Multiple spindle paper drilling unit with integrated jogger

Model 260-00
up to 1500 piles per hour

Description

- Multiple spindle paper drilling machine unit with integrated jogger and separately disposed product feeding.
- Inline or off-line paper drill suitable for loose-leaf paper, registers, folded, sewed or glued pads.
- The feeding of the piles with the dynamic servo motor drive, allows high transportation speed and smooth positioning at the same time. It also can be used for multiple hole drilling.
- Controlled tilting of the loose paper stack into the jogging station.
- Smooth and trouble-free transport of the loose stacks through 2 pneumatically retractable pawls.
- Programmable controlled positioning of drill heads for multi hole drilling (optional)
- Menu supported data input makes operation and automatic set up easy. All format adjustments are done automatically.
- Dynamic servo-drive for drill stroke allows performance enhancement while less wear on the bits.
- This high flexibility of the dynamic servo motors result in an optimal output of the production.
- Soft-touch mode for precise drilling and reduction of drill bit breakages.
- A significant advantage of the new servo motor drive is the fine adjustment of the drilling depth and the exact position of the pile.
- The operator can easily correct the positions at the keyboard (accuracy 0.01mm).
- The Hang drill head assembly is solid and build for proven longevity life which makes them the most reliable on the market.
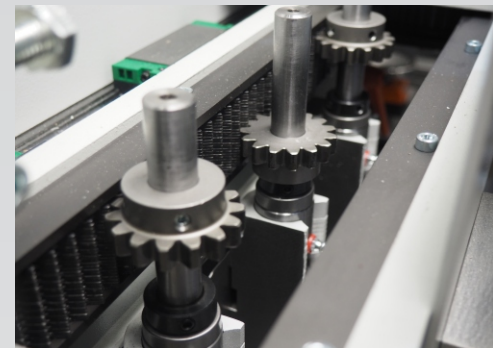
Configuration

- Conveyor belts to transport the loose paper piles into and out of the machine.
- Electronically controlled adjustment of edge distance particularly suitable for precise drilling of glue-bound pads.
- Tangential chain drive allows simple adjustment and replacement of drilling heads.
- A flat infeed allows controlled tilting of the paper stack into the jogger magazine.
- Two transport pushers guarantee smooth trouble free and fast transport of the piles.
- PLC - memory allows quick and easy re-adjusmtent of machine for repeat orders.
- Automatically adjustment of pusher height and drill bit length.

Human Interface

Technical details

Standard drill Ø	3 - 14 mm
Standard center distance	36 - 310 mm
Drill bit cutting length	30 - 80 mm
Drill stroke	step less adjustable
Adjustable drill rotation speed	150 - 3000 rev/min[1] (higher speed on request)
Adjustable stroke speed	5 - 100 mm/s (depending on heights of paper pile)
Number of drilling heads max.	9 heads, each 36 mm wide 6 heads, each 50 mm wide
Minimum paper size	105 x 148 mm
Maximum paper size	220 x 320 mm
Maximum height of paper pile	up to 76 mm (3")
Edge distance	11 - 30 mm (optional 5 - 40 mm)
Drilling support strip	automatically advanced
Voltage	3 phase, 230/400 volts, 50Hz
Electricity required	approx. 4,6 kW
Compressed air required	approx. 0.32 m³/min. at 6 bar (without drill cooling)
Drill cooling for one drilling head capacity	approx. 0.036 m³/min at 6 bar
Capacity	up to 1500 piles per hour (depending on height of paper piles and paper quality)

Tangential chain drive

Drill head with mounting gauge

Additional Hang items

- Drill bits
- Cardboard reels

Options

- Programmable controlled positioning of drill heads for multiple holes
- Automatic indexing drilling matrix (paper board), 300 m long, protects drill bits and assures a clean cut of the bottom sheets
- Automatic lubrication and cooling system. The silicone based spray does not show residues on the paper and does not drip
- Drill breakage control
- Additional drilling head
- Drill bit sharpener