

KYORI

A NIDEC PRESS & AUTOMATION CO.

VX

**VARIABLE STROKE
HIGH PERFORMANCE PRESSES**

400-800 kN
40-80 Metric Tons



PRODUCT OVERVIEW

Kyori link motion presses are known around the world for their high performance, pinpoint precision and ease of operation. The Kyori VX series presses are among the industry's most powerful link motion presses, and its fine-tuned features can provide your facility with increased productivity, longer tool life and high efficiency without sacrificing quality.



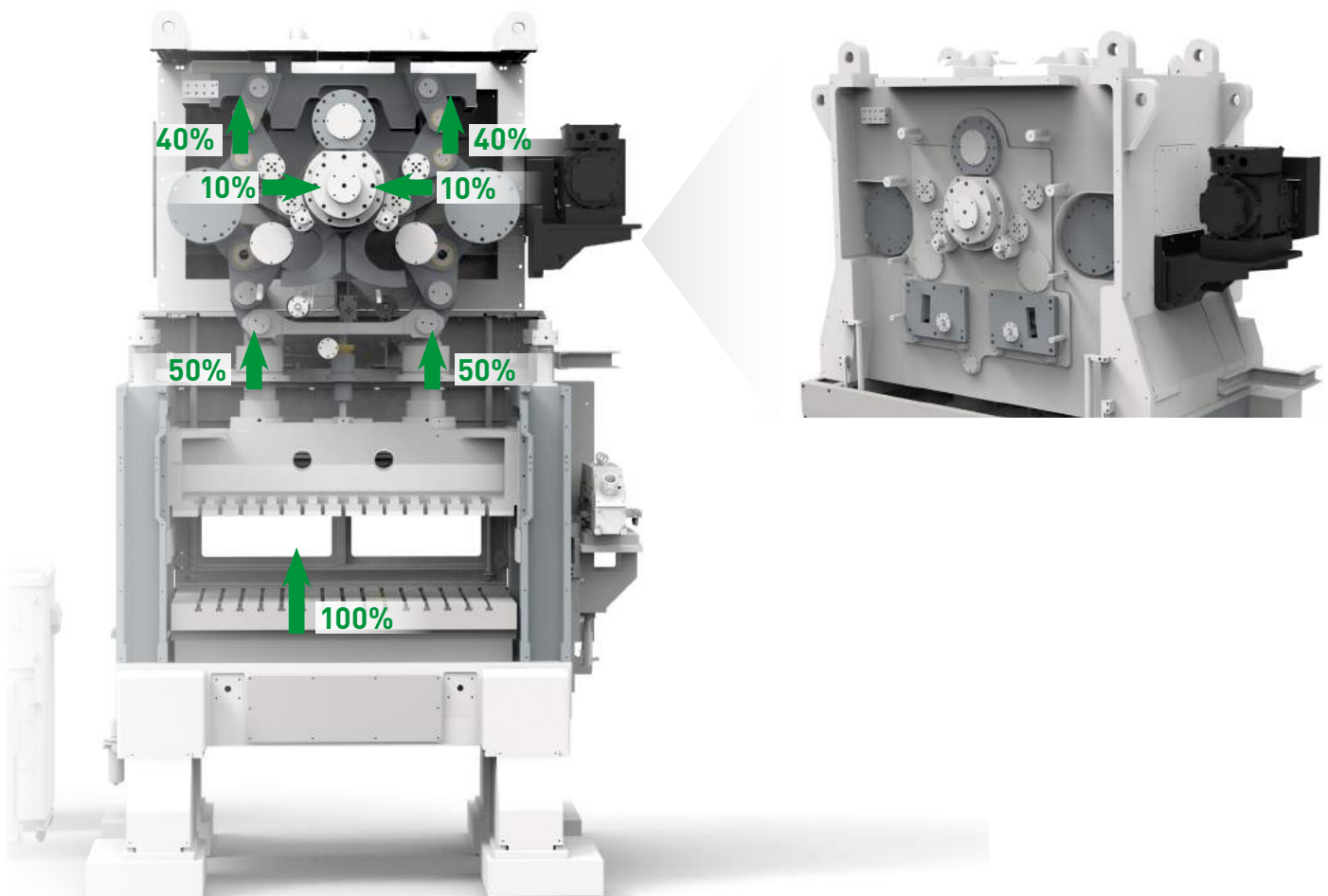
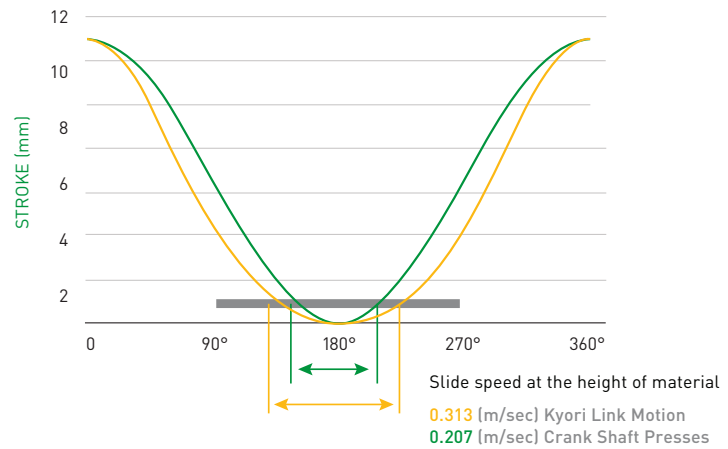
- 1** Highly dynamic, link motion adjustable stroke design
- 2** Modern, high-performance press control in modular design
- 3** Highly efficient drive technology ensuring lower Co2 footprint
- 4** Stroke adjustment doesn't change the shutheight
- 5** Bottom-dead-center position and crank angle position will not be changed
- 6** Customized customer solutions with standard components
- 7** Industry 4.0 capable via OPC-UA interface



ADVANTAGES OF VX MODELS

Robust Mechanical Design

- Kyori link motion design:
 - Creating a slower slide movement through bottom-dead-center
 - Particularly advantageous for forming operations / Optimum part quality
- 8-point needle roller bearing, installed in long guideways to prevent the ram from tilting under off-center loads
- Optimal flexibility because of adjustability of variable stroke mechanism, which is fully automatic and completed in 90 seconds
- Option for higher upper die weight



NIDEC SYS CONTROL

PCS 100

The powerful Nidec SYS control can be equipped with customer requirements:

- Servo feed systems
- Die control
- Push-pull servo feed systems and lamination controller
- Strip thickness measurement systems
- Strip lubrication systems

Integrated measuring and monitoring function:

- Optimized process through simple operation via the control system
- Maintenance counter
- Pressure controlled lubrication system

Simple connection of peripheral devices

- Faster integration and maximum productivity

Standby functions:

- 1st stage: reduction of the main drive to the number of strokes
- 2nd stage: Reduction of the main drive to speed 0 (standstill)
- 3rd stage: Oil pump and air valve shutdown

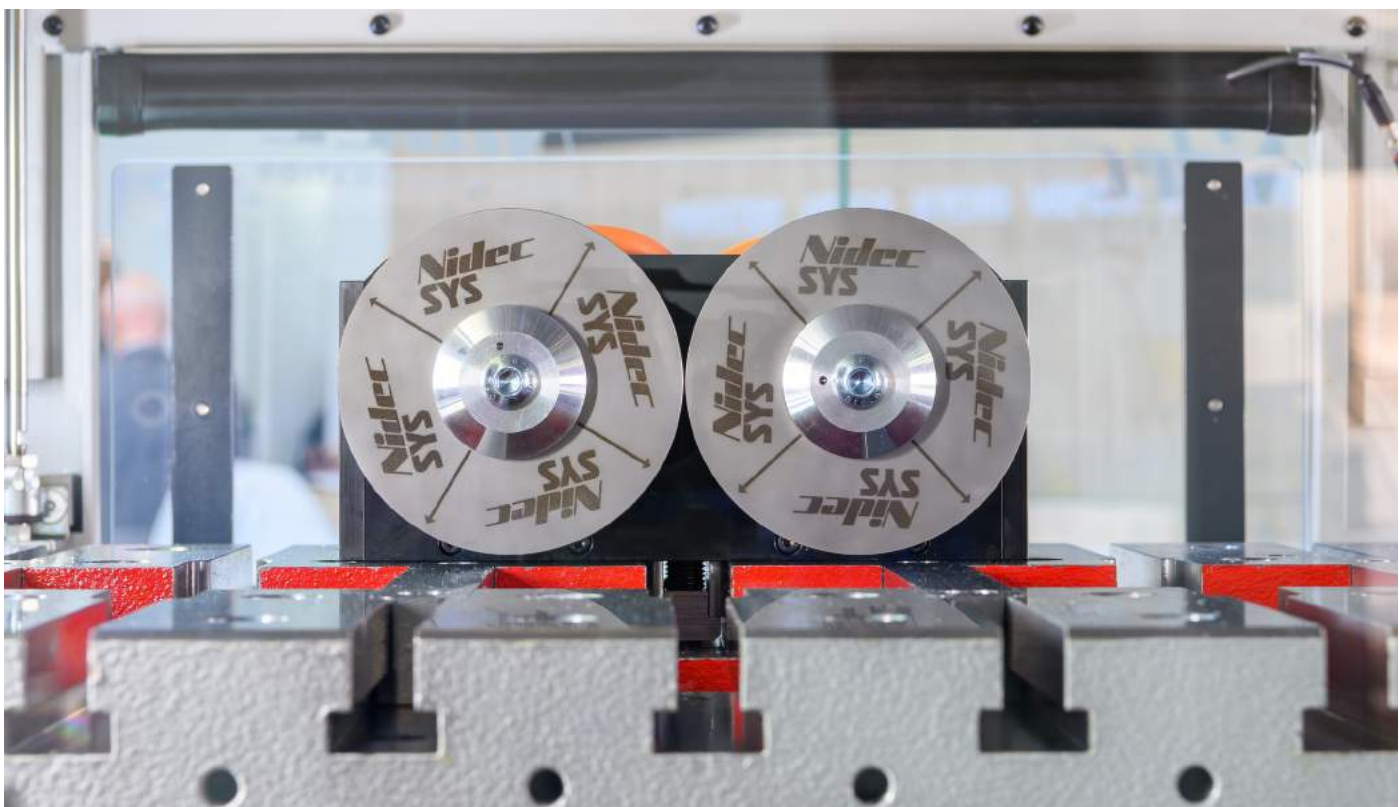
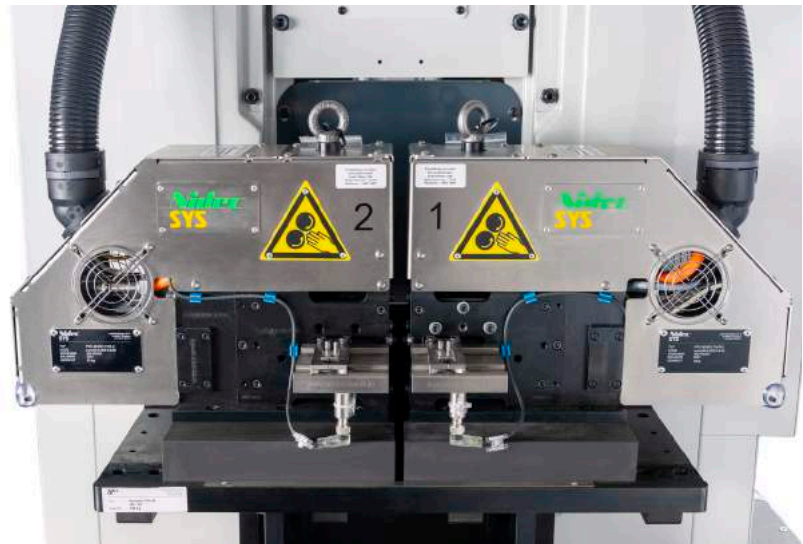
Highly efficient, water cooled AC servo main motor



OPTIONAL FEATURES

Feed and Push/Pull System Integrations

- Integration of servo-feeder in tandem version or single version or push-pull feed systems
- Integration of synchron sprocket wheel applications
- Laser interface double or triple pluggable via Harting connector, communication to Trumpf-Laser or IPG Laser depending on press size
- Special front and rear door design for laser integration
- Integration of ASI interface for uncoiler and rewinder
- OPC-UA Interface 4.0



SPECIFICATIONS & DESIGN

| | | VX-40-950 | |
|--|--------|------------------------------|-----------|
| Press Force | kN | 400 | |
| Tool Loading Area (L-R) | mm | 950 | |
| Adjustable Stroke | mm | 16/20/25/30/35/40/50 | |
| Speed (Minimum) | SPM | 80 | |
| Speed (Maximum) | SPM | 1000/800/600/500/400/350/260 | 1100/1000 |
| Main Voltage (EN60204) | V | 400 | |
| Main Frequency | Hz | 50/60 | |
| Connected Load | kVA | 76 | |
| Control Voltage | VDC | 24 | |
| Water Cooled AC Servo Main Motor | kW | 47 | |
| Compressed Air Connection: R 1/2"-3/4" | bar | 5,9 [7,9 max.] | |
| Ram Adjustment Range | mm | 50 | |
| Shutheight (standard) | mm | 240 | |
| Bolster Area (L-R x F-B x height) | mm | 950 x 600 x 120 | |
| Bolster Plate Opening (L-R x F-B) | mm | 700 x 100 | |
| Base Plate Opening (L-R x F-B) | mm | 760 x 120 | |
| Bridge at Bed Opening | yes/no | yes | |
| Ram Area (L-R x F-B) | mm | 950 x 450 | |
| Max. Upper Die Weight | kg | 180 | |
| Strip Inlet Height from Bolster | mm | 100 (max. 140) | |
| Strip Inlet Width (Machine) | mm | 300 | |
| Press Dimensions (L-R x F-B) | mm | 2120 x 1400 | |
| Press Height | mm | 3170 | |
| Press Weight | kg ca. | 9500 | |
| High Precision Servo Feed Unit | | PV 60-200 | |

| VX-50-1500 | VX-50-1100 | VX-80-1500 |
|----------------------------------|---------------------------------------|-----------------------------|
| 500 | 500 | 800 |
| 1100 | 1500 | 900 |
| 16/19/25/32/38/44/51/57/64 | 16/19/25/32/38/44/51/57/64 | 25/30/35/40/50/60/75 |
| 100 | 100 | 120 |
| 1000/880/780/700/600/500/450/400 | 1150/1080/950/830/730/650/550/480/420 | 650/550/470/400/330/270/150 |
| 400 | 400 | 400 |
| 50/60 | 50/60 | 50/60 |
| 76 | 76 | 76 |
| 24 | 24 | 24 |
| 47 | 47 | 47 |
| 5,9 (7,9 max.) | 5,9 (7,9 max.) | 5,9 (7,9 max.) |
| 55 | 55 | 80 |
| 300 | 300 | 380 |
| 1500 x 600 x 210 | 1100 x 600 x 210 | 1500 x 900 x 150 |
| 1500 x 110 (split type) | 1100 x 110 (split type) | 1160 x 150 |
| 1200 x 160 | 800 x 160 | 1200 x 250 |
| no | no | yes |
| 1400 x 420 | 1100 x 420 | 1380 x 580 |
| 300 | 220 | 450-550 |
| 100 (max. 140) | 100 (max. 140) | 100 (max. 140) |
| 280 | 280 | 440 |
| 2311 x 1835 | 2155 x 1543 | 2850 x 1825 |
| 3780 | 3780 | 4070 |
| 14.500 | 12.500 | 27.000 |
| PV 30-200 | PV 60-200 | PV 60-300 |



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