PRESS SYSTEMS FOR BLANKING AND STAMPING

TABLE OF CONTENTS:

p.1 Who We Are

p.3 What We Do

p.5 Services

p.7 CX Series

p.11 MC/MCP/MCL Series

p.13 DA/DAH Series

p.15 DTE/DTL Series

p.19 DL/DTL Series

p.21 Servo Presses

p.25 Hydraulic Presses

p.27 Automation

p.29 More than Presses

SIMPAC America

Who We Are

SIMPAC America is the North American subsidiary of South Korea's leading press manufacturer, SIMPAC, Inc. The company's product portfolio comprises mechanical, servo, and hydraulic presses along with tandem lines and automation solutions. Customers are acquired from various branches of the metal forming industry (i.e., automotive manufacturers and tier suppliers, home appliances and household goods, furniture and electronics industries, and the military & aerospace industry).

> Founded in 1973, SIMPAC holds 70% of the market share in its home market of South Korea. Since 2004, over 10 sales and service branches were established in Asia, Europe, the United States and Mexico – marking the company's footprint as a global leader of metal forming technology.





What We Do



At SIMPAC America, we are devoted to serving both technology and price driven customers. Our North American team is focused on establishing long-term partnerships and development projects through our wide array of press systems and reliable services.

We ensure time and cost-efficient production of high-quality, sophisticated products with our extensive production capabilities and state-of-the-art machine park. Competitive advantages of SIMPAC's press systems, manufactured exclusively at the company's South Korean plants, include continuous improvements derived from insights of global markets and value-added manufacturing concepts pertaining to SIMPAC Group.

Services

Manufacturing:

With 100% control of the production process from start to finish, SIMPAC is one of the few press manufacturers that can offer unbeatable quick delivery times and a competitive price/performance ratio. SIMPAC's manufacturing capabilities include:

- Making castings at our casting shop
- Welding and fabrication at our fab shop
- Turning and cutting of gears at our gear shop
- In-house trial runs throughout the production process
- · Complete control of the intricate assembly, shipping, and installation of our standalone presses and automated press systems

Design & Engineering:

SIMPAC's R&D team, based in Seoul, Korea, helps to further establish the company as a global leader of metal forming technology through:

- · Continual advancement of new press systems and automation solutions - and optimization of SIMPAC's existing product range
- Implementing 3D CAD design with FEM analysis as a standard
- Value-added product design and innovation of individualized customer orders and specialized solutions





Aftermarket Sales & Service Support:

SIMPAC supports its customers with comprehensive sales and service support. Our scope of services include:

- · Equipment serviceability and spare parts inventory
- Basic training, maintenance, and inspection of technology
- · Project management of all installation, commissioning, and service projects
- Consultation for process optimization of system modernization and die change sequence
- Immediate accessibility for emergency repair and maintenance (free service during warranty periods)
- Turnkey solutions through strategic partnerships with our worldwide network of top industry suppliers



CX Series



CX Series







OVERVIEW

Type: c-frame presses Press Capacity: 80-300 tons Part Size: small Slide Kinematics: crank motion Application: cutting, stamping, bending, embossing & forming

DESCRIPTION

C-frame presses are flexible solutions for the production of small parts. The c-shape provides great accessibility to the die space and is suitable for both manual and automated work of linked production processes.

FEATURES & BENEFITS

- The CX is the most versatile of c-frame presses as it is ideal for punching and cutting operations with a higher degree of automation.
- The compact design requires a very small footprint and no foundation work, ensuring great accessibility for maintenance.
- The series can operate as a single press or press line with transfer, shuttle, or robot automation.
- · When installed as a press line, the flexible combination of different tonnages enables optimum adaptability to the specific requirements of both parts and dies.
- · Solid, low-stress annealed press body in a monobloc design with minimal frame deflection.
- The durable hydraulic clutch is wear-resistant and operates at a low decibel range.
- A casting slide absorbs process-related vibrations, protecting press and dies.
- The 4-fold slide guiding ensures a high tilting rigidity.
- Hydraulic overload protection for both press and dies.
- Fast delivery (production time frame as soon as 12 weeks).

CX Series CX-80 (ST | LS) CX-110 (ST | LS Model Press Capacity 110 ton 80 Rated Tonnage Point mm 6 6 70-110 | 50-80 65-100 45-70 Stroke Rate spm 110 | 180 Stroke Length mm 100 | 160 Slide Adjustment 120 120 mm 400 | 450 Die Height mm 350 | 400 Slide Dimension 850 x 500 1000 x 6000 mm **Bolster Dimension** mm 1000 x 600 1150 x 700 3200 3500 **Overall Height** mm **Die Cushion Capacity** ton 7 11 100 **Die Cushion Stroke** 80

mm

mm

Die Cushion Pad Area

*SDAU = slide stroke down, adjustment up | ST = standard | LS = long stroke | Subject to technical modifications. Based on customer requirements these specifications may change.

560 x 400

500 x 300



CX-150 (ST LS)	CX-200 (ST LS)	CX-250 (ST LS)	CX-300 (ST LS)
150	200	250	300
6	6	6	7
60-90 40-60	45-70 35-50	45-70 35-50	25-40 20-35
130 250	160 300	200 300	250 350
150	150	150	180
450 500	500 550	550 600	600 600
1200 x 700	1300 x 800	1450 x 850	1700 x 900
1400 x 800	1500 x 900	1700 x 1000	1900 x 1000
3900	4200	4600	5300
15	15	15	15
110	130	130	130
680 x 420	760 x 460	760 x 460	860 x 460

MC/MCP/MCL Series







OVERVIEW

Type: semi h-frame presses Press Capacity: 80-800 tons Part Size: small to medium Slide Kinematics: crank motion (MC; MCP) or link motion (MCL) Application: blanking, stamping, bending, embossing & drawing

DESCRIPTION

These compact presses are optimized for a wide range of small- to medium-sized parts. Due to the drive-related slide kinematics, the MCL Series, in particular, is ideal for drawn parts. The reduced forming speed increases the part quality and protects the press and dies.

FEATURES & BENEFITS

- Flexible installation options as a single press in progressive or transfer mode or as a fully automated press line.
- The compact design requires little floorspace and no foundation for presses below 600 tons.
- The very solid, low-stress annealed press bodies are FEM-calculated and optimized by "hot-spot analysis" areas subject to higher loads.
- Motor, clutch/brake unit, lubrication system, and controls are of Korean origin and guarantee a long service life, maximum dynamics, and a supply of spare parts.
- When it comes to higher-strength materials, the slide guiding system ensures a high level of tilting rigidity and reduces the cutting impact during the cut through process.

MC1 Series

	MC1-110	MC1-150	MC1-200	MC1-250	MC1-300	MC1-400	MC1-500
ton	110	150	200	250	300	400	500
mm	6	6	6	6	7	7	7
spm	50-100	45-90	35-70	35-60	20-40	20-35	20-35
mm	110	130	160	200	250	280	350
mm	100	100	120	120	120	120	120
mm	350	400	450	500	500	550	600
mm	900 x 550	1000 x 650	1150 x 750	1250 x 750	1500 x 900	1650 x 1000	1800 x 1100
mm	1000 x 700	1150 x 750	1300 x 850	1400 x 950	1600 x 1000	1800 x 1100	1950 x 1200
mm	3000	3330	3700	4000	4400	4700	5300
ton	10	14	14	14	14	14	15
mm	80	100	100	100	130	130	130
mm	540 x 340	640 x 420	640 x 420	640 x 420	860 x 460	860 x 460	860 x 460
	ton mm spm mm mm mm mm mm ton mm	MC1-110 ton 110 mm 6 spm 50-100 mm 110 mm 350 mm 900 x 550 mm 1000 x 700 mm 3000 ton 10 mm 80 mm 540 x 340	MC1-110 MC1-150 ton 110 150 mm 6 6 spm 50-100 45-90 mm 110 130 mm 100 100 mm 350 400 mm 900 x 550 1000 x 650 mm 1000 x 700 1150 x 750 mm 3000 3330 ton 10 14 mm 80 100 mm 540 x 340 640 x 420	MC1-110 MC1-150 MC1-200 ton 110 150 200 mm 6 6 6 spm 50-100 45-90 35-70 mm 110 130 160 mm 100 100 120 mm 350 400 450 mm 900 x 550 1000 x 650 1150 x 750 mm 3000 3330 3700 ton 10 14 14 mm 80 100 100 mm 540 x 340 640 x 420 640 x 420	MC1-110 MC1-150 MC1-200 MC1-250 ton 110 150 200 250 mm 6 6 6 6 spm 50-100 45-90 35-70 35-60 mm 110 130 160 200 mm 100 100 120 120 mm 350 400 450 500 mm 900 x 550 1000 x 650 1150 x 750 1250 x 750 mm 1000 x 700 1150 x 750 1300 x 850 1400 x 950 mm 3000 3330 3700 4000 ton 10 14 14 14 mm 80 100 100 100 mm 540 x 340 640 x 420 640 x 420 640 x 420	MC1-110 MC1-150 MC1-200 MC1-250 MC1-300 ton 110 150 200 250 300 mm 6 6 6 7 spm 50-100 45-90 35-70 35-60 20-40 mm 110 130 160 200 250 mm 100 100 120 120 120 mm 350 400 450 500 500 mm 900 x 550 1000 x 650 1150 x 750 1250 x 750 1500 x 900 mm 3000 3330 3700 4000 4400 ton 10 14 14 14 mm 80 100 100 130	MC1-110 MC1-150 MC1-200 MC1-250 MC1-300 MC1-400 ton 110 150 200 250 300 400 mm 6 6 6 7 7 spm 50-100 45-90 35-70 35-60 20-40 20-35 mm 110 130 160 200 250 280 mm 100 100 120 120 120 120 mm 350 400 450 500 500 550 mm 900 x 550 1000 x 650 1150 x 750 1250 x 750 1500 x 900 1650 x 1000 mm 3000 3330 3700 4000 4400 4700 mm 3000 3330 3700 4000 4400 4700 mm 300 144 14 14 14 14 mm 80 100 100 100 130 130 mm

MC2 Series

Model		MC2-200	MC2-250	MC2-300	MC2-350	MC2-400	MC2-500	MC2-600	MC2-800
Press Capacity	ton	200	250	300	350	400	500	600	800
Rated Tonnage Point	mm	7	7	6	6	7	7	7	7
Stroke Rate	spm	25-80	25-80	25-80	15-70	15-70	15-60	15-60	15-50
Stroke Length	mm	250	280	300	300	350	350	350	350
Slide Adjustment	mm	110	120	120	120	120	120	120	120
Die Height	mm	500	550	550	600	600	650	700	700
Slide Dimension	mm	1850 x 650	2400 x 1000	2600 x 1000	2600 x 1200	2700 x 1300	3000 x 1300	3000 x 1400	3200 x 1400
Bolster Dimension	mm	2150 x 850	2500 x 1100	2700 x 1100	2700 x 1200	2800 x 1400	3000 x 1400	3000 x 1500	3200 x 1500
Overall Height	mm	3775	4390	4545	4595	5105	5500	5860	6300
Die Cushion Capacity	ton	22	22	22	22	30	30	30	30
Die Cushion Stroke	mm	100	110	110	110	140	140	140	140
Die Cushion Pad Area	mm	1000 x 400	1590 x 500	1590 x 500	1590 x 500	1750 x 500	1750 x 500	1750 x 500	1750 x 500

MCP2 Series

Model		MCP2-400	MCP2-600	MCP2-800
Press Capacity	ton	400	600	800
Rated Tonnage Point	mm	6	6	6
Stroke Rate	spm	30-70	25-60	20-50
Stroke Length	mm	300	350	350
Slide Adjustment	mm	200	250	250
Die Height	mm	600	800	800
Slide Dimension	mm	3000 x 1400	4000 x 1500	4000 x 1500
Bolster Dimension	mm	300 x 1400	4000 x 1500	4000 x 1500
Main Motor (AC)	kW	75	90	90
Counterbalancing Capacity	ton (MPa)	5 (0.7)	7 (0.7)	7 (0.7)
Frame Combined		Monobloc	Tie Rod	Tie Rod
Frame Deflection	mm/m	1/8000	1/8000	1/8000
Anti-vibration Device		Spring & Damper	Spring & Damper	Spring & Damper
Pit		Necessary	Necessary	Necessary

MCL1 Series									
Model		MCL1-80	MCL1-110	MCL1-150	MCL1-200	MCL1-250	MCL1-300	MCL1-400	MCL1-600
Press Capacity	ton	80	110	150	200	250	300	400	600
Rated Tonnage Point	mm	4	6	6	6	6	7	8	8
Stroke Rate	spm	55-110	50-100	40-85	35-70	35-60	20-40	20-40	15-50
Stroke Length	mm	100	110	130	160	200	250	300	350
Slide Adjustment	mm	80	100	100	120	120	120	120	120
Die Height	mm	320	370	400	450	470	500	500	500
Slide Dimension	mm	750 x 500	900 x 550	1000 x 650	1150 x 750	1250 x 750	1500 x 900	1650 x 1000	1950 x 1200
Bolster Dimension	mm	900 x 600	1000 x 700	1150 x 750	1300 x 850	1400 x 950	1600 x 1000	1800 x 1100	2100 x 1300
Overall Height	mm	2250	2400	2750	3050	3100	3100	3100	3700
Die Cushion Capacity	ton	8	10	14	14	14	15	15	15
Die Cushion Stroke	mm	80	80	100	100	100	130	130	130
Die Cushion Pad Area	mm	480 x 300	540 x 340	640 x 420	640 x 420	640 x 420	640 x 420	860 x 460	860 x 460

MCL2 Series

Model		MCL2-200 (ST HS)	MCL2-250 (ST HS)	MCL2-300	MCL2-400	MCL2-500	MCL2-600	MCL2-800
Press Capacity ton		200	250	300	400	500	600	800
Rated Tonnage Point	mm	3.5 7	3.5 7	6	7	7	7	7
Stroke Rate	spm	35-70 25-45	30-55 20-40	20-40	20-40	20-30	15-50	15-40
Stroke Length	mm	150 250	170 250	250	300	350	350	350
Slide Adjustment	mm	120	120	120	120	120	120	120
Die Height	mm	450 500	450 550	600	700	700	700	700
Slide Dimension	mm	1850 x 650	2400 x 1000	2600 x 1000	2700 x 1300	2900 x 1300	3000 x 1400	3200 x1 400
Bolster Dimension	mm	2150 x 850	2500 x 1100	2700 x 1100	2800 x 1400	3000 x 1400	3000 x 1500	3000 x 1500
Overall Height	mm	3950 4210	4180 4390	4560	5120	5550	5910	6300
Die Cushion Capacity	ton	22	22	22	30	30	30	30
Die Cushion Stroke	mm	100	110	110	110	140	140	140
Die Cushion Pad Area	mm	1000 x 400	1590 x 500	1590 x 500	1590 x 500	1750 x 500	1750 x 500	1750 x 500

*SDAU = slide stroke down, adjustment up | ST = standard | HS = high-speed | Subject to technical modifications. Based on customer requirements these specifications may change

DA/DAH Series





OVERVIEW

Type: crank presses Press Capacity: 300-1,200 tons Part Size: medium to large Slide Kinematics: crank motion Application: blanking, stamping & drawing

DESCRIPTION

The DA Series is ideal for the blanking, stamping, and drawing of medium - to large-sized parts. With a single reduction gear and smaller stroke length, the DAH Series has the advantage of achieving higher SPM when compared against the DA Series. Both the DA and DAH Series are available as a single press in progressive or transfer mode or as a fully automated press line.

FEATURES & BENEFITS

- Medium-sized press series with a powerful force and high accuracy suitable for a wide range of applications from thin plate drawing to thick plate blanking.
- Optimal quality of high-strength materials due to the Series' rigid FEM analysis.
- Due to the installation of suspension points (2-points) and long 6-faced guide, the Series is resistant to eccentric loads.
- Increase in productivity and efficiency is possible due to the automatic centralized lubrication system.
- Detachable frame fastened by tie rod design (application of hydraulic tie rod nut).
- Low decibel range when operating the deceleration gear with high precision in an oil tank room.

DA Series

/lodel		DA-300	DA-400	DA-500	DA-600	DA-800	DA-1000	DA-1200
Press Capacity	ton	300	400	500	600	800	1000	1200
Rated Tonnage Point	mm	10	10	10	10	10	10	10
Stroke Rate	spm	12-24	12-24	12-24	12-24	12-24	12-24	12-24
Stroke Length	mm	300	400	450	450	450	450	450
Slide Adjustment	mm	200	200	250	250	250	250	250
Die Height	mm	650	750	800	850	850	850	850
Slide Dimension	mm	2500 x 1600	2500 x 1600	2500 x 1600	3000 x 1700	3000 x 1700	3500 x 1700	3500 x 1700
Bolster Dimension	mm	2500 x 1600	2500 x 1600	2500 x 1600	3000 x 1700	3000 x 1700	3500 x 1700	3500 x 1700

DAH Series

Model		DAH-300	DAH-400	DAH-500	DAH-600	DAH-800	DAH-1000
Press Capacity	ton	300	400	500	600	800	1000
Rated Tonnage Point	mm	7	7	7	7	7	7
Stroke Rate	spm	30-60	30-60	30-60	30-60	30-60	25-50
Stroke Length	mm	200	200	200	250	250	250
Slide Adjustment	mm	200	200	200	250	250	250
Die Height	mm	600	650	750	800	800	800
Slide Dimension	mm	2500 x 1600	2500 x 1600	2500 x 1600	3000 x 1700	3000 x 1700	3500 x 1700
Bolster Dimension	mm	2500 x 1600	2500 x 1600	2500 x 1600	3000 x 1700	3000 x 1700	3500 x 1700

Based on customer requirements these specifications may change.



DTE/DTL Series



DE/DTE Series





OVERVIEW

Type: forming, link presses Press Capacity: 600-3,375 tons Part Size: medium to large Slide Kinematics: link Application: stamping, drawing & forming

DESCRIPTION

The modified slide kinematics of the DL and DTL Series is ideal for parts requiring a higher drawing depth. The Series can be installed as a single press in progressive or transfer mode or as a fully automated press line.

FEATURES & BENEFITS

- Proven and continuously optimized technology for reliable production processes.
- The link drive of the DL and DTL Series reduces the slide velocity during the forming phase, providing the perfect solution for parts with higher drawing depths.
- The solid, low-stress annealed press bodies are FEM-calculated and optimized by "hot-spot analysis" areas subject to higher loads.
- Presses in tie rod design are connected to a rigid frame via hydraulically pre-stressed tie rods.
- The outside located pressure points, as well as an 8-fold slide guiding system, absorb off-center loads, spare press, and dies to ensure consistent part quality.
- The automatic centralized lubrication system increases productivity and availability.
- Availability of an extensive range of optional equipment (i.e., die cushions, pneumatic ejectors, or moving bolsters for a faster die change).

DE2P Series

lodel		DE2P-400	DE2P-600	DE2P-800	DE2P-1000	DE2P-1200	DE2P-1400
Press Capacity	ton	400	600	800	1000	1200	1400
Rated Tonnage Point	mm	13	13	13	13	13	13
Stroke Rate	spm	70	50	40	35	30	27
Stroke Length	mm	700	700	700	700	700	700
Slide Adjustment	mm	600	600	600	600	600	600
Die Height	mm	1200	1200	1200	1200	1200	1200
Slide Dimension	mm	2800 x 1600	2800 x 1600	3000 x 1800	3000 x 1800	3000 x 1800	3000 x 1800
Bolster Dimension	mm	2800 x 1600	2800 x 1600	3000 x 1800	3000 x 1800	3000 x 1800	3000 x 1800

DE4P Series

Model		DE4P-400	DE4P-600	DE4P-800	DE4P-1000	DE4P-1200	DE4P-1500	DE4P-2000	DE4P-2500
Press Capacity	ton	400	600	800	1000	1200	1500	2000	2500
Rated Tonnage Point	mm	13	13	13	13	13	13	13	13
Stroke Rate	spm	70	50	40	35	30	27	27	27
Stroke Length	mm	700	800	800	800	800	800	800	800
Slide Adjustment	mm	600	600	600	600	600	600	600	600
Die Height	mm	1300	1300	1300	1300	1300	1300	1300	1300
Slide Dimension	mm	3200 x 2000	3200 x 2100	3200 x 2100	3400 x 2300	3400 x 2300	4500 x 2500	4500 x 2500	4500 x 2800
Bolster Dimension	mm	3200 x 2000	3200 x 2100	3200 x 2100	3400 x 2300	3400 x 2300	4500 x 2500	4500 x 2500	4500 x 2800

DTE Series

Model		DTE2-500	DTE2-1000	DTE2-1500	DTE4-1500	DTE4-2000	DTE4-2500	DTE4-2600
Press Capacity	ton	500	1000	1500	1500	2000	2500	2600
Rated Tonnage Point	mm	13	13	13	13	13	13	13
Stroke Rate	spm	50	35	27	27	27	27	27
Stroke Length	mm	450	600	600	700	700	800	800
Slide Adjustment	mm	300	600	600	600	600	600	600
Die Height	mm	1200	1200	1200	1200	1200	1200	1200
Slide Dimension	mm	3000 x 1200	4000 x 1700	4500 x 1700	5500 x 2500	6300 x 2400	6300 x 2400	6300 x 2400
Bolster Dimension	mm	3000 x 1200	4000 x 1700	4500 x 1700	5500 x 2500	6300 x 2400	6300 x 2400	6300 x 2400

Based on customer requirements these specifications may change.



DL/DTL Series









OVERVIEW

Type: forming, link presses Press Capacity: 600-3,375 tons Part Size: medium to large Slide Kinematics: link Application: stamping, drawing & forming

DESCRIPTION

The modified slide kinematics of the DL and DTL Series is ideal for parts requiring a higher drawing depth. The Series can be installed as a single press in progressive or transfer mode or as a fully automated press line.

FEATURES & BENEFITS

- Proven and continuously optimized technology for reliable production processes.
- The link drive of the DL and DTL Series reduces the slide velocity during the forming phase, providing the perfect solution for parts with higher drawing depths.
- The solid, low-stress annealed press bodies are FEM-calculated and optimized by "hot-spot analysis" areas subject to higher loads.
- Presses in tie rod design are connected to a rigid frame via hydraulically pre-stressed tie rods.
- The outside located pressure points, as well as an 8-fold slide guiding system, absorb off-center loads, spare press, and dies to ensure consistent part quality.
- The automatic centralized lubrication system increases productivity and availability.
- Availability of an extensive range of optional equipment (i.e., die cushions, pneumatic ejectors, or moving bolsters for a faster die change).

DL2P Series

Model		DL2P-600	DL2P-800	DL2P-1000	DL2P-1200	DL2P-1400
Press Capacity	ton	600	800	1000	1200	1400
Rated Tonnage Point	mm	13	13	13	13	13
Stroke Rate	spm	50	40	35	30	27
Stroke Length	mm	700	700	700	700	700
Slide Adjustment	mm	600	600	600	600	600
Die Height	mm	1200	1200	1200	1200	1200
Slide Dimension	mm	2800 x 1600	3000 x 1800	3000 x 1800	3000 x 1800	3000 x 1800
Bolster Dimension	mm	2800 x 1600	3000 x 1800	3000 x 1800	3000 x 1800	3000 x 1800

DL4P Series

Model		DL4P-600	DL4P-800	DL4P-1000	DL4P-1200	DL4P-1500	DL4P-2000	DL4P-2500
Press Capacity	ton	600	800	1000	1200	1500	2000	2500
Rated Tonnage Point	mm	13	13	13	13	13	13	13
Stroke Rate	spm	50	40	35	30	27	27	27
Stroke Length	mm	800	800	800	800	800	800	800
Slide Adjustment	mm	600	600	600	600	600	600	600
Die Height	mm	1300	1300	1300	1300	1300	1300	1400
Slide Dimension	mm	3200 x 2100	3200 x 2100	3400 x 2300	3400 x 2300	4500 x 2500	4500 x 2500	4500 x 2800
Bolster Dimension	mm	3200 x 2100	3200 x 2100	3400 x 2300	3400 x 2300	4500 x 2500	4500 x 2500	4500 x 2800

DTL Series

Model		DTL2-1000	DTL2-1200	DTL2-1500	DTL2-2000	DTL4-1500	DTL4-2000	DTL4-2500	DTL4-2600
Press Capacity	ton	1000	1200	1500	2000	1500	2000	2500	2600
Rated Tonnage Point	mm	13	13	13	13	13	13	13	13
Stroke Rate	spm	35	30	27	27	27	27	27	27
Stroke Length	mm	600	600	600	650	700	700	800	800
Slide Adjustment	mm	600	600	600	600	600	600	600	600
Die Height	mm	1200	1200	1200	1200	1200	1200	1200	1200
Slide Dimension	mm	4000 x 1700	4000 x 1700	4500 x 1700	4500 x 2400	5500 x 2500	6300 x 2400	6300 x2400	6300 x 2400
Bolster Dimension	mm	4000 x 1700	4000 x 1700	4500 x 1700	4500 x 2400	5500 x 2500	6300 x 2400	6300 x 2400	6300 x 2400

Based on customer requirements these specifications may change.



Servo Presses



Servo Presses

OVERVIEW

Type: servo presses Press Capacity: 150-3,375 tons Part Size: medium to large Slide Kinematics: servo motion Application: cutting, stamping, bending, embossing, drawing & integration of downstream processes

DESCRIPTION

These servo direct drive presses are optimized for highly dynamic forming processes and offer maximum flexibility in production. High-quality parts can be consistently achieved due to the high stiffness value of the press body and drive.







FEATURES & BENEFITS

- SIMPAC's product portfolio of servo presses can be installed as single presses in progressive or transfer mode, double press systems for more flexibility, or fully automated press lines.
- For servo presses with a press capacity below 600 tons, the compact design will require little floor space and no foundation.
- Motors, power electronics, holding brake, lubrication, and controls are of Korean origin and guarantee a long service life, maximum dynamics, and a supply of spare parts.
- The slide guiding system ensures a high level of tilting rigidity and reduces the cutting impact when processing high-strength materials.

• Hydraulic overload protection to protect both press and dies.

STANDARD EQUIPMENT

- · Electrical slide adjustment
- Hydraulic, continuous slide locking
- Automatic slide counterbalancing
- Vibration isolated installation
- Central circulation lubrication
- Press force monitoring (single and sum force)
- Curve generator for individual slide movement profiles

OPTIONS

- Simulation software for output forecasting
- · Mechanical or pneumatic part ejector
- Pneumatic or hydraulic die cushion
- Various concepts for executing power electronics (i.e., capacitor bank and kinetic energy buffer)
- Press force monitoring (signature force)

SVC1 Series

Model		SVC1-150	SVC1-200	SVC1-250	SVC1-300
Press Capacity	ton	150	200	250	300
Rated Tonnage Point	mm	6	6	6	6
Stroke Rate	spm	3-110	3-100	3-90	3-90
Stroke Length	mm	200	250	250	300
Slide Adjustment	mm	100	120	120	120
Die Height	mm	430	480	500	550
Slide Dimension	mm	700 x 550	1250 x 650	1350 x 750	1600 x 900
Bolster Dimension	mm	1250 x 750	1400 x 850	1500 x 950	1800 x 1000

Servo

Model		Servo 400T	Servo 600T	Servo 800T
Press Capacity	ton	400	600	800
Rated Tonnage Point	mm	6	6	6
Stroke Rate	spm	3-80	3-70	3-60
Stroke Length	mm	300	350	350
Slide Adjustment	mm	200	250	250
Die Height	mm	600	800	800
Slide Dimension	mm	3000 x 1400	4000 x 1500	4000 x 1500
Bolster Dimension	mm	3000 x 1400	4000 x 1500	4000 x 1500
Frame Deflection	mm/m	1/8000	1/8000	1/8000
Anti-vibration Device		Spring & Damper	Spring & Damper	Spring & Damper
Pit		Necessary	Necessary	Necessary

SVT2 Series

Model		SVT2-1000	SVT2-1200	SVT2-1500
Press Capacity	ton	1000	1200	1500
Rated Tonnage Point	mm	6	6	6
Stroke Rate	spm	3-50	3-40	3-38
Stroke Length	mm	600	600	600
Slide Adjustment	mm	600	600	600
Die Height	mm	1200	1200	1200
Slide Dimension	mm	5100 x 1800	5100 x 1800	6100 x 1800
Bolster Dimension	mm	5100 x 1800	5100 x 1800	6100 x 1800
Frame Deflection	mm/m	1/8000	1/8000	1/8000

SVT4 Series

Model		SVT4-1500	SVT4-2000	SVT4-2500	SVT4-3000
Press Capacity	ton	1500	2000	2500	3000
Rated Tonnage Point	mm	6	6	6	6
Stroke Rate	spm	3-38	3-38	3-34	3-34
Stroke Length	mm	700	700	700	700
Slide Adjustment	mm	600	600	600	600
Die Height	mm	1400	1400	1400	1400
Slide Dimension	mm	6100 x 2500	6100 x 2500	6100 x 2800	7200 x 2800
Bolster Dimension	mm	6100 x 2500	6100 x 2500	6100 x 2500	7200 x 2500
Frame Deflection	mm/m	1/8000	1/8000	1/8000	1/8000

Based on customer requirements these specifications may change.

p.23

Hydraulic Presses



OVERVIEW

Type: hydraulic presses Press Capacity: 150-2,500 tons Part Size: small to large Application: for the production of drawn parts or as a part of a hot stamping line

DESCRIPTION

Hydraulic presses are the ideal solution for the precise forming of various parts, for which the maximum press capacity is available in every position of the slide. These presses are also suitable for hot stamping applications due to the flexibility of the slide speed and dwell time.

FEATURES & BENEFITS

- Standardized presses for various forming and drawing operations.
- Operation as a single press or hot stamping line.
- Rigid press frame structure in tie rod design.
- The precise 8-fold slide guiding system provides a high degree of guidance during the forming cycle to minimize off-center loads.
- Hydraulic system specifically designed without shift shock during operation.
- Slide movement either pressure- and/or travel-dependent.
- · Motorized oil circulation with cooling or heating unit.
- The models for hot stamping are available in 800, 1,200, or 1,600 tons and come with a newly developed combination of servomotor and hydraulics that allows higher speeds in the closing and returning movements of the slide.

OPTIONS

- Hydraulic die cushion in the press slide
- Additional moving bolster in front-to-back or t-track arrangement
- Continuous slide locking
- Hydraulic die clamps with automatic clamping process

PH/PDH Series

lodel		PH/PDH-150	PH/PDH-300	PH/PDH-600	PH/PDH-800	PH/PDH-1000	PH/PDH-1200	PH/PDH-1500	PH/PDH-2000	PH/PDH-2500
Press Capacity	ton	150	300	600	800	1000	1200	1500	2000	2500
Stroke Length	mm	600	1000	1000	1500	1500	1500	1500	2000	2000
Daylight	mm	900	1400	1500	1500	1500	1500	1500	2000	2000
Slide Dimension	mm	1100 x 900	2200 x 1500	3000 x 2000	3000 x 2000	3500 x 2000	3500 x 2000	4000 x 2500	4500 x 2500	4500 x 2500
Bolster Dimension	mm	1100 x 900	2200 x 1500	3000 x 2000	3000 x 2000	3500 x 2000	3500 x 2000	4000 x 2500	4500 x 2500	4500 x 2500
Die Cushion Capacity	ton	30	60	150	250	250	350	350	500	500
Die Cushion Stroke	mm	250	300	350	350	350	350	400	450	450

Hot Stamping

Model		PH/PDH-800 Hot Stamping	PH/PDH-1200 Hot Stamping	PH/PDH-1600 Hot Stamping
Press Capacity	ton	800	1200	1600
Forming Speed	mm/s	50-150	50-150	50-150
Slide Speed (Closing & Returning)	mm/s	700	700	700
Stroke Length	mm	1200	1200	1200
Daylight	mm	2200	2200	2200
Slide Dimension	mm	3000 x 2200	3300 x 2600	4000 x 3000
Bolster Dimension	mm	3000 x 2200	3300 x 2600	4000 x 3000

Based on customer requirements these specifications may change.



Automation

TURNKEY SOLUTIONS

SIMPAC has been building presses for the metal forming industry since 1973. Our extensive production capabilities, massive inventory of plate, and casting, gear, and fabrication shops ensure competitive time and cost-efficient production of high-quality, sophisticated press systems. In collaboration with our partners for automation equipment, SIMPAC also supplies turnkey forming systems. Due to our select range of preferred suppliers, we are able to achieve customized automation solutions per specific customer requirements. For more information about our automation solutions, please contact: support@simpac-america.com.

COIL FEED LINES

Coil feed lines are used for automated material feeding of sheet metal strips (coils) and usually consist of a decoiler, leveler, loop pit, and roll feed. SIMPAC's modular concepts enable flexible configuration for different requirements such as material processing, dynamics, and space specifications.

BLANKING LINES

SIMPAC offers various stacking systems for magnetic, non-magnetic, and aluminum blanks – designed to meet the latest industry demands. Through strategic partnerships and collaborations, SIMPAC is able to provide excellent leveling accuracy, per material rigidity, and tuning control systems that are associated with SIMPAC's presses.

ROBOT LINES

SIMPAC's robotic automation features easy-to-install systems that provide centralized control and quick changeovers for higher throughput, better quality, and safer operations. Robotic solutions are optimized for small, medium, and large press lines.

TRANSFER SYSTEMS

Transfer systems move blanks and parts within single presses or between linked presses. The systems are flexible and modular. SIMPAC's transfer systems allow operators to run parts as wide as the press window due to the PLC-based interface. The various sizes cover a wide range of applications – from small stamped parts to large body parts. Modules move offline quickly and easily, providing optimal access for die maintenance and change over.

DESTACKERS

Destackers are used in production with transfer presses and perform the destacking and feeding of magnetic - nonmagnetic blanks or pre-formed parts. The systems offer high flexibility in terms of materials, dimensions, and geometrical shapes.











More Than Presses



3 WAYS EXTENDED REALITY (XR) WILL DRASTICALLY RECONSTRUCT METAL FORMING PRACTICES

MetalForming Magazine, SIMPAC America, North American subsidiary of South Korea's leading press manufacturer, SIMPAC, Inc., and Elm Park Labs, a Michigan-based, women-owned computer software company, host an extensive thought leadership case study for the industry and explain how extended reality will help mitigate losses from COVID-19 and increase profitability. The webinar, "3 Ways Extended Reality (XR) Will Drastically Reconstruct Metal Forming Practices, "addresses the following questions:

- 1. What is XR, and why should metal formers care about this emerging trend?
- 2. How will the low latency experience work in a production environment?
- 3. What impact will XR create for key players within the metal forming industry?



SIMPAC'S EV WEBINAR SERIES

STAMPING EV BATTERY PARTS FOR THE AUTOMOTIVE INDUSTRY SIMPAC America, North American subsidiary of South Korea's SIMPAC Inc., and MetalForming Magazine host a live webinar, "Stamping EV Battery Parts for the Automotive Industry."

Six Ways EVs will Create Global Change for Capital Equipment Suppliers & Metal Formers SIMPAC America, North American subsidiary of South Korea's SIMPAC Inc., and MetalForming Magazine host Part II of the press manufacturer's EV Webinar Series, "Six Ways EVs Will Create Global Change for Capital Equipment Suppliers & Metal

THE FOUR KEYS TO SUCCESS AS A TIER 1 AUTOMOTIVE SUPPLIER

Martinrea International, SIMPAC America, and MetalForming Magazine team up for an exclusive video production to showcase what truly defines a capable Tier 1 supplier and how a collaboration with a press manufacturer, like SIMPAC, can help make significant strides towards a Tier 1 supplier's success. Throughout this 5-minute video, MetalForming Magazine's Editorial Director, Brad Kuvin, interviews Martinrea International's GM, Esau Gardner, to cover the following key topics: culture, flexibility, training, and equipment.

SIMPAC America Co., Ltd

850 Stephenson Hwy, Suite 305 Troy, MI 48083 USA

Tel. 248-607-3998 **Fax.** 248-965-3182

For Sales: support@simpac-america.com For Support: support@simpac-america.com

