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PRESS SYSTEMS FOR **METAL FORMING** WITH **AUTOMATIONS**

SIMPAC shall change the world with advanced technology and be recognized by our customers around the globe.

SIMPAC

TECHNOLOGY
INNOVATION

The company leading the era of
the infinite competition through the
technology innovation

COMPANY

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SIMPAC

Welcome at **SIMPAC**

The world of metalworking under one roof. The South Korean Simpac group of companies unites under the umbrella of Simpac Holding's the companies Simpac Inc. with its divisions Presses and Metal as well as Simpac Industries, whose products range from foundry products and component manufacturing to machinery for various industrial applications.

Nearly half century of experience. Founded in 1973, the press manufacturer Simpac now holds almost 50% of the market share in its home market of South Korea. The wide product range includes mechanical and hydraulic presses, servo presses and tandem lines, and is used by manufacturers of household appliances and electronic components in addition to the automotive industry and it's Tier supply base.

Overseas sales team serves customers worldwide. Since 2004 over 10 Sales and Service branches have been established in Asia, Europe, the USA and Mexico, pursuing a consistent internationalization strategy.

Efficient production for the Global markets. The metal forming press systems, which are manufactured exclusively in the Group's South Korean plants, benefit not only from the value added manufacturing concept within the Simpac Group of companies but also from continuous improvement methods derived from insights gained in global markets. Extensive production capacities enable time and cost efficient production.

Range of Services

- Detailed analysis of requirements and needs
- Overall conception of press systems incl. automation
- 3D CAD design with FEM analysis for highly stressed parts
- Production and inhouse trial run
- Installation and commissioning
- Services

Engineering and Production

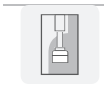
R&D center

For the technical design and planning of customer orders as well as for the optimization and further development of the product range, R&D center is in operation at Simpac. Equipped with modern CAD workplaces, the forming experts create, among other things, professional stress, deformation and lifetime calculations as well as simulations.

Production with high quality standards

The extensive production capacities within the group allow an immediate and comprehensive quality control. Also when purchasing components, we attach importance to longevity, service friendliness and a good partnership with our suppliers. All presses are commissioned at the factory to ensure a quick production start for our customers.

Product Finder

Model	Series	Tonnage in Ton	Drive		Number of connecting rods			Type		Slide kinematics		
			Mechanic	Hydraulic	1	2	4	Monoblock	Tie rod	Sinusoidal	Link	Servo
	CX	80-300	●		●			●		●		
	NCD	110-300	●		●			●		●		
	MC/MCP	110-800	●			●		●	●	●		
	MCL	80-800	●			●		●	●		●	
	DA/SL2	300-1200	●			●	●		●	●		
	DE(L) /DTE(L)	300-2600	●			●	●		●	●	●	
	SVC/SVM/ SVP	150-800	●			●		●	●			●
	SVE/SVT	600-3000	●			●	●		●			●
	PH/PDH	150-2500		●				●	●			
	DSP/PTS2	30-2000		●				●	●			

CX and **NCD** Series

C-frame presses are flexible solutions for the production of small parts. The C-shape provides good accessibility to the die space and is thus suitable for manual work as well as for automated, linked production processes.

Type	Press Capacity	Slide Kinematics
C-frame presses	80 - 300 ton	Crank motion
Part Size	**Application**	
Small	Cutting, Stamping, Bending, Embossing, Forming	

Feature and Benefits

- The CX is the all-rounder among the C-frame presses, while it is ideal for punching and cutting operations with a higher degree of automation.
- The compact design requires little installation space, no foundation work and ensures good accessibility for maintenance.
- When installed as a press line, the flexible combination of different tonnages enables the optimum adaptation to the specific requirements of the produced part.
- Solid, low-stress annealed press body in monobloc design with minimal frame deflection.
- Operation as single press or press line with transfer, shuttle or robotic automation.
- The durable hydraulic clutch is wear-resistant and operates very quiet.
- A casting slide absorbs process-related vibrations and thus protects press and dies.
- The 4-fold slide guiding ensures a high tilting rigidity.
- Hydraulic overload protection to protect press and dies.
- Fast availability.

Technical Specifications

Model	Unit	CX-80 ST/LS	CX-110 ST/LS	CX-150 ST/LS	CX-200 ST/LS	CX-250 ST/LS	CX-300 ST/LS
Press Capacity	ton	80	110	150	200	250	300
Rated Tonnage Point	mm	6.0	6.0	6.0	6.0	6.0	7.0
Stroke Rate	spm	70 - 110 50 - 80	65 - 100 45 - 70	60 - 90 40 - 60	45 - 70 35 - 50	45 - 70 35 - 50	25 - 40 20 - 35
Stroke Length	mm	100 / 160	110 / 180	130 / 250	160 / 300	200 / 300	250 / 350
Slide Adjustment	mm	120	120	150	150	150	180
Die Height	mm	350 / 400	400 / 450	450 / 500	500 / 550	550 / 600	600 / 600
Slide Dimension	mm	850x500	1000x600	1200x700	1300x800	1450x850	1700x900
Bolster Dimension	mm	1000x600	1150x700	1400x800	1500x900	1700x1000	1900x1000
Working Height	mm	900	900	900	900	950	1100
Overall Height	mm	3200	3500	3900	4200	4600	5300
Die Cushion Capacity	ton	7	11	15	15	15	15
Die Cushion Stroke	mm	80	100	110	130	130	130
Die Cushion Pad area	mm	500x300	560x400	680x720	760x460	760x460	860x460

Model	Unit	NCD-110 ST / HS	NCD-160 ST / HS	NCD-200 ST / HS	NCD-250 ST / HS	NCD - 300
Press Capacity	ton	110	160	200	250	300
Rated Tonnage Point	mm	5.0 / 2.5	6.0 / 3.0	6.0 / 3.5	6.0 / 3.5	6.0
Stroke Rate	spm	35 - 65 50 - 100	30 - 55 40 - 85	25 - 45 35 - 70	20 - 35 30 - 55	20-35
Stroke Length	mm	180 / 110	200 / 130	250 / 150	280 / 170	300
Slide Adjustment	mm	90	100	110	120	150
Die Height	mm	400 / 350	450 / 400	500 / 500	550 / 450	550
Slide Dimension	mm	1350x550	1500x600	1850x650	2100x700	2350x900
Bolster Dimension	mm	1900x700	2150x750	2500x850	2750x950	3000x1100
Working Height	mm	900	900	1000	1100	1100
Overall height	mm	3300	3400	3900	4400	4800

* SDAU = Slide stroke down, adjustment up | ST = Standard, HS = High-Speed, LS = Long Stroke | Subject to technical modifications

MC/MCP and **MCL** Series

Compact presses for a wide range of small to medium sized parts. Due to its drive-related slide kinematics, the MCL series is particularly suitable for drawn parts.
The reduced forming speed increases the part quality and saves press and dies.

Type	Press Capacity	Slide Kinematics
Semi-H Frame presses	80 - 800 ton	Crank motion (MC, MCP) or Link motion (MCL)
Part Size	**Application**	
Small to Medium	Blanking, Stamping, Bending, Embossing, Drawing	

Feature and Benefits

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

Technical Specifications

Model	Unit	MC1-110	MC1-150	MC1-200	MC1-250	MC1-300	MC1-400	MC1-500
Press Capacity	ton	110	150	200	250	300	400	500
Rated Tonnage Point	mm	6.0	6.0	6.0	6.0	7.0	7.0	7.0
Stroke Rate	spm	50 - 100	45 - 90	35 - 70	35 - 60	20 - 40	20 - 35	20 - 35
Stroke Length	mm	110	130	160	200	250	280	350
Slide Adjustment	mm	100	100	120	120	120	120	120
Die Height	mm	350	400	450	500	500	550	600
Slide Dimension	mm	900x550	1000x650	1150x750	1250x750	1500x900	1650x1000	1800x1100
Bolster Dimension	mm	1000x700	1150x750	1300x850	1400x950	1600x1000	1800x1100	1950X1200
Working Height	mm	900	900	1000	1000	1100	1100	1300
Overall Height	mm	3100	3300	3705	4020	4575	4730	5650
Die Cushion Capacity	ton	10	14	14	14	14	14	15
Die Cushion Stroke	mm	80	100	100	100	130	130	130
Die Cushion Pad Area	mm	540x340	640x420	640x420	640x420	860x460	860x460	860x460

Model	Unit	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	7.0	7.0	6.0	6.0	7.0	7.0	7.0	7.0
Stroke Rate	spm	25 - 45	20 - 40	20 - 40	20 - 40	20 - 35	20 - 30	20 - 30	20 - 30
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	1850x650	2400x1000	2600x1000	2600x1200	2700x1300	3000x1300	3000x1400	3200x1400
Bolster Dimension	mm	2150x850	2500x1100	2700x1100	2700x1200	2800x1400	3000x1400	3000x1500	3200x1500
Working Height	mm	1000	1100	1100	1100	1200	1300	1400	1400
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	1000x400	1590x500	1590x500	1590x500	1750x500	1750x500	1750x500	1750x500

* SDAU = Slide stroke down, adjustment up | ST = Standard, HS = High-Speed, LS = Long Stroke | Subject to technical modifications.

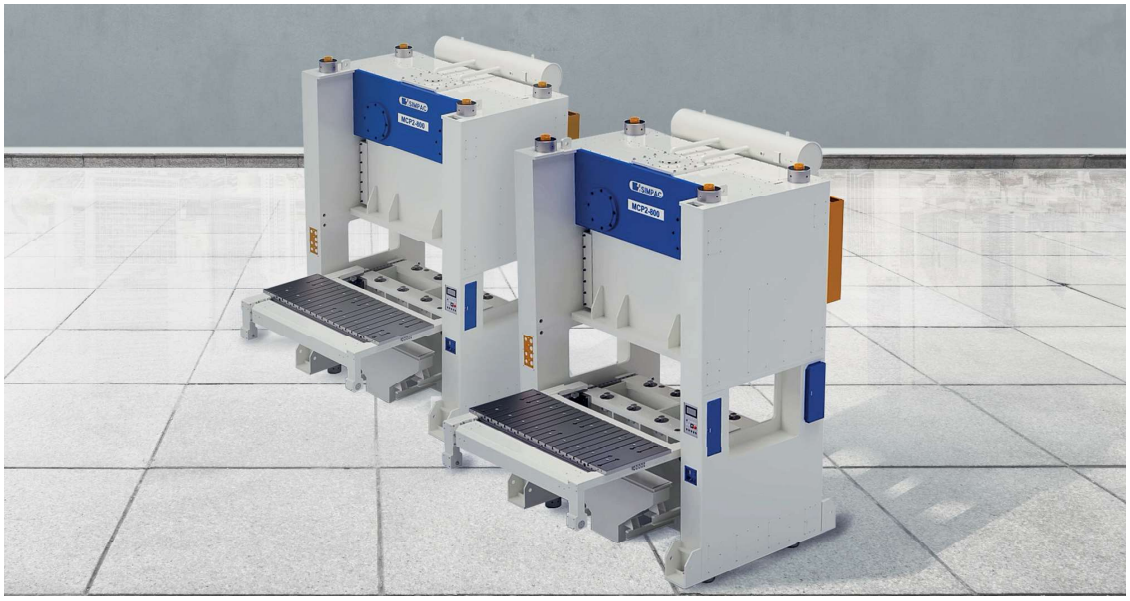
** The above specifications are based on the maximum specifications.

Technical Specifications

Model	Unit	MCP2-400	MCP2-600	MCP2-800
Press Capacity	ton	400	600	800
Rated Tonnage Point	mm	6.0	6.0	6.0
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	3000x1400	4000x1500	4000x1500
Bolster Dimension	mm	3000x1400	4000x1500	4000x1500
Main Motor (AC)	kw	75	90	90
Counter Balancing Capacity	ton (MPa)	5.0 (0.69)	7.0 (0.69)	7.0 (0.69)
Frame Combine	-	Monobloc	Tie rod	
Frame Deflection	mm/m	1/8000	1/8000	1/8000
Anti Vibration Device	-	Spring & Damper		
Working Height	mm	850	850	850
Pit	-	Necessary		

* SDAU = Slide stroke down, adjustment up | ST = Standard, HS = High-Speed, LS = Long Stroke | Subject to technical modifications.

** The above specifications are based on the maximum specifications.



Model	Unit	MCL1-80	MCL1-100	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	4.0	6.0	6.0	6.0	6.0	7.0	8.0	8.0
Stroke Rate	spm	55 - 110	50 - 100	40 - 85	35 - 70	35 - 60	20 - 40	20 - 35	20 - 30
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	750x500	900x550	1000x650	1150x750	1250x750	1500x900	1650x1000	1950x1200
Bolster Dimension	mm	900x600	1000x700	1150x750	1300x850	1400x950	1600x1000	1800x1100	2100x1300
Working Height	mm	900	900	900	1000	1000	1100	1100	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	480x300	540x340	640x420	640x420	640x420	640x420	860x460	860x460

Model	Unit	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 7.0	3.5 7.0	6.0	7.0	7.0	7.0	7.0
Stroke Rate	spm	35 - 70 25 - 45	30 - 55 20 - 40	20 - 40	20 - 35	20 - 30	20 - 30	20 - 30
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	1850x650	2400x1000	2600x1000	2700x1300	2900x1300	3000x1400	3200x1400
Bolster Dimension	mm	2150x850	2500x1100	2700x1100	2800x1400	3000x1400	3000x1500	3000x1500
Working Height	mm	1000	1100	1100	1200	1300	1400	1400
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	1000x400	1590x500	1590x500	1590x500	1750x500	1750x500	1750x500

* SDAU = Slide stroke down, adjustment up | ST = Standard, HS = High-Speed, LS = Long Stroke | Subject to technical modifications.

** The above specifications are based on the maximum specifications.

DA/DAH and **SL2** Series

Stamping presses of the DA series are suitable for a wide range of medium sized parts and for blanking as well as drawing With single reduction gear and smaller stroke length, DAH-type presses have the advantage of higher SPM compared to DA-type press.

SL2 press guarantees the high productivity and good quality as it is a link motion press which ensures a low down-coming speed and high return speed.

Type	Press Capacity	Slide Kinematics
Crank presses	300 -1,200 ton	Crank motion (DA, DAH) or Link motion (SL)
Part Size	**Application**	
Medium to Large	As a single press in progressive operation or as part of a press line and as a transfer press	

Feature and Benefits

- Mid-Size Press model with Powerful force and high accuracy that is suitable for a wide range of jobs from thin plate drawing to thick plate blanking High part quality due to rigid, FEM-optimized press design.
- Strongly resistant to eccentric loads due to the widely installed SUSPENSION POINT (2-POINTS) and installation of long 6-faced guide The automatic centralized lubrication system increases productivity and availability.
- Detachable FRAME fastened by TIE ROD (Application of Hydraulic TIE ROD NUT).
- Low noise level through operating the deceleration gear with high precision in an oil tank room.

Technical Specifications

Model	Unit	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	10.0	10.0	10.0	10.0	10.0	10.0	10.0
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	2500x1600	2500x1600	2500x1600	3000x1700	3000x1700	3500x1700	3500x1700
Bolster Dimension	mm	2500x1600	2500x1600	2500x1600	3000x1700	3000x1700	3500x1700	3500x1700

Model	Unit	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	7.0	7.0	7.0	7.0	7.0	7.0
Stroke Rate	spm	30 - 60	30 - 60	30 - 60	30 - 60	30 - 60	20 - 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	2500x1600	2500x1600	2500x1600	3000x1700	3000x1700	3500x1700
Bolster Dimension	mm	2500x1600	2500x1600	2500x1600	3000x1700	3000x1700	3500x1700

Model	Unit	SL2-300 ST / HS	SL2-400 ST / HS	SL2-500 ST / HS	SL2-600 ST / HS	SL2-800 ST / HS	SL2-1000 ST / HS
Press Capacity	ton	300	400	500	600	800	1000
Rated Tonnage Point	mm	10 7	10 7	10 7	10 7	10 7	10 7
Stroke Rate	spm	12 - 24 30 - 60	12 - 24 30 - 60	12 - 24 30 - 60	12 - 24 25 - 50	12 - 24 25 - 50	12 - 24 25 - 50
Stroke Length	mm	300 200	400 200	450 200	450 250	450 250	450 250
Slide Adjustment	mm	200	200	250	250	250	250
Die Height	mm	650 600	750 650	800 750	850 800	850 800	850 800
Slide Dimension	mm	2500x1600	2500x1600	2500x1600	3000x1700	3000x1700	3500x1700
Bolster Dimension	mm	2500x1600	2500x1600	2500x1600	3000x1700	3000x1700	3500x1700

* SDAU = Slide stroke down, adjustment up | ST = Standard, HS = High-Speed, LS = Long Stroke | Subject to technical modifications.

DE and **DTE** Series

The eccentric drive of the DE/DTE series is primarily suited for cutting, punching, bending and stamping operations. Its characteristic sinusoidal slide motion curve makes it ideal for flat and semi-flat parts. The proven and continuously optimized technology ensures reliable production processes.

Type	Press Capacity	Slide Kinematics
Eccentric presses	300 - 3,000 ton	Crank motion
Part Size	**Application**	
Medium to Large	As a single press in progressive operation or as part of a press line and as a transfer press	

Feature and Benefits

- Universal eccentric presses for a wide range of medium to large sized, flat and semi-flat parts.
- High part quality due to rigid, FEM-optimized press design.
- The outside located pressure points and a long 8-foldslide guiding system well compensate off-center loads, spare press and die and ensure a constant part quality.
- The automatic centralized lubrication system increases productivity and availability.
- Extensive range of optional equipment, such as die cushions, pneumatic ejectors or moving bolsters for a faster die change.

Technical Specifications

Model	Unit	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	13.0	13.0	13.0	13.0	13.0	13.0
Stroke Rate	spm	12 -24	12 -24	12 -24	12 -24	12 -24	12 -24
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	2800x1600	2800x1600	3000x1800	3000x1800	3000x1800	3000x1800
Bolster Dimension	mm	2800x1600	2800x1600	3000x1800	3000x1800	3000x1800	3000x1800

Model	Unit	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	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Stroke Rate	spm	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	9 -18	9 - 18
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	3200x2000	3200x2100	3200x2100	3400x2300	3400x2300	4500x2500	4500x2500	4500x2500
Bolster Dimension	mm	3200x2000	3200x2100	3200x2100	3400x2300	3400x2300	4500x2500	4500x2500	4500x2500

Model	Unit	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	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Stroke Rate	spm	12 - 25	10 - 20	10 - 20	12 - 25	12 - 25	12 - 25	12 - 25
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	3000x1200	4000x1700	4500x1700	5500x2500	6300x2400	6300x2400	6300x2400
Bolster Dimension	mm	3000x1200	4000x1700	4500x1700	5500x2500	6300x2400	6300x2400	6300x2400

* SDAU = Slide stroke down, adjustment up | ST = Standard, HS = High-Speed, LS = Long Stroke | Subject to technical modifications.

DL and **DTL** Series

The Scotch-Yoke drive of the DL/DTL series has a modified link drive characteristic and reduces the slide speed during the forming phase. Thus the presses are not only suitable for cutting, punching and forming tasks, but also for drawing operations The extra time that the material receives for metal forming significantly increases the quality of the produced parts. The reduced impact speed of the slide extends the life of the press and the die.

Type	Press Capacity	Slide Kinematics
Eccentric presses	300 - 3,000 ton	Sinusoidal
Part Size	**Application**	
Medium to Large	As a single press in progressive operation or as part of a press line and as a transfer press	

Feature and Benefits

- Universal presses for a wide range of medium to large parts with a higher draw depth.
- High part quality due to rigid, FEM-optimized press design and drive-related reduced forming speed.
- The outside located pressure points and a long 8-foldslide guiding system well compensate off-center loads, spare press and die and ensure a constant part quality.
- The automatic centralized lubrication system increases productivity and availability.
- Extensive range of optional equipment, such as die cushions, pneumatic ejectors or moving bolsters for a faster die change.

Technical Specifications

Model	Unit	DL2P-600	DL2P-800	DL2P-1000	DL2P-1200	DL2P-1400
Press Capacity	ton	600	800	1000	1200	1400
Rated Tonnage Point	mm	13.0	13.0	13.0	13.0	13.0
Stroke Rate	spm	12 -24	12 -24	12 -24	12 -24	12 -24
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	2800x1600	3000x1800	3000x1800	3000x1800	3000x1800
Bolster Dimension	mm	2800x1600	3000x1800	3000x1800	3000x1800	3000x1800

Model	Unit	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	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Stroke Rate	spm	10 - 20	10 - 20	10 - 20	10 - 20	10 - 20	9 -18	9 -18
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	3200X2100	3200X2100	3400X2300	3400X2300	4500X2500	4500X2500	4500X2800
Bolster Dimension	mm	3200X2100	3200X2100	3400X2300	3400X2300	4500X2500	4500X2500	4500X2800

Model	Unit	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	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
Stroke Rate	spm	10 - 20	10 - 20	10 - 20	10 - 20	12 - 25	12 - 25	12 - 25	12 - 25
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	4000x1700	4000x1700	4500x1700	4500x2400	5500x2500	6300x2400	6300x2400	6300x2400
Bolster Dimension	mm	4000x1700	4000x1700	4500x1700	4500x2400	5500x2500	6300x2400	6300x2400	6300x2400

* SDAU = Slide stroke down, adjustment up | ST = Standard, HS = High-Speed, LS = Long Stroke | Subject to technical modifications.

SVC(M)/SVP and **SVE(T)** Series

Presses with servo direct drive stand for highly dynamic forming processes and offer maximum flexibility in the production. In combination with a high stiffness value of press body and drive, they deliver consistently high part quality.

Type	Press Capacity	Slide Kinematics
Servo presses	150 - 800 ton (SVC/SVM/SVP) 600 - 3,000 ton (SVE/SVT)	Servo (Freely programmable)
Part Size	**Application**	
Medium to Large	Stamping, Cutting, Bending, Embossing, Drawing, Integration of subsequent processes	

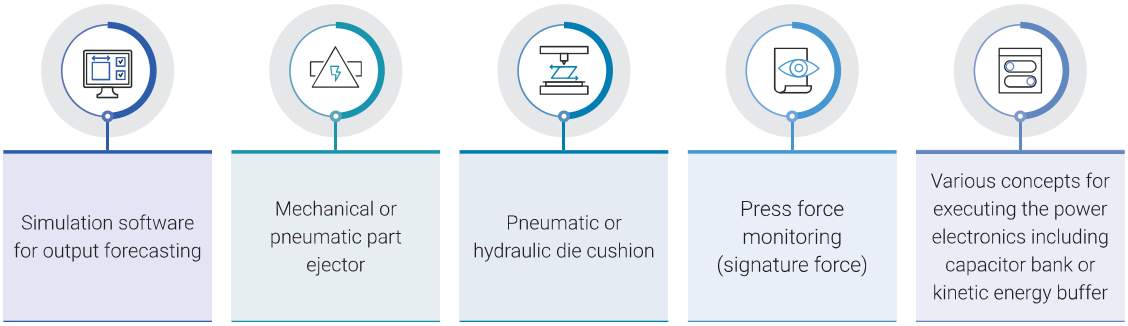
Application and Benefits

- Operation as a single press in progressive or transfer mode, as double press system for more flexibility or as part of a fully automated press line.
- The compact design requires little floor space and no foundation at presses below 600 ton press capacity.
- Motor(s), power electronics, holding brake, lubrication and control are of German origin and guarantee a long service life, maximum dynamics and a good supply of spare parts.
- The slide guiding system ensures a high level of tilting rigidity and reduces the cutting impact during the processing when it comes to processing of high-strength materials.
- Hydraulic overload protection to protect press and die.

Features

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

Options



Simulation software for output forecasting	Mechanical or pneumatic part ejector	Pneumatic or hydraulic die cushion	Press force monitoring (signature force)	Various concepts for executing the power electronics including capacitor bank or kinetic energy buffer

Technical Specifications

Model	Unit	SVC1-150	SVC1-200	SVC1-250	SVC1-300
Press Capacity	ton	150	200	250	300
Rated Tonnage Point	mm	6.0	6.0	6.0	6.0
Stroke Rate	spm	5 - 55	5 - 50	5 - 40	5 - 35
Stroke Length	mm	200	250	250	300
Slide Adjustment	mm	100	120	120	120
Die Height	mm	430	480	500	550
Slide Dimension	mm	700x550	1250x650	1350x750	1600x900
Bolster Dimension	mm	1250x750	1400x850	1500x950	1800x1000
Working Height	mm	900	1000	1000	1100

Model	Unit	SVM2-250	SVM2-300	SVM2-400	SVM2-500	SVM2-600
Press Capacity	ton	250	300	400	500	600
Rated Tonnage Point	mm	6.0	6.0	6.0	6.0	6.0
Stroke Rate	spm	5 - 40	5 - 35	5 - 35	5 - 30	5 - 30
Stroke Length	mm	280	300	300	350	350
Slide Adjustment	mm	120	120	120	120	120
Die Height	mm	550	550	600	650	700
Slide Dimension	mm	2400x1000	2600x1000	2700x1300	3000x1300	3000x1400
Bolster Dimension	mm	2500x1100	2700x1100	2800x1400	3000x1400	3000x1500
Working Height	mm	1100	1100	1200	1300	1400

* SDAU = Slide stroke down, adjustment up | ST = Standard, HS = High-Speed, LS = Long Stroke | Subject to technical modifications.

** The above specifications are based on the maximum specifications.

Technical Specifications

Model	Unit	SVC1-150	SVC1-200	SVC1-250	SVC1-300
Press Capacity	ton	150	200	250	300
Rated Tonnage Point	mm	6.0	6.0	6.0	6.0
Stroke Rate	spm	5 - 55	5 - 50	5 - 40	5 - 35
Stroke Length	mm	200	250	250	300
Slide Adjustment	mm	100	120	120	120
Die Height	mm	430	480	500	550
Slide Dimension	mm	700x550	1250x650	1350x750	1600x900
Bolster Dimension	mm	1250x750	1400x850	1500x950	1800x1000
Working Height	mm	900	1000	1000	1100

Model	Unit	SVM2-250	SVM2-300	SVM2-400	SVM2-500	SVM2-600
Press Capacity	ton	250	300	400	500	600
Rated Tonnage Point	mm	6.0	6.0	6.0	6.0	6.0
Stroke Rate	spm	5 - 40	5 - 35	5 - 35	5 - 30	5 - 30
Stroke Length	mm	280	300	300	350	350
Slide Adjustment	mm	120	120	120	120	120
Die Height	mm	550	550	600	650	700
Slide Dimension	mm	2400x1000	2600x1000	2700x1300	3000x1300	3000x1400
Bolster Dimension	mm	2500x1100	2700x1100	2800x1400	3000x1400	3000x1500
Working Height	mm	1100	1100	1200	1300	1400

* SDAU = Slide stroke down, adjustment up | ST = Standard, HS = High-Speed, LS = Long Stroke | Subject to technical modifications.

** The above specifications are based on the maximum specifications.

Model	Unit	SVP2-400	SVP2-600	SVP2-800
Press Capacity	ton	400	600	800
Rated Tonnage Point	mm	6.0	6.0	6.0
Stroke Rate	spm	5 - 60	5 - 60	5 - 40
Stroke Length	mm	300	350	350
Slide Adjustment	mm	200	250	250
Die Height	mm	600	800	800
Slide Dimension	mm	3000x1400	4000x1500	4000x1500
Bolster Dimension	mm	3000x1400	4000x1500	4000x1500
Frame Deflection	mm/m	1/8000	1/8000	1/8000
Anti Vibration Device	-	Spring & Damper		
Working Height	mm	850	850	850
Pit	-	Necessary		

* SDAU = Slide stroke down, adjustment up | ST = Standard, HS = High-Speed, LS = Long Stroke | Subject to technical modifications.
** The above specifications are based on the maximum specifications.

Technical Specifications

Model	Unit	SVE2-600	SVE2-800	SVE2-1000
Press Capacity	ton	600	800	1000
Rated Tonnage Point	mm	7.0	7.0	7.0
Stroke Rate	spm	5 - 20	5 - 20	5 - 20
Stroke Length	mm	700	700	700
Slide Adjustment	mm	600	600	600
Die Height	mm	1200	1200	1200
Slide Dimension	mm	2800x1600	3000x1800	3000x1800
Bolster Dimension	mm	2800x1600	3000x1800	3000x1800
Frame Deflection	mm/m	1/8000	1/8000	1/8000
Working Height	mm	700	700	700

Model	Unit	SVE4-600	SVE4-800	SVE4-1000	SVE4-1200	SVE4-1500	SVE4-2000
Press Capacity	ton	600	800	1000	1200	1500	2000
Rated Tonnage Point	mm	7.0	7.0	7.0	7.0	7.0	7.0
Stroke Rate	spm	5 - 20	5 - 20	5 - 20	5 - 20	5 - 20	5 - 20
Stroke Length	mm	800	800	800	800	800	800
Slide Adjustment	mm	600	600	800	800	800	800
Die Height	mm	1300	1300	1300	1300	1400	1400
Slide Dimension	mm	4000x2500	4000x2500	4000x2500	4000x2500	4000x2500	4000x2500
Bolster Dimension	mm	4000x2500	4000x2500	4000x2500	4000x2500	4000x2500	4000x2500
Frame Deflection	mm/m	1/8000	1/8000	1/8000	1/8000	1/8000	1/8000
Working Height	mm	700	700	700	750	750	800

* SDAU = Slide stroke down, adjustment up | ST = Standard, HS = High-Speed, LS = Long Stroke | Subject to technical modifications.

** The above specifications are based on the maximum specifications.

Model	Unit	SVT2-1000	SVT2-1200	SVT2-1500
Press Capacity	ton	1000	1200	1500
Rated Tonnage Point	mm	6.0	6.0	6.0
Stroke Rate	spm	5 - 30	5 - 30	5 - 25
Stroke Length	mm	600	600	600
Slide Adjustment	mm	600	600	600
Die Height	mm	1200	1200	1200
Slide Dimension	mm	5100x1800	5100x1800	6100x1800
Bolster Dimension	mm	5100x1800	5100x1800	6100x1800
Frame Deflection	mm/m	1/8000	1/8000	1/8000
Working Height	mm	700	700	700

Model	Unit	SVT4-1500	SVT4-2000	SVT4-2500	SVT4-3000
Press Capacity	ton	1500	2000	2500	3000
Rated Tonnage Point	mm	6.0	6.0	6.0	6.0
Stroke Rate	spm	5 - 25	5 - 25	5 - 20	5 - 18
Stroke Length	mm	700	700	700	700
Slide Adjustment	mm	800	800	800	800
Die Height	mm	1400	1400	1400	1400
Slide Dimension	mm	6100x2500	6100x2500	6100x2800	7200x2500
Bolster Dimension	mm	6100x2500	6100x2500	6100x2500	7200x2500
Frame Deflection	mm/m	1/8000	1/8000	1/8000	1/8000
Working Height	mm	750	800	800	800

* SDAU = Slide stroke down, adjustment up | ST = Standard, HS = High-Speed, LS = Long Stroke | Subject to technical modifications.

** The above specifications are based on the maximum specifications.

PH and **PDH** Series

Hydraulic presses are suitable for the high-precision forming of various parts, whereby the maximum press capacity is available in every position of the slide. In combination with their flexibility in terms of slide speed and dwell time, they are also particularly suitable for press hot stamping applications.

Type	Press Capacity
Hydraulic presses	150 - 2500 ton
Part Size	**Application**
Small, Medium, Large	As a single press in progressive operation or as part of a press line and as a transfer press

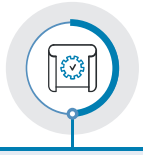
Features and Benefits

- Standardized presses for various forming and drawing OP-Erations.
- Operation as single press or as part of a press hardening line.
- Rigid press frame structure in tie rod design.
- The precise 8-fold slide guiding provides highly secure guidance during the forming process and minimizes off-center loads.
- Specially designed hydraulic system without shift shock during operation.
- Motorized oil circulation with cooling or heating unit.
- Slide movement either pressure and / or travel-dependent.
- The models for press hardening are available in 800, 1200 or 1,600 ton and come with a newly developed combination of servomotor and hydraulics that allows higher speeds in the closing and return movement of the slide.

Options

The PDH models are additionally equipped with a die cushion.

Continuous slide locking.



Fully automated die change with moving bolsters in front-to-back or T-track arrangement with automatic die clamp

Technical Specifications

Model	Unit	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
Working Height	mm	700	700	700	700	750	750	850	900	900
Bolster and slide Dimensions	mm	1100x900	2200x1500	3000x2000	3000x2000	3500x2000	3500x2000	4000x2500	4500x2500	4500x2500
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

* Above floor level | Subject to technical modifications.

Model	Unit	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 and Return)	mm/s	700	700	700
Stroke Length	mm	1200	1200	1200
Daylight	mm	2200	2200	2200
Working Height	mm	700	700	750
Bolster and Slide Dimensions	mm	3000x2200	3300x2600	4000x3000

* Press capacity related

** Above floor level | Subject to technical modifications.

DSP and **PTS2** Series

The PTS2 series is designed for prototype production, die set-up and modification work. (including drawing, bending and punching tasks) The DSP series is especially suitable for die spotting. The mechanical micro inching system provides an accuracy of 0.05 mm.

Type	Press Capacity
Hydraulic presses	150 - 2500 ton
Part Size	**Application**
Small, Medium, Large	As a single press in progressive operation or as part of a press line and as a transfer press

Technical Specifications

Model	Unit	DSP-30	DSP-50	DSP-100	DSP-200	DSP-300
Press Capacity	ton	30	50	100	200	300
Stroke Length	mm	1700	1700	1900	1900	1900
Dayligth	mm	2200	2200	2500	2500	2500
Working Height	mm	340	340	340	340	340
Bolster and Slide Dimensions	mm	3000x2000	3000x2000	4000x2500	4000x2500	4000x2500

Model	Unit	PTS2-500	PTS2-600	PTS2-800	PTS2-1000	PTS2-1200	PTS2-1500	PTS2-2000
Press Capacity	ton	500	600	800	1000	1200	1500	2000
Stroke Length	mm	1500	1500	1500	1700	1700	1900	1900
Dayligth	mm	2000	2000	2000	2200	2200	2500	2500
Working Height	mm	700	700	700	750	750	750	800
Bolster and Slide Dimensions	mm	3000x2000	3000x2000	3000x2000	4000x2500	4000x2500	4000x2500	4500x2500
Die cushion Capacity	ton	150	150	250	250	350	350	500
Die Cushion Stroke	mm	350	350	350	350	350	400	400

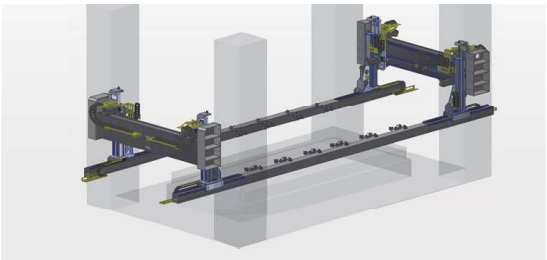
* Above floor level | Subject to technical modifications.

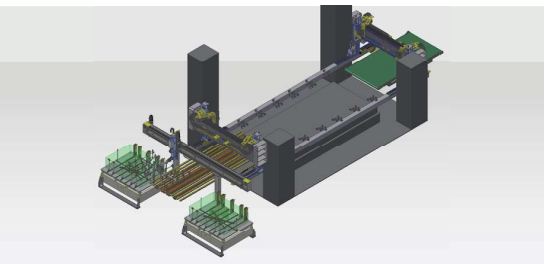
Automation Series [Transfer Line]

SIMPAC Transfer System with PLC-based interface allows operators to run parts as wide as the press window. Modules move offline quickly and easily, providing access for die maintenance and change over.

- Be advantageous in the production line of automobile parts High productivity compared to Robots line.
- Coil Line and De-stacker can be applied to FOL line Economical effect maximized by low cost per unit parts.

Technical Specifications





Bolster Dimensions	mm	Min. 6500x2300 Max. 7500x2800	**Feed distance**	mm	1500
Transfer SPM	spm	20 - 30	**Clamp stroke**	mm	600
Type	mm	7 axis servo	**Lift stroke**	mm	Max 350
X Motor	kw	15	**Feed bar size**	mm	AL 210x210
Y Motor	kw	15	**Feed weight**	kg	Max 250
Z Motor	kw	15	**Required power**	kw	120

Automation Series [Blanking Line]

SIMPAC is the market and technology leading manufacturer of different stacking systems for magnetic, non-magnetic and aluminum blanks. Our own developments to stack precisely all kind of automotive blanks are the answer to the latest industry demands.

- Steel & AL compound line and FOL line construction possible 4H, 6H Roll configuration ensures excellent leveling accuracy according to material rigidity.
- App Dedicated EOL Stacking Lines according to Steel & AL Material Configuration Excellent tuning control system associated with the press machine.

Technical Specifications

Basic Specification

Material	Cold-roll / Hot-rolled Stell Coil, High Tensile Strenght Steel Coil, AL Coil
Shape of Sheet Blanks	Rectangular, Trapezoid, Parallelogram and any shapes (Blanking Die)
Width of Colil	Min. 500 - Max. 2000mm
Weight of Coil. Max	Max. 30tons
Material Thickness	0.5 - 3.0mm
Sheet Length	300 - 4500mm
Tensil Sterngth of Material, Max	Max. 980N/㎟, Min. 590N/㎟
Yield Strength, Max	Max. 790N/㎟, Min. 450N/㎟

Line Specification

Uncoiling Speed	0 - 90 m/min
Feeding Speed	Max. 180m/min
Starting Speed During Adjust Period	15m/min
Line Speed	Max. 90m/min

BK Line Entry Part Composition

Coil Skid Car or Coil Skid Zone : Option	2 Set
Uncoiling Part Drum Support / Hold Down Roll	1 Set
Coil Peeling Part	1 Set
Washing Unit	1 Set
Leveler	1 Set
Coil Looping Device	1 Set
Main Feeder	1 Set
End Feeder	1 Set
Oscillating Shear	1 Set
Full Covering / Dust Covering	1 Set

BK Line Exit Part Composition

Telescopic Conveyor	1 Set Option (1Row / 4Row)
Piler	1 Set
Piler Car	4 Set Option (25 Set / 4 Set)
Exit Shear	1 Set Option
Reject Box / Inspection Table	1 Set Option

Automation Series [Coil Line]

SIMPAC Coil Line to solve your application's unique challenges. All of this for a price that is often less than a comparable conventional feed line. SIMPAC Coil Line provides maximum performance with minimum space.

- Minimize line length with a compact structure Easy operation with a button & touch panel.
- It is convenient to load coils by applying coil cars Manual and automatic coil guide application.
- Dedicated line composition according to material characteristics.

Technical Specifications

Coil Width	mm	300 - 1500	300 - 1500	300 - 1500	300 - 1850
Coil Thickness	mm	0.8 - 6.0	0.8 - 4.5	0.8 - 3.2	0.25 - 4.0
Coil Diameter (Outer)	mm	1200 - 1500	1200 - 1500	1200 - 1500	1200 - 1850
Coil Weight	ton	3 - 10	3 - 8	3 - 5	10 -30
Speed	m/mm	Max. 20	Max. 20	Max. 20	Max. 20
Work Roll Dia	mm	45 - 75	45 - 65	35 - 45	35 - 45
Work Roll	Pcs	15 - 21	15 - 21	15 - 21	15 - 21

Options

Oiler (Roll&Spray)

Work Roll Open

End Shear

Drum Support

Automation Series [Robot Line]

SIMPAC is the market and technology leading manufacturer of different stacking systems for magnetic, non-magnetic and aluminum blanks. Our own developments to stack precisely all kind of automotive blanks are the answer to the latest industry demands.

- Line proposal optimized for small, medium and large lines /Proposal of optimal FOL line according to material shape.
- Increase productivity with optimal compression design /Compact line configuration.

Technical Specifications

Blank Loading Station

Max. Stack Weight	ton	10
Max. Stack Height	mm	500
Single Panel Max. Size	mm	2000x1500
Single Panel Min. Size	mm	500x500
Dual Panel Max. Size : One Blank size	mm	700x1500
Stack Will be Supplied via Forklift / Crane		Forklift
Max. Blank Weight	kg	30
2 Carriage for Stack Supply (Design)	mm	Yes
Stack Staggering Tolerance	mm	5
Stack Leaning Tolerance	mm	5

Destacking StationMax

Magnet Sheet Separating Device	Yes
Manual Adjustable Fanner Magnets and Side Guides	Yes
Quantity of Fanner Magnet	4
Magnet Head Swivable	N/A
Magnet Shape	Square Block
Type of Magnets	Permanent Magnets
Air Knifes for Blank. Stack Separation with Separation Tool integrated into Every Magnet	Yes
Blank Position Setting Location Point : Measure Bar	Yes
Dual Panel Production	Yes

Double Blank System

Double Blank Sensing Unit (Roland)		E20
Number of Double Blank Sensors	ea	2
Measuring Range	mm	0.2 - 4.0
Contact Type of Sensor		Yes

Centering Station / Gravity type

Mechanical Centering Station /Gravity Type with Air Blower	Centering Stops for Single Blank Centering by Guide plate
Blank Detect Sensors	
Irregular Panel Centering with Location Pin	Yes
Air Floating by Individual Fan	Yes
Centering Pin Location Point	Yes
Dual Panel Production	Yes

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