

STE
SERIES

- SAFETY
- STABLE
- PRECISION
- ENERGY SAVING
- AUTOMATION

80-800TONS



Performance Features

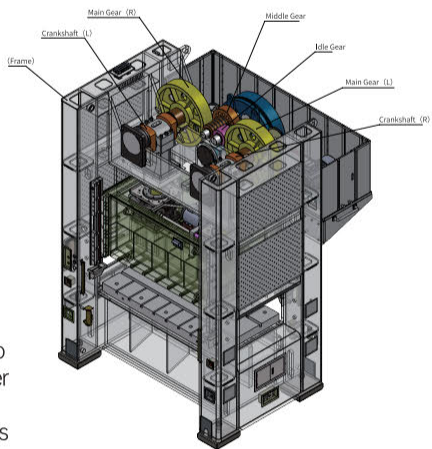
STE series is Straight Side Unitized Frame Double Crank (H-frame 2-point), this press are for general purpose stamping. Suitable for punching, forming, blanking, bending, drawing, and trimming. This type is generally used for progressive tool, robotic system and in die transfer applications.

It's have the shorter lead time and economic advantage when the application fits, comparing with the tie rod construction presses design(STF series: Trisection-type).

STE series presses are produced by Qiaosen machinery, which built to meet or exceed JIS Class 1 accuracy standards. Qiaosen adopt high strength steel frames and Quenching & Grinding Process for Slide-Guide, which can make the press machine have minimizing deflection and high accuracy and provide increased tool life.

Forged 42CrMo alloy material crankshaft, precision-machined gears and other drive train components are designed for smooth power transmission, quiet operation and long life. STE series presses are wet clutch system, It has longer service life of the clutch system. Adopting "8-Points Slide Guiding", its makes the presses has the characteristics higher accuracy and stronger stability. The design of intermediate-gear increases the both spacing of 2sides main gears and the 2sides crankshafts, which can improve resistance to eccentric-load. Standard configuration "Re-Circulating Oil lubrication", which have better heat dissipation, faster speed, more energy efficient and more environmentally friendly.

Siemens main motor and siemens based control platform and user-friendly touch screen operation interface is standardized in all QIAOSEN's presses, it provides ease of operation and expandable capabilities. Easy to integration with other automation system. Other brands of control can be furnished upon request.



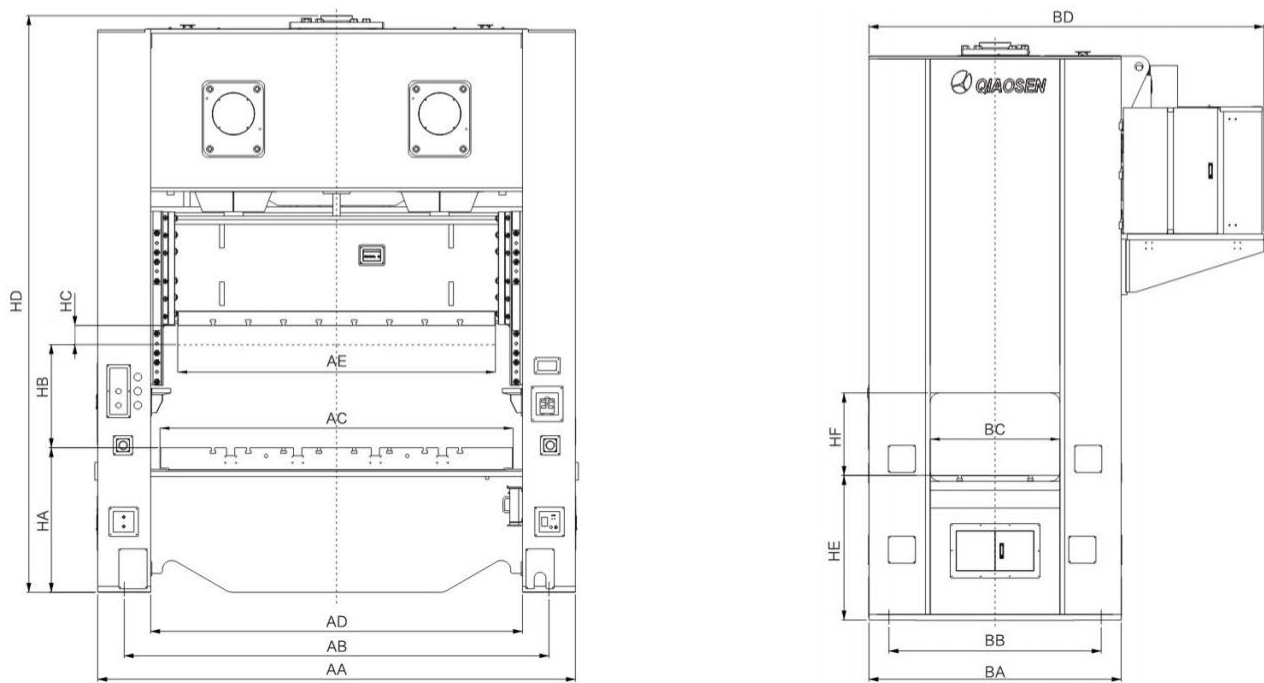
- ◆ Heavy one-piece steel frame, minimizing deflection, high accuracy.
- ◆ Pneumatic wet clutch brake, longer service life.
- ◆ 8-points slide guiding, stronger stability and resistance to eccentric-load. Adopting Quenching & Grinding Process for Slide-Guide, which can make the press machine higher accuracy & low wear and provide increased tool life.
- ◆ Forged 42CrMo alloy material crankshaft, its strength is 1.3 times higher than that of #45 steel, and service life is longer.
- ◆ Copper sleeve is made of tin phosphorus bronze ZQSn10-1, which has a strength 1.5 times higher than that of ordinary BC6 brass.
- ◆ Highly sensitive hydraulic overload protection device, effectively protect the service life of the presses and tools.
- ◆ Forced thin re-circulating oil lubrication device, energy-saving, environmentally friendly, equipped with automatic alarm function, with better smoothness and heat dissipation, and better lubrication effect.
- ◆ Built to JIS Class I accuracy standard.
- ◆ Optional Die Cushion.

Technical Parameters

Name	Unit	STE-80		STE-110		STE-160		STE-200		STE-250		STE-300		STE-400		STE-500		STE-600		STE-800	
Mode		S-type	H-type	S-type	H-type	S-type	H-type	S-type	H-type	S-type	H-type	S-type	H-type	S-type	H-type	S-type	H-type	S-type	H-type	S-type	H-type
Press capacity	Ton	80		110		160		200		250		300		400		500		600		800	
Rated tonnage point	mm	4	2	6	3	6	3	6	3	7	3	7	3	7	3	8	5	10	5	12	6
Slide strokes per minute	S.P.M	45~90	80~120	40~70	60~90	30~55	40~85	20~50	35~70	20~40	30~60	20~40	30~60	20~40	30~60	20~40	20~30	25~45	25~50	15~30	20~35
Slide stroke length	mm	150	100	180	120	180	130	250	150	280	180	300	180	300	180	300	180	300	180	300	180
Max die height	mm	380	330	420	370	450	400	500	450	550	450	550	450	550	450	600	500	600	500	800	700
Slide adjustment amount	mm	80		80		100		120		120		120		120		150		150		200	
Slide Area	mm	1200*520		1400*580		1600*650		1850*750		2100*900		2100*900		2200*900		2500*1000		2800*1200		3400*1400	
Bolster Area	mm	1400*620		1600*700		1800*760		2200*940		2500*1000		2500*1000		2500*1000		2800*1100		3000*1200		3600*1400	
Side opening	mm	500*380		600*420		700*450		700*600		700*600		900*650		900*650		1000*700		1100*700		1200*700	
Main motor power	KW*P	7.5*4		11*4		15*4		18.5*4		22*4		30*4		37*4		45*4		55*4		75*4	
Air pressure	kg*cm ²	6		6		6		6		6		6		6		6		6		6	
Press accuracy grade	Grade	JIS 1		JIS 1		JIS 1		JIS 1		JIS 1		JIS 1		JIS 1		JIS 1		JIS 1		JIS 1	

H-FRAME STRAIGHT SIDE DOUBLE CRANK PRESSES

Overall Dimensions



SPECIFICATION	STE-80		STE-110		STE-160		STE-200		STE-250		STE-300		STE-400		STE-500		STE-600		STE-800	
MODEL	S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H
AA	2100		2350		2590		3000		3700		3700		3400		3800		4200		5480	
AB	1800		2025		2240		2700		3350		3350		3050		3400		3750		4870	
AC	1400		1600		1800		2200		2500		2500		2500		2800		3000		4000	
AD	1500		1700		1880		2290		2800		2800		2600		2950		3150		4310	
AE	1200		1400		1600		1850		2100		2100		2200		2500		2800		3800	
BA	1300		1350		1400		1750		1800		1800		2100		2300		2550		2800	
BB	1000		1100		1200		1550		1450		1450		1940		2050		2200		2200	
BC	600		700		700		900		900		900		900		1000		1100		1200	
BD	2050		2100		2150		2500		2950		2950		3129		3750		3900		4170	
HA	800		800		800		900		1000		1000		1200		1200		1200		1810	
HB	380	330	420	370	450	400	500	450	550	450	550	450	550	450	600	500	600	500	800	700
HC	150	100	180	120	180	130	250	150	280	180	300	180	300	180	300	180	300	180	300	180
HD	3200	3125	4270	2070	3500	3400	3950	3800	4450	4240	4750	4520	5495	5265	6290	6040	6650	6410	7260	7111
HF	380		420		450		600		600		650		650		700		700		700	

Model	STE-80	STE-100	STE-160	STE-200	STE-250	STE-300	STE-400	STE-500	STE-600	STE-800	Model	A	B
Slider area(right and Left×front and back)	1200×520	1400×580	1600×650	1850×750	2100×900	2100×900	2200×900	2500×1000	2800×1200	3400×1400	a	22	28
T-slot mode	A	A	A	B	B	B	B	B	B	B	b	37	48
T groove spacing	125	125	150	150	200	200	300	300	300	300	d	16	20
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Standard Configuration

- > Hydraulic overload protection device
- > Electric slider adjusting device
- > Variable frequency variable speed motor (adjustable speed)
- > Electronic cam device
- > Digital die height indicator
- > Slider and stamping tools balance device
- > Rotating cam controller
- > Crankshaft angle indicator
- > Electromagnetic counter
- > Air source connector
- > Second degree falling protecting device
- > Forced Thin Re-Circulating Oil Lubrication System Device

- > Air blowing device
- > Mechanical shockproof feet
- > Mis-feeding detection device reserved interface
- > Maintenance tools and toolbox
- > Main motor reversing device
- > Light Curtain (Safety Guarding)
- > Wet Clutch
- > Electric grease lubrication device
- > Touch screen (pre-break, pre-load)
- > Mobile electric control cabinet and console
- > LED die lighting
- > 8-Points Slide Guiding

Optional Configuration

- > Customization Per Customer Requirement
- > Die Cushion
- > Quick Die Change System
- > Slide Knock Out Device
- > Turnkey System with Coil Feedline and Automation System

- > Foot Switch
- > Electric Automatic Grease Lubrication Device
- > Dry Clutch
- > Anti-Vibration Isolator
- > Tonnage Monitor

Capacity Graph

