

ONKIN MACHINE

Reinforcing bar and mesh processing machine (general)



ONKIN
KIKAI CO.,LTD.

OKC

A Popular Series of Light Weight and Compact Models for Easy Operation, Relocation, and Installation.

Features

- Compact size and light weight allow easy relocation and transportation.
- Major components are made of special steel to ensure high wear resistance.
- All turning sections are protected by a cover for maximum safety.
- The hand-operated pump facilitates lubrication, saving maintenance.(OKC-48,OKC-52N,OKC-55,OKC-60)



OKC-32/42

A compact, low cost type for easy installation in a limited space and reduced labor requirements.



OKC-48

A wide cutter type for simultaneous cutting operation. A base is attached as standard equipment and a motor is incorporated in the machine.

● Number of simultaneously cut work pieces

for SD345 or the equivalent

for SD345 / SD390 / SD490 or the equivalent

Model	Diameter of bar											
	D10	D13	D16	D19	D22	D25	D29	D32	D35	D38	D41	D51
OKC-32	7	5	3	2/2/1	1/1/1	1/1/0	1/0/0					
OKC-42	9	6	5	3/3/2	2/2/2	2/1/1	1/1/1	1/1/0	1/0/0			
OKC-48	12	10	7	5/4/4	4/3/3	3/2/2	2/2/1	2/1/1	1/1/1	1/1/0	1/0/0	
OKC-52N	16	12	10	7/6/5	5/4/4	4/3/3	3/2/2	2/2/1	1/1/1	1/1/1	1/1/0	
OKC-55	12	10	8	7/6/5	5/4/4	4/3/3	3/2/2	2/2/1	2/1/1	※1/1/1	※1/1/1	※1/0/0
OKC-60	19	15	12	9/9/9	7/7/6	6/5/5	5/4/3	4/3/3	3/3/2	2/2/2	2/2/1	1/1/1
OKC-600	25	19	15	12/12/10	10/9/8	8/7/6	5/4/3	4/3/3	3/3/2	2/2/2		

Items marked with an asterisk (※) must have the top cutter replaced for thick steel bars.

We are pleased to fabricate reverse-type machines (with the movable blade arranged on the right side and the fixed blade on the left side) according to the installation sites.



OKC-52N

The wide blade width of 200mm allows many cuttings to be performed at the same time. The stand is attached as standard equipment.



OKC-55

A high power type for a maximum cutting diameter of 51mm (for SD345 or the equivalent).



OKC-600

The most powerful type in the series with a cutter width of 320mm.

● Specifications

Element	Model	OKC-32	OKC-42	OKC-48	OKC-52N	OKC-55	OKC-60	OKC-600
Motor	(KW)	1.5	2.2	2.2	5.5	3.7	5.5	5.5
Number of strokes	50Hz(spm)	47	35	34.6	22	26.5	26	29.6
	60Hz(spm)	56	42	41.5	27	32	31	36
strokes	(mm)	38	44	50	60	48	62	54
Machine dimensions	Height(mm)	950	1030	1360	1329	1260	1530	1735
	Width(mm)	440	520	700	635	676	854	894
	Length(mm)	620	704	900	1036	1010	1330	1530
Height of auxiliary plate								
Height of bending	(mm)	330	365	790	790	434	840	840
Cutting blade width	(mm)	85	100	150	200	165	230	320
Machine weight	(kg)	440	600	1000	1440	1440	3000	4000

OKB

The sliding-type bending angle-setting component provides one-touch simple setting of bending angles.

Features

- Three kinds of bending angles can be changed over by one-touch lever operation.
- Quiet operation, workability, and safety are enhanced without the use of touch pins or dividing plates.
- The adoption of oil bath reduction gears and an incorporated clutch reduces noise level and improves durability.
- It can be operated remotely by a foot switch.



OKB-130A

A compact type for steel bars with a maximum diameter of 13mm.

OKB-16A

A high cost performance type for steel bars with a maximum diameter of 16mm.

OKB-25A

A large-diameter roller (optional) for steel bars with a maximum diameter of 25mm.

● Number of work pieces that can be bent at the same time.

for SD345 or the equivalent

Diameter of bar \ Model	D10	D13	D16	D19	D22	D25	D29	D32	D35	D38	D41	D51
OKB-130A	5	3										
OKB-16A	5	3	1									
OKB-25A	5	4	2	1	1	1						

for SD345 / SD390 / SD490 or the equivalent

OKB-32A			3/3/3	2/2/2	1/1/1	1/1/1	1/1/0	1/0/0				
OKB-42A						2/2/1	1/1/1	1/1/1	1/1/0	1/0/0		
OKB-52A								2/2/1	1/1/1	1/1/1	1/1/1	1/0/0
OKB-55A						2/2/2	2/2/2	2/2/2	1/1/1	1/1/1	1/1/1	1/1/1



OKB-32/42A

A variety of large-diameter roller (optional) for thick steel bars.



OKB-52A

The bender is suitable for large work pieces.



OKB-55A

● Specifications (For both the OKB and OKB-DA)

Model		OKB-130A	OKB-16A	OKB-25A	OKB-32A	OKB-42A	OKB-52A	OKB-55A
Element								
Motor	(KW)	1.5	1.5	1.5	2.2	3.7	5.5	7.5
180° bending time	Low speed at 50Hz (seconds)	3.6	3.6	5.4	9.6	12	23	27
	High speed at 50Hz (seconds)			4.2	6	6.8	12	16
	Low speed at 60Hz (seconds)	3	3	4.5	8	10	19	22
	High speed at 60Hz (seconds)			3.5	5	5.7	10	13
Machine dimensions (a)	Height(mm)	850	870	870	860	880	960	1030
	Width(mm)	590(680)	590(680)	670(790)	770	870(1020)	1105	1230
	Length(mm)	640	640	670	840(960)	850	1100(1250)	1200(1350)
Height of auxiliary plate (mm)		780	765	750	740	740	875	875
Machine weight (kg)		240	240	330	420	670	1270	1750
Central pin		φ 30	φ 36	φ 36	φ 40	φ 50	φ 75	φ 75
Standard central roller		φ 38	-	φ 44,53,63 φ 73,98	φ 53,64,73 φ 98,125	φ 64,84,98 φ 125,148	φ 128,138,153 φ 168,198	φ 142,166,184 φ 200,218,236,296
Optional accessory		Auxiliary plate Legth fixing component	Auxiliary plate Legth fixing component	Large-radius bender Large-radius roller φ 250,300 400,500	Large-radius bender Large-radius roller φ 250,300 400,500,600	Large-radius bender Large-radius roller φ 250,300 400,500,600	Large-radius bender Large-radius roller φ 300,500,700 800,1000	Large-radius bender Large-radius roller φ 300,500,700 800,1000

(a) () is the dimension that contains the hanging hook.
Center roller is not in the table is sold separately.

OKB-DA

Digitally indicated five-process automatic stepping provides simple setting of bend angles.

(Any OKB model can be equipped with an automatic five-process stepping angle setting component.)

Features

- Angle can be set easily. (Numbers down to the first decimal place are accepted)
- The set and current angles are digitally shown.
- The bending mode is selectable between automatic operation and independent operation.
- The angle at the current position can be checked by moving the bending arm.
- The motor is quiet because it comes to rest when no bending is performed.



OKB-130DA



Angle setting component

Model

- OKB-130DA
- OKB-16DA
- OKB-25DA
- OKB-32DA
- OKB-42DA
- OKB-52DA
- OKB-55DA



OKB-52DA

※ Specifications OKB and OKB-DA are the same.

OKB-DAG

Grid bending

Grid bending bar D16



● Number of work pieces that can be bent at the same time. (for SD345 or the equivalent)

Model	Diameter of bar									
	D10	D13	D16	D19	D22	D25	D29	D32	D35	D38
OKB-25DA-G	3	2	2	1	1	1				
OKB-32DA-G	5	3	3	2	1	1	1	1		
OKB-42DA-G	5	3	3	2	2	2	1	1	1	1

● Specifications

Model		OKB-25DA-G	OKB-32DA-G	OKB-42DA-G
Element				
Motor	(KW)	1.5	2.2	3.7
180° bending time	Low speed at 50Hz (seconds)	5.4	9.6	12
	High speed at 50Hz (seconds)	4.2	6	6.8
	Low speed at 60Hz (seconds)	4.5	8	10
	High speed at 60Hz (seconds)	3.5	5	5.7
Machine dimensions (a)	Height(mm)	867	882	886
	Width(mm)	735	890	850(970)
	Length(mm)	670(790)	760(880)	870
Height of auxiliary plate (mm)		816	811	814
Machine weight (kg)		340	470	650
Bending roller		φ 33,φ 38,φ 43	φ 50,φ 64	φ 50,φ 64,φ 88
Central pin		φ 18,φ 30,φ 36,φ 40	φ 30,φ 40	φ 30,φ 40,φ 50
Standard central roller		φ 30,φ 33,φ 38,φ 47,φ 57,φ 62,φ 76	φ 53,φ 64,φ 73,φ 98,φ 125	φ 64,φ 84,φ 98,φ 125,φ 148

(a) () is the dimension that contains the hanging hook.

Bending roller, center pin, center roller are not in the table is sold separately.

OKR

Circular Bar Bender which Excels in Quality and Cost Performance.

Features

- Uniform circular bending.
- Winding diameter can be freely adjusted.
- The adoption of oil bath reduction gears leads to low noise and high durability.



OKR-22



OKR-32

A compact type for bending of up to D22.
(for SD345 or the equivalent)

Low-end machine that can work on up to D32.
(for SD345 or the equivalent)

Specifications

for SD345 or the equivalent

Element	Model	OKR-22	OKR-32
Capacity		D22	D32
Motor	(KW)	1.5	2.2
Number of revolutions of the main roll	Low speed at 50Hz (rpm)	23.0	9.2
	High speed at 50Hz (rpm)		14.6
	Low speed at 60Hz (rpm)	27.5	11.0
	High speed at 60Hz (rpm)		17.6
Diameter of the main roll		φ 125, Options φ 80	φ 245
Machine dimensions	Height(mm)	860	910
	Width(mm)	720	840
	Length(mm)	760	850
Height of auxiliary plate	(mm)	765	795
Machine weight	(kg)	210	450
Motor activation /deactivation method		Pushbutton Normal/halt/reverse	Pushbutton Normal/halt/reverse

Minimum bending diameter (Inner diameter) (mm)

Model	Material	Diameter of bar							
		D10	D13	D16	D19	D22	D25	D29	D32
OKR-22	SD345	150	200	200	250	250			
	SD390	150	200	200	250	300			
	SD490	150	200	200	250				
OKR-32	SD345	330	330	350	350	400	500	600	800
	SD390	330	330	350	350	400	500	700	1000
	SD490	330	330	350	350	400	500	800	

※ This is a guideline, there is a case that is a little different from the actual dimensions.

OKR-HC

(Utility model right #3061575)

Features

- Uniform and atable U bending.
- Rounding can be set accurately and easily.
- The sub roller position can be digitally displayed.
- A steel bar can be removed easily.
- The adoption of reduction gears allows speed adjustment.

The hydraulic cylinder provides uniform radius,elbow,and U-shape bending.



OKR-52HC



OKR-32HC

● Specifications for SD345 or the equivalent

Element		Model	OKR-32HC	OKR-52HC
Number of revolutions of the main roll	Low speed at 50Hz (seconds)		10.4	8.31
	High speed at 50Hz (seconds)		16.7	14.29
	Low speed at 60Hz (seconds)		12.5	9.97
	High speed at 60Hz (seconds)		20	17.14
Motor	(KW)		2.2	5.5
Hydraulic pump motor	(KW)		0.3	0.75
Machine dimensions	Height(mm)		910	916
	Width(mm)		850	1400
	Length(mm)		990	1400
Height of auxiliary plate	(mm)		795	798
Machine weight	(kg)		520	1800

※ This is a guideline, there is a case that is a little different from the actual dimensions.

● Minimum bending diameter (Inner diameter) (mm)

Model	Material	Diameter of bar											
		D10	D13	D16	D19	D22	D25	D29	D32	D35	D38	D41	D51
OKR-32HC	SD345	330	330	350	350	400	500	600	800				
	SD390	330	330	350	350	400	500	700	1000				
	SD490	330	330	350	350	400	500	800					
OKR-45HC	SD345					1200	1200	1200	1200	1200	1200	1500	
	SD390					1200	1200	1200	1200	1200	1400	1700	
	SD490					1200	1200	1200	1200	1200	1500		
OKR-52HC	SD345								1500	1600	1600	1700	2000
	SD390								1500	1600	1600	1700	2200
	SD490								1500	1600	1600	1700	

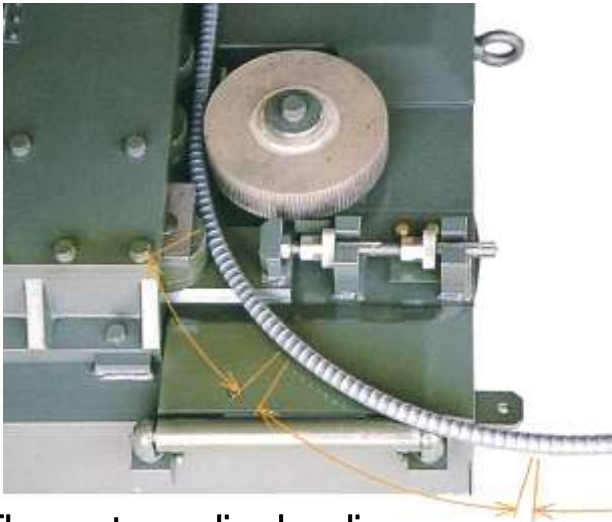
OKR-HC III

(Patent #3494914)

This model supports continuous bending for three different radiuses.

Features

- One steel bar can be bent continuously with three different radiuses (arc lengths).
- The stop position of the sub roller (bending side) can be changed with ease and reliability to the bending position for the large radius, middle radius, or small radius by inserting and extracting the U-shaped washer.
- To support different arc lengths, an automatic stepping mechanism is implemented by using three revolution timers.
- The revolution duration for the main roller can be set without restraint.



Three-step radius bending

To perform bending of three different radii, the three different special nuts for the bending radius adjustment and a U-shaped washer are used to adjust the positions.



Radius Adjuster

The selection switch is used to select one-, two-, or three-step bending. The bending position can be adjusted with a special nuts for bending radius adjustment, which is shown on the digital counter.

Digital timer

Timer for driving the main roller

The digital timer can be used to set times for controlling feed times for radius and U-shape bending.

Digital counter

Indication of the sub roller position

The digital counter digitally indicates the position of the sub roller at the exit, facilitating the bending radius setting.



OKR-32HC III

The model supports large-radius bending, elbow bending, U-shape bending, and three-step bending based on data. In addition, the timer accepts settings in step of 0.1 seconds for more accurate bending.



OKR-45HC III

This type is suitable for large-radius, elbow, U-shape, and three-step bending for large work pieces.

● Specifications

for SD345 or the equivalent

Model		OKR-32HC III	OKR-45HC III
Element			
Capacity		D32	D41
Motor	(KW)	2.2	3.7
Hydraulic pump motor	(KW)	0.3	1.5
Number of revolutions of the main roll	Low speed at 50Hz(rpm)	10.4	8.2
	High speed at 50Hz(rpm)	16.7	14.1
	Low speed at 60Hz (rpm)	12.5	9.8
	High speed at 60Hz(rpm)	20.0	16.9
Diameter of the main roll		φ 245	φ 267
Machine dimensions	Height(mm)	910	968
	Width(mm)	850	1152
	Length(mm)	990	1356
Height of auxiliary plate (mm)		795	796
Machine weight (kg)		520	1150
Motor activation/deactivation method		Push button ON/OFF Foot switch ON/OFF Timer	Push button ON/OFF Foot switch ON/OFF Timer

※ This is a guideline, there is a case that is a little different from the actual dimensions.

● Minimum bending diameter (Inner diameter) (mm)

Model	Diameter of bar 材質	D10	D13	D16	D19	D22	D25	D29	D32	D35	D38	D41
		OKR-32HC III	SD345	1150	1100	1000	1000	1000	1000	1000	1000	
SD390	1150		1100	1000	1000	1000	1000	1000	1000			
SD490	1150		1100	1000	1000	1000	1000	1000				
OKR-45HC III	SD345						1200	1200	1200	1200	1200	1500
	SD390						1200	1200	1200	1200	1400	1700
	SD490						1200	1200	1200	1200	1500	

OKMB

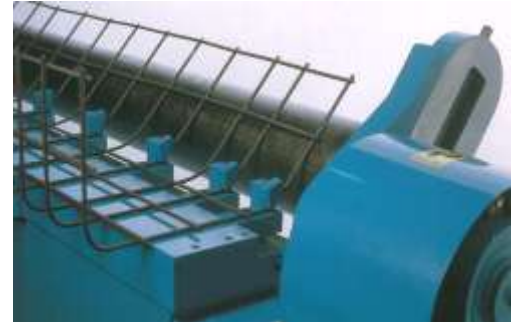
Advanced series that can save labors in meshing.

Features

- The angle setting component can be used to set any bending angle between 10° and 180° .
- The bending angle is selectable among three angles for the sliding methods or five angles for the digital method.
- The support block pitch is freely adjustable according to the mesh width.
It should be noted, however, that the minimum pitch is limited depending on the model and/or steel bar diameter.
- Any bending radius supported by replacing the support block and adjusting the bending roller.
- A negative-phase prevention component is provided to protect the machine.

Sliding-type model with high cost performance.
The bending angle for steelbars is selectable among three different angles.

With one-touch operation of the lever, the bending angle can be changed to any of three different angles.
The model provides both accurate and speedy meshing and high cost performance.



The photo shows the OKMB-13 × 4000.

OKMB-DAC

Digitally indicated five-process automatic stepping provides simple setting of bend angles.

Features

- Angles can be set easily.
- The bending mode is selectable between automatic operation and independent operation.
- Five kinds of bending angles can be changed.



Angle setting component

Specifications

(OKMB and OKMB-DAC are the same)

Model		OKMB-	OKMB-	OKMB-	OKMB-	OKMB-	OKMB-	
		13 × 2000	13 × 4000	16 × 2000	16 × 4000	17 × 2000	17 × 4000	
Element	Capacity (bars)	D10	23	40	23	45	23	45
	(for SD345 or the equivalent)	D13	20	20	23	25	23	35
		D16	/		15	15	20	20
Motor	(KW)	3.7	3.7	5.5	5.5	5.5	5.5	
Bending speed(a)	(seconds)	7	7	8	8	10	10	
Valid bending widths	(mm)	2000	4000	2000	4000	2000	4000	
Machine dimensions	Height(mm)	970	970	970	970	1050	1050	
	Width(mm)	3300	5300	3300	5300	3400	5400	
	Length(mm)	900	900	900	900	900	900	
Height of auxiliary plate	(mm)	820	820	820	820	820	820	
Machine weight	(kg)	1800	2400	2200	2800	2700	3700	

(a) Time to return to the home from operation start bending. (up to 90°) (Include the stop time of 1 second)

The specifications may slightly vary depending on the type, etc.

We fabricate a variety of machines not mentioned above. Please feel free to contact us.

OKMB-GA

Possible upward bending,
and downward bending



Features

- Upward bending (up to 180°) and downward bending (up to 45°) can be processed.
- Five steps can be set on the touch panel, 100 pattern can be registered.
- By replacing the bending roller to change the diameter, fine adjustment of the bending angle of each one steel bar can be.



Bending roller and
Fulcrum block



Operation panel

● Specification for SD345 or the equivalent

Element	Model	OKMB13 × 4600GA
Capacity		D13 × 25bars
Motor	(KW)	5.5
Valid bending widths	(mm)	4000
Machine dimensions	Height(mm)	1080
	Width(mm)	5750
	Length(mm)	1035
Height of auxiliary plate	(mm)	850
Machine weight	(kg)	5000
bending angle	upward	0.1° ~ 180°
	downward	0.1° ~ 45°



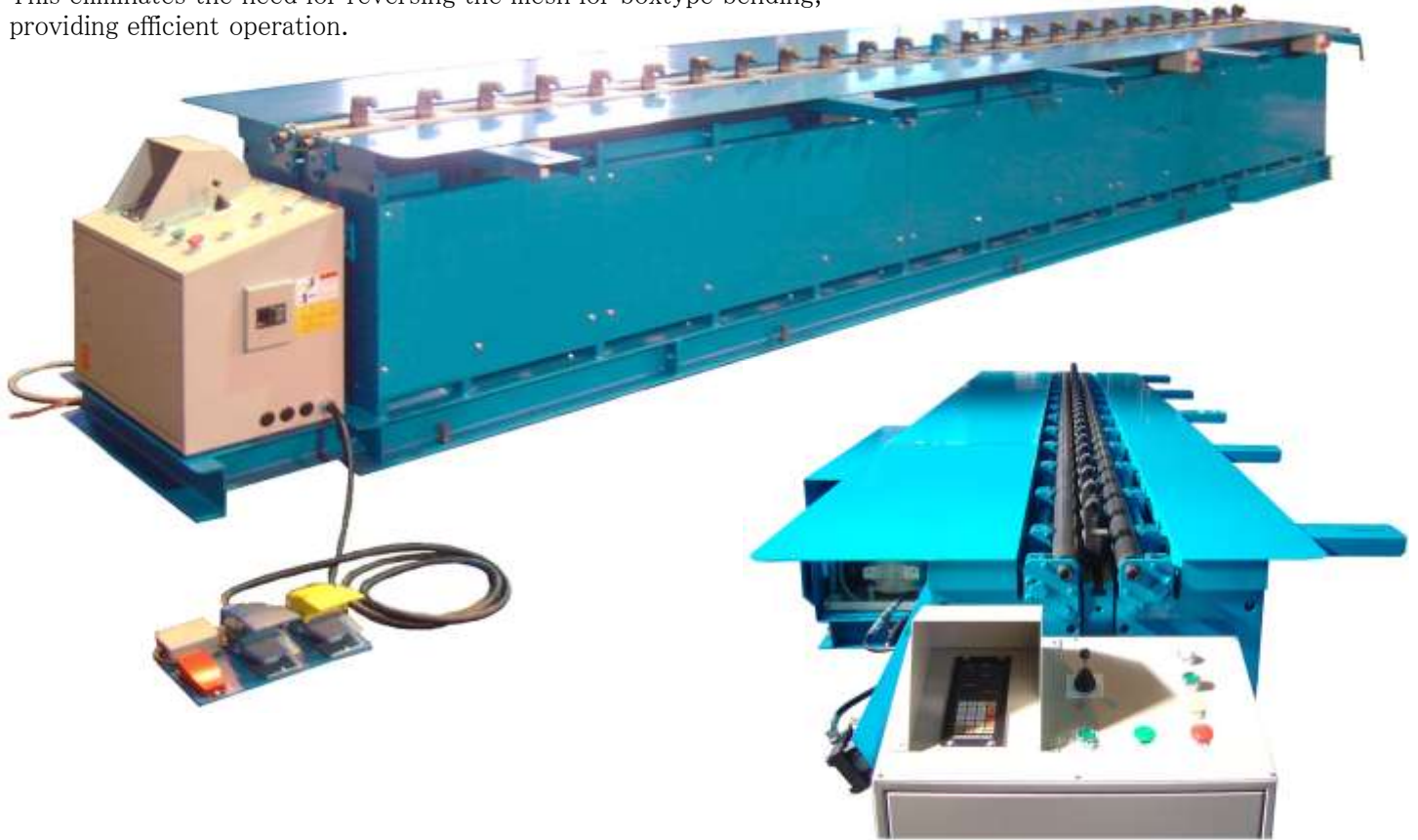
We fabricate a variety of machines not mentioned above. Please feel free to contact us.

OKMB-P,PU

Pull-in mesh bender

The bending angle for steel bars is selectable among five different angles.

The horizontal bar is positioned at the center of the arc.
This eliminates the need for reversing the mesh for boxtype bending,
providing efficient operation.



● Specifications

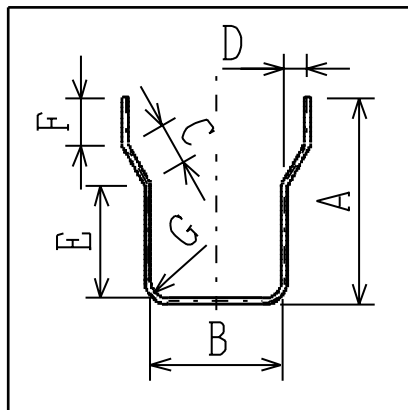
for SD345 or the equivalent

Element	Model	OKMB13 × 4000PU	OKMB13 × 5000PU
Capacity		D13 × 25bars	D13 × 25bars
Valid bending widths	(mm)	4000	5000
Hydraulic pump motor	(KW)	5.5	5.5
Machine dimensions	Height(mm)	840	840
	Width(mm)	4910	5710
	Length(mm)	1455	1455
Machine weight	(kg)	3800	5600
bending angle		1° ~ 180° The angle is digitally indicated. (Automatic five-process stepping)	
How to perform bending		Foot switch or push button	

We fabricate a variety of machines not mentioned above. Please feel free to contact us.

OKMB-HS

Haunch mesh bender
Radius bending and haunch bending are integrated into one model.



● Minimum and maximum bending

A	425mm~1500mm	E	250mm~
B	300mm~1500mm	F	100mm~150mm
C	75mm~150mm	G	R40~R90
D	40mm~80mm		

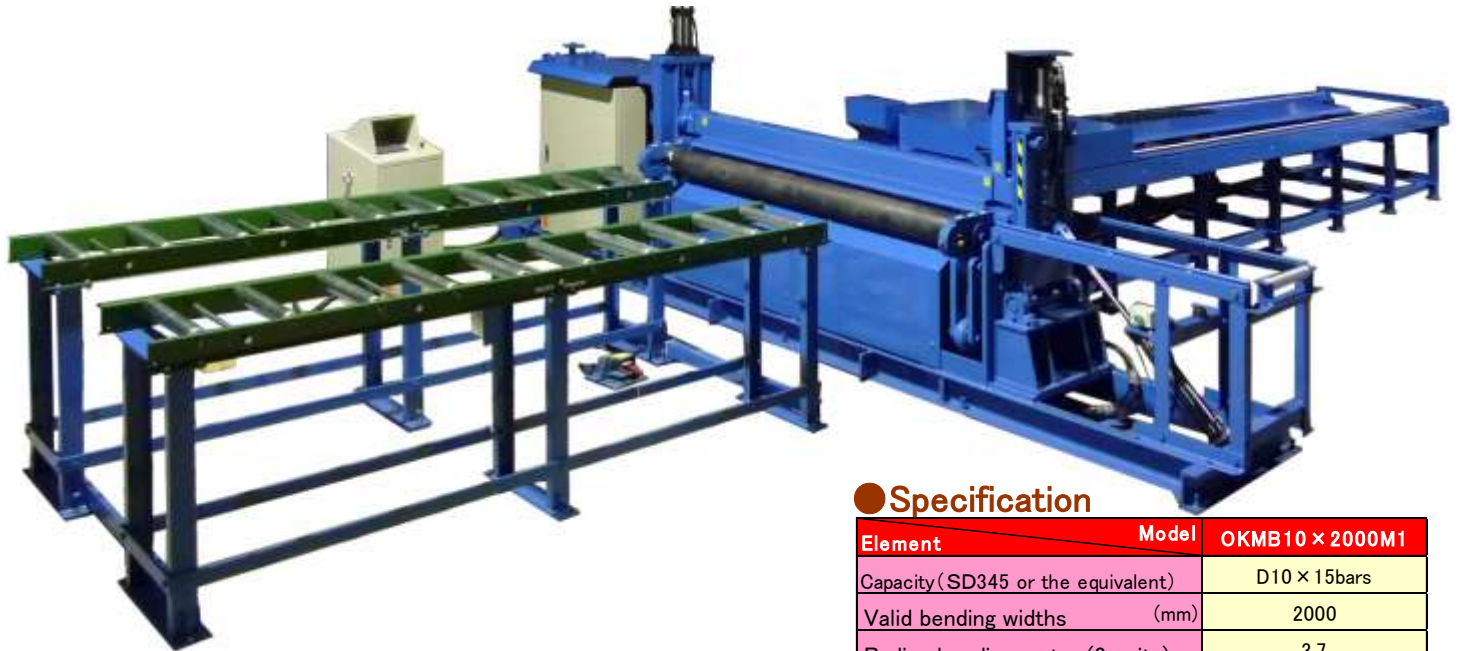
● Specification for SD345 or the equivalent

Element	Model	OKMB13 × 2500HS
Capacity		D13 × 25bars
Valid bending widths	(mm)	2300
Mesh bending motor		3.7
Hydraulic pump motor		3.7
Bump moving motor	(KW)	0.4
Machine dimensions	Height(mm)	1310
	Width(mm)	4000
	Length(mm)	3010
Machine weight	(kg)	4800
How to perform bending		Foot switch or push button

We fabricate a variety of machines not mentioned above. Please feel free to contact us.

OKMB-M1

The two arms strongly promote labor saving.
Cutting-edge mesh bender with excellent extensibility.



Features

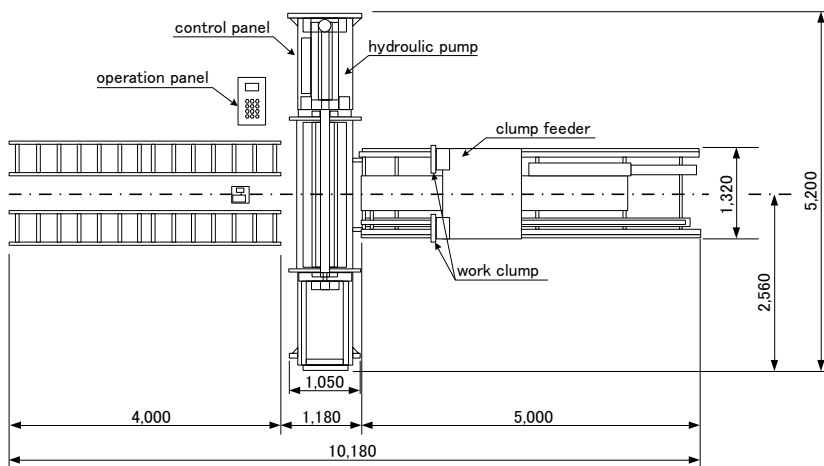
- Each of the two arms independently operates, speeding up the operation remarkably
- Most of the processes are automated.
- The operation is not affected by the mesh pitch.
- The model allows easy settings of bending sizes, angles patterns, steel bar diameters, and others through the touch panel monitor, providing accurate bending.
- A work piece set on the bender is automatically rotated and when bending is finished, the frame opens – only one operator is required.

Specification

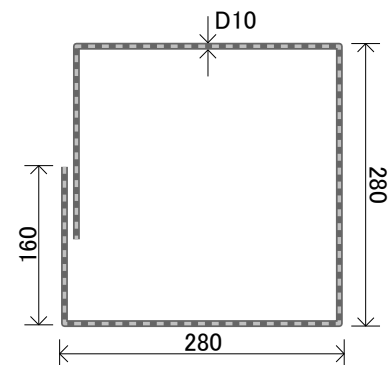
Element	Model	OKMB10 × 2000M1
Capacity (SD345 or the equivalent)		D10 × 15bars
Valid bending widths (mm)		2000
Radius bending motor (2 units)		3.7
Hydraulic pump motor		3.7
Clamp component moving motor (kW)		0.75
Bending speed (a) (50Hz) (seconds)		9
(up to 90°) (60Hz) (seconds)		8
Feed rate (m/minute)		18
Machine dimensions	Height(mm)	1600
	Width(mm)	5200
	Length(mm)	10180
Machine weight (kg)		5900
How to perform bending		Foot switch or push button

(a) Time to return to the home from operation start bending.
(Include the stop time of 3 seconds)

Plan view



Minimum bending dimension (mm)



We fabricate a variety of machines not mentioned above.
Please feel free to contact us.

OKTC



Features

- It is possible to reuse scrap and reduce material costs.
- Supply of material, cutting, discharge fully automatic.
- The cleavable uniform length in the material of uneven length.
- The touch panel set in the required number of cutting.

● Specification

for SD345 or the equivalent

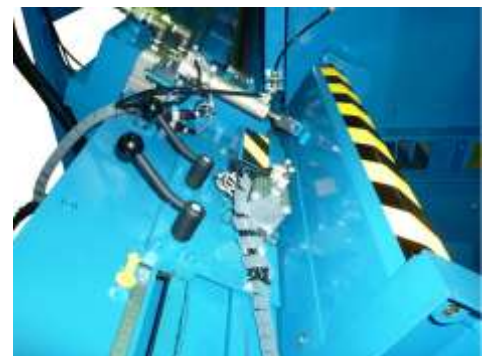
Element	Model	OKTC-2000
Material size		D10、D13(400~2000mm)
Cutting dimension	(mm)	80~600
Hydraulic pump motor	(KW)	2.2
Machine dimensions (a)	Height(mm)	1605
	Width(mm)	3920(4970)
	Length(mm)	1725
Machine weight (a)	(kg)	1900(2030)
Material feed rate		500mm/s
Speed when cutting with 600mm material 2000mm (Time until the next feed from the supply of the material)		18 second per 1 bar
Machine operating method		Centralized control panel system (Cutting dimensions manual butting)

(a) () is the value including bucket and rail.

We fabricate a variety of machines not mentioned above.
Please feel free to contact us.



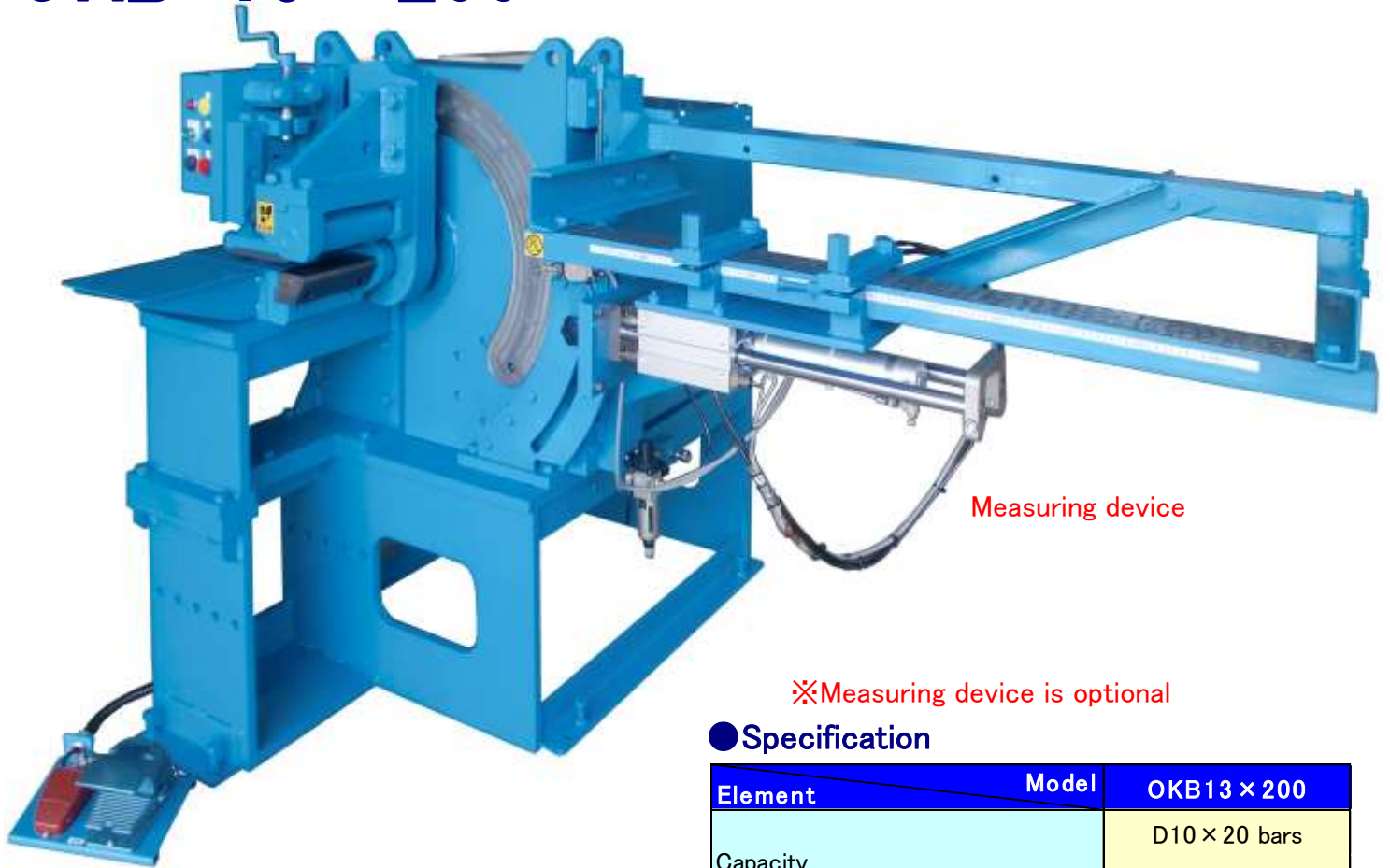
Material supply unit



Positioning the cutting unit

OKB-13 × 200

Ideal for end processing of the certain length bar.
Bending up to 20 bars are possible in D10.



Measuring device

※Measuring device is optional

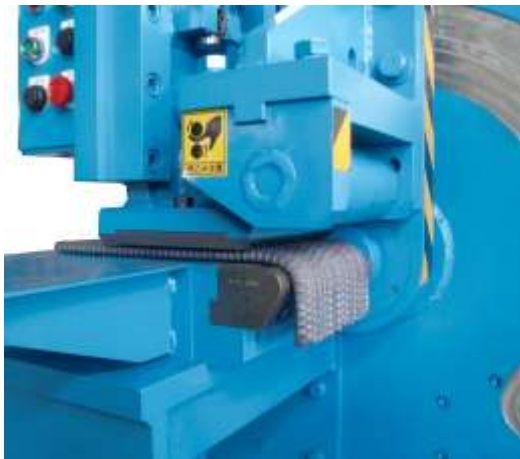
● Specification

Element	Model	OKB13 × 200
Capacity (for SD345 or the equivalent)		D10 × 20 bars
		D13 × 15 bars
		D16 × 8 bars
Maximum bending angle		90° downward
Processing minimum claw size (mm)		100
Processing maximum claw size (mm)		900
Included fulcrum block		R10、R14、R18
Height of auxiliary plate (mm)		210
Motor (kW)		3.7
Bending speed (a) (seconds)		8
Machine dimensions	Height(mm)	1466
	Width(mm)	2042
	Length(mm)	1682
Machine weight (kg)		1500
Machine operationg method		Foot switch or push button

Features

- Possible to bend at the same time a large number of bar.
- Because bending arm is supported by one side, putting in and out of the material is easy.
- Abutting retracts automatically.

※Air compressor(0.4kW about) is required for operation, but the consumption is small, can be distributed from other equipment, please contact us to discuss the case.



(a) Time to return to the home from operation start bending. (up to 90°) (Include the stop time of 1 second)

We fabricate a variety of machines not mentioned above.
Please feel free to contact us.

List of products handled

Mesh bender	OKMB-10~22 × 2000~5500	OKMB-DAC	OKMB-P,PU	OKMB-GA		
	OKMB-M1	OKMB-HS				
Bar Cutter	OKC-32	OKC-42	OKC-48	OKC-52N	OKC-55	OKC-60
	OKC-600					
Full automatic short cutting machine	OKTC-2000					
Bar Bender	OKB-130A	OKB-16A	OKB-25A	OKB-32A	OKB-42A	OKB-52A
	OKB-55A					
	OKB-130DA	OKB-16DA	OKB-25DA	OKB-32DA	OKB-42DA	OKB-52DA
	OKB-55DA	OKB-13x200				
R-Bar Bender	OKR-22	OKR-32				
	OKR-32HC	OKR-52HC				
	OKR-32HCⅢ	OKR-45HCⅢ				
Other	Variety of labor saving machines					



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Agents

※The specifications are subject to change without prior notice for product improvement.