

ANEX

HIGH PERFORMANCE FIXED STROKE PRESSES

300 - 1,500 kN

30 - 150 Metric Tons



PRODUCT OVERVIEW

Kyori presses are recognized worldwide for their high performance, precise UT repeatability and ease of operation. The Link-Motion presses of the Kyori ANEX series are among the most powerful fixed-stroke presses in the high-speed segment, and offer users longer tool life and high efficiency.



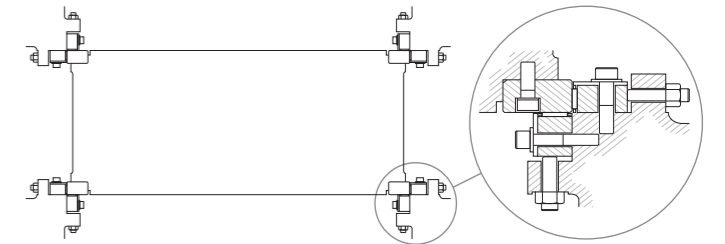
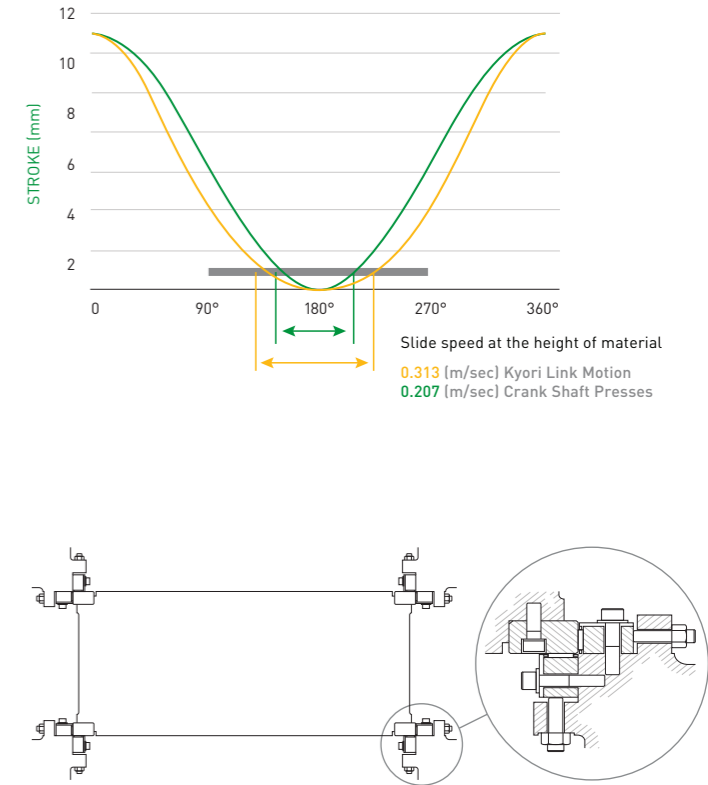
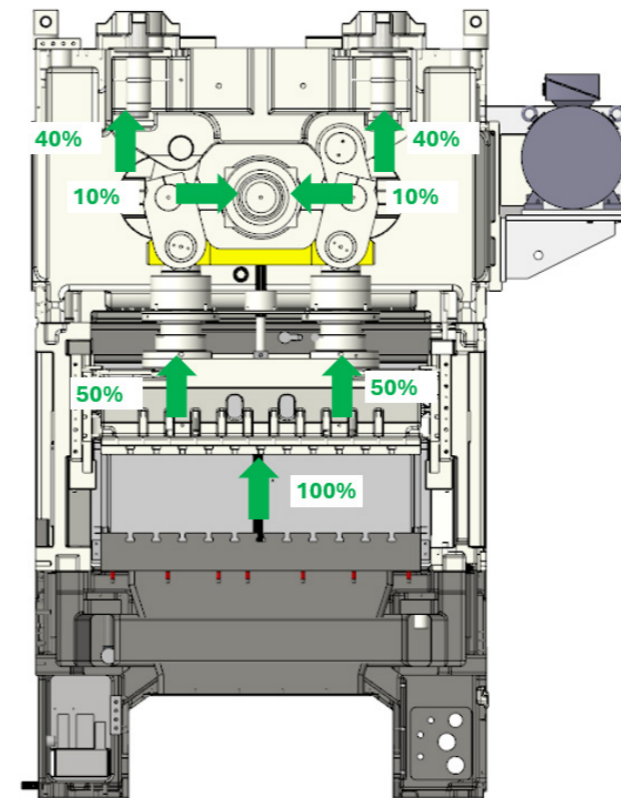
- 1** High dynamic link motion fixed stroke design
- 2** Modern, high-performance press control in modular design
- 3** All ANEX models available in different stroke lengths
- 4** Highly efficient drive technology ensuring lower Co2 footprint
- 5** Bottom-dead-center position and crank angle position will not be changed
- 6** Customized solutions with Nidec SYS components as required
- 7** Industry 4.0 capable via OPC-UA interface



ADVANTAGES OF ANEX 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
 - Option for higher upper die weight
 - 8-point needle roller bearing, installed in long guideways to prevent the ram from tilting under off-center loads



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
- Servo scrap-cutter
- 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

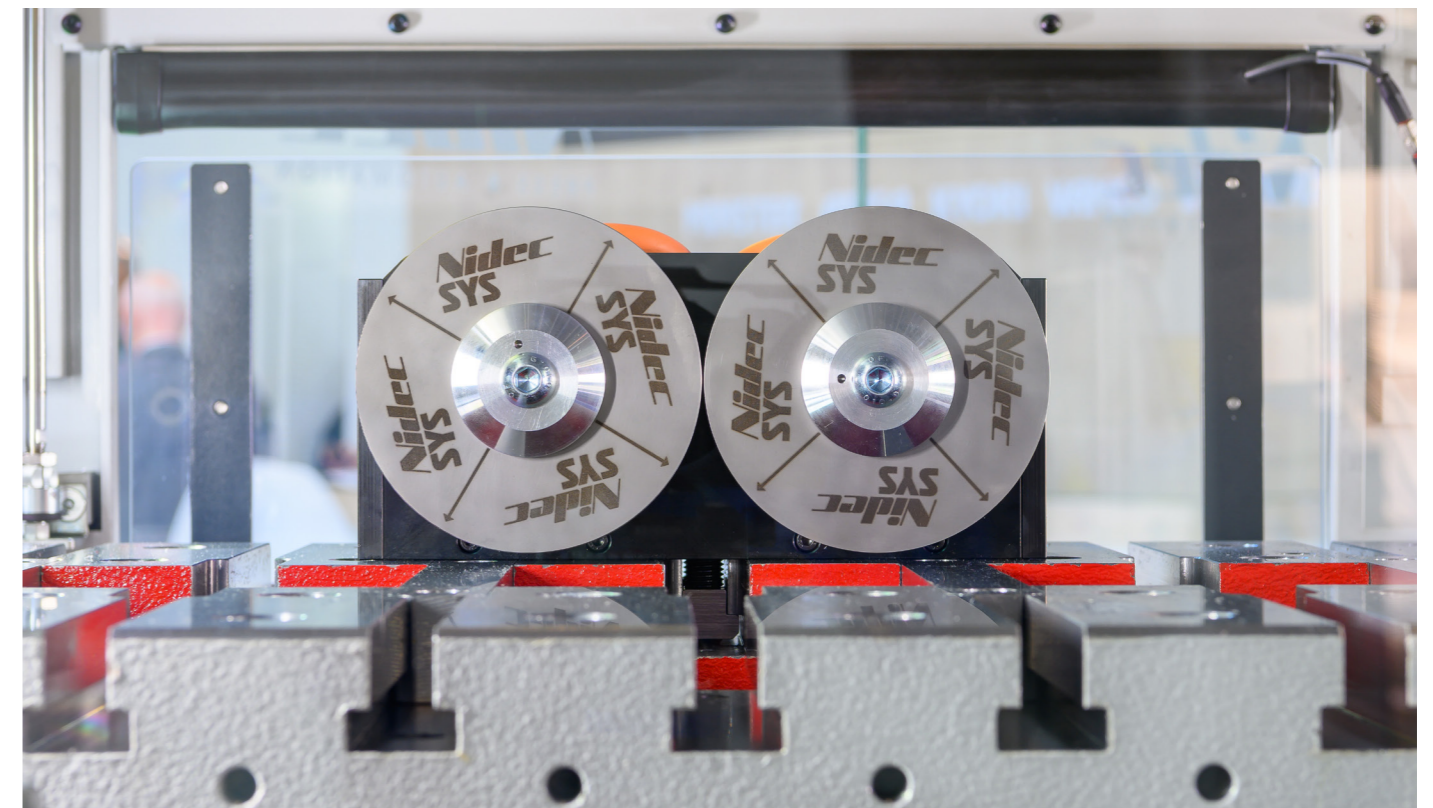
Highly efficient, water cooled AC servo main motor



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	ANEX 30 II -600	SYS	ANEX 30 II H -600	SYS	ANEX 40 II -750	SYS	ANEX 40 II H -750	SYS	ANEX 40 II W -950
Fixed Stroke, Knuckle Link Motion											
Press Force	kN		300		300		400		400		400
Tool Loading Area (L-R)	mm		600		600		750		750		950
Adjustable Stroke ^A	mm		5 ⁽¹⁾ /20/25/32/35 ⁽¹⁾		5 ⁽¹⁾ /14/16/2 /25/32		5 ⁽¹⁾ /6/20/25/30/32/36		10 ⁽¹⁾ /16/20/25/30/32/36 ⁽¹⁾		20/25/32/40/50 ⁽¹⁾
Strokes Per Minute	SPM		200		200		180		180		180
Strokes Per Minute (stroke length dependant)	SPM		TBD ⁽¹⁾ / 1200/1050/900/800		1600/1500/1400/1350/1150/1000		1100/1000/1000/900/850/850/600		TBD ⁽²⁾ /1200/1100/1000/950/950/TBD ⁽²⁾		850/850/800/700/550
Main Voltage (EN60204) ^A	V		400		400		400		400		400
Mains Frequency (EN60204) ^A	Hz		50/60		50/60		50/60		50/60		50/60
Connected Load (max.)	kVA		76		76		76		76		76
Control Voltage	VDC		24		24		24		24		24
Water Cooled AC Servo Main Motor	kW		47		47		47		47		47
Compressed Air Connection R 1/2" - 3/4"	bar		5.9-7.9		5.9-7.9		5.9-7.9		5.9-7.9		5.9-7.9
Ram Adjustment Range	mm		40/40/40/40/35		40		50/50/50/50/50/45		50/50/50/50/50/45		50/50/50/45/35
Shutheight (Standard) ^{A,D}	mm		240/240/240/24/235		240		240/240/240/240/235		240/240/240/240/240/235		240/240/240/235/225
Bolster Area (L-R x F-B x H)	mm		600 x 400 x 90		600 x 400 x 90		750 x 500 x 120		750 x 500 x 120		950 x 600 x 120
Bolster Plate Opening (L-R, F-B)	mm		350 x 60		350 x 60		500 x 100		500 x 100		700 x 100
Base Plate Opening (L-R, F-B)	mm		400 x 100		400 x 100		560 x 120		560 x 120		790 x 120
Bridge at Bed Opening			no		no		no		no		no
Ram Area (L-R, F-B)	mm		600 x 300		600 x 300		750 x 340		750 x 340		950 x 450
Max. Upper Die Weight ^E	kg		80		80		155		155		155-180
Recommendation Upper Die Weight	kg		56		56		109		109		109-126
Strip Inlet Height from Bolster	mm		70-110		70-110		100-140		100-140		100-140
Strip Inlet Width (Machine)	mm		160		160		200		200		200
DIMENSION^F											
Press Dimensions (L-R, F-B)	mm		1,780(2,200) ⁽⁴⁾ x 1,315		1,780(2,200) ⁽⁴⁾ x 1,315		1,850 x 1,300		1,850 x 1,300		2,050 x 1,330
Height	mm		3,075(2,760) ⁽⁴⁾		3,075(2,760) ⁽⁴⁾		3,180		3,180		3185
Weight	kg		6,500		6,500		8,000		8,000		9,500
High Precision Servo Feed Unit			PV - 30-100		PV-30-100		PV-30-100		PV-30-100		PV-30-100

- A. Options on request
 B. 15T-40T: 1/2" ; 60T-150T: 3/4"
 C. Shutheight and adjustment is dependant upon stroke length
 D. Thickness is dependent on shutheight request
 E. Dependant on stroke and speed requirement
 F. Without control cabinet, oil cooler and peripheral equipment

1. Max. speed at shortet stroke is TBD
 2. Please contact your sales representative
 3. Slide is light weight version with aluminum sub plate
 4. () dimension is main motor mounted on the side of press an an option

SPECIFICATIONS & DESIGN

		SYS	ANEX 40EW -1100³	SYS	ANEX 60 II -1100	SYS	ANEX 60 II H -1100-1200	SYS	ANEX 60 II W -1350	SYS	ANEX 80 II -1200
Fixed Stroke, Knuckle Link Motion											
Press Force	kN		400		600		600		600		800
Tool Loading Area (L-R)	mm		1,100		1,100		1,100 or 1,200		1,350		1,200
Fixed Stroke ^A	mm		12 ⁽¹⁾ /20/25/32/40		10 ⁽¹⁾ /20/25/32/351)/40/50 ⁽¹⁾		10 ⁽¹⁾ /20/25/32/50 ⁽¹⁾ /64 ⁽¹⁾		25/32/40/45/50/60 ⁽¹⁾		20/25/32/36/45 ⁽¹⁾ /50 ⁽¹⁾
Strokes Per Minute	SPM		100		100		200		100		120
Strokes Per Minute (stroke length dependant)	SPM		1100/1000/950/850/750		TBD ⁽²⁾ /750/750/650/600/500/400		1000/800/800/700/TBD ⁽²⁾ /TBD ⁽²⁾		700/600/450/400/350/TBD ⁽²⁾		700/600/550/500/400/400
Main Voltage (EN60204) ^A	V		400		400		400		400		400
Mains Frequency (EN60204) ^A	Hz		50/60		50/60		50/60		50/60		50/60
Connected Load (max.)	kVA		76		76		76		76		76
Control Voltage	VDC		24		24		24		24		24
Water Cooled AC Servo Main Motor	kW		47		47		47		47		47
Compressed Air Connection R 1/2" - 3/4"	bar		5.9-7.9		5.9-7.9		5.9-7.9		5.9-7.9		5.9-7.9
Ram Adjustment Range	mm		50		80/80/80/80/80/75/60		80		80/80/75/65/60/50		80/80/80/80/70/65
Shutheight (Standard) ^D	mm		300		300/300/300/300/300/280		300		340/340/335/325/320/320		320/320/320/320/310/305
Bolster Area (L-R x F-B x H)	mm		1,100 x 600 x 130		1,100 x 600 x 140		1,100-1,200 x 600 x 140		1,350 x 600 x 140		1,200 x 800 x 160
Bolster Plate Opening (L-R, F-B)	mm		TBD		780 x 80		780 x 80		1,000 x 80		860 x 120
Base Plate Opening (L-R, F-B)	mm		910 x 120		840 x 120		840-920 x 120		1,050 x 120		900 x 160
Bridge at Bed Opening			no		no		no		no		no
Ram Area (L-R, F-B)	mm		1,100 x 450		1,030 x 500		1,030-1,130 x 500		1,280 x 500		1,080 x 580
Max. Upper Die Weight ^E	kg		180		450		250-450		400-500		500
Recommendation Upper Die Weight	kg		126		315		175-315		280-350		350
Strip Inlet Height from Bolster	mm		90-150		100-140		100-140		100-140		100-140
Strip Inlet Width (Machine)			200		230		230		230		280
DIMENSION^F											
Press Dimensions (L-R, F-B)	mm		2,630 x 1,520		2,840 x 1,490		2,630 x 1,595		3,090 x 1,490		3,000 x 1,555
Height	mm		3,245		3,080		3,052		3,170		3,380
Weight	kg		11,000		14,000		14,000		16,000		19,000
High Precision Servo Feed Unit	standard		PV-30-100		PV-30-300		PV-30-300		PV-30-300		PV-30-300

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SPECIFICATIONS & DESIGN

		SYS	ANEX 80 II SH -850	SYS	ANEX 80 II W -1500	SYS	ANEX 125 -1600	SYS	ANEX 125 SH -1200	SYS	ANEX 150 -1600
Fixed Stroke, Knuckle Link Motion											
Press Force	kN		800		800		1,250		1,250		1,500
Tool Loading Area (L-R)	mm		850		1,500		1,600		1,200		1,600
Fixed Stroke ^A	mm		20/25		25/32/461/60 ⁽¹⁾		25/36/50 ⁽¹⁾ /60 ⁽¹⁾		20/25/36		20/25/36/50
Strokes Per Minute	SPM		150		120		100		100		100
Strokes Per Minute <i>(stroke length dependant)</i>	SPM		800/700		500/450/400/350		400/350/250/250		600/600/400		400/400/300/250
Main Voltage (EN60204) ^A	V		400		400		400		400		400
Mains Frequency (EN60204) ^A	Hz		50/60		50/60		50/60		50/60		50/60
Connected Load (max.)	kVA		76		76		TBD		TBD		TBD
Control Voltage	VDC		24		24		24		24		24
Water Cooled AC Servo Main Motor	kW		47		47		84		84		84
Compressed Air Connection R 1/2" - 3/4"	bar		5.9-7.9		5.9-7.9		5.9-7.9		5.9-7.9		5.9-7.9
Ram Adjustment Range	mm		80		80/80/70/55		80/80/60/55		80		80/80/80/60
Shutheight (Standard) ^{A,D}	mm		320		320/320/310/295		350/350/330/330		350		350/350/350/330
Bolster Area (L-R x F-B x H)	mm		850 x 800 x 160		1,500 x 800 x 160		1,600 x 900 x 180		1,200 x 900 x 180		1,600 x 900 x 180
Bolster Plate Opening (L-R, F-B)	mm		460 x 120		1,160 x 120		1,260 x 160		920 x 120		1,260 x 120
Base Plate Opening (L-R, F-B)	mm		150 x 160		1,200 x 160		1,300 x 160		960 x 160		1,300 x 160
Bridge at Bed Opening			no		yes		yes		yes		yes
Ram Area (L-R, F-B)	mm		850 x 580		1,380 x 580		1,480 x 600		1,080 x 600		1,480 x 600
Max. Upper Die Weight ^E	kg		250		500		600		350		900
Recommendation Upper Die Weight ^D	kg		175		350		420		245		630
Strip Inlet Height from Bolster	mm		100-140		100-140		100-140		100-140		100-140
Strip Inlet Width (Machine)			280		280		360		360		360
DIMENSION^F											
Press Dimensions (L-R, F-B)	mm		2,680 x 1,590		3,280 x 1,560		3,520 x 1,730		3,140 x 1,730		3,520 x 1,730
Height	mm		3,400		3,380		4,070		3,990		4,185
Weight	kg		18,000		22,000		33,000		28,000		36,000
High Precision Servo Feed Unit	standard		PV-30-300		PV-30-300		PV-100-300		PV-100-300		PV-100-450

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