

KYORI

A NIDEC PRESS & AUTOMATION CO.

SX

PRECISION HIGH-SPEED AUTOMATIC PRESSES

200-500 kN
20-50 Metric Tons



EQUIPPED WITH **SYS** TECHNOLOGY

BULLETIN 204

PRODUCT OVERVIEW

This genuine straight-side link press is optimized for manufacturing micro connectors and low-voltage switches. The Kyori SX Series achieves high-precision processing at a top-class link press speed of up to 3000spm with a 7mm stroke.

This contributes to increased productivity and reduced die costs. It features a genuine straight-side structure, ensuring high rigidity and high precision.



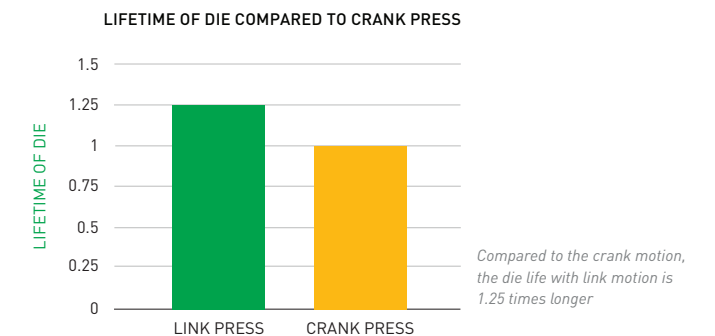
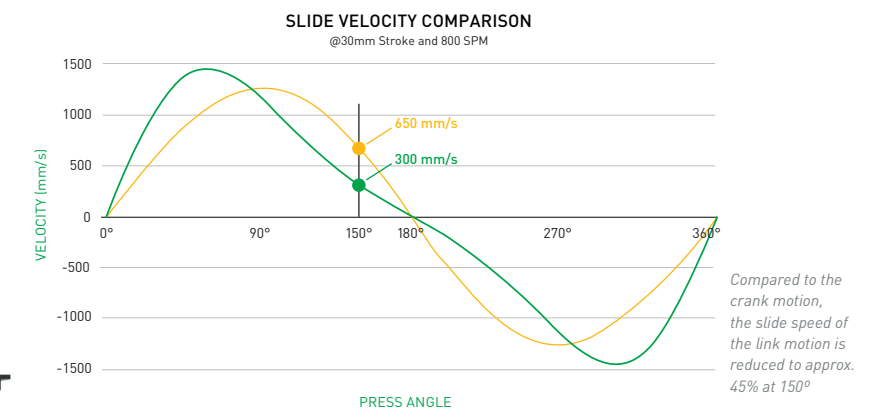
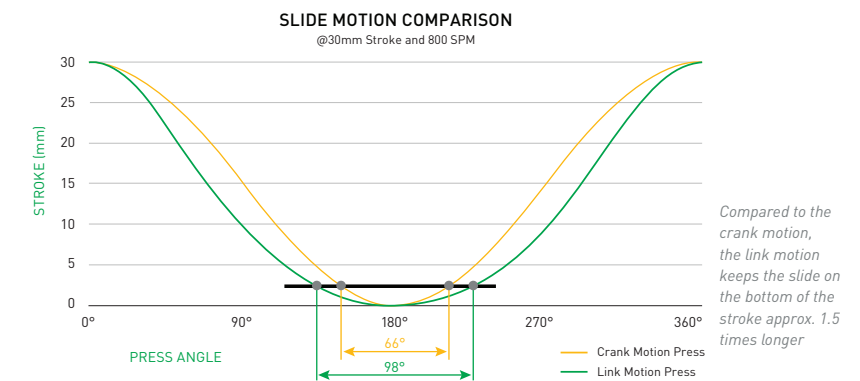
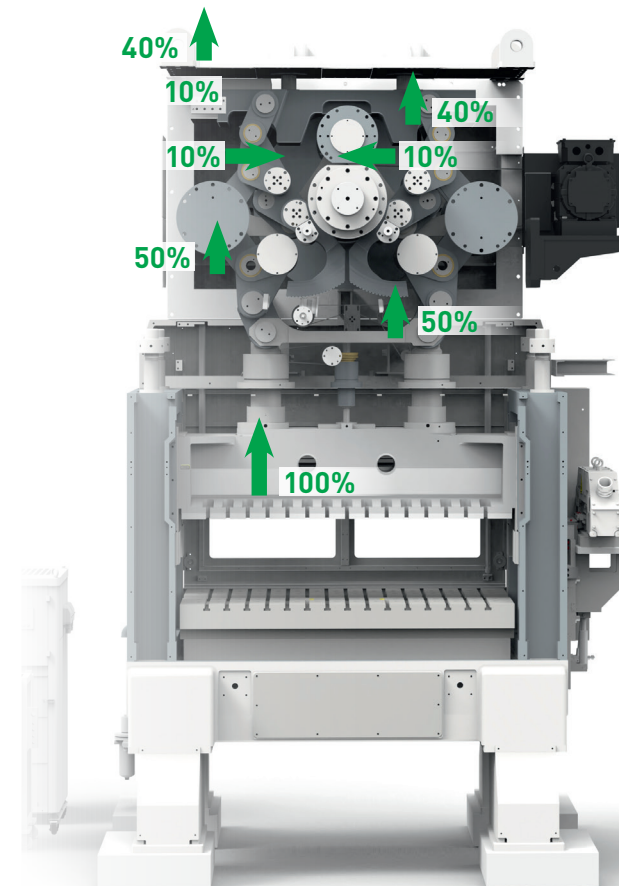
- 1 With up to 3,000 strokes / min. the fastest in the industry
- 2 Modern, high-performance press control in modular design
- 3 Greater weight of the upper tool makes it suitable for various tools
- 4 Outstanding repeat accuracy at bottom dead center
- 5 Customized customer solutions with standard components
- 6 Industry 4.0 capable via OPC-UA interface



ADVANTAGES OF SX 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

Press Control Properties

State-of-the-Art Control Components

- Beckhoff TwinCat 3.1 Realtime-System
- Beckhoff TWINSafe safety system
- Water-cooled servo drive technology
- Ultra-compact cabinet design for minimum footprint

Integrated Measuring and Monitoring Functions

- Optimized process through simple operation via the control system
- Built-in maintenance counter
- Pressure-monitored lubrication system
- OPC-UA interface

Simple Connection of Peripheral Devices

- Faster integration and maximum productivity
- Up to four standard peripheral interfaces
e.g. for unwind/rewind
- Special peripherals, such as Trumpf/IPG laser integration, *available on request*

Standby Energy 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

High-Efficiency Water-Cooled AC Servo Motor

- Current monitoring for early fault detection
- Increased working volume in lower speed range

Semi-Automatic Plunger Correction

- Adaptation to the current stroke rate of the main motor when disengaged
- Correction value freely programmable depending on speed



OPTIONAL FEATURES

Feed and Push/Pull System Integrations

- Can be used as right or left feed
- Quick change system for feed rollers
- Inlet with scale for side adjustment
- Push/pull configurations
- Compact design
- Adjustable airflow
- Sensor for belt end monitoring

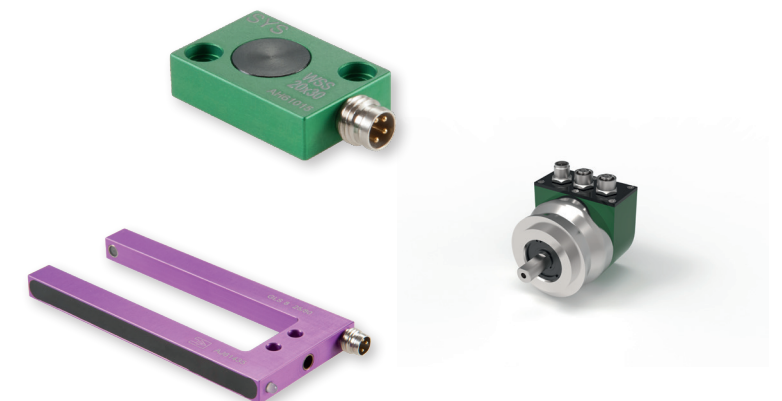
Additional Options

- Profiled rollers
- Rollers with special coating
- Strip thickness measurement

Tool Monitoring

Integrated Measurement and Monitoring Modules

- Tool Safety Inputs (Digital Inputs):
 - » Up to 32 tool safety inputs
- Press Force Measurement:
 - » Two or four press force channels
- Preset Counter:
 - » Up to 32 preset counters
- Analog Measurement (Analog Input):
 - » Up to 32 cam outputs
- Peripheral Inputs (Digital Inputs):
 - » Up to 64 inputs



SPECIFICATIONS & DESIGN

		SYS	SX-8-360	SYS	SX-20 II	SYS	SX-30-900	SYS	SX-50-1500
Press Force	kN		80		200		300	IN DEVELOPMENT	
Tool Loading Area (L-R)	mm		410		670		960		
Available Stroke	mm		6 / 12		4 / 7 / 10 / 13 / 16		10 / 16 / 20 / 30		
Speed (Minimum)	SPM		100		100		100		
Speed - Ceranx Slide (Maximum)	SPM		Max. 3000		3000 / 2800 / 2400 / 2100 / 1800		1900 / 1650 / 1500 / 1200		
Main Voltage (EN60204)	V		400		400		400		
Main Frequency	Hz		50 / 60		50 / 60		50 / 60		
Main Motor	kW		47		47		47		
Control Voltage	VDC		24		24		24		
Compressed Air Connection: R 1/2"-3/4"	bar		R1/2		R1/2		R1/2		
Slide Adjustment Range	mm		30		30		30		
Shutheight (Standard)	mm		320		385		390		
Bolster Area (L-R x F-B x height)	mm		360 x 360 x 100		600 x 500 x 145		900 x 550 x 150		
Bolster Plate Opening (L-R x F-B)	mm		180 x 30		350 x 60		750 x 100		
Base Plate Opening (L-R x F-B)	mm		240 x 50		400 x 100		800 x 120		
Bridge at Bed Opening	yes/no		no		no		no		
Slide Area (L-R x F-B)	mm		360 x 280		600 x 300		900 x 360		
Max. Upper Die Weight	kg		30		60		160		
Strip Inlet Height from Bolster	mm		85±20		90±20		90±20		
Strip Inlet Width (Machine)	mm		118		160		220		
Press Dimensions (L-R x F-B)	mm		1450 x 1270		2020 x 1450		2070 x 1370		
Press Height	mm		2435		3055		3150		
Press Weight	kg ca.		3500		6700		8000		

KYORI

A NIDEC PRESS & AUTOMATION CO.

nidecpa.com



©2025 Nidec Press & Automation
nidecpa.com

ONE BRAND: A WORLD OF RESOURCES

REV 001_0526