



# H-frame CNC mechanical eccentric press

## MPH

Heavy duty production presses

- Rigid stress-relieved body
- 8 precision machined guide ways
- Perfect for progressive die applications and transfer die applications
- Pneumatic clutch brake combination and hydraulic overload safety system is used to increase safety and decrease part defects
- Two encoders provide real-time monitoring of crank angle and the motorized ram height adjustment
- Heavy-duty double gear system utilizes hardened helical gears in an oil bath with the flywheel mounted using cylindrical bearings
- The motorized ram adjustment is controlled by PLC with programs of die height stored in the PLC to facilitate quick changeover
- Automatic central lubrication is controlled via special sensors



### Standard configuration

- Rigid body and ram
- 8 guide ram
- Siemens PLC control and touchscreen
- Helical, high quality gear system
- Photo-cell safety guard
- Central lubrication
- Hydraulic overload safety system
- Siemens regenerative inverter
- Pneumatic clutch brake
- Slide adjustment with encoder

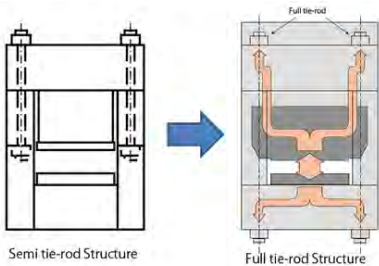
| Specifications           |     | MPH                   |                       |                        |                         |                         |
|--------------------------|-----|-----------------------|-----------------------|------------------------|-------------------------|-------------------------|
|                          |     | 250<br>275 tons       | 400<br>440 tons       | 500<br>550 tons        | 1000<br>1100 tons       | 1500<br>1650 tons       |
| Tonnage                  | T   | 250 (275 t)           | 400 (440 t)           | 500 (550 t)            | 1000 (1100 t)           | 1500 (1650 t)           |
| Connecting rod           | pcs | 1                     |                       | 2                      |                         |                         |
| Rated tonnage point      | mm  | 3 (1.2")              | 7 (0.27")             | 5 (0.2")               | 7 (0.275")              | 8 (0.315")              |
| Stroke                   | mm  | 20-160 (0.79-6.3")    | 200 (7.87")           | 350 (13.78")           |                         | 600 (23.6")             |
| Stroke per minute        | spm | 35-45                 | 20-35                 | 20-30                  |                         | 15-20                   |
| Ram adjustment           | mm  | 140 (5.51")           | 150 (5.9")            | 200 (7.87")            |                         | 300 (11.8")             |
| Table dimensions         | mm  | 1400x1000<br>(55x39") | 2200x1200<br>(86x47") | 2800x1500<br>(110x59") | 3000x1500<br>(118x59")  | 5000x3000<br>(197x118") |
| Table height from ground | mm  | 902 (35.5")           | 900 (35.5")           | 975 (38")              | 800 (31.5")             |                         |
| Press height             | mm  | 4870 (192")           | 5850 (230")           | 6875 (267")            | 8000 (315")             | 8200 (322")             |
| Press width              | mm  | 3444 (136")           | 4550 (179")           | 5171 (204")            | 7000 (276")             | 11500 (453")            |
| Press depth              | mm  | 2605 (103")           | 2110 (83")            | 2692 (106")            | 3500 (138")             | 8000 (315")             |
| Estimated weight         | kg  | 19000<br>(41,800 lbs) | 42000<br>(94,500 lbs) | 70000<br>(154,300 lbs) | 150000<br>(330,600 lbs) | 220000<br>(485,000 lbs) |
| Item No.                 |     | <b>9002201</b>        | <b>9002202</b>        | <b>9002203</b>         | <b>9002204</b>          | <b>9002205</b>          |

\*The above specifications are subject to change without prior notice. No liability for printing mistakes. Machine may be shown with optional equipment.



### Twin helical gears

- Improved slide parallelism throughout the working position of the stroke
- Virtual elimination of torsional deflection between connections and main bearing maintaining slide parallelism through the working portion of the stroke
- Improved dynamic parallelism when subjected to off center loading
- Decreased punch penetration in snap-thru conditions as a result of twin drive having only 1/2 of the torsional wind up of a typical drive press with same sized shaft



### Full tie-rod structure

- Strongest design
- Maintains guideway parallelism
- Reduces press and die wear



### Parameters displayed or controlled on the touchscreen include:

- Ram stroke indication
- Counter
- Fault report
- Parameter recording
- Memory storage for 300 parts
- Speed control
- Cam system with encoder



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