



Comprehensive Catalogue of Shear Equipment for Fixed Length Steel and Steel Bend Forming Equipment

General Catalogue

DARHUNG



達鴻機械股份有限公司

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1. Shear Equipment for Fixed Length Steel
2. Automatic Steel Bend Forming Equipment
3. Production Plant Optimization Solution
4. Production Management of Steel Processing and Distribution
5. Automatic Redar Friction Welding Machine



MADE IN TAIWAN



達鴻機械股份有限公司（原達鐵機械）創立於1972年，迄今已歷時40余載。一直以來秉持着不斷研發，客戶至上的原則，相繼開發出許多相關產業的鋼筋加工設備，產品遍佈全台灣、大陸、東南亞等地，本公司不僅秉持着創新研發、品質第一、持續進步的理念，更為世界的每一位客戶做最好的產品與服務。本公司所有產品皆為自主研發，產品性能穩定，成品年產量高，並且提供全方位的整廠規劃服務，為客戶量身訂造高產量的鋼筋配送工廠。

DARHUNG Inc. (original from DARTIEE Inc) was founded in 1972 and headquartered in Taichung, Taiwan. DARHUNG's main products include Deformed Bar (Rebar) Cutting and Bending Equipment, and steel equipment related products. Anticipated the trend of the industry, We have developed products including 「Deformed Bar (Rebar) Auto Bending Equipment」, 「Auto Cutting Production」, etc.. We've also received excellent feedbacks from customers. Other than manufacturing and selling products, we also provide solutions to our customers Based on customers' needs, we analyze and propose the best solutions to customers.



DT-1030-DT3218



Powerful Shear Capacity



Particular Rebar Separator



Off Loading Conveyor



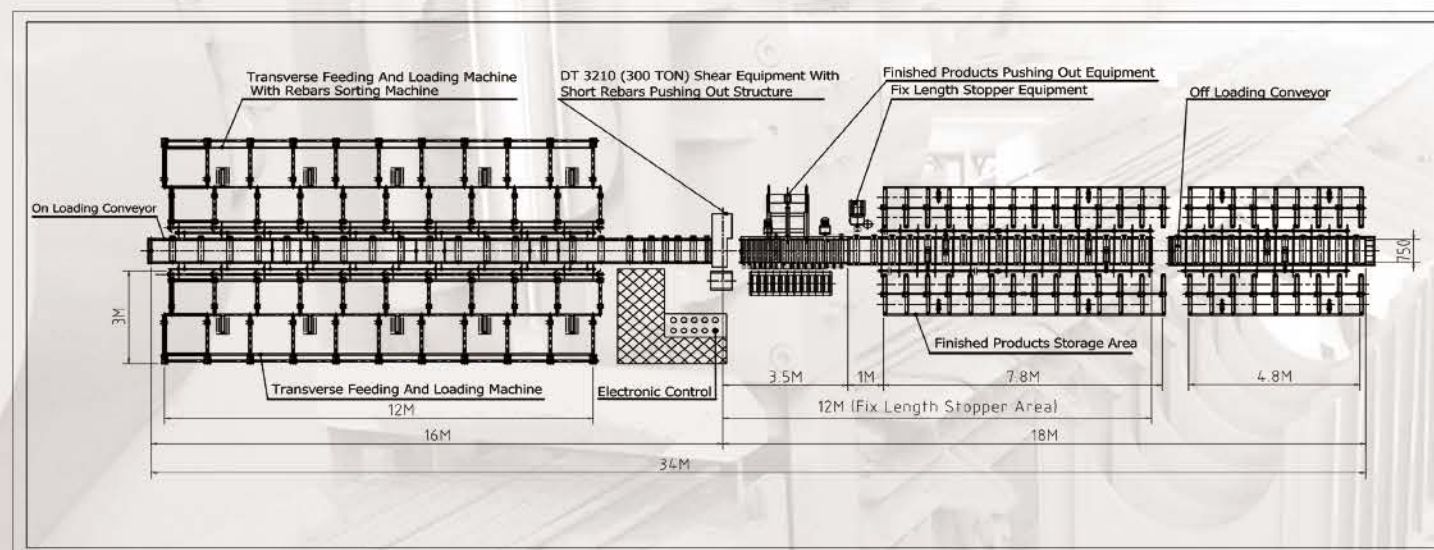
IPC Controller System



Cutting Line

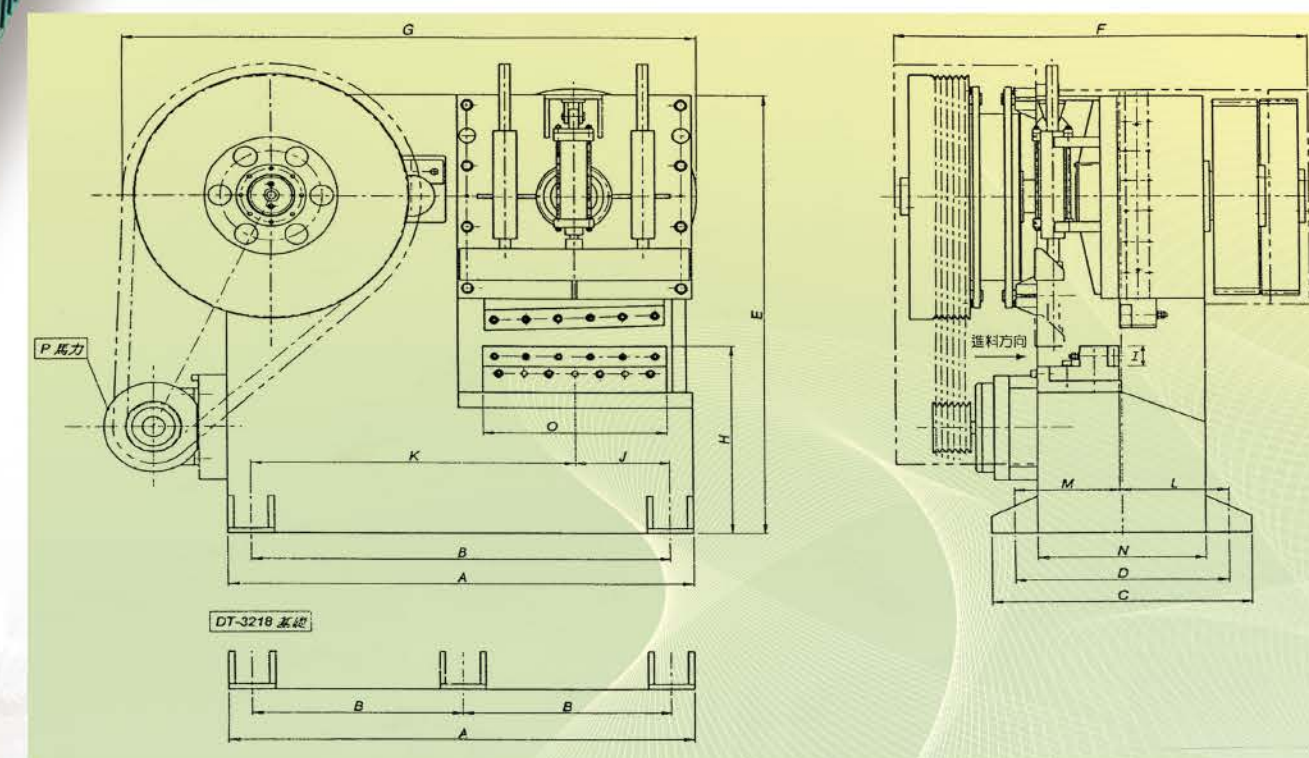


Rebar Feeder with Separators

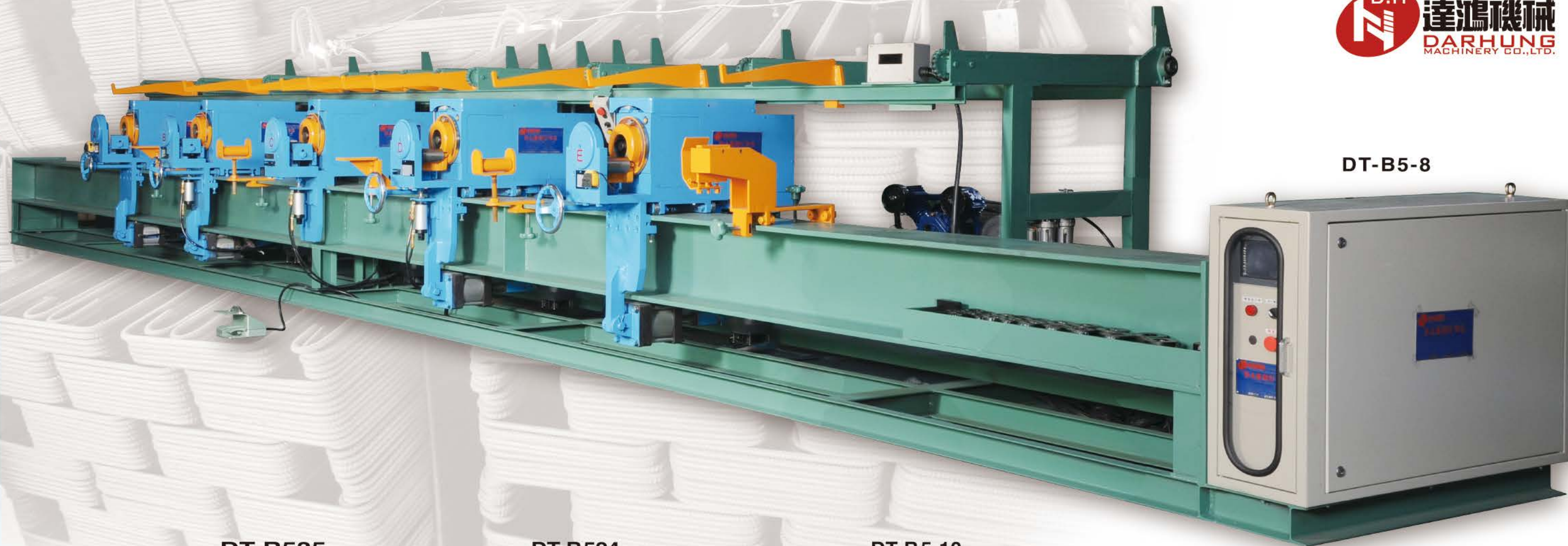


BAR COLD SHEAR CUTTING CAPACITY (SD420)

Type	DT1030	DT1818	DT2018	DT2515	DT2810	DT3210	DT3218
Diameter mm	PCS	PCS	PCS	PCS	PCS	PCS	PCS
D10	30	42	50	70	80	110	180
D13	16	26	30	45	50	75	110
D16	10	19	23	28	30	45	75
D19	6	13	18	23	25	30	46
D22	4	9	12	18	20	25	38
D25	3	5	8	15	16	20	30
D29	2	4	5	8	10	16	24
D32	1	3	4	5	7	12	18
D39	-	1	2	3	4	7	13
D51	-	1	1	2	2	3	5



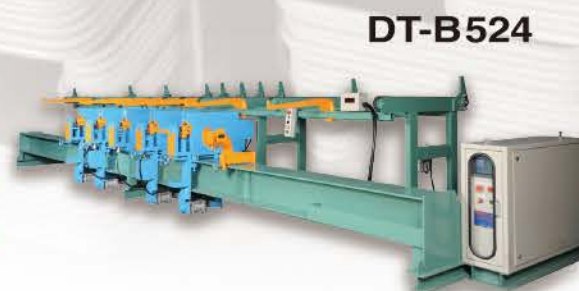
型 式 Type	DT1030	DT1818	DT2018	DT2515	DT2810	DT3210	DT3218	DT3218W
切斷能力 Cutting Force	ø10X30°	ø18X18°	ø20X18°	ø25X15°	ø28X10°	ø32X10°	ø32X18°	ø32X18°
理論出力 Theory Force	80 TON	100 TON	120 TON	200 TON	250 TON	300 TON	600 TON	600 TON
A	973	11.85	1355	1598	1845	2018	2215	2333
B	823	985	1155	1398	1615	1818	1000	1000
C	704	860	900	1050	1050	1120	1120	1120
D	554	660	700	850	850	920	950	920
E	1162	1360	1565	1755	1755	2165	2215	2245
F	1144	1260	1350	1710	1710	1806	1955	1955
G	1491	1785	1955	2307	2555	2766	3101	3219
H	570	605	740	850	850	930	930	930
I	80	80	80	100	100	100	100	100
J	195	232	255	300	365	410	432.5	443.5
K	628	753	900	1098	1250	1408	1567.5	1556.5
L	267	346	385	452	452	470	485	470
M	287	314	315	398	398	450	465	450
N	404	460	500	650	650	720	720	720
O	400	500	500	600	800	800	800	1000
P	7½ HP	15HP	20HP	40HP	40HP	50HP	75HP	75HP
Q	M24	M24	M30	M30	M30	M36	M42	M42



DT-B5-8



DT-B535



DT-B524



DT-B5-10

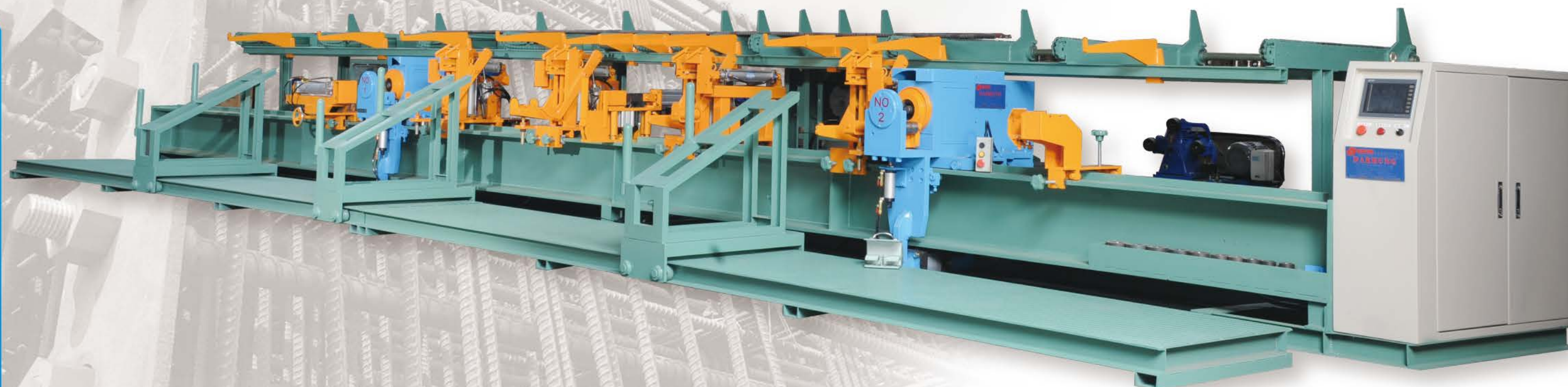
- Touch Panel Control
- Easy to adjust the length and angle
- Daily quantity: 8000 bars per man



Spec.	Type	DT-B535	DT-B5-8	DT-B5-10	DT-B524(624)
Diameter for the bending steel		3"4"5" D10 mm -D16 mm	D10 mm - 25 mm	D10 mm - 32 mm	D8 mm - 14 mm
Number of bending steel in one time		size D10 D13 D16 (SD280) Qty 7 5 2	size D10 D13 D16 D19 D22 D25 (SD280) Qty 9 7 5 3 2 1	size D10 D13 D16 D19 D22 D25 D32(SD280) Qty 9 7 5 3 2 2 1	size D8 D10 D12 (SD280) Qty 8 6 4
Maximum bending length		180mm~8000mm	310mm~9000mm	330mm~11000mm	170mm~8000mm
Bending angle		0° ~ 180°	0° ~ 180°	0° ~ 180°	0° ~ 180°
Bending direction		Clockwise 3 sets(left side) Counterclockwise 2 sets(right side)	Clockwise 3 sets(left side) Counterclockwise 2 sets(right side)	Clockwise 3 sets(left side) Counterclockwise 2 sets(right side)	Clockwise 3 sets(left side) Counterclockwise 2(3) sets(right side)
Bending speed		60° /1 second	55° /1 second	55° /1 second	90° /1 second
Horse power of motor		1.5KW X 5Bend/1.5KW X 1Air compressor/0.75KWConveyer	2.25KW X 5Bend/1.5KW X 1Air compressor/1.5KWConveyer	3.7KW X 5Bend/1.5KW X 1Air compressor/1.5KWConveyer	1.5KW X 5(6)Bend/1.5KW X 1Air compressor/1.5KWConveyer
Power supply		3 phase 220V 60Hz air 6kg/cm ²	3 phase 220V 60Hz air 6kg/cm ²	3 phase 220V 60Hz air 6kg/cm ²	3 phase 220V 60Hz air 6kg/cm ²
Machine size (LXWXH)		8600 X 1900 X 1500	10300 X 2100 X 1350	12060X 2240 X 1385	6400(8400)X 2050 X 1380
Weight		3500kg	5450kg	8150kg	3500kg



DT-BD2-8L With Automated Feeding and Discharge Mechanism



DT-B235A(Automatic)



DT-BD2-11A

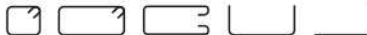


DT-B3205(Automatic)

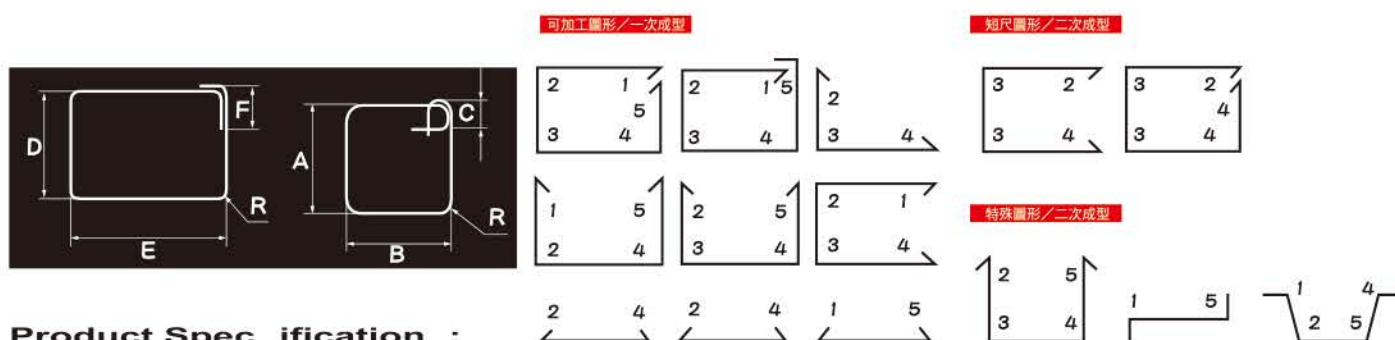
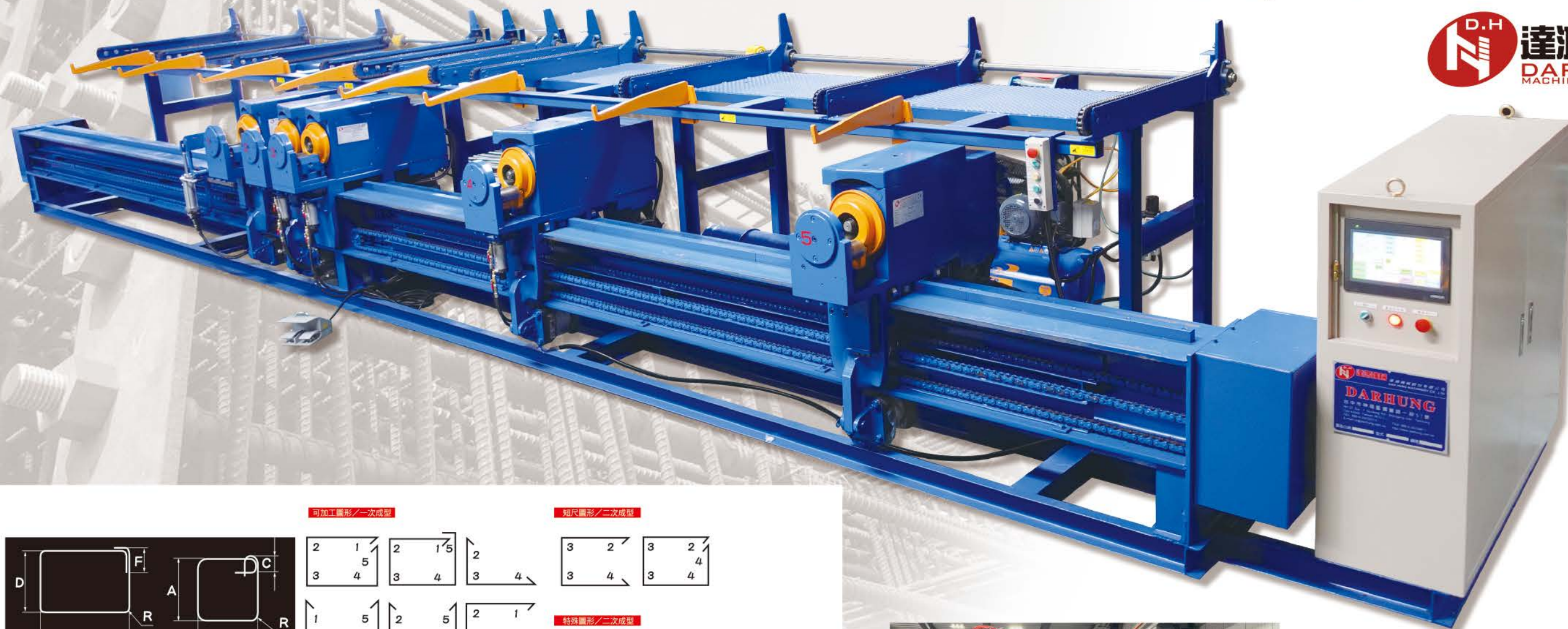


Operation Characteristic

- More function 、 Easy setup 、 Easy operation 、 Fast Forming
- Easy adjust the length and angle
- High efficiency, Average daily machine quantity : 5000 bars per man.
- High accuracy. Lower down the labor cost.

Spec.	Type	DT-BD2-8L	DT-B235A(Automatic)	DT-BD2-11A	DT-B3205(Automatic)
Number of Bending Steel in One Time	Size	D10 D13 D16 D19 D22 D25 (SD280)	Size D10 D13 D16 (SD280)	Size D10 D13 D16 D19 D22 D25 D32 D36	Size D10 D13 D16 D19 D22 D25 D32(SD280)
	Qty	9 7 5 3 2 1	Qty 7 5 2	Qty 11 8 6 5 4 4 2 1	Qty 18 14 11 9 8 7 5
Bending Angle		0°-180°	0°-180°	0°-180°	0°-180°
The Minimum to the Maximum Bending Length		310mm-7000mm Finishing Length	90mm-6000mm(8000mm) Finishing Length	1000mm-11000mm Finishing Length	1000mm-12000mm Finishing Length
Patterns of Bending					
Bending Speed		55° /1 Second	60° /1 Second	35° /1 Second	40° /1 Second
Horsepower of Motor		2.2KW X 2	1.5KW X 2	7.5KW X 2	11.5KW X 2
Machine Size (LxWxH)		8000X2100X1350	6400(8400)X2100X1470	14370X2750X1690	14000X4000X1750
Weight		5850Kg	3000Kg	12000Kg	20000Kg





Product Specification :

Rebar Material		SD280 / SD420 / SD490							
Rebar Diameter		D10	D13	D16	D19	D22	D25		
		#3	#4	#5	#6	#7	#8		
Bending capacity	SD280	9	7	5	3	2	1		
	SD420	8	6	5	3	2	1		
	SD490	7	5	4	2	1	1		
Rebar Radius	3d		Ø39	Ø52	Ø62	Ø73	Ø84		
	4d		Ø39	Ø52	Ø62	Ø73	Ø84		
	5d		Ø52	Ø62	Ø73	Ø84	Ø94		
Bending direction		Clockwise 3sets(Left side) Counterclockwise 2set(Right side)							
Horse power of motor		3.75KW x 5 (Bend)1.5KW x 1 (Air compressor)1.5KW x 1 (conveyor)							
		±1 mm							
		±1°							
		0°~ 180 °							
Maximum Size		8M		7500 mm					
		10M		9500 mm					
		12M		11500 mm					
		D10-4d	A	B	C	D	E	F	R
			280	310	150	280	310	130	Ø39
		D10-4d	150	310	150	150	310	130	Ø39



DT-BD16L (Stock Rebar)



DT-BD16A (Coil Rebar)



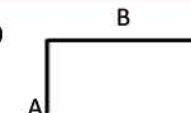
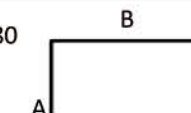
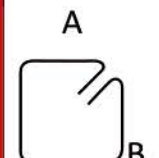
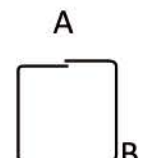
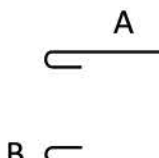
Spec.	Type	DT-BD16A (Coil Rebar)				DT-BD16L (Stock Rebar)			
Number of Bending Steel in One Time		Size	D10	D12	D16	Size	D10	D12	D16
		Qty	2	2	1	Qty	2	2	1
Bending Angle		0°-180° 2 Ways				0°-180° 2 Ways			
The Minimum to the Maximum Bending Length		70-12000mm Finishing Length				70-12000mm Finishing Length			
Patterns of Bending		All type				All type			
Bending Speed		1000° / Second				1000° / Second			
Max Puling Speed		1M / 1.5 Sec				1M / 1.5 Sec			
Horsepower of Motor		15KWx2				15KWx1			
Length Tolerance		± 3mm				± 3mm			
Machine Size (LxWxH)		13500X3000X2700mm				17254X3210X2115mm			
Weight		6580Kg				4436Kg			



BD-16LM



MACHINE SPECIFICATION

Power Source	220/380 V (50/60HZ)		UPWARD BENDING 5~135° DOWNWARD BENDING 5~180°
	Required Power Source Capacity (Breaker Capacity)	100A	D10- Ø35 A-60*B-85*C-60
	Feeding	4.4KW	
	Bending	7.5KW	
Motor Capacity	Lifting at Bending Section	2.9KW	D16- Ø48 A-80*B-115*A-80
	Cutting	7.5KW	
	Magnet motor	2.25KW	
	Air Compressor	2.25KW	
	Total Motor Capacity	26.8KW	
Speed	Feeding	Max. 50M/min	D10- Ø35
	Bending	Max. 12000 deg/Min	A150*B150 A170*B170 A200*B150
	Cutting	0.8 sec Max.	  
Weight	4500kg		
Pressure	0.6-0.9 Mpa		
Tempture	0-40°		
Rebar Material	SD280/SD420/SD490		
Rebar Size	D10 /single wire/double wire		
	D13/single wire/double wire		
	D16/Single wire		
Rebar DIA. To be processed and combination of fulcrum/power point roller DIA.	Rebar DIA. D13 D10 D16		
Fulcrum Roller DIA	Ø35 Ø39 Ø48		
Minimum wasting Rebar	700mm		
		Min Dimension to be processed	
		MIN. DIMENSION TO BE PROCESSED PER PROCESSING SHAPE IN CASE OF D10	
		MAX. DIMENSION TO BE PROCESSED	9~14M SQUARE 1M*1M
		DISCHARGEABLE REMNANT MATERIAL	700MM~1500MM
		REPEAREED BENDING ACCURACY	PROCESSING DIMENSION ±1.5MM BENDING ANGLE ±1°



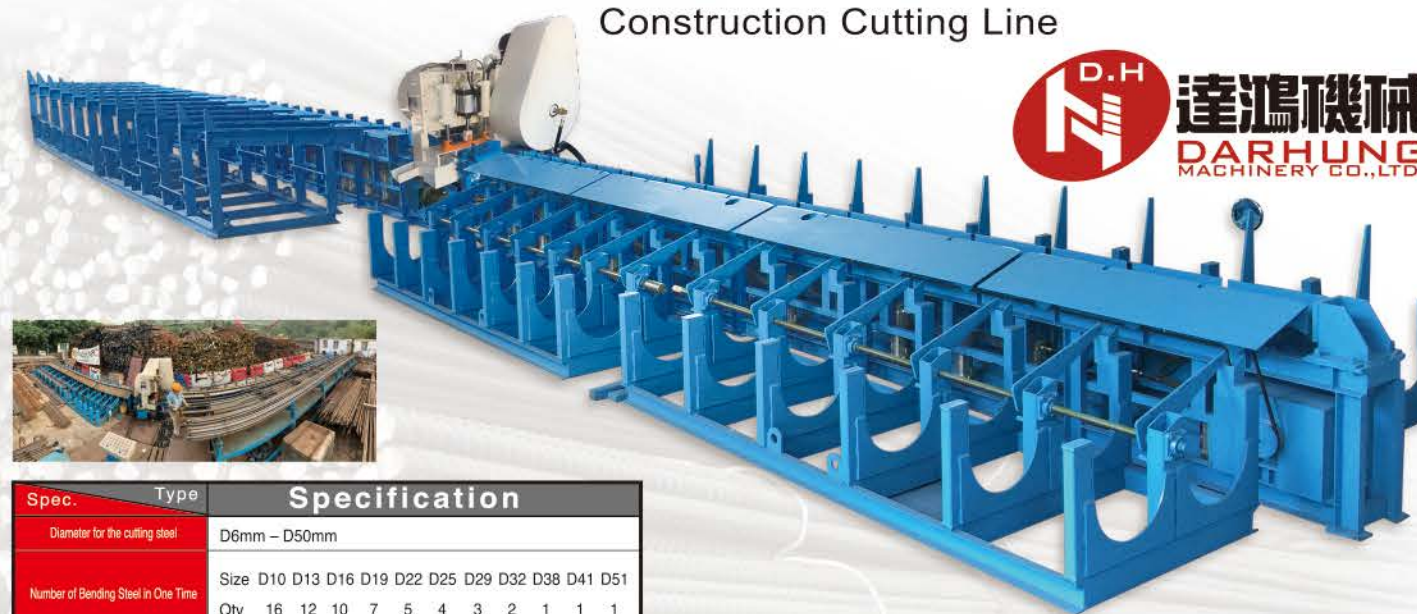
DH8-12 Wire Straightening Machine



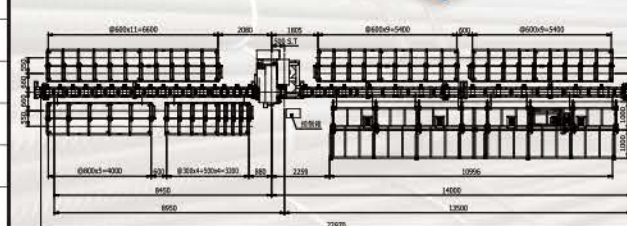
Spec.	Type	DH5-12W	DH5-12Q	DH5-12A
Raw material		Cold drawn, hot rolled, smooth or ribbed wire (yield strength-500N/mm ²)		
Production capacity		Cold rolled wire, wire rod: φ5-φ12mm Hot rolled ribbed wire: φ5-φ10mm		
Feeding speed		Max. 130(m/min)	Max. 130(m/min)	Max. 130(m/min)
Straightening system		Rotor type	Rotor type	Rotor type
Cutting system		Servo-motor	Servo-motor	Servo-motor
Cutting length		800-12,000mm	800-12,000mm	800-12,000mm
Length setup		Manual	Manual	CNC
Straightness tolerance		2 mm/m	2 mm/m	2 mm/m
Length tolerance		±1 mm	±1 mm	±1 mm
Installed power		48kW	49.5kW	53.9kW



Construction Cutting Line



Spec.	Type	Specification
Diameter for the cutting steel		D6mm - D50mm
Number of Bending Steel in One Time		Size D10 D13 D16 D19 D22 D25 D29 D32 D38 D41 D51 Qty 16 12 10 7 5 4 3 2 1 1 1
Cutting Speed		1 cut / 0.5 second
Blade Width		190 x 100 x 30
Conveying Speed		76 m /min
Collecting Pockets nos.		2 * 2
Cutting Length		750mm - 7500mm



DT-20(DT-32) Single Arm Bending Machine

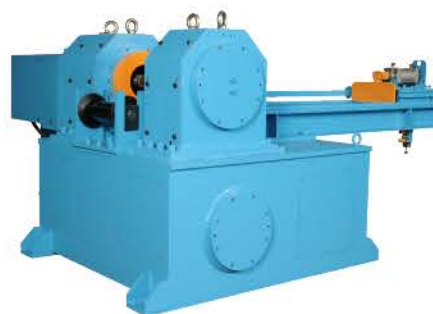


Maximum		
Minimum		

() This is the minimum dimension for the D10 steel space

SD-280

Spec.	Type	DT-20	DT-32
Diameter for the bending steel		SD 3"-4"5"6" D10mm -D19 mm	SD 3"-10" D10mm-D32mm
Number of bending steel in one time		Size D10 D13 D16 D19 Qty 20 15 13 7	Size D10 D13 D16 D19 D22 D25 D32 Qty 24 27 13 11 9 6 5
Maximum bending length		10000mm	10000mm
Bending angle		0° ~ 180°	0° ~ 180° (0° ~ 90°)
Bending direction		Counterclockwise 1 sets(right side)	Counterclockwise 1 sets(right side)
Bending speed		46° /1 second	35° /1 second
Horse power of motor		5.6KWx1Bender / 2.2x2KWConveyer	15KWx1Bender
Power supply		3 phase 220V 60Hz air 6kg/cm ²	3 phase 220V 60Hz air 6kg/cm ²
Machine size (LxWxH)		12380X 2970 X 1420	2340 x 2140 x 1100 (Bender only)
Weight		6350kg	3000kg (Bender only)



DT-BD2-8

Bending Machine with waterproof

Spec.	Type	DT-BD2-8
Diameter for the bending steel		SD D10- D25 mm
Number of Bending Steel in One Time		Size D10 D13 D16 D19 D22 D25 Qty 9 7 5 3 2 1
Bending Angle		0°-180°
The Minimum to the Maximum Bending Length		310-4000 Finishing Length
Patterns of Bending		
Bending direction		Clockwise 1 sets (Left side) Counterclockwise 1 sets (Right side)
Bending Speed		55° /1 Second
Horsepower of Motor		2.2 KW x 5(6) Bend / 2.2KW conveyor
Machine Size (LxWxH)		5000 x 2100 x 1350
Weight		2500Kg



FW SERIES

Friction welding machine

DH-FW30/45/60

· Fully automated production line:
· Increase production
· Reduce manpower

· After welding, the strength is higher than that of the base metal, and suitable for all kinds of connectors continued

· 5 times faster than compared to traditional machine

· With high friction at the contact surface, and No need electrode or extra heating and welding.

· Widely used in infrastructure construction, High-tech factory building, Skyscrapers, etc.

Machine specifications

Machine specifications		DH-FW30	DH-FW45	DH-FW60	
Welding ability	Round rod diameter	Ø9 ~ Ø25	Ø9 ~ Ø36	Ø9 ~ Ø60	
	Pipe Fittings	Ø16	Ø48.3	Ø88.9	
	The Max. length of the rotating side	300mm	300mm	300mm	
	The length of the fixed side	9m	9m	9m	
Maximum thrust	Frictional heating time	8,000 Kg	10,000 Kg	12,000 Kg	
	Forging pressurization	16,000 Kg	20,000 Kg	26,000 Kg	
Spindle	Number of spindle rotation	50Hz	3000 rpm	2250 rpm	
		60Hz	2500 rpm	1780 rpm	
	Clutch	Direction	Oil Actuated Multi-Disc Clutch and Brake		
		Torque	800 (N.m)	800 (N.m)	1600 (N.m)
	Brakes system	Direction	Oil Actuated Multi- plate hydraulic Brake		
		Dynamic torque	800 (N.m)	800 (N.m)	1600 (N.m)
	Braking time		0.3 sec	0.3 sec	0.3 sec
	Spindle fixture		Hydraulic three-jaw 6" / (Hydraulic pressure)	Hydraulic three-jaw 8" / (Hydraulic pressure)	Hydraulic three-jaw 10" / (Hydraulic pressure)
Slide speed	Rapid traverse rate	20 m/min	20 m/min	20 m/min	
	Machine Processing speed	1~1000 mm/min	1~1000 mm/min	1~1000 mm/min	
	The Max. moving distance	150 mm	200 mm	250 mm	
Work piece clamping manner	Vise splint method	Horizontal double-open synchronous fixture			
	Clamping force	8,600 Kg	17,000 Kg	25,000 Kg	
Processing methods	Size adjustment	0 ~ 100 mm	0 ~ 100 mm	0 ~ 100 mm	
	Time adjustment	0 ~ 999 s	0 ~ 999 s	0 ~ 999 s	
Motor power	Spindle	22 kw	30 kw	37 kw	
	Hydraulic pressure	5 kw	9 kw	9 kw	
	Servo motors	7 kw	9 kw	11 kw	
	Hydraulic oil temperature cooling system	1.5T / 1.1 Kw	2T / 2 Kw	2T / 2 Kw	
Dimension	Machine Dimensions	2750 x 2800 x 2000	2750 x 3100 x 2000	2750 x 3400 x 2000	
	Machine weight	6,000 Kg	6,800 Kg	7,300 Kg	



Collet Chuck



Power Chuck

FW series advantages

- 01 Using the latest servo drive, shift more accurate
- 02 Freedom of movement and can quickly shift speed
- 03 Full touch panel can be flexible modifier, the degree of freedom
- 04 Fully automated production, increase production, reduce manpower
- 05 Using the famous brand parts of best countries, Accuracy is more accurate
- 06 5 times faster than compared to traditional machine
- 07 Does not affect the oil temperature
- 08 Friction welding with Automatic cutting device



▲ Full touch panel control system



▲ Servo motor



▲ Electromagnetic Clutch



▲ Oil Actuated Multi-plate hydraulic brake

FW series

Improve the two major shortcomings of previous welding:

[Splashes]

When scattering of arc welding gas and electricity fine particles.

They cause defects in the coating and adversely affect the quality. In the welding, it is often seen that a large amount of spatter scatters, which weakens the pressure of the electrode and causes poor welding quality.

[Smoke]

Metal vapors that occur during the welding process and condense into fine particles.

Prolonged inhalation of smoke can cause symptoms called metal fume fever. Other symptoms include coughing, chest tightness, thirst, and fever, which can sometimes cause pulmonary edema.

Welding process

1. Positioning the work pieces on both sides, clamping the work piece with the slide table, and starting friction welding
2. After the welding is completed, the fixture is released and the work piece is removed.
3. High-speed rotation on both sides of the pressure, so that the two parts are closely integrated

Pull test

Using the CNC system to generate heat energy from frictional motion. The axial pressure applied in the hot state under vacuum resumed plastic composite connectors and steel base metal.

Internal molecular structure after the friction welding fully incorporated flask complete.

Subsequent joint strength is better than that of the base metal, and the tensile test completely breaks the ribs.

Retain the original joint material toughness, strength, without affecting the original material properties, which can effectively transfer stress

Ten sets of SD420W weldable steel bars were used to perform 5A-grade tensile tests. The test results were all higher than the specifications.

▲ Activity jaws
Replaceable jaws

▲ Reinforced splicer