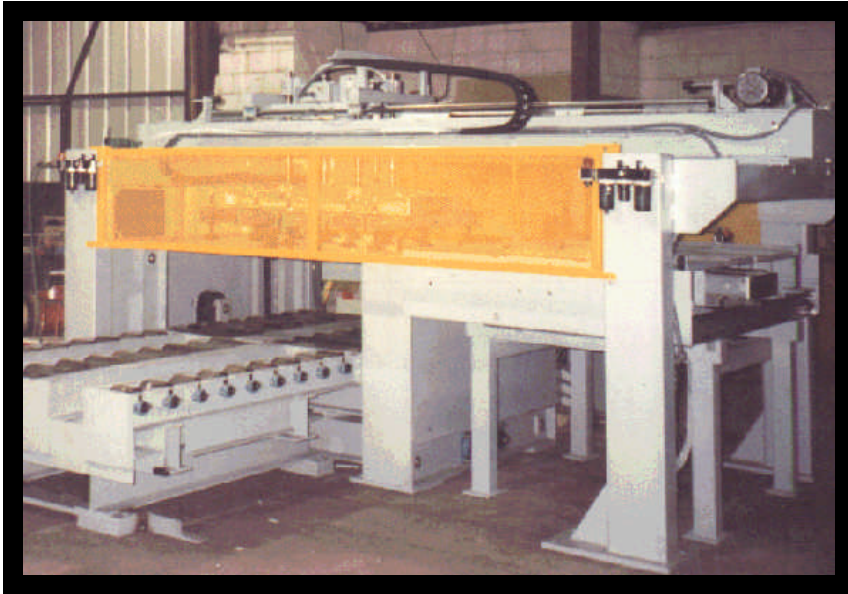
SHEET FEEDING PRESS LOADING COATING LINES ROLL FORMING



Robotics

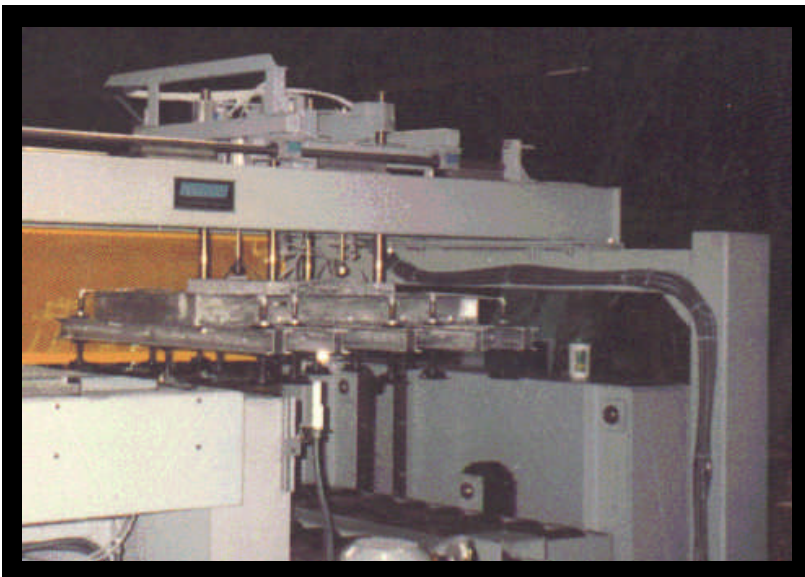
TITAN STEEL SHEET FEEDER

Consider These Benefits:



- * Heavy Duty Design & Construction.
- * A complete system including stack handling conveyors, lift table and delivery table.
- * Two headed lifting design promotes sheet separation.
- * Handles large sheets, To 75" x 75"
- * Handles up to 12,000 # stacks
- * Requires no set up to handle varying sheet sizes or sheets with cutouts.
- * Production at up to 6 parts/min.

Shown with guards removed



The TITAN STEEL SHEET FEEDER was developed for use handling large stacks of steel sheet.

Two independently actuated heads provide both mechanical separation and the rigidity needed to handle large sheets.

To compliment its function the TITAN is offered with heavy duty infeed conveyors, lift table and a sheet registration and delivery table. This system is all that is needed to completely automate the delivery of steel sheet to roll formers, press tables, or other heavy production applications.

HEAVY STEEL SHEET PRODUCTION OPERATIONS