

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.



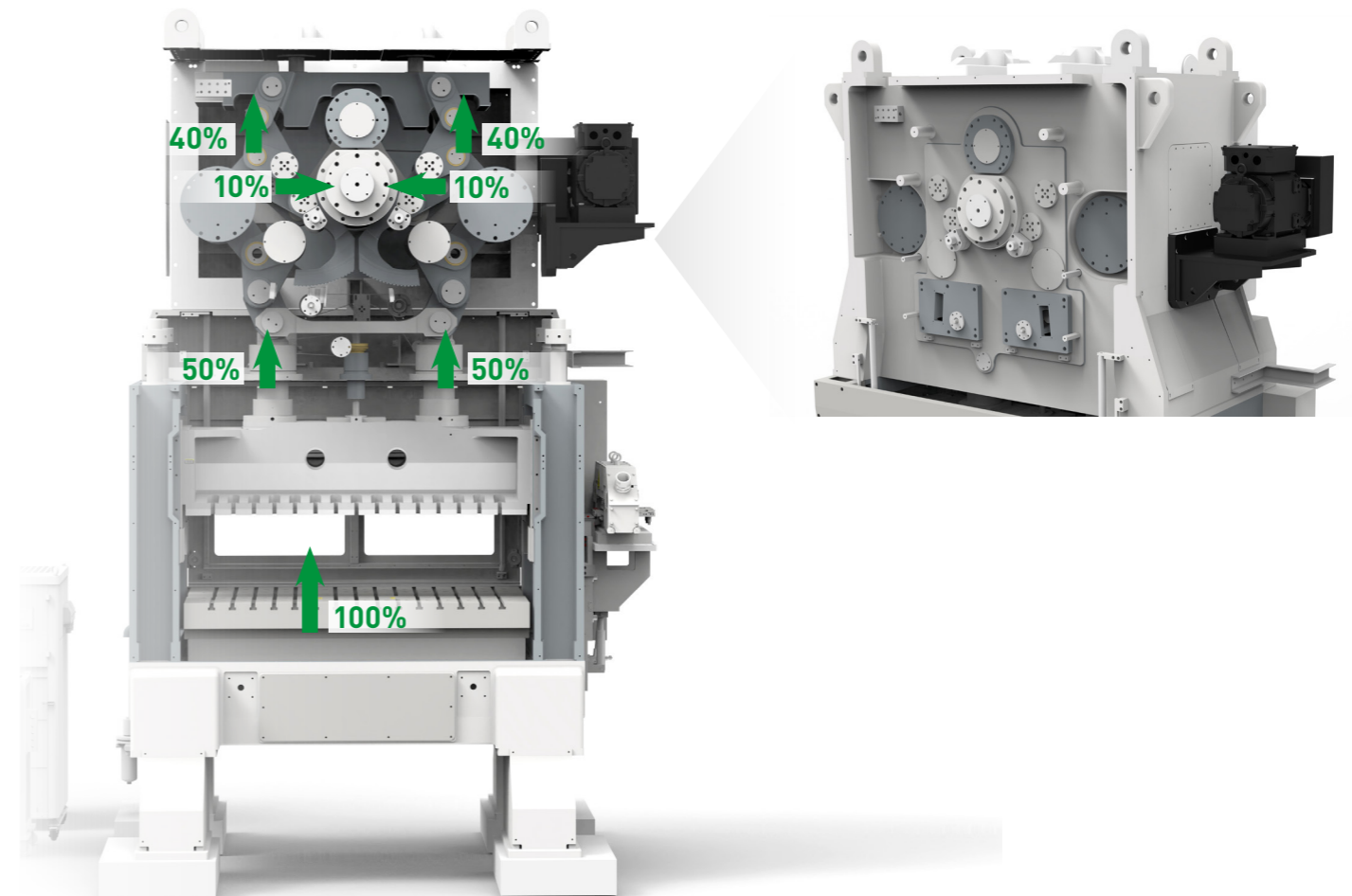
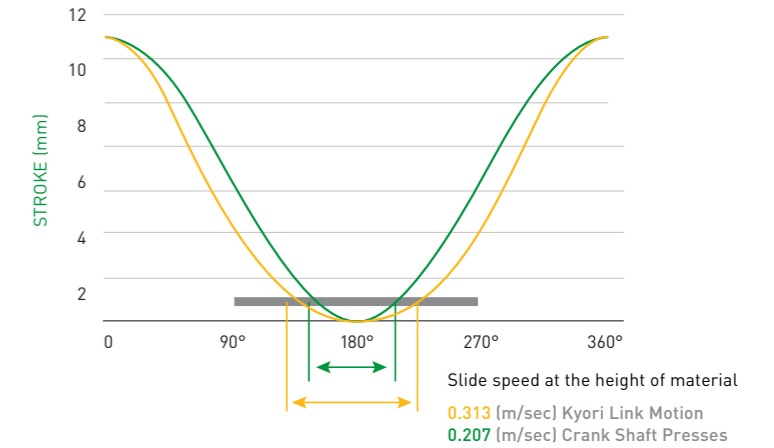
- 1 Highly dynamic, link motion adjustable stroke design
- 2 Modern, high-performance press control in modular design
- 3 Highly efficient drive technology ensuring lower Co2 footprint
- 4 Stroke adjustment doesn't change the shutheight
- 5 Bottom-dead-center position and crank angle position will not 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

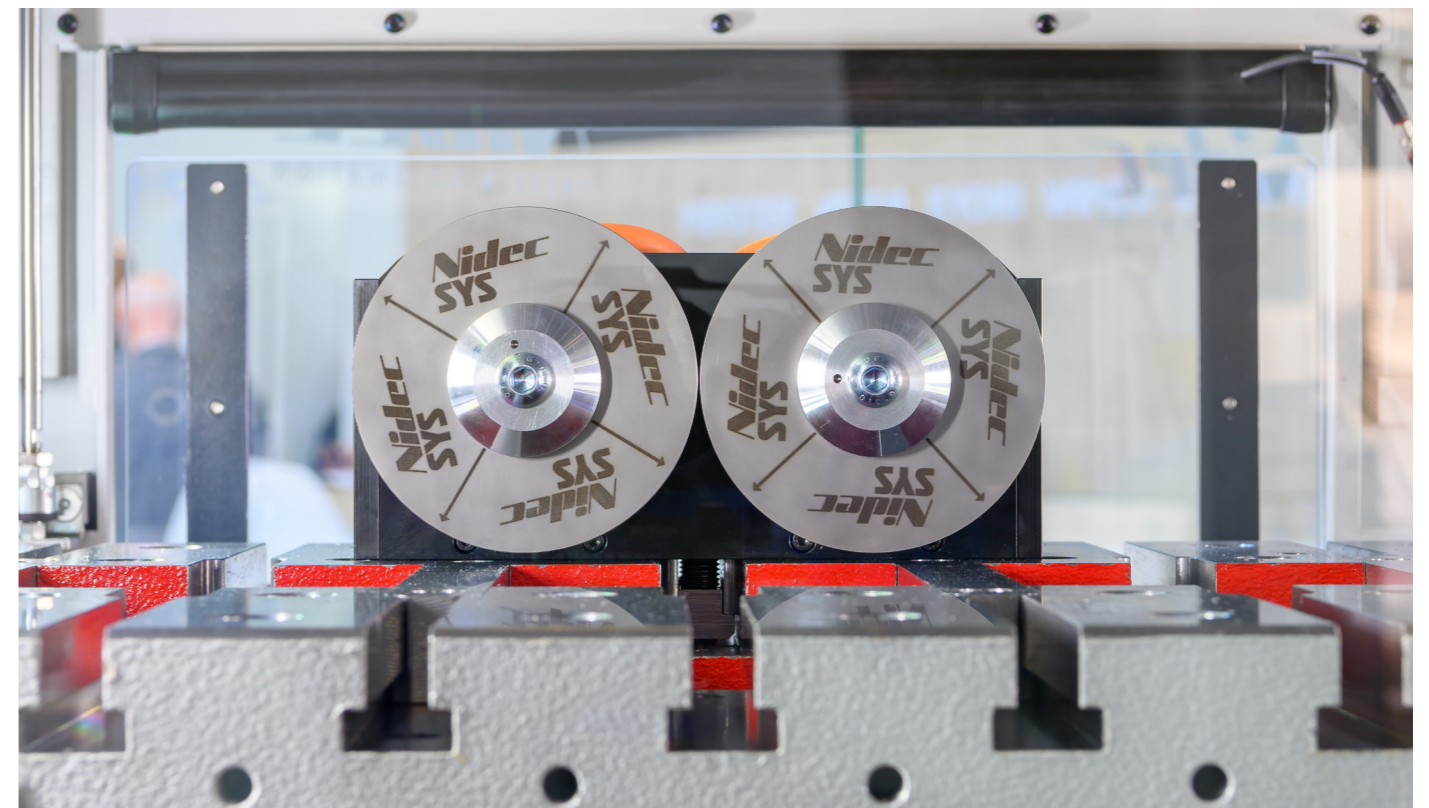
Highly efficient, water cooled AC servo main motor



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	VX-50-1500	VX-50-1100	VX-80-1500
Press Force	kN	400	500	500	800
Tool Loading Area (L-R)	mm	950	1500	1100	1500
Adjustable Stroke	mm	16/20/25/30/35/40/50	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
Speed (Minimum)	SPM	80	100	100	120
Speed (Maximum)	SPM	1000/800/600/500/400/350/260	1100/1000/880/780/700/600/500/450/400	1150/1080/950/830/730/650/550/480/420	650/550/470/400/330/270/150
Main Voltage (EN60204)	V	400	400	400	400
Main Frequency	Hz	50/60	50/60	50/60	50/60
Connected Load	kVA	76	76	76	76
Control Voltage	VDC	24	24	24	24
Water Cooled AC Servo Main Motor	kW	47	47	47	47
Compressed Air Connection: R 1/2"-3/4"	bar	5,9 (7,9 max.)	5,9 (7,9 max.)	5,9 (7,9 max.)	5,9 (7,9 max.)
Ram Adjustment Range	mm	50	55	55	80
Shutheight (standard)	mm	240	300	300	380
Bolster Area (L-R x F-B x height)	mm	950 x 600 x 120	1500 x 600 x 210	1100 x 600 x 210	1500 x 900 x 150
Bolster Plate Opening (L-R x F-B)	mm	700 x 100	1500 x 110 (split type)	1100 x 110 (split type)	1160 x 150
Base Plate Opening (L-R x F-B)	mm	760 x 120	1200 x 160	800 x 160	1200 x 250
Bridge at Bed Opening	yes/no	yes	no	no	yes
Ram Area (L-R x F-B)	mm	950 x 450	1400 x 420	1100 x 420	1380 x 580
Max. Upper Die Weight	kg	180	300	220	450-550
Strip Inlet Height from Bolster	mm	100 (max. 140)	100 (max. 140)	100 (max. 140)	100 (max. 140)
Strip Inlet Width (Machine)	mm	300	280	280	440
Press Dimensions (L-R x F-B)	mm	2120 x 1400	2311 x 1835	2155 x 1543	2850 x 1825
Press Height	mm	3170	3780	3780	4070
Press Weight	kg ca.	9500	14.500	12.500	27.000
High Precision Servo Feed Unit		PV 60-200	PV 30-200	PV 60-200	PV 60-300

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