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SHIBANG MACHINERY





# OMPANY INTRODUCTION

Wuxi shibang machinery manufacture Co., Ltd., formerly known as Wuxi county bearing heater factory, is a professional engaged in the design of hydraulic equipment, research and development, production, manufacturing in one of the high-tech enterprises. The company has advanced processing equipment, perfect testing means, strong technical force and years of production experience. All kinds

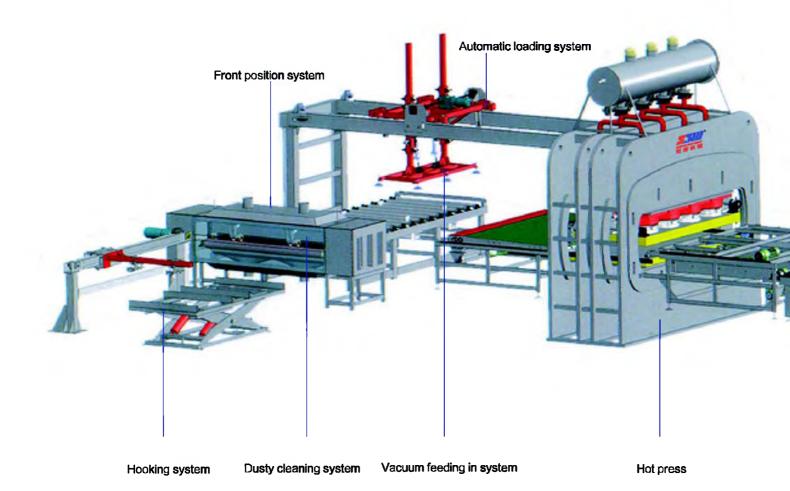




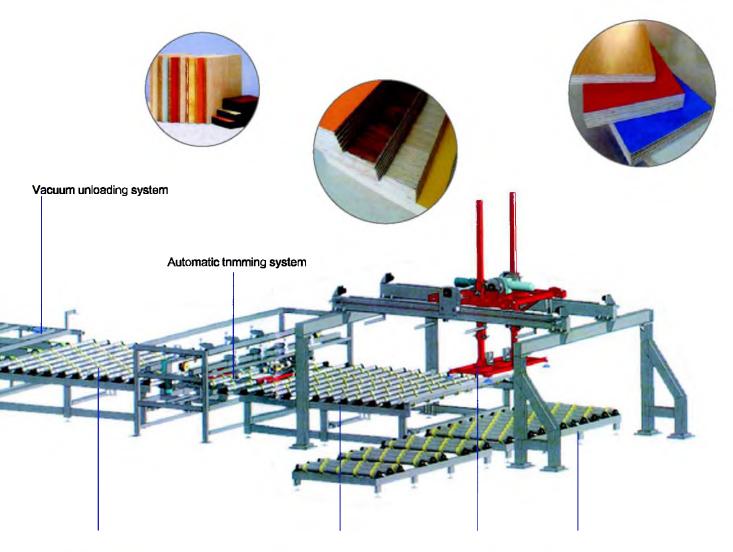
of veneer hot press and automatic production line of the company's production, widely used in wood processing, building materials, decoration and other industries, suitable for particleboard and MDF veneer surface decoration, can be used in the production of furniture board, laminate flooring and various decorative plates. The company's customers throughout the country, provinces and cities, counties, and exported to Southeast Asia, the Middle East, Europe, America and other countries around the world, praised by customers at home and abroad. Welcome all friends to visit our company to visit, guidance and business negotiation!

Enterprise purpose: to high-quality personnel, high-tech content of quality products, comprehensive and perfect after-sales service system, to fully meet the needs of users.

### Automatic short cycle laminated production line



The laminated production line adopts advanced programmable controller and HMI control, fast response, high positioning accuracy, so it has the feature of stable performance, high production efficiency, and easy operation. It is widely used in the wooden industry, such as: laminated furniture board, laminated flooring and decoreative material. We can make one by one design accounding to customer's requirement.



A Back position roller line A

B Back position roller line B

Output shelf

Vacuum checking&stoking system







# Furniture board press

### Single venner hot press with overhead oil cylinder







This kind of press is suitable for single veneer decoration board. It can be divided into two styles by the position of the main oil cylinder, one is overhead style, another is underneath style.

Single veneer hot press overall design simple, so the cost of equipment is low, belong to fine most cost-effective products of all the hot presses. This series of machine is mainly used for glossy, matte, S.F. and flowers textures, and it is used for furniture decorative boards. It is mainly used in the single side laminated board, in particular, it is widely used in the thin boards.

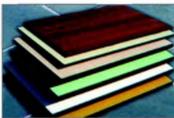
**Technical Date** 

Type	Total pressure(KN)	Diameter of the main oil cylind (mm)	Quantity of the main oil cylind	Hot planten size
SBYJ-SD1200	12000	ф320	6	4'×8'、4'×9'、5'×8'
SBYJ-SD1400	14000	ф340	6	4'×8'、4'×9'、5'×8'
SBYJ-SD1600	16000	ф320	8	4'×8'、4'×9'、5'×8'
SBYJ-SD1800	18000	ф340	8	6'×8'、6'×9'、7'×8'

### Single veneer hot press with underneath oil cylinder

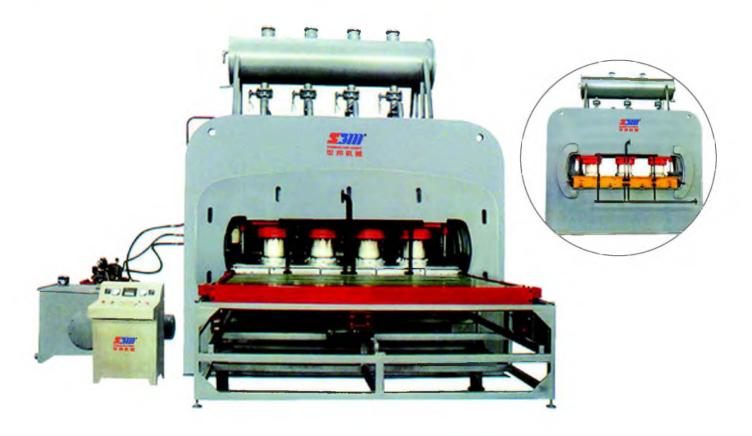






Туре	Total pressure(KN)	Diameter of the main oil cylind (mm)	Quantity of the main oil cylind	热压板尺寸/Hot planten size
SBYJ-D700	7000	ф250	6	4'×8'、4'×9' or customized
SBYJ-D900	9000	ф280	6	4'×8'、4'×9' or customized
SBYJ-D1200	12000	ф320	6	4'×8'、4'×9' or customized
SBYJ-D1400	14000	ф340	6	4'×8', 4'×9' or customized
SBYJ-D1800	16000	ф320	8	4'×8'、4'×9' or customized

### Double veneer hot press



Double veneer hot press machine is mainly used for double faced decorative board. and the main oil cylinder is overhead style. It is very popular production in the woodworking machinery market. The main characteristics of this kind hot press is high Machinery, high speed, saving labor cost, a longer using life. the improved, compressor frame is more reasonable, Which increases the strength and using life of the frame. and makes the frame more durable. At the same time, the main frame is made by CNC processing, it shall reduce the risk of stress caused by the tatigue crack, the new type of double veneer hot press has better insulation effect, more stable and more fast hydraulic system.

**Technical Date** 

Туре	Total pressure(KN)	Diameter of the main oil cylind (mm)	Quantity of the main oil cylind	Hot planten size
SBYJ-1200	12000	ф320	6	4'×8' or customized
SBYJ-1400	14000	ф340	6	4'×9', 5'×8' or customized
SBYJ-1600	16000	ф320	8	4'×9', 5'×8' or customized
SBYJ-1800	18000	ф340	8	6'×8', 6'×9' or customized
SBYJ-2000	20000	Ф360	8	6'×9', 7'×9' or customized
SBYJ-2200	22000	ф380	8	6'×8', 6'×9' or customized
SBYJ-2400	24000	ф400	8	7'×8'、6'×12'or customized

# Laminated flooring press





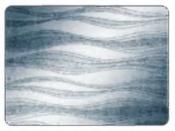


1400T-2800T short cycle hot press is mainly used in high-grade laminated flooring, 1400T-1800T is mainly suitable for pressing smooth flooring, such as the glossy, matt, S.F. etc.; 2000T-2800T is mainly for high-grade laminated flooring, such as V groove, hand scratch pattern. etc.

### press plate









Technical Date

Туре	Total pressure(KN)	Diameter of the main oil cylind (mm)	Quantity of the main oil cylind	planten size
SBYJ-LF2400	24000	ф400	8	4'×8', 4'×9' /5'×10', 7'×9' /6'×9', 7'×9'
SBYJ-LF2800	28000	ф420	8	4'×8'、4'×9' /5'×10'、6'×8' /6'×9'、7'×9'
SBYJ-LF3200	32000	ф440	8	4'×8'、4'×9' /5'×10'、6'×8' /6'×9'、7'×9'

# Door skin hot press









Cabinet door skin





Door skin hot press is suitable for melamine door skin, natural veneer door skin. The synchronizer is human oriented design which let the hot platens can be stopped at any position. (i.e. limit control), and the residence time is adjustable, it can reduce the compress ion time difference between the lowest layer and top layer, so that, it can better ensure product quality. The time of the pressure and the pressure value can be automatically set&controlled.

**Technical Date** 

Туре	Total pressure(KN)	Diameter of the main oil cylind (mm)	Quantity of the main oil cylind	size
SBYJ-DS700	7000	ф280	6	3'×7', 4'×8' or customized
SBYJ-DS900	9000	ф280	6	3'×7'、4'×8' or customized
SBYJ-DS1200	12000	ф320	6	3'×7', 4'×8' or customized
SBYJ-DS1400	14000	ф340	8	3'×7'、4'×8' or customized

# Compressed pallet production line



Molding machine is mainly suitable for making the plastic plate in the filter board and moulded wooden pallets. It is belonged to the single veneer press, generally with a mold, the working table can be made of heating or un-heating. The framed is structured with high strength, and the layout design is reasonable, which can used safely and reliable.











**Technical Date** 

Type	Total pressure(KN)	Diameter of the main oil cylind (mm)	Quantity of the main oil cylind	size
SBMP-500	5000	ф500	1	1800 × 1800 or customized
SBMP-1500	15000	ф440	4	2200 × 2200 or customized
SBMP-1700	17000	ф460	4	2300 × 2600 or customized
SBMP-2500	25000	ф560	4	2600 × 2600 or customized

# Single / Multi layers door skin press







**Technical Date** 

Ordirinary multi-layer press is mainly suitable for the production of wood panels, laminated-board, multilayer plywood, and can produce the high-glossy board. The nain feature of the multilayer press is the number of layers. one can press 4 to a dozen. Because it does not have an automatic feeding in/out system in its standard style, so, the press is more dependent on manual operation. But, if required, we can supply the automatic feeding in/out system to customers.

Type	Total pressure(KN)	Diameter of the main oil cylind (mm)	Quantity of the main oil cylind	size	layers
SBDSP-900	9000	ф280	6	07 40	
SBDSP-1200	12000	ф320	6	3×7、4×8 or customized	1-12
SBDSP-1400	14000	ф340	6		

# Line molding machine









Line molding machine is also called line machine, mainly used for the molded door skin frame and the skirting line, it is be longed to underneath style single veneer hot press.

**Technical Date** 

Туре	Total pressure(KN)	Diameter of the main oil cylind (mm)	Quantity of the main oil cylind	size
SBYJ-T150	1500	ф280	1	500×500、600×600
SBYJ-T200	2000	ф320	1	500×500、600×600
SBYJ-T250	2500	ф360	1	500×500、600×600
SBYJ-T300	3000	ф400	1	500×500、600×600
SBYJ-T350	3500	ф420	1	500×500、600×600
SBYJ-T600	6000	ф400	2	2'×4'
SBYJ-T700	7000	ф420	2	2'×4'
SBYJ-T1400	14000	ф420	4	4'×4'
SBYJ-T1600	16000	ф450	4	4'×4'

# ZBJ-DD Single Column Hydraulic Press

The series hydraulic press is C-frame Single-pillar structure and the whole machine body is jointed with steel. The hydraulic system lies inside the body. Under the worktable does equip with hydraulic cushion. The electric control system applies "PC" program controller with button central controlled to achieve adjusting, manual and semi-automatic operation. The series hydraulic press applies to techniques including the drawing, punching, bending, crimping, amendment, pushing mounting, cold and hot extrusion, etc of metal materials as well as powder and plastic products for press forming.



The operation is very convenient with C-frame single arm structure. The hydraulic system lies inside the body. Under the worktable does equip with hydraulic base. Working press stroke can be adjustable within the specific range. The series hydraulic press applies to techniques including the drawing, bending, incusing, blanking, amendment, pushing mounting, etc of metal parts as well as the forming of general powder and abrasive products, plastic products and insulating materials for press forming.

Accessorial worktable
Precise straightening system
Photo-electrical protection device
Touch style industry screen
Rate speed regulation system

Hydraulic system heating Cooling device Ramming mixes device

PLC PLC Programmable Logic Controller

Parameter		ZBJ-DD-10	ZBJ-DD-16	ZBJ-DD-25	ZBJ-DD-40	ZBJ-DD-63	ZBJ-DD-100	ZBJ-DD-150
Nominal pressure	KN	160	160	250	400	630	1000	1500
Strake of Slide black	mm	300	350	350	400	500	500	500
Max distance from bottom surface of slide block to worktable	mm	500	550	600	700	800	800	800
Worktable size(Right to left × Front to bac	k) mm	600 × 450	650 × 500	650×500	700 × 550	800×650	800×700	900×900
Max work pressure of liquid	Mpa	13	12	16	20	25	25	25
Descent speed of slide block	mm/s	40	48	48	33	32	27	27
Return speed of slide block	mm/s	50	70	70	65	50	40	50
Throat depth	mm	250	300	260	320	350	350	400
Overall Dimensions (length×width × height)	mm	1100×800×1800	1100×850 ×2100	1200×830×2400	1500×800×2500	1600×1200×2600	1800 × 1400 × 3000	1900×1500×3100
Electric Power	kw	2.2	4	5.5	7.5	7.5	7.5	11.5
Weight	kg	1000	1300	1800	3500	5500	6500	7000

### **ZBJ-DC**

### ZBJ-DC High Speed Hydraulic Punching Press



#### Product performance characteristics

The machine is mainly to undertake a variety of different thickness of the plate – 20 mm (0.1 mm) of the punch, bending, shear, pressure equipment, leveling, extrusion molding time pressure, stretching, etc. The variable precision is 0.1 mm, safe, convenient and reliable. Soft punch technology, improve product quality and the service life of the mold. Intelligent control, to ensure the accuracy and security of the machine and stop. With adjustment, automatic, half since (semi-automatic can be divided into cheng is single and constant pressure single two process) three kinds of operating mode. The slider working pressure, the no-load fast descending and slow work into travel range can be

adjusted according to the process. Machine structure design is reasonable, easy to realize automation of production, reduce costs, improve efficiency. Advanced design idea, low voice, low consumption, energy conservation and environmental protection.

#### Optional

Photoelectric safety insurance shoulder device, feeder (air, machinery and CNC), rack, leveling machine, manipulator, mold lighting device.

					Hi	gh Speed Hydra	ulic Punching P	ress		
Parameter	Unit	ZBJ-D-25	ZBJ-D-40	ZBJ-D-60	ZBJ-D-80	ZBJ-D-100	ZBJ-D-125	ZBJ-D-160	ZBJ-D-200	ZBJ-D-250
Nominal pressure	KN	250	400	600	800	1000	1250	1600	2000	2500
Stroke of slide block	mm	125	125	125	125	150	150	200	200	250
Max speed	mm	100	100	100	90	90	90	80	80	70
Numbers of stroke	min	35-80	35-80	35-80	35-80	20-80	20-80	20-80	20-80	20-80
Max Die height	mm	300	400	500	500	600	600	700	700	800
Between slide center and frame	mm	300	300	350	350	400	400	450	450	450
Work table size	mm	300x400	300x500	320x500	500x800	500x1000	650x1100	700x1100	700x1200	800x1200
Electric Power	kw	4	4	5.5	7.5	7.5	11	11	15	15

# Four-pillar Versatile Hydraulic Press



#### Use end and characteristics

This series product applies to press techniques of various plastic materials, such as punching, bending, crimping, etc. Besides, it can also be used for amendment, pushing mounting, forming of grinding wheel, press forming of plastic, rubber and powder products.

The host machine of this series applies three-girder and four-pillar structure. The hydraulic system applies Cartridge Valve oil line. The electric system applies relay or PLC to control circuit. It has the adjustable and semi-automatic operation mode. The whole machine features simple and compact structure, economical and reasonable price, reliable operation, long-term life, slight hydraulic impact force and less connection pipelines and leakage.

The work pressure, press speed, stroke range of this series can be adjustable within the specific range according to technical requirements and process preset pressure mode and stroke mode. During the preset pressure forming, there is pressure maintenance delay and automatic return after the press. There is the knockouts device used as hydraulic cushion for forming of drawing products except for knocking out products.

#### Main Parameters

				,						,	
Parameter			ZBJ-G-100	ZBJ-G-200	ZBJ-G-315	ZBJ-G-400	ZBJ-G-500	ZBJ-G-630	ZBJ-G-800	ZBJ-G-1000	ZBJ-G-1250
Nominal	pressure	KN	1000	2000	3150	4000	5000	6300	8000	10000	12500
Knockou	uts force	KN	190	280	630	630	1000	1000	1600	2000	2520
	Max work pressure of liquid	Мра	25	25	25	25	25	25	25	25	25
Strake a	f SI de block	mm	500	710	800	800	900	900	1000	1200	1300
Stroke o	f Knockouts	mm	200	200	300	300	350	350	350	400	400
Max	opening height	mm	800	1120	<b>125</b> 0	1250	1500	1500	1600	1700	1800
	Descent	mm/s	150	200	200	170	200	180	250	250	250
Speed of slide block	Processing	mm/s	7–15	7-18	5-12	4-10	7-15	5-12	8-18	7–15	7–15
Speak of all de block	Return	mm/s	120	140	120	105	130	115	140	125	130
	L-R	mm	690	1000	1260	1250	1400	1600	3000	3500	4000
Worktable dimension	F-B	mm	630	940	1160	1250	1400	1600	1800	2000	2200
	L-R	mm	2600	3000	3600	3600	4000	4300	5800	6400	6900
Overall Dimension	F-B	mm	1400	1400	1600	1600	2100	2100	2800	2900	4500
Oversii Dimension	Height	mm	3250	4250	5400	5650	6050	6250	6400	7000	7500
Electric Power		kw	7.5	22	22	22	22×2	22×2	22×3	22×3	22×3
Weight		kg	4000	9200	14500	17000	25500	33500	68000		

# ZBJ-G

### ZBJ-G Movable Roll Ring Dismantling Unit Line

ZBJ-G movable roll ring dismantling unit line is a new development to customers' needs designed for fitting operation of more workpiece kinds, especially for fitting/dismantling operation of larger sizes of workpieces with refernce to comparable Italian import.

#### Characteristic

Characteristics: This line allows work-pieces (upward, downward, forward and backward) movement for easy lifting/fitting operation. If this line operates with Shibang brand of heaters featuring quick heating operation and uniform temperature control and easy dismantling operation, it will give optimal operating performance. Today, it it has gone into operation in Tianjing Pipe Co., Baosteel .No.5 Mill and Taiyuan Stainless Steel Co. and more.

#### Structure

It is made up of Press body, movable hydraulic work table cylinder, hydraulic work table lifting cylinder, hydraulic fitting cylinder, hydraulic system, induction dismantling unit, movable work table, guide rail and electrical control system and more.

#### Application

Specially-designed for dismantling/fitting operation of roll blocks, roll rings and bearings of 720, 460, 258 and 168 mills and more for bar/rod and pipe rolling operations(abrasive rolls), also for dismantling/fitting operation of structural parts such as gears, sleeves, axles and belt wheels and more. (The roll ring dismantling unit will make it possible to dismantle rolls of pipe, H-beam and rail mills).









#### Key technical parameters

Mode	Туре	Power	Working pressure	Capacity	Stroke	Daylight	Work-piece Size	Work-piece Movement Mode
ZBJ-G-100	Double-column	380V50Hz	31.5mpa	10 <b>0</b> T	700mm	800mm	≤700 × 700 × 700	Manual Movement
ZBJ-G-250	Four-column	380V50Hz	31.5mpa	250T	900mm	1000mm	≤900 × 900 × 900	Hydraulic Movement

<sup>\*</sup> Only part of parameters is illustrated in the above. Other machine models are to be customized.

# ZBJ-G(10T~3000T)

# ZBJ-G-2600T Automatic Press

#### application area

- Should be used for bar, pipe material and straightening
- Shanghai BaoSteel Application site



### **ZBJ-JG Correction of Steel Structure Forming Hydraulic Press**

#### Main uses and characteristics

- C-frame single column hydraulic press hydraulic press for pressing from three directions near the work area to meet large parts of straightening, pressing, bending, pressing process.Configuration lifting and other assistive tools can greatly improve efficiency.
- Nominal power 2500~31500kN.



### ZBJ800-3000

### ZBJ800-3000 series Hydraulic Stamping Press



#### Application:

- Sheet metal stretching, blanking, stamping and all stretch flange forming process, but also for correction, press-fit technology, widely used in the following industries:
- Auto parts: b axle housing, bumper
- Kitchen appliances: sink, a pot, stainless steel appliances, and other containers.
- Other: tractors, motorcycles, aerospace, aviation, chemicals, instruments, machine tools

#### Advantages:

- Simple 4-column structure and reliable operating system
- With movable working table
- Easy and practical to change die
- Uses PLC control to make sure that operating sensitive and reliable
- Mechanical, electrical and hydraulic integration

#### Product Description:

- The hydraulic press use optimized design of computer with international advanced level. The frame structure, rigid, high precision, strong resistance to side load capacity. Corners directions with guide, high guiding precision New fuel tank sealing components, high reliability, long life.
- The hydraulic press have fast working speed, improve the production efficiency. The working pressure and stroke can be adjusted according to process requirements, easy to operate.
- Our hydraulic have low noise which can replace the mechanical press.
- Using non-contact displacement sensor or switch, improve the reliability and accuracy of stroke control.
- Mechanical, electrical, hydraulic integration of safety devices, security is superior.

#### Technical Specifications

Parameter			ZBJ-100T	ZBJ-200T	ZBJ-315T	ZBJ-400T	ZBJ-500T	ZBJ-630T	ZBJ-800T	ZBJ-1000T
Nominal pressure	1000	2000	3150	4000	5000	6300	8000	10000		
Return force	160	<b>24</b> 0	600	<b>50</b> 0	900	<b>85</b> 0	1000	<b>135</b> 0		
Slide stroke	510	710	800	800	900	900	1000	1000		
Open height	mm	800	1120	<b>125</b> 0	<b>125</b> 0	1500	1500	1800	1800	
Hydraulic cushion nominal force K			400	630	1250	<b>125</b> 0	2000	1250×2	1600×2	2000×2
Hydraulic cushion return force KN			147	<b>25</b> 0	360	360	780	360×2	600×2	580×2
Hydraulic cushion atroke mm			200	250	300	300	350	350	400	400
	Down	mm/s	100	150	100	<b>13</b> 0	120	<b>13</b> 0	<b>15</b> 0	130
Slide apeed	Work	mm/s	7-15	5-12	5-12	4-10	7-15	5-12	5-12	5-12
·	Return	mm/a	85	95	60	70	80	85	95	85
	Up	e/mm	35	38	<b>3</b> 0	<b>3</b> 0	37	<b>3</b> 0	<b>3</b> 0	30
Hydraulic cushion speed	Return	mm/s	100	95	100	100	95	105	85	105
Working table	L-R	mm	690	1000	1260	<b>125</b> 0	1400	1600	2200	<b>250</b> 0
Effective alze	Front-bac	ck mm	630	940	1160	<b>125</b> 0	1400	1600	1600	1800
Motor Power	kw	7.5	15	22	22	44	44	60	66	

# **ZBJ-PZ**

# ZBJ-PZ Forging Hydraulic Press

#### ▶ ZBJ-PZ Forging Hydraulic Press

- Mainly used for free forging, steel ingot and non-ferrous and black metal forming die forging, etc.
- For example, this kind of hydraulic press can be applied in the producing of all kinds of forgings, crankshaft and flange product.



#### Key technical parameters

								Optional parts								
Nominal Daylight pressure (KN)	Size of table (mm)		Active beams move speed (mm/s)			Motor	Mobile Workbench			Horizontal moving anvil device			Weight the maximum ingot			
	L-R	F-B	Descent	Pressing	Return	(kw)	size/mm	stroke/mm	Force/KN	size/mm	stroke/mm	Force/KN	Stretching (T)	Upsetting (T)		
					_						SIZE/IIIIII	SHOKE/IIIII	r orce/kiv		(1)	
12000	2000	1600	1600	300	50	300	3×90	2500 × 1600	900	300				2	1	
12000	2000	1600	1600	300	50	300	4×90	2500 × 1600	900	400				4	2	
15000	2500	1800	1800	300	50	300	5×90	4000 × 1600	2200	500				6	3	
16000	2800	2100	2000	300	50	300	9×90	4000 × 2000	2000	630				10	4	
18000	3200	2500	2000	300	50	300	10×90	5000×2200	3000	630				20	14	
20000	3800	3300	2700	300	50	300	16×90	6000×3800	4400	800				45	124	
15000	2300	2200	2200	350	50	350	18×90	3600 × 1400	1700	800				55	30	
12000	2000	1000	3000	300	50	300	3×90				3000×600	2000	250	2	1	
12000	2000			300	50	300	4×90	3200 × 1200	2000	200	3200×600	3200	250	4	2	
16000	3000	2150	2000	300	50	300	9×90	5000 × 1800	3000	500	4250 × 1000	4200	250	10	4	
20000	4000	3000	2600	300	50	300	16×90	6000×2200	3400	800	5050 × 1200	5000	250	45	24	



We are committed to provide high quality assurance in the process from part selection to the last finish. Only we shall be responsible for our equipment. Consistent efforts have been made to put all operating procedures under control in pursuit of step-by-step perfection.

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