

KYORI

A NIDEC PRESS & AUTOMATION CO.

VX

VARIABLE STROKE HIGH PERFORMANCE PRESSES

400-1250 kN
40-125 Metric Tons



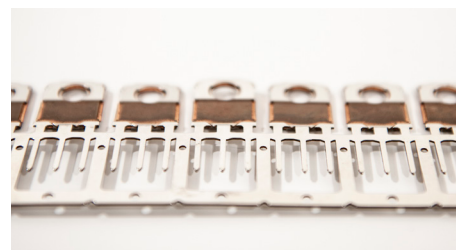
EQUIPPED WITH **SYS** TECHNOLOGY

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.



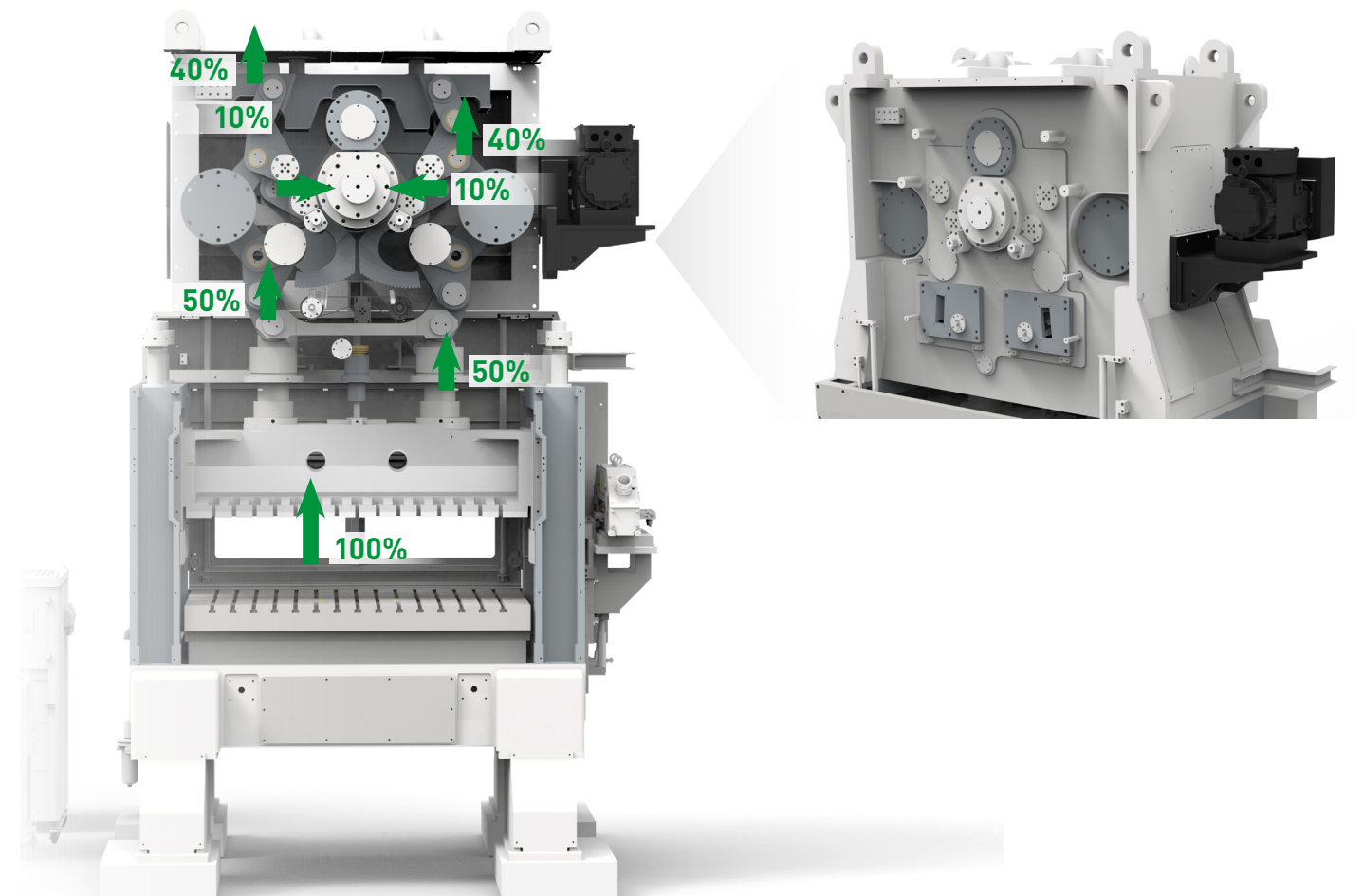
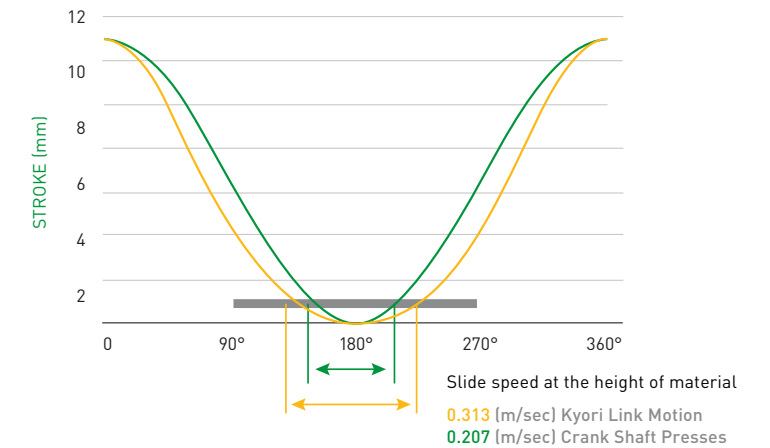
- 1 Highly dynamic, link motion adjustable stroke design
- 2 Modern, high-performance press control in modular design
- 3 Highly efficient drive technology ensuring lower Co2 footprint
- 4 Stroke adjustment doesn't change the shutheight
- 5 Bottom-dead-center position and crank angle position will not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

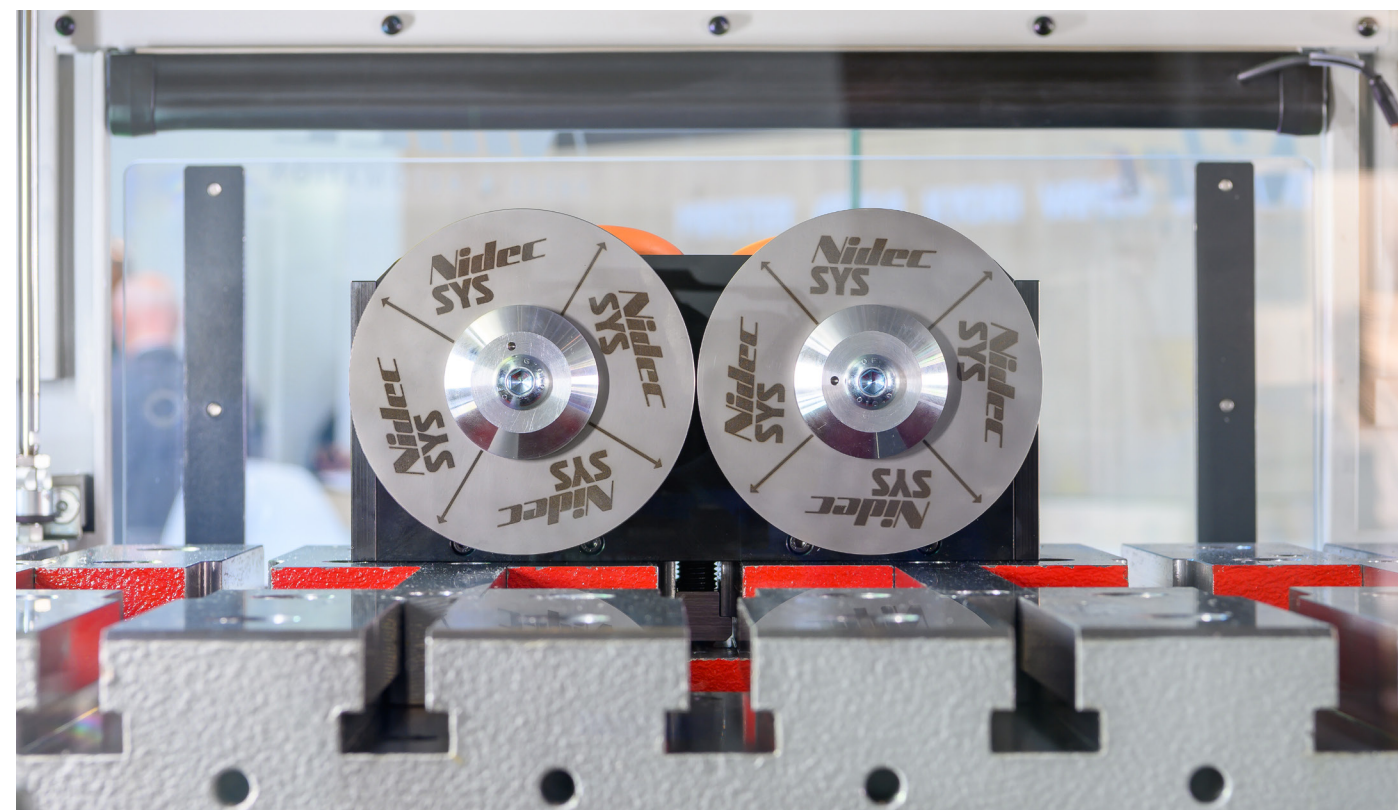
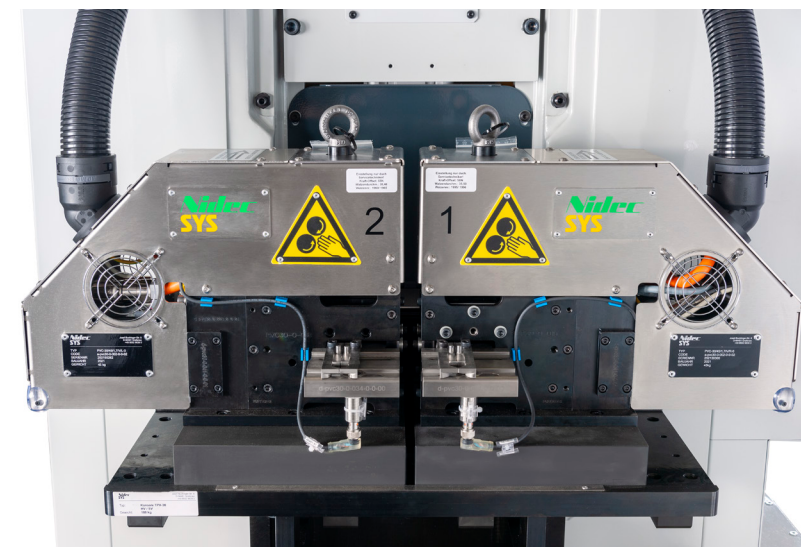
Highly efficient, water cooled AC servo main motor



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

		SYS	VX-40-750	SYS	VX-40-950	SYS	VX-50-1100	SYS	VX-50-1500	SYS	VX-80-1500	SYS	VX-125-2200
Press Force	kN		400		400		500		500		800		1250
Tool Loading Area (L-R)	mm		750 x 500		950		1100		1500		1500		2000 x 600
Adjustable Stroke	mm		15/20/25/30/35/40		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		16/19/26/35/43/51/58/64/70/75
Speed (Minimum)	SPM		80		80		100		100		120		80
Speed - Ceranx Slide (Maximum)	SPM		1200/1000/900/800/700/650		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		860/800/670/540/460/385/340/310/280/260
Main Voltage (EN60204)	V		400		400		400		400		400		400
Main Frequency	Hz		50/60		50/60		50/60		50/60		50/60		50/60
Connected Load	kVA		76		76		76		76		76		76
Control Voltage	VDC		24		24		24		24		24		24
Water Cooled AC Servo Main Motor	kW		47		47		47		47		47		80
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.]		5,9 [7,9 max.]		TBD
Ram Adjustment Range	mm		50		50		55		55		80		75
Shutheight (standard)	mm		-		240		300		300		380		-
Bolster Area (L-R x F-B x height)	mm		750 x 500 x 130		950 x 600 x 120		1100 x 600 x 210		1500 x 600 x 210		1500 x 900 x 150		2200 x 1050 x 150
Bolster Plate Opening (L-R x F-B)	mm		As per customer drawing		700 x 100		1100 x 110 (split type)		1500 x 110 (split type)		1160 x 150		-
Base Plate Opening (L-R x F-B)	mm		560 x 120		760 x 120		800 x 160		1200 x 160		1200 x 250		2000 x 350
Bridge at Bed Opening	yes/no		yes		yes		no		no		yes		yes
Ram Area (L-R x F-B)	mm		750 x 480		950 x 450		1100 x 420		1400 x 420		1380 x 580		2000 x 600
Max. Upper Die Weight	kg		TBD		180		220		300		450-550		1300
Strip Inlet Height from Bolster	mm		100		100 (max. 140)		100 (max. 140)		100 (max. 140)		100 (max. 140)		100 (max. 140)
Strip Inlet Width (Machine)	mm		300		300		280		280		440		500
Press Dimensions (L-R x F-B)	mm		2120 x 1400		2120 x 1400		2155 x 1543		2311 x 1835		2850 x 1825		3050 x 2144
Press Height	mm		3170		3170		3780		3780		4070		4349
Press Weight	kg ca.		9500		9500		12.500		14.500		27.000		46.000
High Precision Servo Feed Unit			PV30-100		PV30-100		PV30-200		PV30-200		PV60-300		PV100-450

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