

# TOYO'S POWER

Rebar Processing Machines

▼Web Page



## ! CAUTIONS

- ◆ Install the machine indoors where no explosive, inflammable or corrosive gases exist nearby.
- ◆ Install and operate the machine according to operation manual.
- ◆ Do not modify the machine by yourselves.
- ◆ Mishandling may cause a serious accident. Use the machine according to operation manual.
- ◆ Maintenance and inspection should be done periodically. Operation without maintenance and inspection may cause a serious accident (mechanical damage, etc.).  
Make sure to carry out maintenance and inspection described in operation manual.
- ◆ The contents of this brochure are subject to change without notice.

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ST 19-12-015 E



**TOYO KENSETSU KOHKI CO., LTD.**  
OSAKA, JAPAN SINCE 1933



**NEW**

Automatic Rebar Cutting Machine

# **FORTIS** *series*

## **New Force for the Next Generation**

“Further Productivity Enhancement”  
drives TOYO Technology.

**TFC-300SS**



AUTOMATIC REBAR CUTTING MACHINE

TFC-300SS

D10-D51

Cut

FORTISseries

Multi-functional and high-spec series of cutting machines have been released.

Setting on touch screen

Dimension

Combination

Cutting blade width  
**TFC-300SS**  
**300mm**

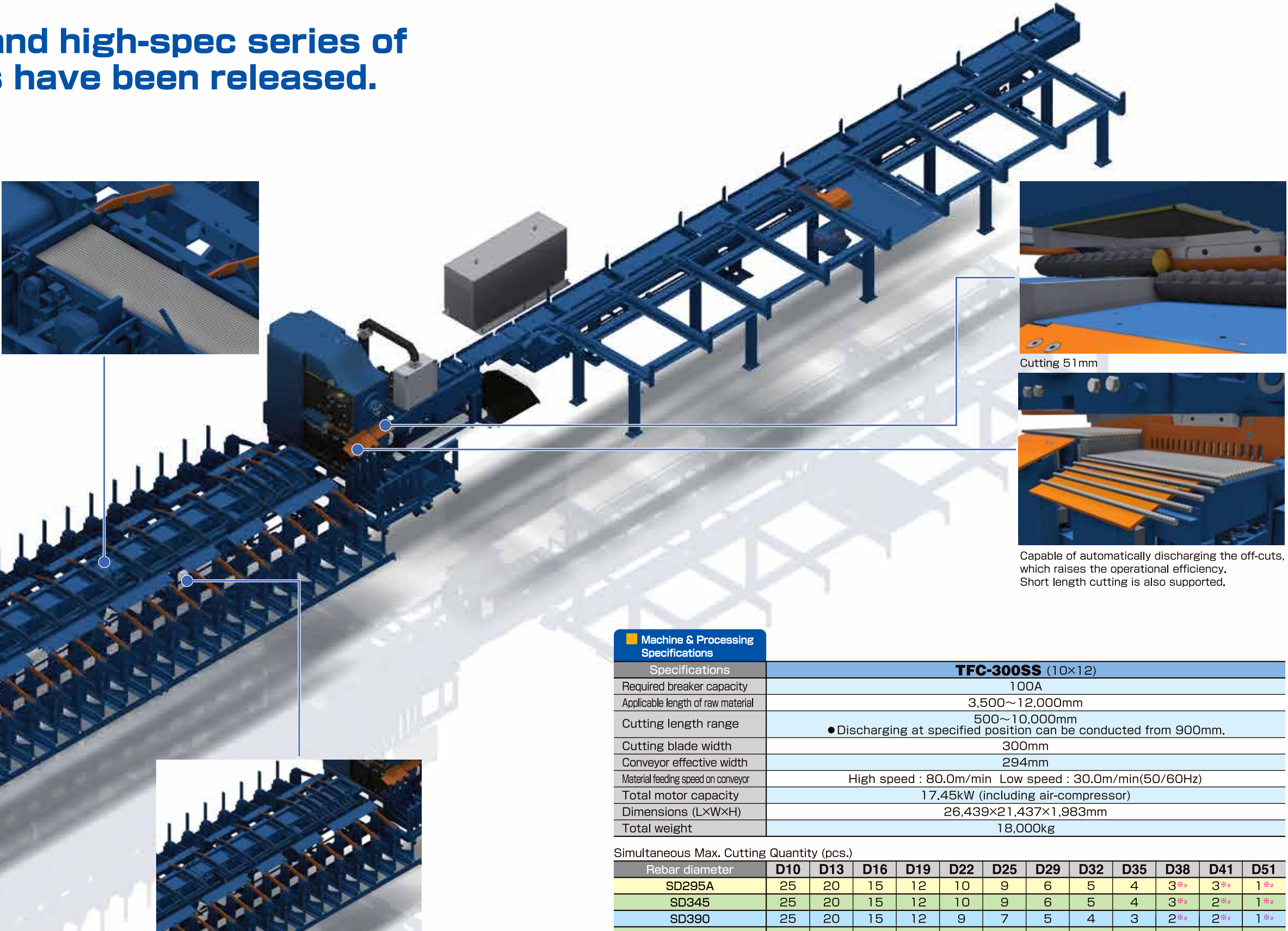
Pictograms raise up the operability.

Initial screen

Operator setting screen

Manual screen

Processing screen



Capable of automatically discharging the off-cuts, which raises the operational efficiency. Short length cutting is also supported.

Machine & Processing Specifications	
Specifications	TFC-300SS (10×12)
Required breaker capacity	100A
Applicable length of raw material	3,500~12,000mm
Cutting length range	500~10,000mm ●Discharging at specified position can be conducted from 900mm.
Cutting blade width	300mm
Conveyor effective width	294mm
Material feeding speed on conveyor	High speed : 80.0m/min Low speed : 30.0m/min(50/60Hz)
Total motor capacity	17.45kW (including air-compressor)
Dimensions (L×W×H)	26,439×21,437×1,983mm
Total weight	18,000kg

Rebar diameter	D10	D13	D16	D19	D22	D25	D29	D32	D35	D38	D41	D51
SD295A	25	20	15	12	10	9	6	5	4	3※	3※	1※
SD345	25	20	15	12	10	9	6	5	4	3※	2※	1※
SD390	25	20	15	12	9	7	5	4	3	2※	2※	1※
SD490	25	20	15	12	8	6	4	3	3	2※	1※	1※
SD590	25	20	15	12	8	5	3	2	2	2※	1※	1※

※When cutting material SD490 and SD590, please be aware that cutting blade's life will be shortened.Please contact us for further assistance.  
※Upper blade should be replaced with the blade for large rebar.



CS-185HB

with cutter  
MC-51W

D10-D38

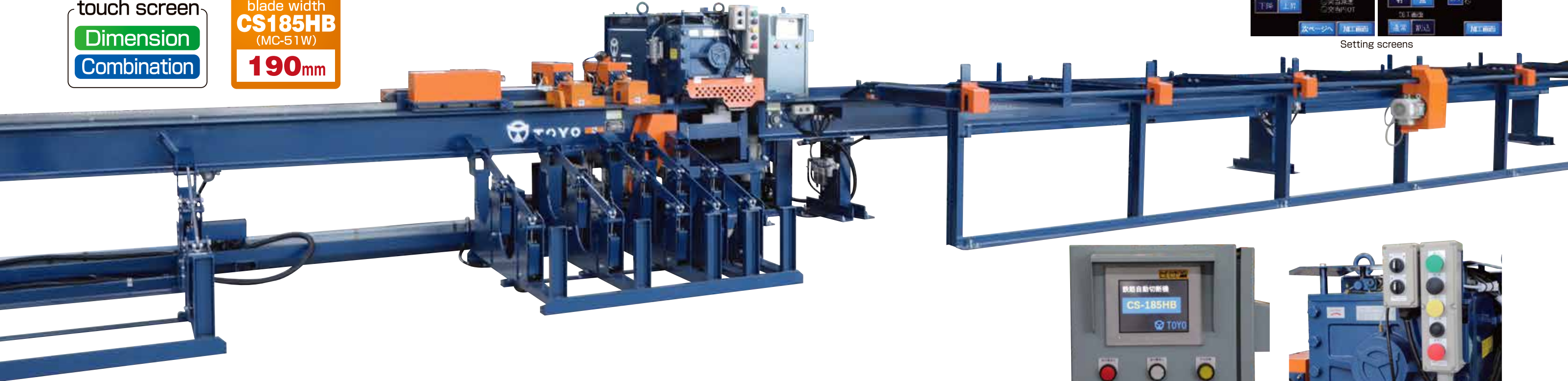


FORTISseries

The first model in rebar cutting machine series with belt conveyor.  
Capable of combination cutting of 2 kinds of length from raw materials.

Setting on touch screen  
Dimension  
Combination

Cutting blade width  
CS185HB  
(MC-51W)  
190mm

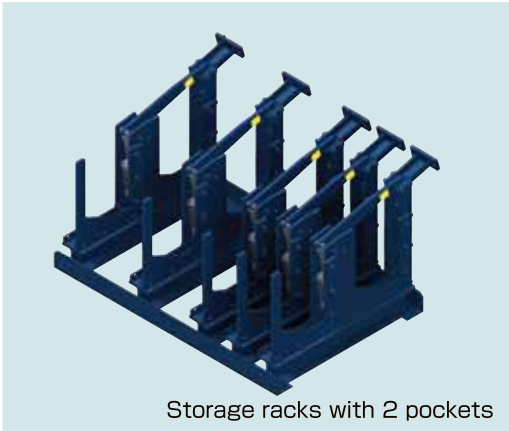


2 types of storage racks

Storage racks with 2 pockets need less space to install.  
Storage racks with 3 pockets is capable of stocking more cut rebars.



Storage racks with 3 pockets



Storage racks with 2 pockets

Machine & Processing Specifications	
Specifications	CS-185HB (10×12)
Required breaker capacity	60A
Applicable length of raw material	3,500~12,000mm
Cutting length range	800~10,000mm ● When product discharging unit is not attached ; 500mm~ ● When stopper for short dimension is attached ; 300mm~
Cutting blade width	190mm
Conveyor effective width	185mm
Material feeding speed on conveyor	52.1/62.5 m/min(50/60Hz)
Total motor capacity	8.55kW (including air-compressor)
Dimensions (L×W×H)	23,600×2,650×1,450mm
Total weight	7,500kg

Simultaneous Max. Cutting Quantity (pcs.)											
Rebar diameter	D10	D13	D16	D19	D22	D25	D29	D32	D35	D38	
SD390	16	12	10	7	5	4	3	2	1	1	※
SD490	16	12	10	5	4	3	2	2	1	1	※

※When cutting material SD490, please be aware that cutting blade's life will be shortened.Please contact us for further assistance.  
※Upper blade should be replaced with the blade for large rebar.



# We, TOYO, develop energy-saving & labor-saving systems.

Generally, 機動力 (Kidō-ryoku) means an ability to flexibly make a move as the situation demands.

It is a fact that “機動力” is a major factor in order to address big changes in the construction industry.

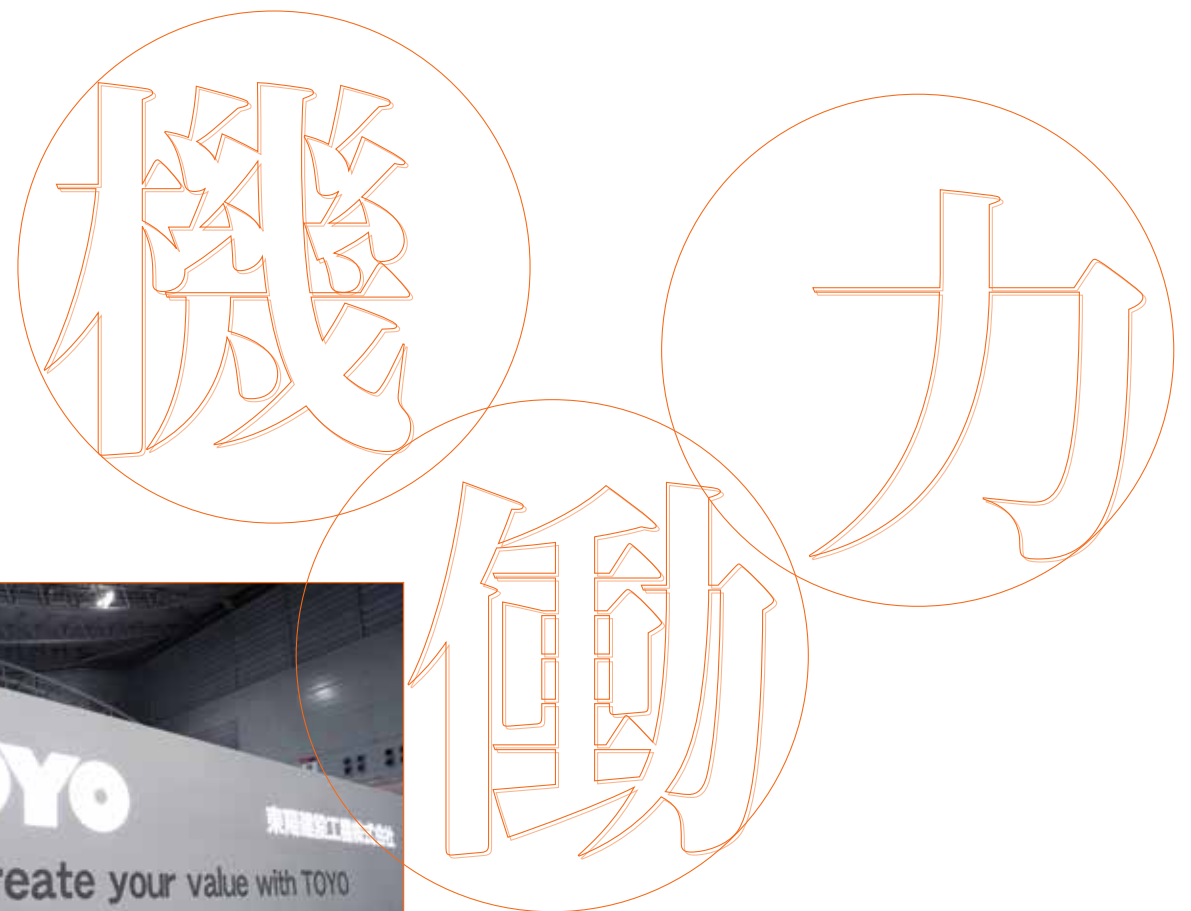
Another factor, however, is necessary for TOYO, as the leading machinery manufacturer, to fulfill its mission.

That is “human power (human resources).” It is human being that performs historical revolutions and makes the impossible possible.

TOYO believes “機動力”, which indicates human wisdom & power, is the source of value creation.

(“動” literally means “move”. “人” stands for human. “人” plus “動” makes “働” which literally means “work”.)

We, TOYO, is committed to developing the leading-edge energy-saving / labor-saving systems to support customers' safety and security.



Since its foundation, TOYO has been developing and supplying rebar processing machines which meet the needs of the era and create the next generation. We have enthusiastically dedicated ourselves to the development and sales of products in order to meet our valued customers' expectation so far, and we will from now on. Under the brand name of TOYO, we are introducing IoT to our machines to enhance customers efficiency with total productivity management. Management of on-going work in the factory realizes “reduction of human errors”, “prevention of miscounting”, and “process tracking”, which enables to provide finished products promptly and securely. We are seeking to expand our TOYO BRAND further.



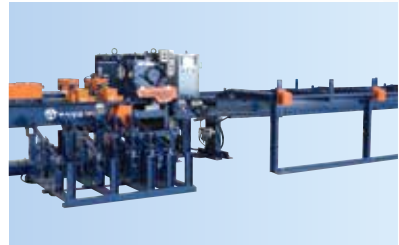
**TOYO KENSETSU KOHKI**

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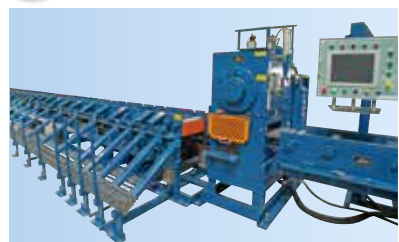


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CUTTING MACHINE



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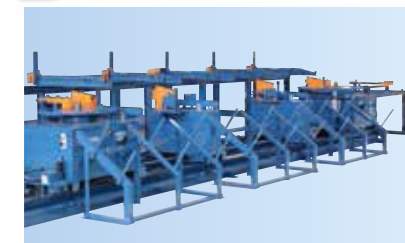
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AUTOMATIC REBAR  
BENDING MACHINE



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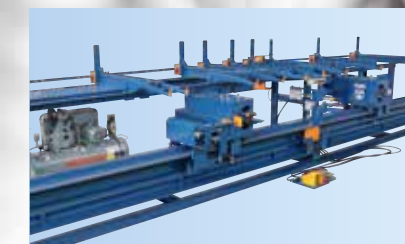
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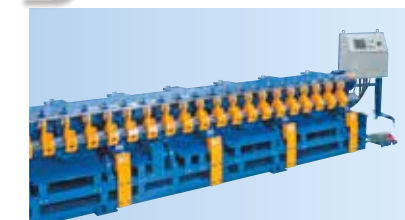
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AUTOMATIC REBAR CUTTING  
& BENDING MACHINE



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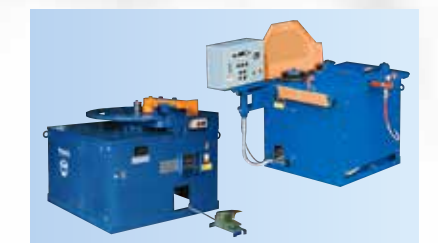


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# Line System



Automatically feeding the cut materials.  
No need of cranes and slinging tools.

ADDITIONAL  
CONVEYOR

**TLC-L**

**TOYO**  
Recommended

SORTING & FEEDING  
DEVICE

**TAS-II**

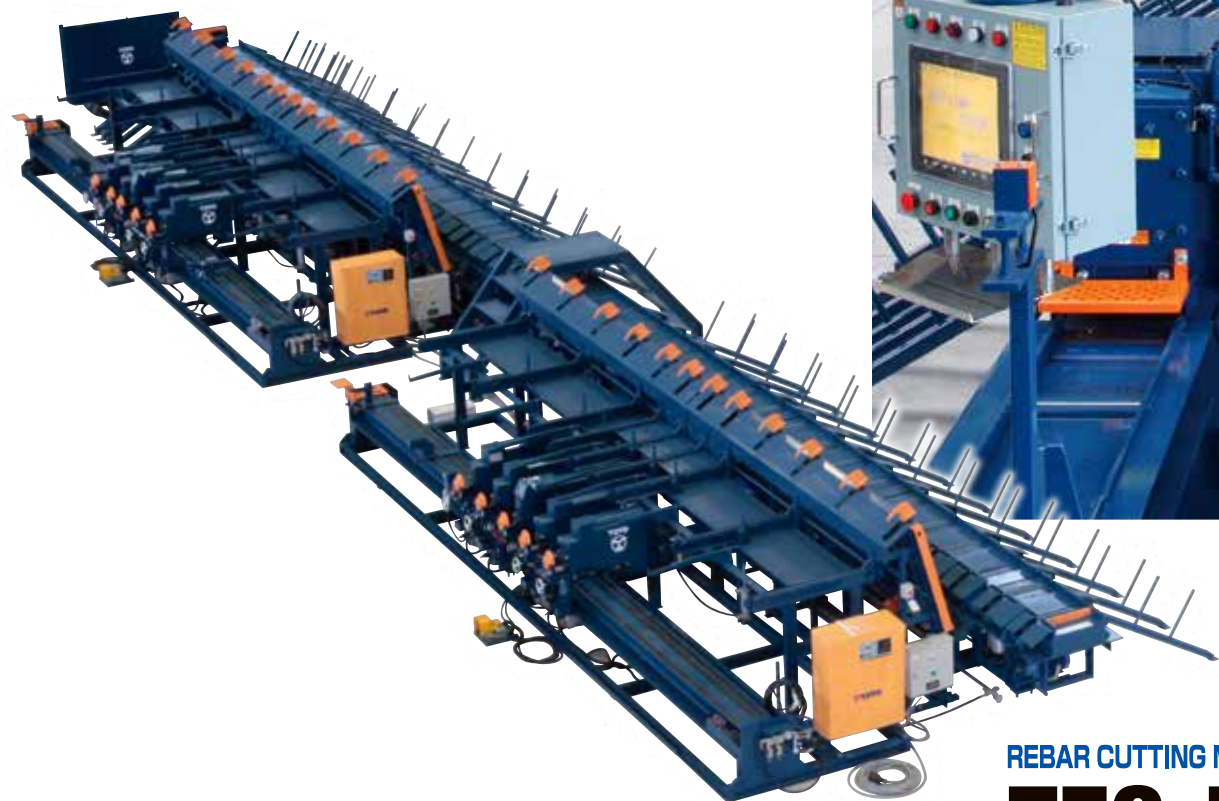
※Please refer to P.13 for the details of TAS-II processing specifications.



REBAR BENDING MACHINE

**TBS-13-6-NC**

※Please refer to P.37-38 for the details of TBS-13-6-NC processing specifications.



REBAR CUTTING MACHINE

**TFC-LA**

※Please refer to P.19 for the details of TFC-LA processing specifications.



FEEDING DEVICE

**TS-V**



Machine & Processing  
Specifications

Specifications	TS-V (8m)
Required breaker capacity	20A ※Provided that distribution wiring is not connected to original power supply of "Automatic rebar bending machine" from power distribution terminal.
Min. feeding length	1,250mm
Max. feeding length	8,000mm
Chain hook feeding speed	5.9 / 7.0m/min(50/60Hz)
Motor capacity	0.75kW
Dimensions (L×W×H)	8,050x750x1,810mm
Total weight	1,580kg

Max.Feeding Quantity (pcs.)

Rebar diameter	D10	D13	D16	D19	D22	D25
Max. feeding q'ty	25	19	15	12	10	9

It conforms to the simultaneous cutting quantity of cutting machine. Quantity above is that of TFC-L(LA).





## SORTING & FEEDING DEVICE

# TAS-II



Drastically enhancing the working efficiency by automatically sorting and feeding materials smoothly.



TFC-LA with TAS-II



Sorting the material



Feeding to the conveyor

Machine & Processing Specifications	
Specifications	<b>TAS-II (9m)</b>
Required breaker capacity	50A
Standard feeding length	3,500~9,000mm
Time of stair treads going up & down	High speed : 58.7rpm Low speed : 42.0rpm (feeding 1 pce per second up/down movement)
Total motor capacity	4.45kW (excluding air-compressor)
Dimensions (L×W×H)	10,050×3,000×1,100mm
Total weight	5,000kg

Max.Loading & Lining-up Quantity (pcs.)

Rebar diameter	D10	D13	D16	D19	D22
On large bundles platform	400	220	140	100	70
On small bundles platform	50	60	40	20	20
Lining-up q'ty.	25	19	15	12	10

It conforms to the simultaneous cutting quantity of cutting machine. Quantity above is that of TFC-L(LA).

## Number management : the first step of quality control

Prevention of misproduction and mis-shipping to the site;

it is a great challenge.

Conventional way of counting was to check the movement of the machine. Operators had to multiply it by the number of rebar simultaneously processed to get the actual number of rebar processed.

Our latest machines have their own "eye" to count rebars they processed. The counting device is attached to cutting machines and bending machines. You can check processed quantity at the both points of cutting and bending.

Counter screen of TFC-LA

カウンタ画面	定尺残り	加工画面
D10 SD390	5800 mm	
計測本数 25	同時切断 25 本まで	
取合 1	リセット	取合 2
リセット		リセット
切寸	2200 mm	1400 mm
定尺	13 本必要	0 本必要
切断済 本数	25	0
設定	25 本	0 本



Our bending machines are equipped with two ways of counting mode:

**Down counter**

...Subtract the number processed from the preset number to process

**Up counter**

...Count up the number processed

Down counter screen

減算カウンタ	ミス本数戻す
設定本数	23
残り	14
リセット	端数続行
	設定数過剰
	0 本

Up counter screen

加算カウンタ	加工画面
ミス本数戻す	D10
総本数	123
リセット	本

originally equipped

■Bending machine TBS-13-6-NC・TRB-10-5II・TRM-2A  
TBS-25-NC4R・TUB-25-1-NC・TUB-32-1-NC

optional

■Cutting machine TFC-MA・TFC-LA・TFC-LLA





**AUTOMATIC  
REBAR CUTTING  
MACHINE**

- TFC-LLA**
- TFC-LA**
- TFC-MA**
- TFC-L**
- TFC-M**
- TFC-M-H**
- TFC-S-H**
- CUTTING CONVEYOR**
- TFC-SR**
- BANDSAW PRECISION  
CUTTING MACHINE**
- TFB-XL**
- TFB-LA**





# AUTOMATIC REBAR CUTTING MACHINE

## TFC-LLA <sup>D10-D41</sup> <sub>cut</sub>

### Mega capacity model for mass production

Setting on  
touch screen

Dimension  
Combination



Counter/ indoor use type (Option)



Line specification

Cutting  
blade width  
**TFC-LLA**  
**460mm**



Title screen



Processing screen



Counter screen

#### Machine & Processing Specifications

Specifications	TFC-LLA (10×12)
Required breaker capacity	150A
Applicable length of raw material	3,500~12,000mm
Cutting length range	750~10,000mm ● Discharging at specified position can be conducted from 1,500mm.
Cutting blade width	460mm
Conveyor effective width	430mm
Material feeding speed on conveyor	High speed : 60m/min Low speed : 40m/min(50/60Hz)
Total motor capacity	19.5kW (excluding air-compressor)
Dimensions (L×W×H)	24,650×4,400×2,100mm
Total weight	18,900kg

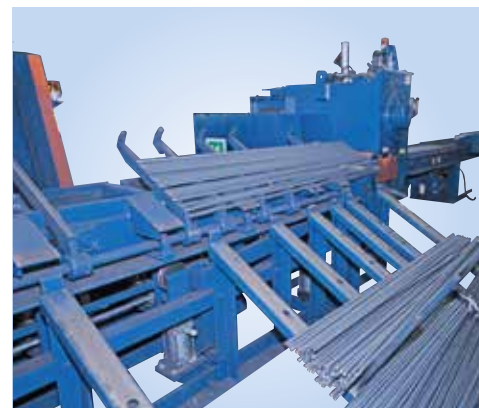
#### Simultaneous Max. Cutting Quantity (pcs.)

Rebar diameter	D10	D13	D16	D19	D22	D25	D29	D32	D35	D38	D41
SD390	40	30	24	20	16	15	10	8	7	5	3
SD490	40	30	24	20	14	13	9	7	6	4	3

※When cutting material SD490, please be aware that cutting blade's life will be shortened. Please contact us for further assistance.



\*This machine has special specification



From cutting to discharging the finished products





# AUTOMATIC REBAR CUTTING MACHINE

## TFC-LA

D10-D41



## TFC-MA

D10-D41



## User-friendly & productive model

Setting on touch screen

Dimension Combination

Cutting blade width  
**TFC-LA**  
**300mm**



**TFC-LA**



Counter/ indoor use type (Option)



Title screen



Processing screen



Counting screen

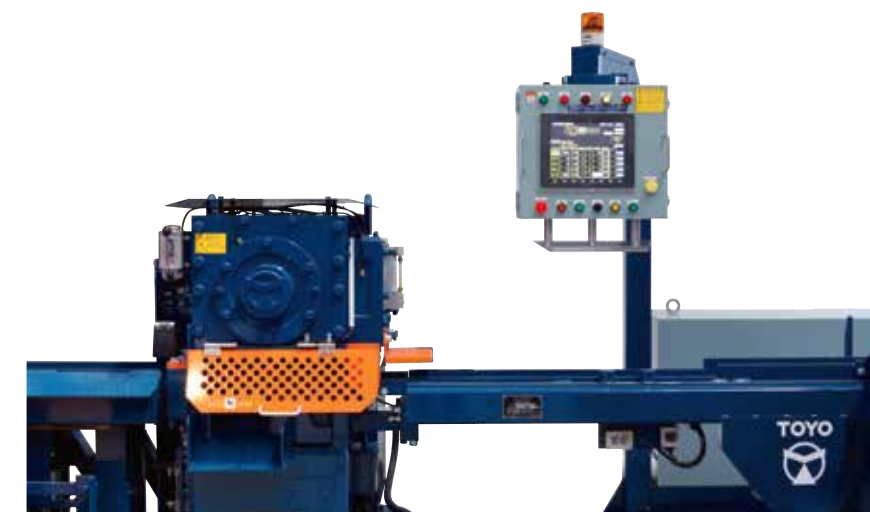
Setting on touch screen

Dimension Combination

Cutting blade width  
**TFC-MA**  
**225mm**

**TFC-MA**

(Line specification)



Machine & Processing Specifications	
Specifications	<b>TFC-LA (10×12)</b>
Required breaker capacity	100A
Applicable length of raw material	3,500~12,000mm
Cutting length range	500~10,000mm ●Discharging at specified position can be conducted from 1,250mm.
Cutting blade width	300mm
Conveyor effective width	275mm
Material feeding speed on conveyor	High speed : 54.0m/min Low speed : 27.0m/min(50/60Hz)
Total motor capacity	14.65kW (including air-compressor)
Dimensions (L×W×H)	24,160×4,070×1,600mm
Total weight	12,410kg

Simultaneous Max. Cutting Quantity (pcs.)

Rebar diameter	D10	D13	D16	D19	D22	D25	D29	D32	D35	D38	D41
SD345	25	19	15	12	10	9	6	5	4	3	1
SD390	25	19	15	12	9	7	5	4	3	2	1
SD490	25	19	15	11	8	6	4	3	3	2	1

※When cutting material SD490, please be aware that cutting blade's life will be shortened.Please contact us for further assistance.

Machine & Processing Specifications	
Specifications	<b>TFC-MA (10×12)</b>
Required breaker capacity	100A
Applicable length of raw material	3,500~12,000mm
Cutting length range	500~10,000mm ●Discharging at specified position can be conducted from 1,250mm.
Cutting blade width	225mm
Conveyor effective width	200mm
Material feeding speed on conveyor	High speed : 50.6m/min Low speed : 25.3m/min(50/60Hz)
Total motor capacity	11.0kW (including air-compressor)
Dimensions (L×W×H)	24,050×3,310×1,350 mm
Total weight	9,070kg

Simultaneous Max. Cutting Quantity (pcs.)

Rebar diameter	D10	D13	D16	D19	D22	D25	D29	D32	D35	D38	D41
SD345	18	13	10	9	8	6	4	3	2	2	1
SD390	18	13	10	9	7	6	4	3	2	2	1
SD490	18	13	10	8	7	6	4	3	2	2	1

※When cutting material SD490, please be aware that cutting blade's life will be shortened.Please contact us for further assistance.





AUTOMATIC REBAR  
CUTTING MACHINE

**TFC-L**

D10-D41



**TFC-M**

D10-D41



Best-selling & cost effective models

Cutting  
blade width  
**TFC-M**  
**225mm**



**TFC-M**

Cutting Machine up  
graded to TFC-MW



Cutting  
blade width  
**TFC-L**  
**300mm**



**TFC-L**

Machine & Processing Specifications	TFC-L (10×12)	TFC-M (10×12)
Specifications		
Required breaker capacity	100A	100A
Applicable length of raw material	3,500~12,000mm	3,500~12,000mm
Cutting length range	500~10,000mm ● Discharging at specified position can be conducted from 1,250mm.	500~10,000mm ● Discharging at specified position can be conducted from 1,250mm.
Cutting blade width	300mm	225mm
Conveyor effective width	275mm	200mm
Material feeding speed on conveyor	54.0m/min(50/60Hz)	50.6m/min(50/60Hz)
Total motor capacity	15.5kW(including air-compressor)	9.65kW(including air-compressor)
Dimensions (L×W×H)	24,200×4,100×1,600mm	24,050×3,310×1,500mm
Total weight	12,435kg	8,530kg

Simultaneous Max. Cutting Quantity (pcs.)												
Model	Rebar diameter	D10	D13	D16	D19	D22	D25	D29	D32	D35	D38	D41
<b>TFC-L</b>	SD345	25	19	15	12	10	9	6	5	4	3	1
	SD390	25	19	15	12	9	7	5	4	3	2	1
	SD490	25	19	15	11	8	6	4	3	3	2	1
<b>TFC-M</b>	SD345	18	13	10	9	8	6	4	3	2	2	1
	SD390	18	13	10	9	7	6	4	3	2	2	1
	SD490	18	13	10	8	7	6	4	3	2	2	1

※When cutting material SD490, please be aware that cutting blade's life will be shortened.Please contact us for further assistance.





## AUTOMATIC REBAR CUTTING MACHINE

# TFC-M-H

with cutter  
MC-51W

D10-D38



# TFC-S-H

with cutter  
MC-41

D10-D32



▼Movie



## Simple & high performance



AUTOMATIC REBAR CUTTING MACHINE

**TFC-S-H**

Cutting blade width  
**TFC-M-H**  
(MC-51W)  
**190mm**

Cutting blade width  
**TFC-S-H**  
(MC-41)  
**125mm**



Stopper setting switch



Lubricating pump

### Option



Storage rack standby arm is to receive finished products temporarily. After bundling, they can be discharged to the products storage rack.



**TFC-M-H**

Material standby (feeding) switch



**TFC-S-H**

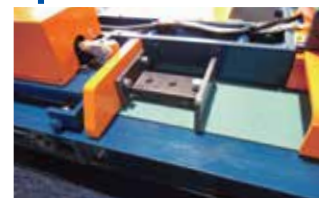
Operating lever of material standby (feeding)

### Option



Operation switch of storage rack standby arm

### Option



Shorter dimension can be cut with stopper for the short length

### Machine & Processing Specifications

Specifications	<b>TFC-M-H</b> (10×12-MC-51W)	<b>TFC-S-H</b> (6×7-MC-41)
Required breaker capacity	75A	60A
Applicable length of raw material	3,500~12,000mm	3,500~7,000mm
Cutting length range	1,050~10,000mm ● When product discharging unit is not attached ; 500mm~ ● When stopper for short dimension is attached ; 300mm~ (Optional)	1,060~6,500mm ● When product discharging unit is not attached ; 750mm~ ● When stopper for short dimension is attached ; 300mm~ (Optional)
Cutting blade width	190mm	125mm
Conveyor effective width	185mm	125mm
Material feeding speed on conveyor	54.0 / 64.7 m/min(50/60Hz)	54.3 / 65.2 m/min(50/60Hz)
Total motor capacity	8.35kW(including air-compressor)	4.7kW (including air-compressor)
Dimensions (L×W×H)	23,200×2,650×1,450mm	14,800×2,400×1,390mm
Total weight	5,900kg	2,500kg

Simultaneous Max. Cutting Quantity (pcs.)

Model	Rebar diameter	D10	D13	D16	D19	D22	D25	D29	D32	D35	D38
<b>TFC-M-H</b>	SD390	16	12	10	7	5	4	3	2	1	1※
	SD490	16	12	10	5	4	3	2	2	1	1※
<b>TFC-S-H</b>	SD390	10	7	6	4	3	2	1	1	—	—
	SD490	10	7	5	4	2	2	1	1	—	—

※When cutting material SD490, please be aware that cutting blade's life will be shortened.Please contact us for further assistance.  
※Upper blade should be replaced with the blade for large rebar.



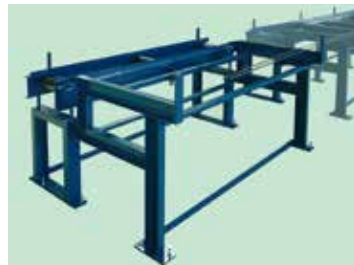


# CUTTING CONVEYOR TFC-SR D10-D32

Working efficiency can be enhanced by attaching conveyor to your rebar cutter



Option Additional material platform



Feed-out conveyor tilts by switch after cutting and cut rebars are discharged into storage racks.

## Machine & Processing Specifications

Specifications	TFC-SR (5×6)
Required breaker capacity	60A
Applicable length of raw material	3,500~6,000mm
Cutting length range	400~5,000mm*
Conveyor effective width	300mm
Material feeding speed on conveyor	58.0 / 70.0 m/min(50/60Hz)
Total motor capacity	1.0kW(excluding air-compressor)
Dimensions (L×W×H)	11,670×1,910×960mm*
Total weight	1,300kg

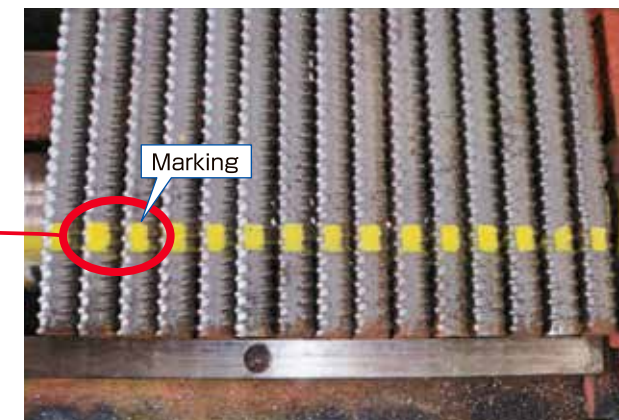
Simultaneous Max. Cutting Quantity (pcs.)

Rebar diameter	D10	D13	D16	D19	D22	D25	D29	D32
Quantity	8	6	5	4	3	2	1	1

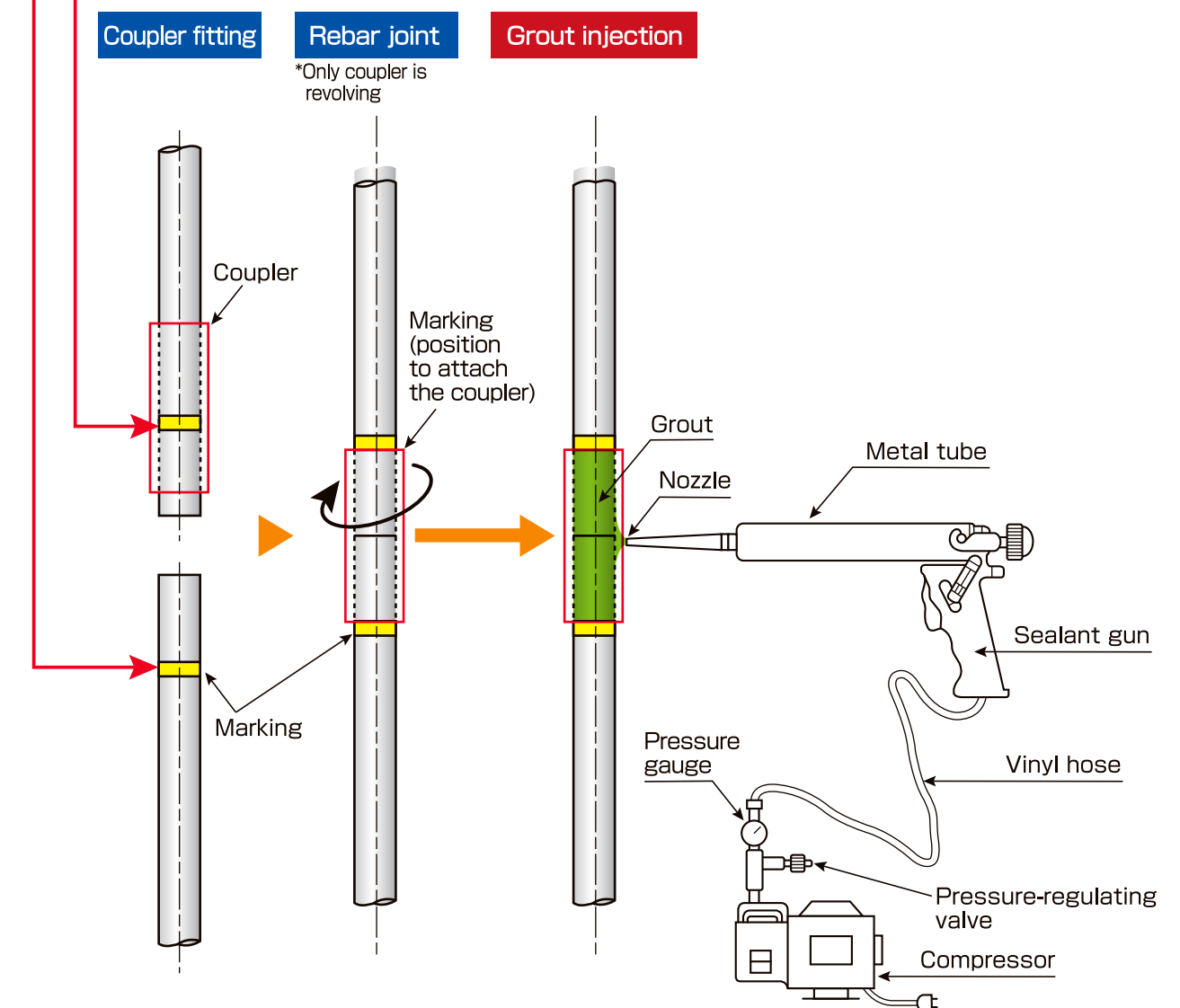
\*Cutting quantity changes based on which cutting machine you get it attached. Please confirm detail with us.

## Mechanical Joint (screw-knotted reinforcement)

All you have to do is to fix rebars with the screw-knotted joint. Anyone is able to carry out the work after a short course. A great quantity can be jointed with a small number of workers. Without any weather impact and large-scaled facilities, construction work can be facilitated.



Conventional way of gas pressure welding joints







# BANDSAW PRECISION CUTTING MACHINE

## TFB-XL D16-D51



Mass production can be done by bandsaw cutting, achieving no deformation of cut surface regardless of rebar material specs.

Setting on touch screen  
Dimension Combination



Counting screen



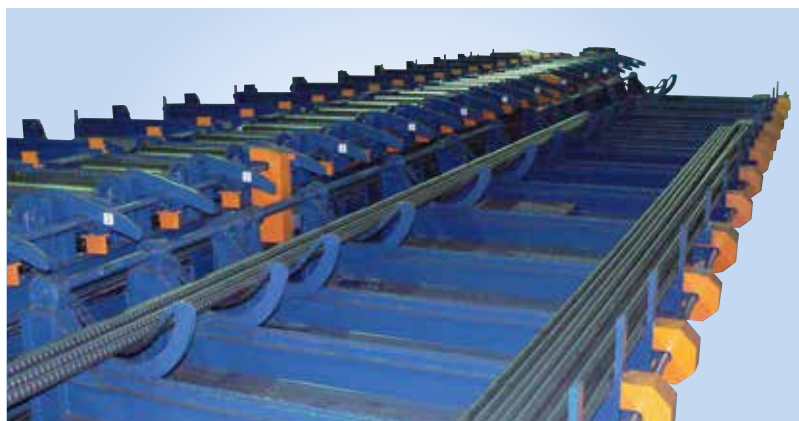
Marker selecting screen



Dimension setting screen



Manual screen



Auto-storage rack (Option)  
Bundling can be done easily without cranes.

**D25▶18 PCS** **D38▶12 PCS** **D51▶9 PCS**

### Machine & Processing Specifications

Specifications	TFB-XL (13×13)
Required breaker capacity	125A
Applicable length of raw material	3,500~13,000mm
Cutting length range	750~13,000mm ●Automatic discharging can be conducted from 1,250mm. ●When stopper for short dimension is attached ; 350~749mm
Cutting blade width	600mm
Conveyor effective width	580mm
Material feeding speed on conveyor	10.2~40.0 m/min(50/60Hz)
Total motor capacity	21.8kW(excluding air-compressor)
Dimensions (L×W×H)	28,950×4,610×2,080mm(excluding control panel)
Total weight	25,800kg

Simultaneous Max. Cutting Quantity (pcs.)

Rebar diameter	D16	D19	D22	D25	D29	D32	D35	D38	D41	D51
Quantity	28	24	21	18	16	15	13	12	11	9



Cutting in progress



AUTOMATIC REBAR CUTTING MACHINE





# BANDSAW PRECISION CUTTING MACHINE

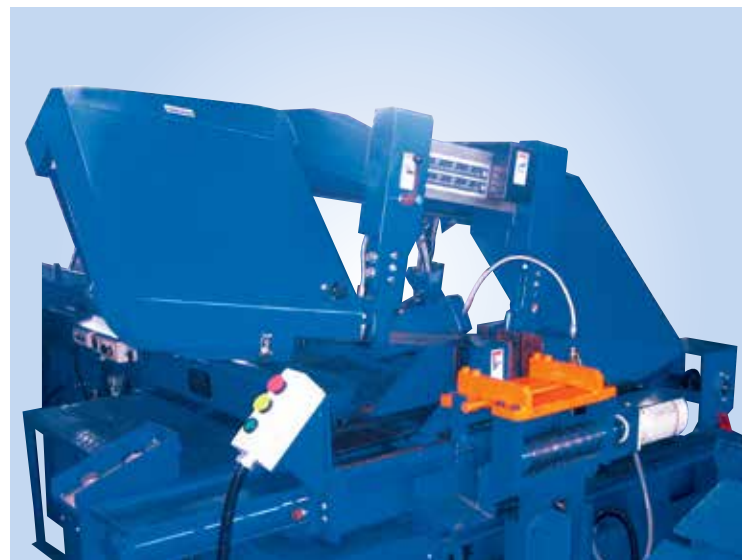
## TFB-LA D16-D51



Mass production can be done by bandsaw cutting, achieving no deformation of cut surface regardless of rebar material specs.

Setting on touch screen

Dimension  
Combination



D25 ▶ 9 PCS   D38 ▶ 6 PCS   D51 ▶ 4 PCS

Machine & Processing Specifications	
Specifications	TFB-LA (13×13)
Required breaker capacity	125A
Applicable length of raw material	3,500~13,000mm
Cutting length range	500~13,000mm ●Discharging at specified position can be conducted from 1,255mm.
Cutting blade width	330mm
Conveyor effective width	275mm
Material feeding speed on conveyor	13.5~54.0 m/min(50/60Hz)
Total motor capacity	19.525kW(including air-compressor)
Dimensions (L×W×H)	28,170×3,825×2,100mm
Total weight	12,500kg

Simultaneous Max. Cutting Quantity (pcs.)

Rebar diameter	D16	D19	D22	D25	D29	D32	D35	D38	D41	D51
Quantity	15	12	11	9	8	7	6	6	5	4



Title screen



Processing screen



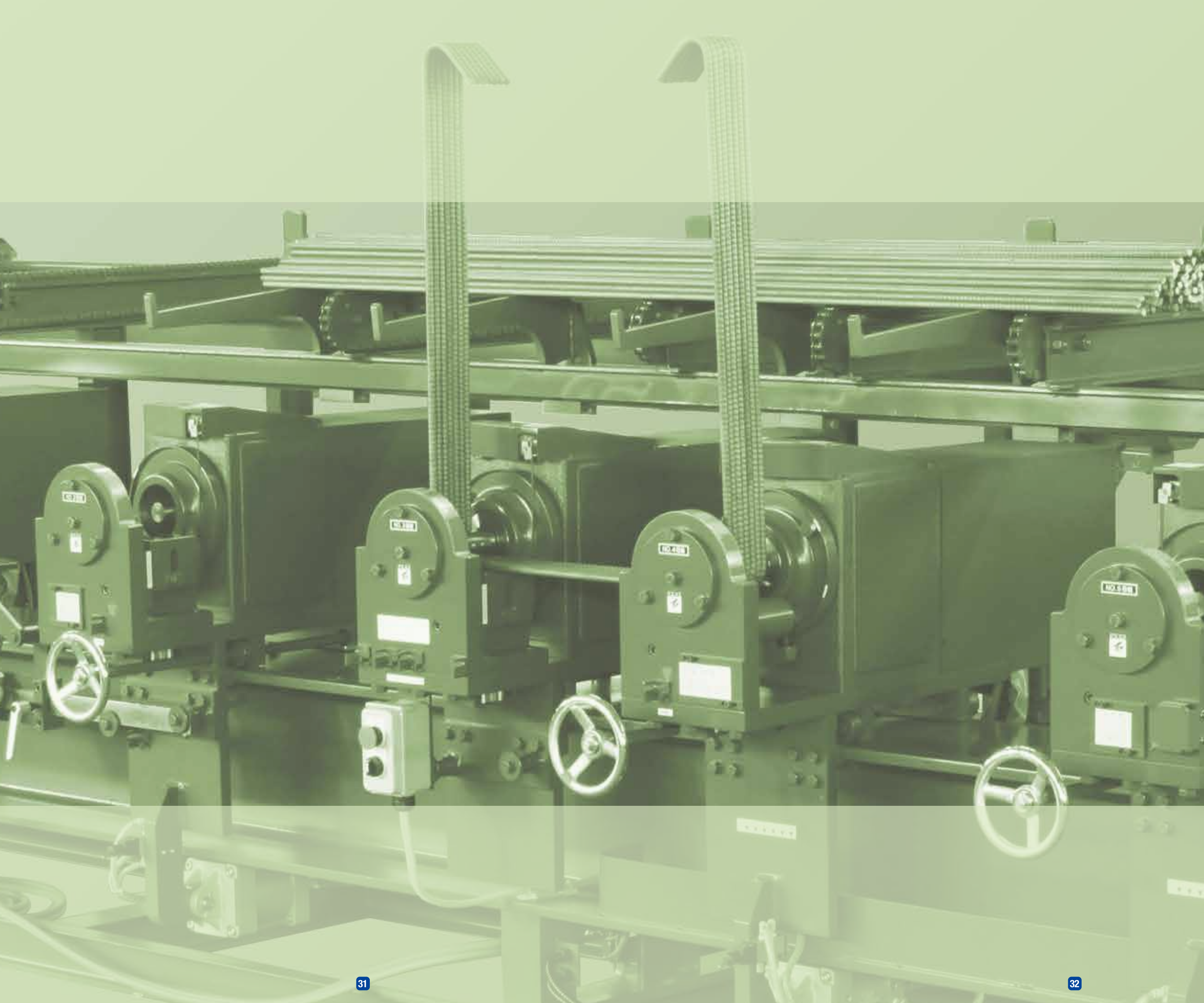
Dimension setting screen



Manual screen

AUTOMATIC REBAR CUTTING MACHINE





## AUTOMATIC REBAR BENDING MACHINE

- TBS-25-NC4R**
- TBS-25-1A**
- TBS-25-1**
- TBS-25-1H**
- TBS-13-6-NC**
- TBS-13-6**
- TRB-10-5II**
- TRM-2A**
- DOUBLE BENDER**
- TWB-40SNI**
- TBM-41-1AS**
- TBM-41-1S**
- PRODUCT CONVEYOR**
- TCS-550**
- TCS-700**
- UNIVERSAL BENDER**
- TUB-32-1-NC**
- TUB-25-1-NC**
- TUB-19-1-NC**





# AUTOMATIC REBAR BENDING MACHINE

## TBS-25-NC4R <sup>D10-D25</sup> <sub>Bend</sub>

▼Movie



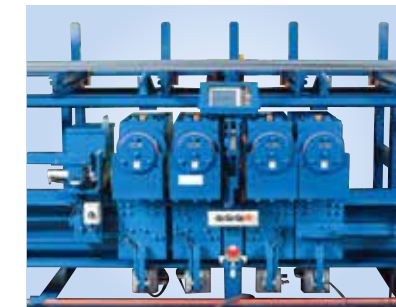
A model for bending high strength rebar: SD785, SD490.  
NC of dimension and angle enhances operability.

Setting on  
touch screen

- Angle
- Dimension
- Shape



Bending closed hoop



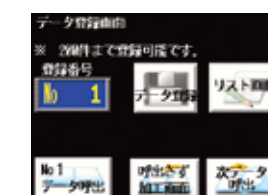
Work complete



Processing screen

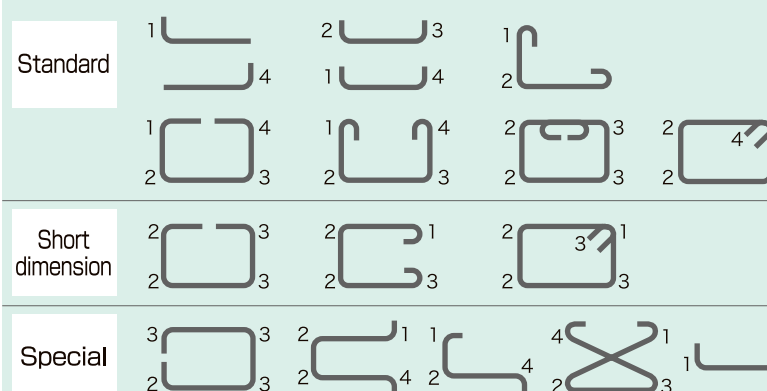


Counter screen



Data register screen

### Bending shape examples



(Figure shows No. of bending unit)



Chucking device in the middle

### Machine & Processing Specifications

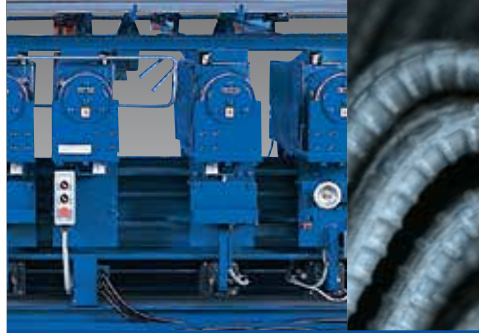
Specifications	TBS-25-NC4R (10m)					
Required breaker capacity	50A					
Min. distance between fulcrum centers	390mm(No.2-3)					
Max. distance between fulcrum centers	9,340mm(No.1-4)					
Bending angle	15~180°					
Bending unit revolution	2.5~7.5 rpm(50/60Hz)					
Total motor capacity	12.55kW (including air-compressor)					
Dimensions (L×W×H)	10,435×2,260×1,605mm					
Total weight	6,400kg					

Simultaneous Max. Bending Quantity (pcs.)

Rebar diameter	D10	D13	D16	D19	D22	D25
Fulcrum roller dia.	φ39	φ52	φ62	φ74	φ86	φ97
SD390	9	7	5	3	2	1
SD490	9	7	4	2	1	1
SD785	8	5	3	—	—	—

\*Fulcrum rollers for 5D and 6D are optional





AUTOMATIC REBAR  
BENDING MACHINE

**TBS-25-1A** D10-D25  
Bend

**TBS-25-1/1H** D10-D25  
Bend



Working efficiency can be enhanced dratistically  
with 5-head bending machine.

Setting on  
touch screen  
Dimension  
Shape



Bending shape examples



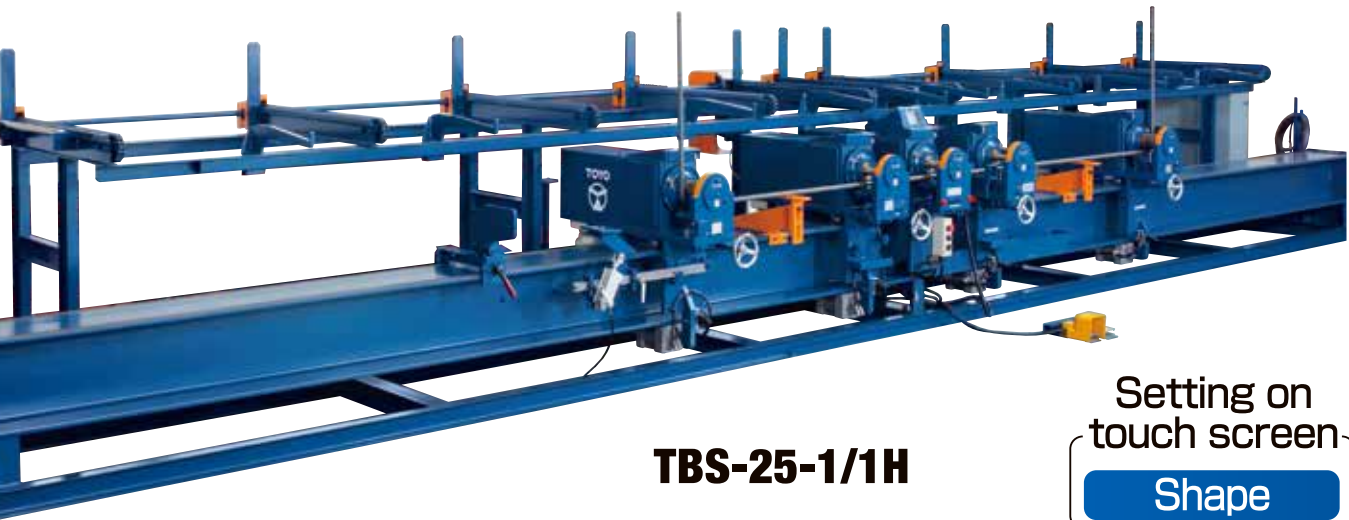
Control panel



Processing screen



**TBS-25-1A**



**TBS-25-1/1H**

Setting on  
touch screen  
Shape

Machine & Processing Specifications	TBS-25-1A (10m)	TBS-25-1 (10m)	TBS-25-1H (10m)
Specifications			
Required breaker capacity	60A	30A	50A
Min. distance between fulcrum centers	290mm(No.3-4)	265mm(No.3-4)	265mm(No.3-4)
Max. distance between fulcrum centers	9,440mm(No.1-5)	9,440mm(No.1-5)	9,500mm(No.1-5)
Bending angle	15~180°	15~180°	15~180°
Bending unit revolution	6.0 / 7.2 rpm(50/60Hz)	7.2 rpm(50/60Hz)	5.4 / 6.4 rpm(50/60Hz)
Total motor capacity	11.25kW (including air-compressor)	9.75kW (including air-compressor)	13.25 kW (including air-compressor)
Dimensions (L×W×H)	10,435×2,100×1,605mm	10,180×2,100×1,605mm	10,100×1,855×1,650mm
Total weight	4,500kg	4,380kg	4,750kg

Simultaneous Max. Bending Quantity (pcs.)

Model	Rebar diameter	D10	D13	D16	D19	D22	D25
	Fulcrum roller dia.	φ39	φ52	φ62	φ73	φ84	φ94
TBS-25-1A	SD345	9	7	5	2	1	1
	SD390	9	7	4	2	1	1
TBS-25-1	SD345	9	7	5	2	1	1
	SD390	9	7	4	2	1	1
TBS-25-1H	SD390	9	7	5	3	2	1
	SD490(600)	9	7	4(3)	2	1	1

For TBS-25-1: Fulcrum roller for 6D is optional (bending angle: up to 90°).





# AUTOMATIC REBAR BENDING MACHINE

## TBS-13-6-NC <sup>D10-D16</sup> <sup>B<sub>end</sub></sup>

▼Movie



### 5-head bending machine with NC of dimension and angle.

Setting on  
touch screen

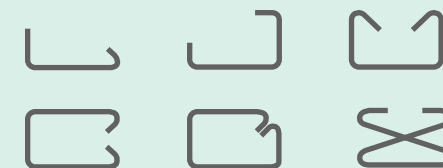
Angle

Dimension

Shape



Bending shape examples



Counting device



AUTOMATIC REBAR  
BENDING MACHINE



Shape selecting screen



Processing screen



Down counter screen



#### Machine & Processing Specifications

Specifications	TBS-13-6-NC (8m)
Required breaker capacity	50A
Min. distance between fulcrum centers	180mm (No.3-4)
Max. distance between fulcrum centers	7,400mm (No. 1-5)
Bending angle	15~180°
Bending unit revolution	MAX9.5 rpm(50/60Hz)
Total motor capacity	7.5kW (including air-compressor)
Dimensions (L×W×H)	8,480×1,980×1,670mm
Total weight	3,400kg

Simultaneous Max. Bending Quantity (pcs.)

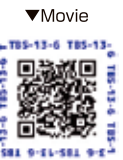
Rebar diameter	D10	D13	D16
Fulcrum roller dia.	φ39	φ39 φ53	φ53 φ59
SD345	8	6	3
SD390	8	5	2





# AUTOMATIC REBAR BENDING MACHINE

## TBS-13-6 <sup>D10-D16</sup> <sub>Bend</sub>

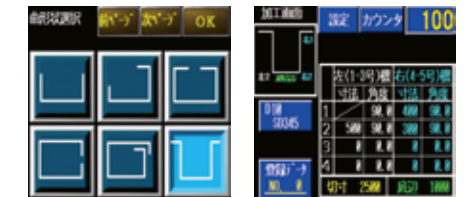
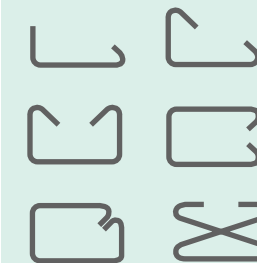


High speed & productivity  
for bending hoop and stirrup

Setting on  
touch screen  
**Shape**



Bending shape examples



Selecting shape screen Processing screen



Maintenance screen



Stopper can be attached to  
bending units No.1, No.2, and No.3



Stopper Unit No.1 Unit No.2 Unit No.3



Processing Speed (13mm×6pcs.) 10 sec. 7.5 sec. 7.5 sec.

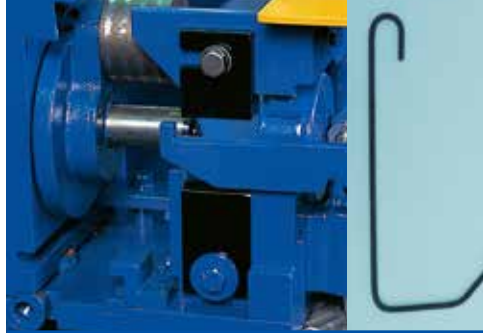
\*Bending with 60Hz

Machine & Processing Specifications	
Specifications	TBS-13-6 (8m)
Required breaker capacity	30A
Min. distance between fulcrum centers	166mm
Max. distance between fulcrum centers	7,700mm(No.1-5)
Bending angle	15~180°
Bending unit revolution	9.5 rpm
Total motor capacity	5.25kW (including air-compressor)
Dimensions (L×W×H)	8,070×1,950×1,570mm
Total weight	2,800kg

Simultaneous Max. Bending Quantity (pcs.)

Rebar diameter	D10	D13	D16
Fulcrum roller dia.	φ39	φ39 φ53	φ53 φ59
SD345	8	6	3
SD390	8	5	2





# AUTOMATIC REBAR BENDING MACHINE

## TRB-10-5II D10-D16

Bend

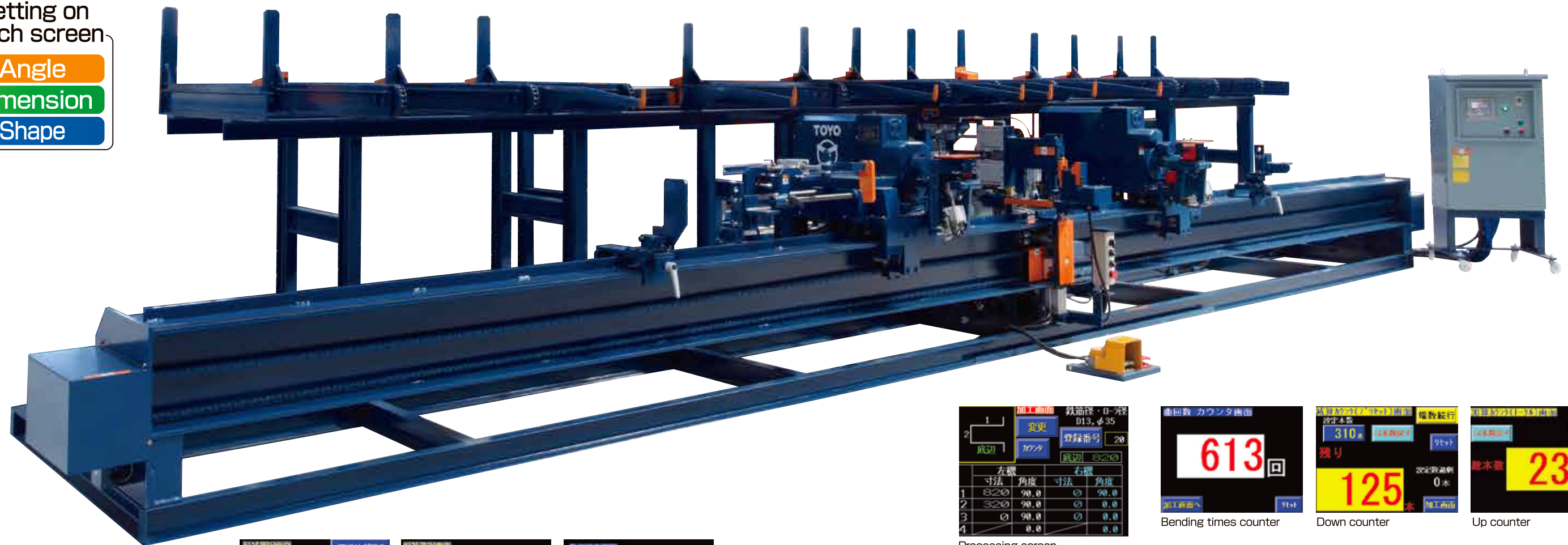
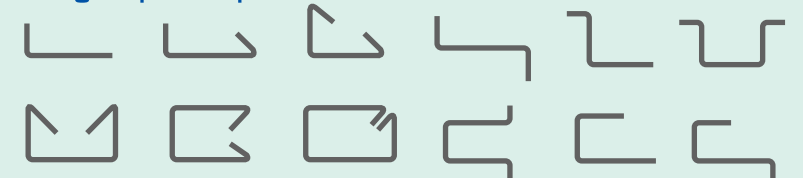


Capable of bending both upward  
and downward,  
achieving flexibly bending various shapes.

Setting on  
touch screen

- Angle
- Dimension
- Shape

Bending shape examples



AUTOMATIC REBAR  
BENDING MACHINE



Processing screen



Bending times counter



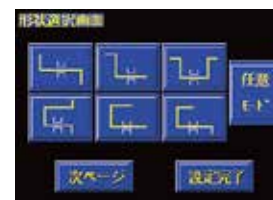
Down counter



Up counter



Shape selecting screen



Shape selecting screen



Angle setting screen



Bending downward



Bending upward

### Machine & Processing Specifications

Specifications	TRB-10-5II (6m)
Required breaker capacity	30A
Min. distance between fulcrum centers	250mm
Max. distance between fulcrum centers	5,350mm
Bending angle	Upward: 15~180°/Downward: 15~90°
Bending unit revolution	6.2~9.3 rpm
Total motor capacity	4.55kW (including air-compressor)
Dimensions (L×W×H)	6,450×2,050×1,680mm
Total weight	2,450kg

Simultaneous Max. Bending Quantity (pcs.)

Rebar diameter	D10	D13	D16
Fulcrum roller dia.	φ35	φ35	φ53
SD345	5	4	2
SD390	5	3	1





# AUTOMATIC REBAR BENDING MACHINE

## TRM-2A <sup>D10-D16</sup> <sub>Bend</sub>

▼Movie



Capable of bending small & complicated shapes,  
which are hard to be bent by manual bender



Numeric keypad for  
dimension setting



Processing screen



Shape selecting screen



Down counter screen



Setting on  
touch screen

Dimension

Shape

AUTOMATIC REBAR  
BENDING MACHINE

Bending shape examples



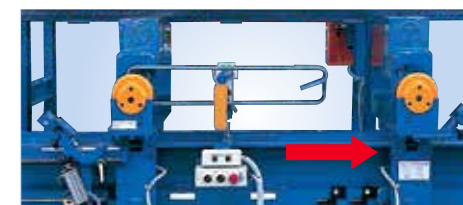
Chucking (counting) device



Stopper



Bending arm can be uplifted for easy replacement of power point rollers



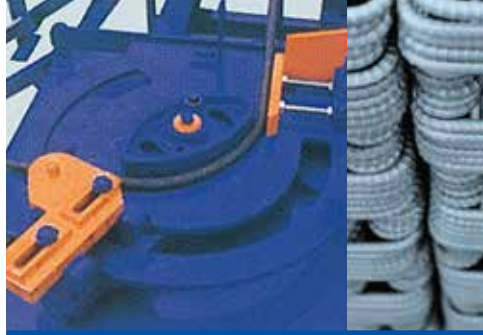
Right bending unit travels at the time of final bending

Machine & Processing Specifications	
Specifications	TRM-2A (6m)
Required breaker capacity	30A
Min. distance between fulcrum centers	245mm
Max. distance between fulcrum centers	5,545mm
Bending angle	15~180°
Bending unit revolution	7.8 / 9.4 rpm (50/60Hz)
Total motor capacity	3.8kW (including air-compressor)
Dimensions (L×W×H)	6,425×1,910×1,570mm
Total weight	2,250kg

Simultaneous Max. Bending Quantity (pcs.)

Rebar diameter	D10	D13	D16
Fulcrum roller dia.	φ35	φ35 φ53	φ53
SD345	7	5	2
SD390	7	4	2





# DOUBLE BENDER TWB-40SNI

D16-D38

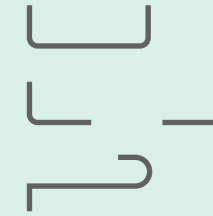


▼Movie



Large and long rebars can be processed  
by only one operator.

Bending shape examples



Material supply and finished products discharge  
can be done simultaneously by the lifts



Angle setting dials

## Machine & Processing Specifications

Specifications	TWB-40SNI (10.5m)
Required breaker capacity	60A
Min. distance between fulcrum centers	1,400mm
Max. distance between fulcrum centers	10,500mm
Bending angle	15~180° (large radius: 15~90°)
Bending unit revolution	Low speed 5.2/6.2 rpm(50/60Hz) High speed 7.6/9.2 rpm(50/60Hz)
Total motor capacity	10.4kW (including air-compressor)
Dimensions (L×W×H)	13,650×3,560×1,650mm
Total weight	5,800kg

Simultaneous Max. Bending Quantity (pcs.)

Rebar diameter	D16	D19	D22	D25	D29	D32	D35	D38
Fulcrum roller dia.	φ64	φ74	φ86	φ97	φ113	φ125	φ137	φ148
SD390	3	3	2	2	2*	1*	1*	1*
SD490	3	3	2	2*	1*	1*	—	—

Fulcrum roller dia. for large radius φ250 · φ300 · φ400 / φ500 · φ600 / φ700 · φ800 (make-to-order parts)

Fulcrum rollers for 5D and 6D are optional. \*: Should be bent at low speed

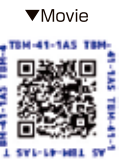
AUTOMATIC REBAR  
BENDING MACHINE





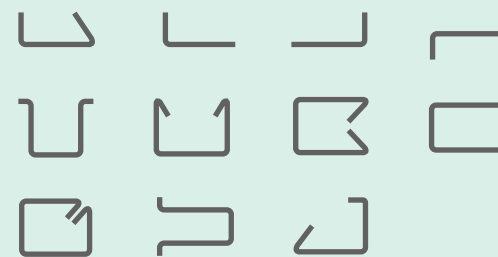
# DOUBLE BENDER TBM-41-1AS

D19-D41  
B<sup>end</sup>



Capable of bending rebar up to D41-SD490.  
Touch screen is equipped for the high operability.  
Right and left bending units  
travelling makes it possible to perform  
multiple angle bending.

Bending shape examples



Bending angle setting dial



Processing with large radius



Setting on  
touch screen

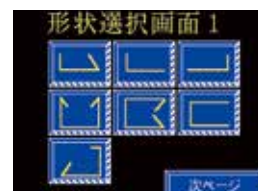
Dimension

Shape

TBM-41-1AS



Processing screen



Shape selecting screen

## Machine & Processing Specifications

Specifications	TBM-41-1AS (10m)
Required breaker capacity	100A
Min. distance between fulcrum centers	1,450mm
Max. distance between fulcrum centers	8,200mm
Bending angle	15~180° (large radius:15~90°)
Bending unit revolution	4.7/5.7 rpm(50/60Hz)
Total motor capacity	15.5kW (including air-compressor)
Dimensions (L×W×H)	11,545×2,410×1,375mm
Total weight	6,000kg

Simultaneous Max. Bending Quantity (pcs.)

Rebar diameter	D19	D22	D25	D29	D32	D35	D38	D41
Fulcrum roller dia.	φ113	φ125	φ148	φ168	φ186	φ204	φ222	φ237
SD390	4	3	3	2	2	1	1	1
SD490	4	3	3	2	2	1	1	1
Fulcrum roller dia. for large radius	φ250・φ300・φ400 / φ500・φ600 / φ700・φ800 (make-to-order parts)							

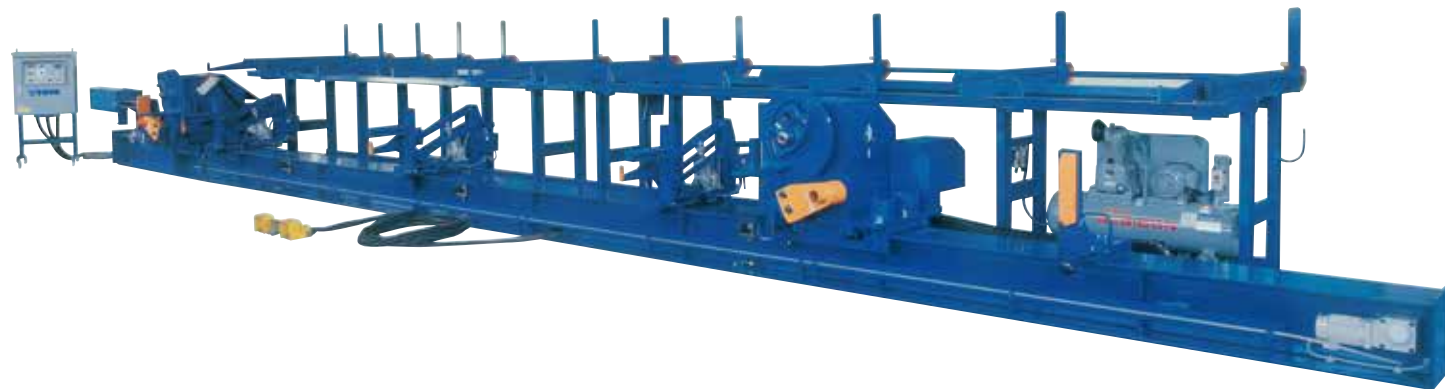
\*Fulcrum rollers for 4D and 5D are optional





# DOUBLE BENDER TBM-41-1S <sup>D19-D41</sup> <sup>Bend</sup>

Capable of bending rebar up to D41-SD490.  
Left bending unit is fixed and right one is mobile.  
Function limited type.



TBM-41-1S  
Examples of bending shapes



Bending angles setting dial



Operating switch



Dimension setting (by tape measure)

## Machine & Processing Specifications

Specifications	TBM-41-1S (10m)
Required breaker capacity	75A
Min. distance between fulcrum centers	900mm
Max. distance between fulcrum centers	8,500mm
Bending angle	15~180° (large radius: 15~90°)
Bending unit revolution	3.4/4.1 rpm(50/60Hz)
Total motor capacity	10.8kW (including air-compressor)
Dimensions (L×W×H)	12,207×2,345×1,575mm
Total weight	6,200kg

Simultaneous Max. Bending Quantity (pcs.)

Rebar diameter	D19	D22	D25	D29	D32	D35	D38	D41
Fulcrum roller dia.	φ113	φ125	φ148	φ168	φ186	φ204	φ222	φ237
SD390	4	3	3	2	2	1	1	1
SD490	4	3	3	2	2	1	1	1
Fulcrum roller dia. for large radius	φ250・φ300・φ400 / φ500・φ600 / φ700・φ800 (make-to-order parts)							



# PRODUCT CONVEYOR TCS-550/700 <sup>Carry</sup>

Carrying finished products by conveyor enhances the workability



Conveyor in use

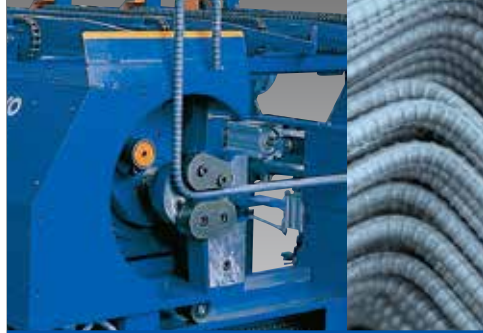


AUTOMATIC REBAR  
BENDING MACHINE

## Machine & Processing Specifications

Specifications	TCS-550 (5.5m)	TCS-700 (7m)
Required breaker capacity	15A	15A
Max. conveying weight	1,500kg	1,500kg
Conveyor effective width	1,140mm	1,140mm
コンベア有効長さ	5,300mm	6,800mm
Conveying speed	4.7 / 5.7 m/min(50/60Hz)	4.7 / 5.7 m/min(50/60Hz)
Total motor capacity	0.4kW	0.4kW
Dimensions (L×W×H)	5,525×1,260×270mm	7,025×1,260×270mm
Total weight	550kg	650kg





# UNIVERSAL BENDER

## TUB-32-1-NC <sup>D16-D32</sup> <sup>Bend</sup>

# TUB-25-1-NC <sup>D10-D25</sup> <sup>Bend</sup>



Capable of bending both upward and downward.  
A model suitable for producing products used in  
civil engineering works (such as bridge girder)  
and segment construction work.

Setting on  
touch screen

- Angle
- Dimension
- Shape



AUTOMATIC REBAR  
BENDING MACHINE



Start screen



Processing screen



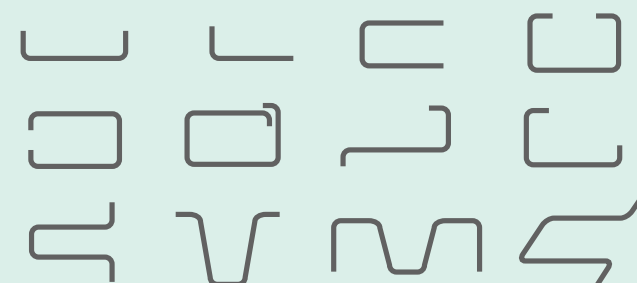
Shape selecting screen



Counter screen

TUB-25-1-NC

Bending shape examples



Machine & Processing Specifications			
Specifications		TUB-32-1-NC (10m)	TUB-25-1-NC (10m)
Required breaker capacity		75A	60A
Min. distance between fulcrum centers		770mm	490mm
Max. distance between fulcrum centers		8,500mm	8,790mm
Bending angle		Upward 15°~180° Downward 15°~135°	Upward 15°~180° Downward 15°~135°
Bending unit revolution		MAX4.2 rpm(50/60Hz)	1.8~6.1 rpm(50/60Hz)
Total motor capacity		11.2kW (including air-compressor)	6.75kW (including air-compressor)
Dimensions (L×W×H)		10,500×1,950×1,720mm	10,435×1,980×1,570mm
Total weight		6,000kg	4,700kg

Simultaneous Max. Bending Quantity (pcs.)

Model	Rebar diameter	D10	D13	D16	D19	D22	D25	D29	D32
	Fulcrum roller dia.	φ36	φ48	φ64/φ62	φ74	φ86	φ97	φ113	φ125
TUB-32-1-NC	SD345	—	—	4	3	2	2	1	1
	SD390	—	—	4	3	2	2	1	1
TUB-25-1-NC	SD345	5	4	3	2	1	1	—	—
	SD390	5	4	3	2	1	—	—	—





# UNIVERSAL BENDER TUB-19-1-NC <sup>D10-D19</sup> <sub>Bend</sub>



Capable of bending both upward and downward.  
A model suitable for producing products used in  
civil engineering works (such as bridge girder)  
and segment construction work.

Setting on  
touch screen

- Angle
- Dimension
- Shape



Shape selecting screen



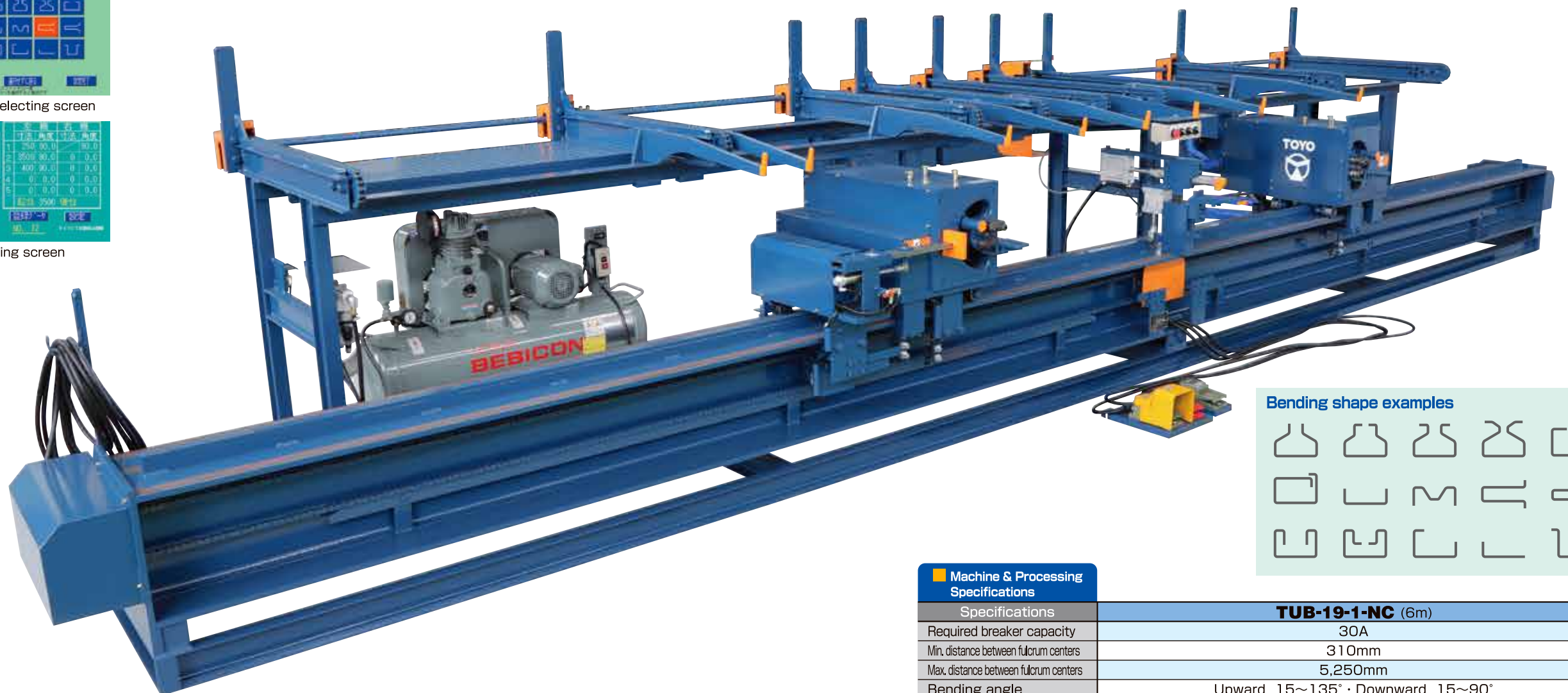
Processing screen



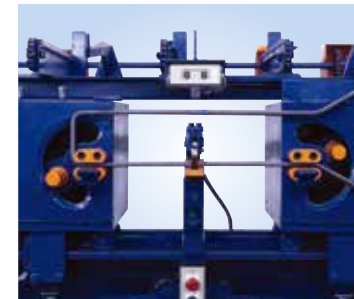
Stopper



Chucking device



Processing product examples



Bending shape examples



## Machine & Processing Specifications

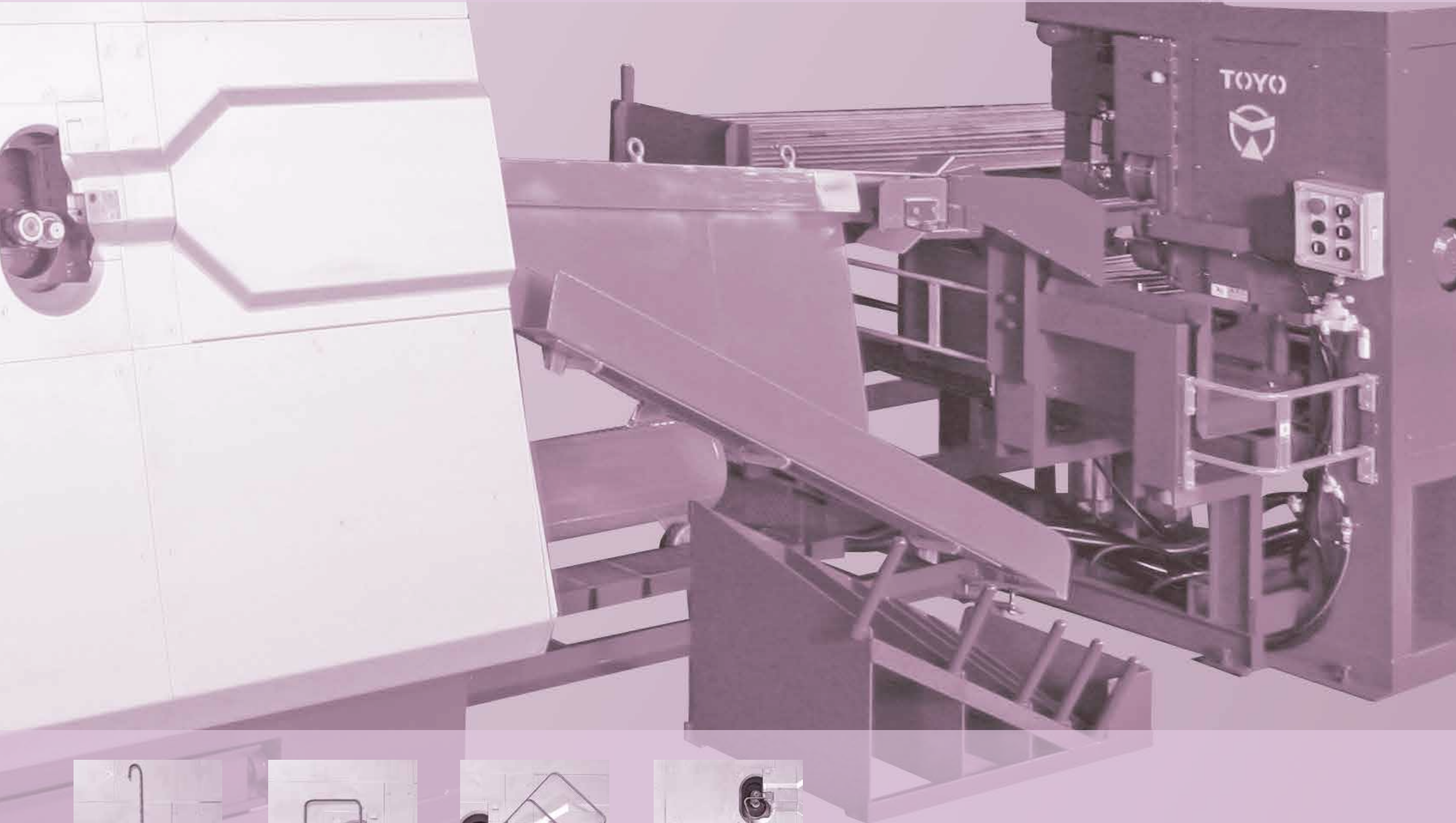
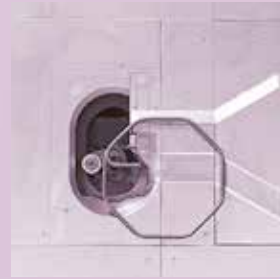
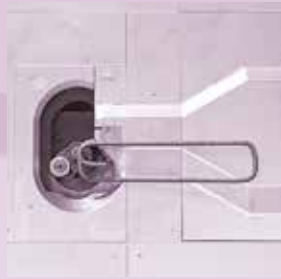
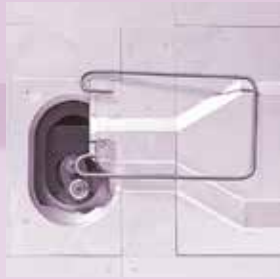
Specifications	TUB-19-1-NC (6m)			
Required breaker capacity	30A			
Min. distance between fulcrum centers	310mm			
Max. distance between fulcrum centers	5,250mm			
Bending angle	Upward 15~135° · Downward 15~90°			
Bending unit revolution	1.8~6.0 rpm(50/60Hz)			
Total motor capacity	4.55kW (including air-compressor)			
Dimensions (L×W×H)	6,650×1,950×1,500mm			
Total weight	3,500kg			

Simultaneous Max. Bending Quantity (pcs.)

Rebar diameter	D10	D13	D16	D19
Fulcrum roller dia.	R15	R15	R25	R25
SD345	6	4	2	1
SD390	6	3	2	—

AUTOMATIC REBAR  
BENDING MACHINE





**AUTOMATIC  
REBAR CUTTING &  
BENDING MACHINE**

**TBC-16RBII  
TBC-16RBS**







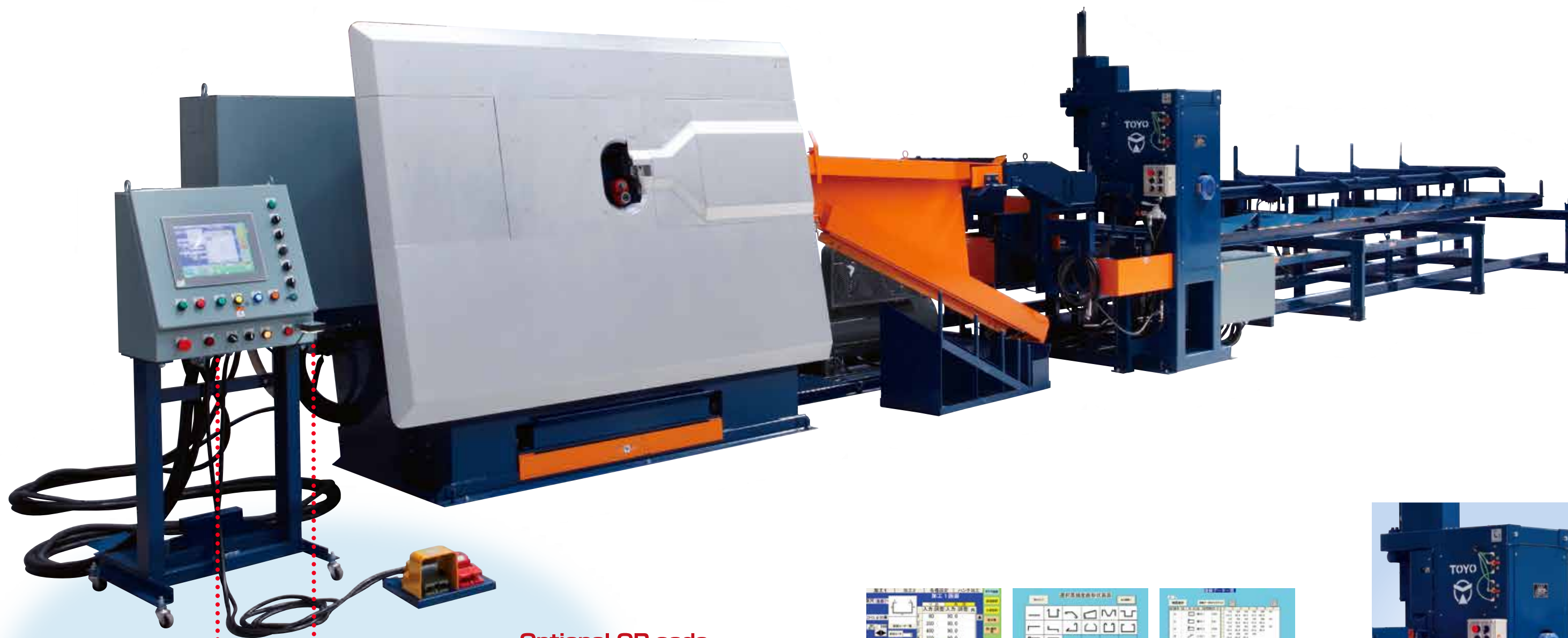
# AUTOMATIC REBAR CUTTING & BENDING MACHINE

## TBC-16RBII D10-D16

Cut Bend



**Cut & bend machine for straight rebar**  
**Suitable for various shapes and high-mix**  
**low-volume production**



AUTOMATIC REBAR CUTTING  
& BENDING MACHINE

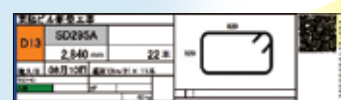


**Data transmission makes it more effective!**

Transmission of processing data from the office eliminates labor and possible input error by a machine operator. Operational efficiency can be greatly enhanced.

**Optional QR code**

Scanned data is transmitted to the machine.



Processing screen



Shape list for frequent use



Data register screen



Haunch processing screen



Setting screen



Counter screen



Feeding device



AUTOMATIC REBAR CUTTING & BENDING MACHINE

TBC-16RBII

D10-D16

Cut

Bend



From feeding to cutting and bending by one machine  
Advanced model reducing manpower and processing time drastically

Automatic feeding

Pick up a rebar      Supply to the pinch rollers      Pick up next rebar

Equipped with scrap collecting tray

Movable material storage for different diameters

Machine & Processing Specifications	
Specifications	TBC-16RBII (12m)
Required breaker capacity	75A
Processable material length	4,000~12,000mm
Max. q'ty loadable on the material plat form	D10:400pcs.,D13:220pcs.,D16:140pcs.
Bending angle	Upward 5°~135° Downward 5°~180°
Bending unit revolution	MAX 187.0 rpm
Feeding speed	MAX 155.0 m/min
Total motor capacity	20.9kW (including air compressor)
Dimensions (L×W×H)	16,400×2,105×2,200mm
Total weight	6,500kg

Simultaneous Max. processing Quantity (pcs.)				
Rebar diameter	D10	D13		D16
Fulcrum roller dia.	φ35	φ35	φ39	φ48
SD345	1	1	1	1
SD390	1	1	1	—

Option

Conveyor for carrying out the finished products

Conveyor carries the finished products to a worktable where an operator can bind them together for shipping. The worktable goes up and down with a hydraulic cylinder to the most appropriate position.

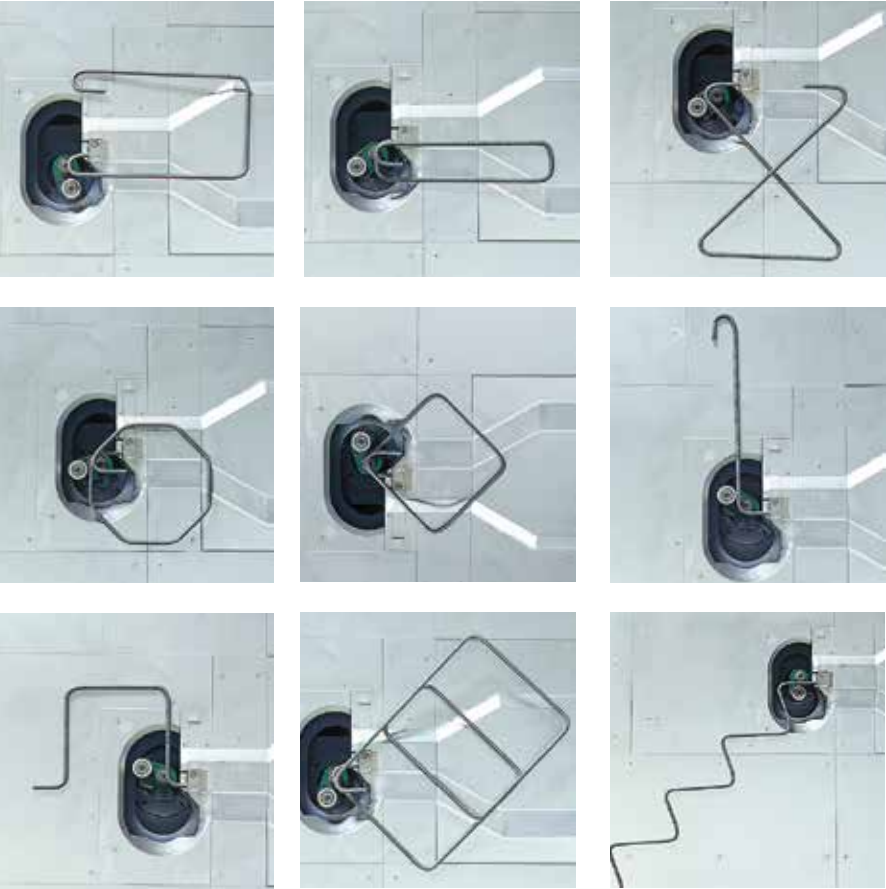
Additional switch for optional conveyor

Eco-friendly machine making efficient use of rebars



Off-cuts are cut to the length for reuse

Bending shape examples







# AUTOMATIC REBAR CUTTING & BENDING MACHINE **TBC-16RBS** **D10-D16** Cut Bend

(Make-To-Order Model)

Automatically feeding, cutting and bending of raw materials  
High-strength rebar SD785 is supported.



Processing screen



Setting screen



Haunch Processing screen



Continuous processing screen



List screen



Machine & Processing Specifications	
Specifications	TBC-16RBS (12m)
Required breaker capacity	150A
Processable material length	5,000~12,000mm
Max. q'ty loadable on the material plat form	D10:400pcs.,D13:220pcs.,D16:140pcs.
Bending angle	Upward 5°~135° Downward 5°~180°
Bending unit revolution	MAX 93.7 rpm(50/60Hz)
Feeding speed	MAX 104.0 m/min(50/60Hz)
Total motor capacity	38.7kW (including air compressor)
Dimensions (L×W×H)	17,520×3,185×3,850mm
Total weight	8,300kg

Simultaneous Max. processing Quantity (pcs.)

Rebar diameter	D10		D13		D16	
Fulcrum roller dia.	φ39	φ48	φ52	φ62	φ62	φ77
SD345	1	1	1	1	1	1
SD785	1	1	1	1	1	1



MESH&SLAB BENDER

MESH BENDER

FMI-2000H

FMI-4000H

FMI-5000H

FM-2000

TMP-5000H

FM-4000UD

FMW-2500H

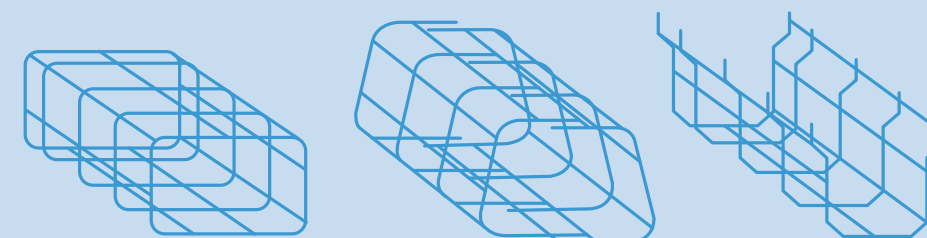
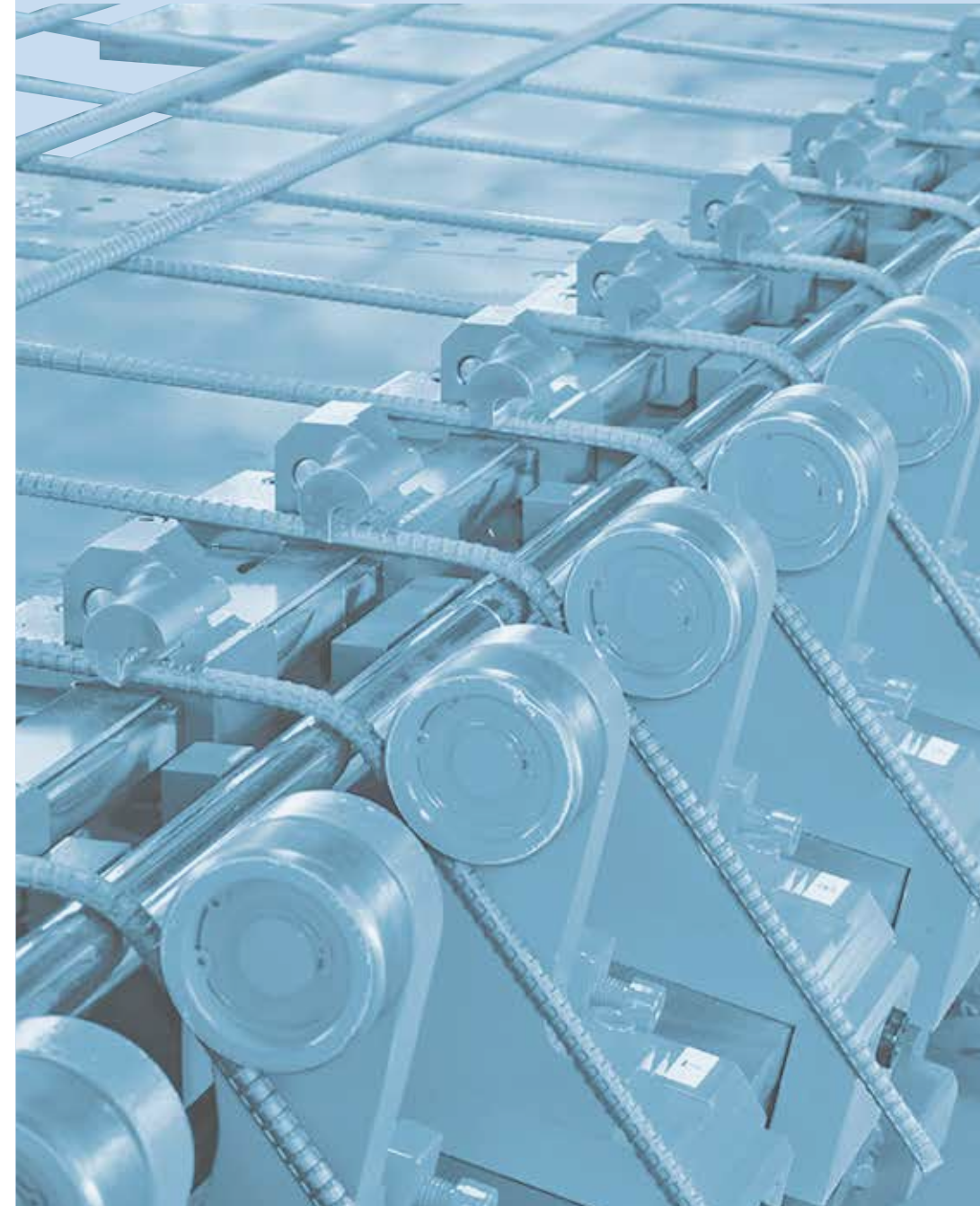
FMG-6-30

SLAB BENDER

TEB-19-NC

EB-19

EB-16







## MESH BENDER

# FMI series

2000H/4000H/5000H



## Involute system, with “Automatic Bending Angle Stepping Function”



FMI-4000H

▼Movie



Initial screen



Bending shape selecting screen



Processing screen

Bending shape selecting screen

Machine & Processing Specifications		FMI-2000H (2m)	FMI-4000H (4m)	FMI-5000H (5m)
Specifications				
Required breaker capacity		30A	30A	50A
Max. mesh width to be processed		2,000mm	4,000mm	5,000mm
Bending angle to be processed	Round fulcrum	15~180°	15~180°	15~180°
	Sharp fulcrum	15~135°	15~135°	—
	Large-R fulcrum	15~90°	15~90°	15~90°
Bending revolution		2.7/3.3 rpm(50/60Hz)	2.9/3.4 rpm(50/60Hz)	2.2/2.6 rpm(50Hz) 2.6/3.1 rpm(60Hz)
Total motor capacity		3.7kW	3.7kW	5.5kW
Dimensions (L×W×H)		2,430×855×830mm	4,390×855×830mm	5,400×1,250×830mm
Total weight		2,000kg	2,700kg	3,500kg

Model		Simultaneous Max. Bending Capacity(pcs.)				
FMI-2000H	Material SD345	Rebar diameter	D10	D13	D16	D19
		Q'ty up to 135°	25	25	15	—
		Q'ty over 135°	25	20	10	—
FMI-4000H	Material SD345	Rebar diameter	D10	D13	D16	D19
		Q'ty up to 135°	50	30	15	—
		Q'ty over 135°	40	20	10	—
FMI-5000H	Material SD345	Rebar diameter	D10	D13	D16	D19
		Q'ty up to 135°	50	30	20	11
		Q'ty over 135°	50	30	15	7
		Q'ty (Large R fulcrum)	50	30	20	11



## MESH BENDER

# FM-2000

TMP-5000H (Make-To-Order Model)



## Simple & best-selling model



Fulcrum base



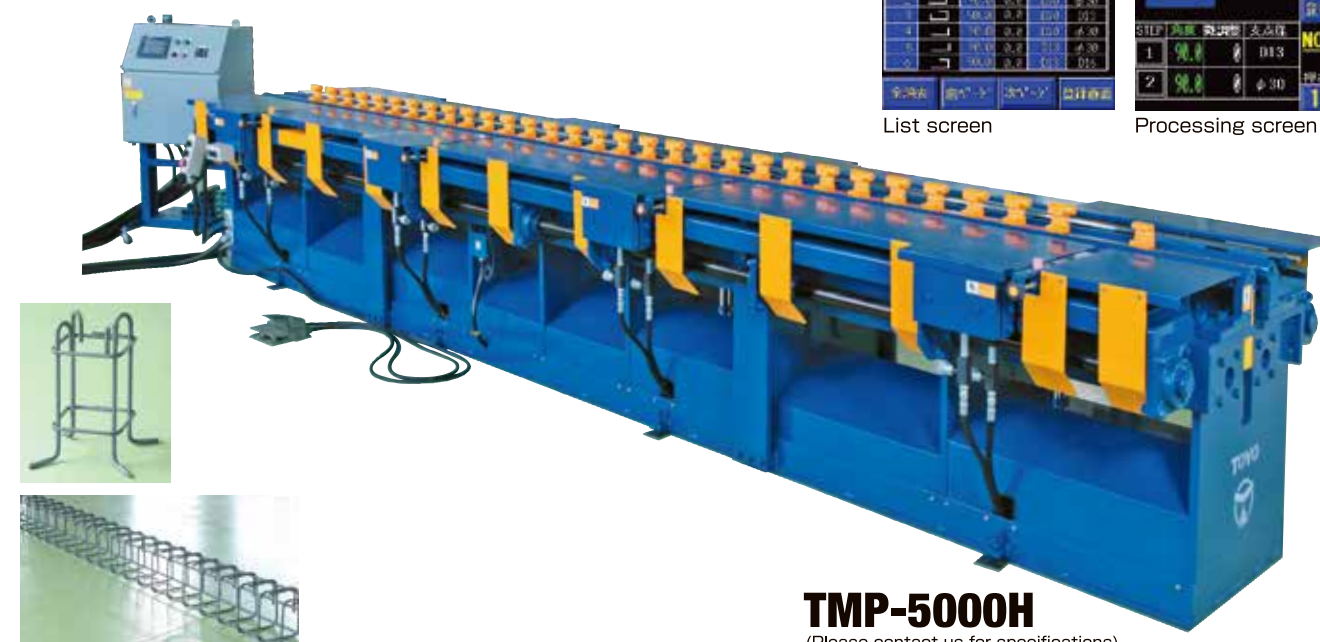
FM-2000

Machine & Processing Specifications		FM-2000 (2m)
Specifications		
Required breaker capacity		15A
Max length of mesh to be processed		2,000mm
Bending angle to be processed		15~180°(15~90°in case of large R processing)
Bending revolution		7.7/9.2 rpm(50/60Hz)
Total motor capacity		2.2kW
Dimensions (L×W×H)		3,170×1,220×1,010mm
Total wight		1,000kg

Simultaneous Max. Bending Quantity (pcs.)

Material	φ6	D10
SWM-B·SWM-P	40	—
SD295A	—	15

## Hook-in system, Automatic bending angle stepping function



TMP-5000H

(Please contact us for specifications)



List screen



Processing screen





# MESH BENDER

## FM-4000UD



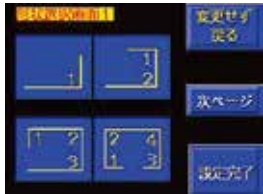
Capable of bending upward & downward



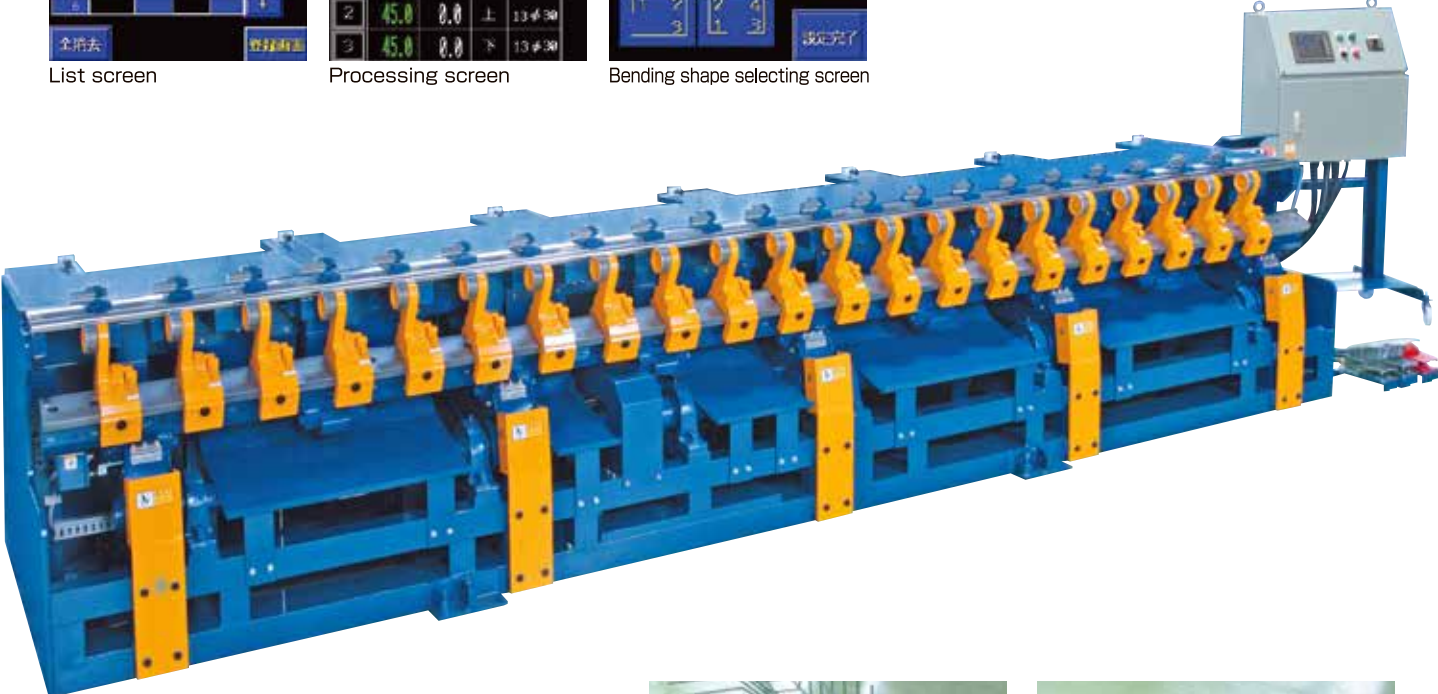
List screen



Processing screen



Bending shape selecting screen



Machine & Processing Specifications		
Specifications		FM-4000UD (4m)
Required breaker capacity		50A
Max. mesh width to be processed		4,000mm
Bending angle to be processed	Upward	15~135°(15~90°in case of large R processing)
	Downward	15~60°
Bending revolution		0.5~2.0 rpm(50/60Hz)
Total motor capacity		3.7kW
Dimensions (L×W×H)		4,500×1,000×800mm
Total weight		3,000kg
Simultaneous Max. Bending Quantity (pcs.)		
Rebar diameter	D10	D13
SD295A	25	25
SD345	21	21



# MESH BENDER

## FMW-2500H (Make-To-Order Model)

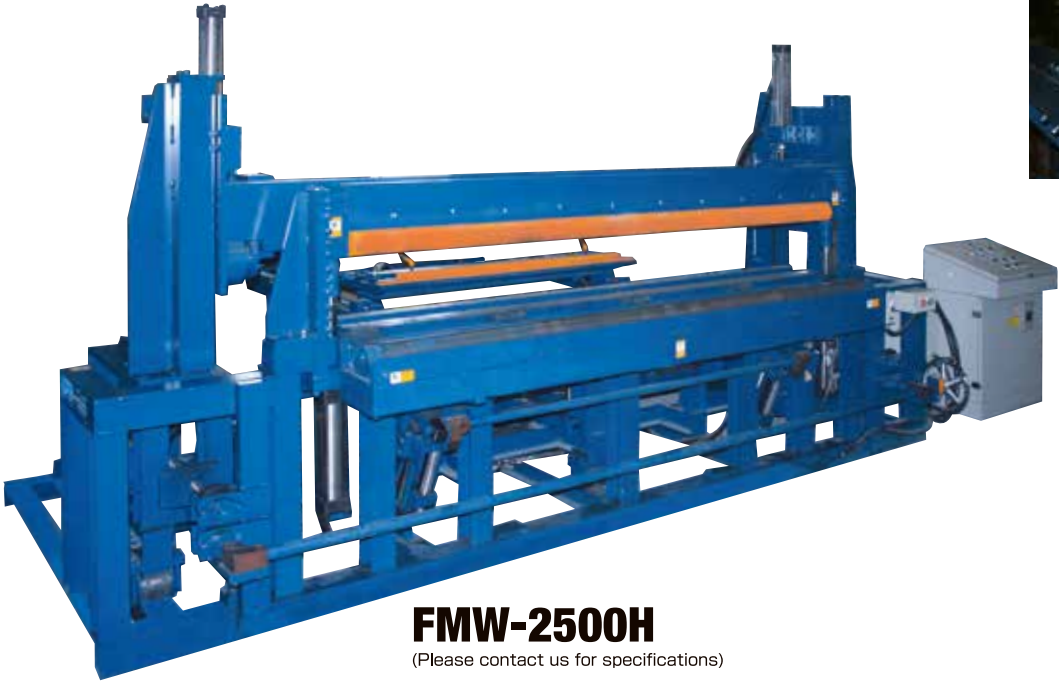
## FMG-6-30 (Make-To-Order Model)



Capable of bending crank part by one procedure

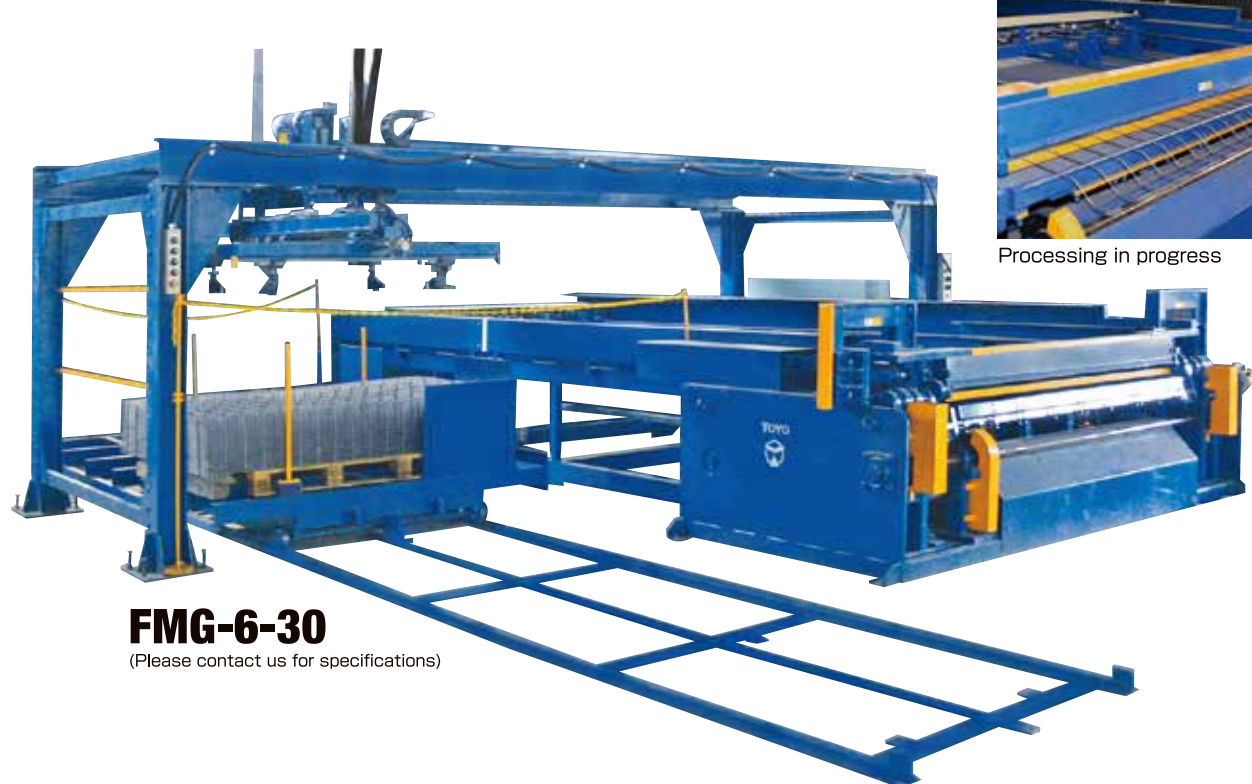


Processing in progress



FMW-2500H  
(Please contact us for specifications)

Automatic feeding & processing



Processing in progress

FMG-6-30  
(Please contact us for specifications)

MESH&SLAB BENDER



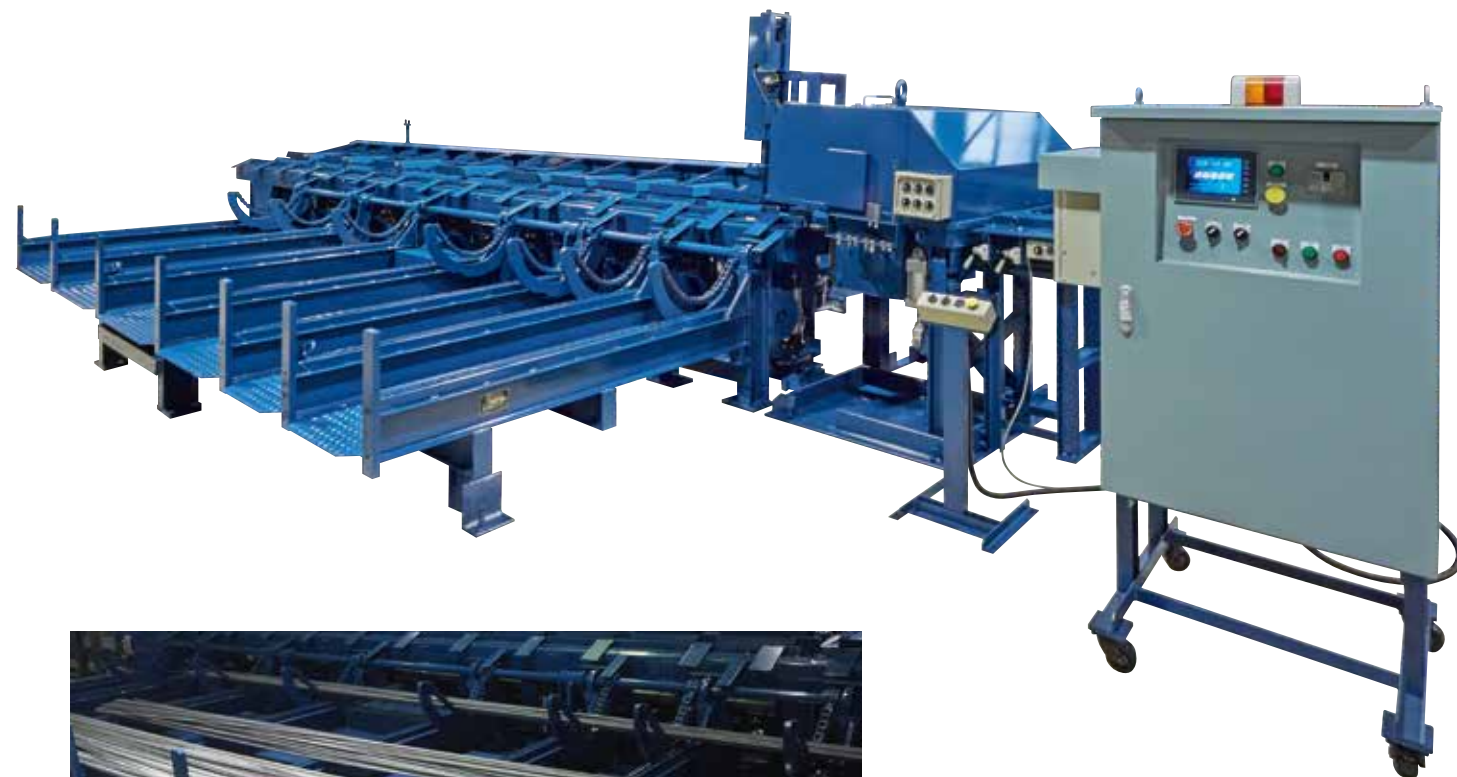


# SLAB BENDER TEB-19-NC <sup>D10-D19</sup> <sub>Bend</sub>

(Make-To-Order Model) **TOYO** Recommended

Most suitable for bending slabs

Proposed Case for Improving Productivity of Single Anchor Bending  
Capable of a series of works from cutting to bending slabs, which shortens working time drastically.



Bending in process

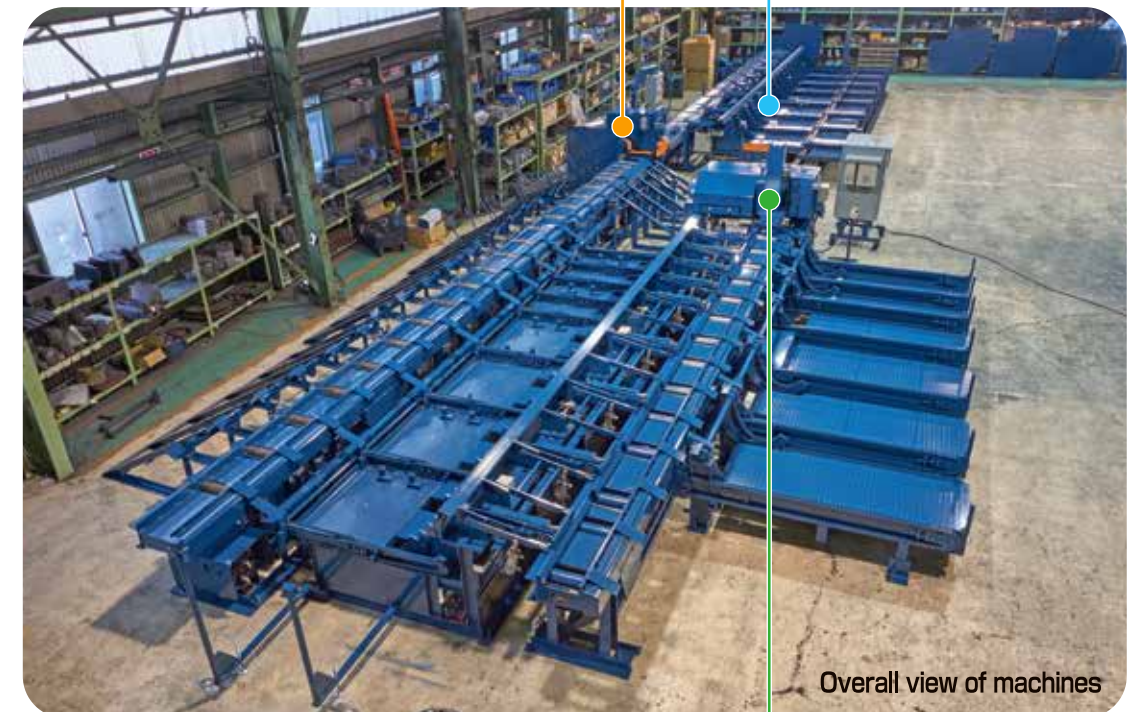
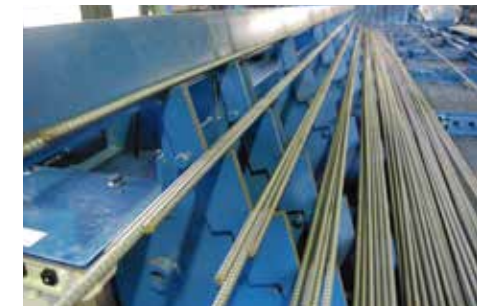
Machine & Processing Specifications				
Specifications				
TEB-19-NC (6.5m)				
Required breaker capacity	75A (excluding air-compressor)			
Bending length range	1,750~6,500mm			
Bending angle	15~135° (D10, D13) 15~180° (D16, D19)			
Bending unit revolution	8.0rpm			
Total motor capacity	13.35kW (excluding air-compressor)			
Dimensions (L×W×H)	6,500×9,100×2,000mm			
Total weight	11,400kg			
Rebar diameter	D10	D13	D16	D19
	20	15	10	4

Please contact us for specifications.

## CUTTING MACHINE TFC-LA <sub>Cut</sub>



## SORTING & FEEDING DEVICE TAS-II <sub>arry</sub>



Overall view of machines

## BENDING MACHINE FOR SLAB REINFORCEMENT TEB-19-NC <sub>Bend</sub>



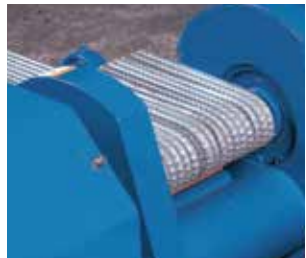




# SLAB BENDER

## EB-19<sup>D10-D19</sup><sub>B<sup>end</sup></sub> / EB-16<sup>D10-D16</sup><sub>B<sup>end</sup></sub>

Best model for mass production of single anchor 10mm×20pcs. at one time



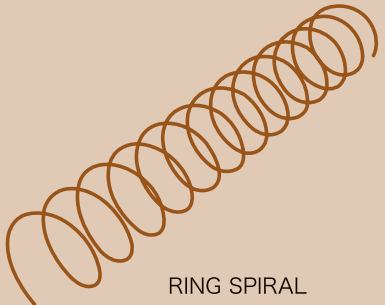
EB-16

Machine & Processing Specifications		EB-19	EB-16
Specifications			
Required breaker capacity		30A	30A
Bending angle		15~180°	15~180°
Bending unit revolution		5.4~6.7rpm (50/60Hz)	4.2~5.1rpm (50/60Hz)
Total motor capacity		3.7kW (excluding air-compressor)	2.2kW (excluding air-compressor)
Dimensions (L×W×H)		2,050×1,700×1,000mm	2,280×1,585×935mm
Total weight		1,200kg	900kg

Simultaneous Max. Bending Quantity (pcs.)

Model	Rebar diameter	D10	D13	D16	D19
EB-19	Fulcrum roller dia.	φ39	φ53	φ64	φ74
	SD345	20	15	13	7
	SD390	20	13	10	6
EB-16	Fulcrum roller dia.	φ39	φ39	φ53	φ39
	SD345	20	15	8	10
	SD390	20	13	6	8

Optional air compressor (0.4kW) is required to operate EB19/EB-16



RING SPIRAL



STANDARD CUTTER & BENDER & RING SPIRAL MACHINE

- REBAR CUTTER  
C-33/C-43
- MC-41/MC-51W/MC-64
- REBAR BENDER  
B-16/B-25/B-33
- DIAL-TYPE REBAR BENDER  
B-16-DA/B-16-DR/B-25-D
- B-40SII/B-52S
- Large Radius Parts
- BENDER FOR LARGE DIAMETER  
B-80
- CIRCULAR BENDER  
R-22/R-32/R-41/R-52
- HYDRAULIC CIRCULAR BENDER  
R-32-U/R-41-U/R-52-U
- R-32-3R/R-41-2R/R-52-3R
- REBAR BENDER  
GRID BENDER
- CRANK BENDER  
B-22-HW
- RING SPIRAL MACHINE  
TRS-100/600
- R-13







# REBAR CUTTER

C-33/C-43

Long-selling and highly-reliable series



C-33



C-43

## Machine & Processing Specifications

Specifications	C-33	C-43
Motor Capacity	1.5kW	2.2kW
Required breaker capacity	30A	30A
Revolution	40.0 / 48.0 rpm(50/60Hz)	38.0 / 46.0 rpm(50/60Hz)
Dimensions (L×W×H)	555×615×930mm	580×710×1,045mm
Total weight	460kg	600kg

Simultaneous Max. Cutting Quantity (pcs.)

Model	Rebar diameter	D10	D13	D16	D19	D22	D25	D29	D32	D35	D38	D41
C-33	SD345	7	5	4	2	2	1	1	1	—	—	—
	SD390	7	5	3	2	1	1	1	—	—	—	—
C-43	SD345	8	6	5	4	3	2	1	1	1	1	1
	SD390	8	6	5	3	2	2	1	1	1	1	—



Higher capacity models

# REBAR CUTTER

MC-41/MC-51W/MC-64

Designed to cut high-strength rebar



MC-41



MC-51W



MC-64

## Machine & Processing Specifications

Specifications	MC-41	MC-51W	MC-64
Motor Capacity	2.2kW	3.7kW	5.5kW
Required breaker capacity	30A	60A	100A
Revolution	34.0 / 40.0 rpm(50/60Hz)	23.6 / 27.7 rpm(50/60Hz)	22.6 rpm(50/60Hz)
Dimensions (L×W×H)	630×975×1,015mm	690×1,235×1,130mm	750×1,260×1,380mm
Total weight	900kg	1,590kg	2,000kg

Simultaneous Max. Cutting Quantity (pcs.)

Model	Rebar diameter	D10	D13	D16	D19	D22	D25	D29	D32	D35	D38	D41	D51
MC-41	SD390	10	8	6	4	3	2	2	1	1	1	1	—
	SD490	10	8	5	3	2	2	1	1	1	—	—	—
MC-51W	SD390	16	12	10	7	5	4	3	2	2	1*	1*	1*
	SD490	16	12	10	5	4	3	2	2	1	1*	1*	—
MC-64	SD345	—	—	—	—	—	4	4	3	3	2*	2*	1*
	SD390	—	—	—	—	—	4	3	2	2	2*	1*	1*
	SD490	—	—	—	—	—	4	3	2	2	1*	1*	1*

\* Upper blade should be replaced with the blade for large rebar.

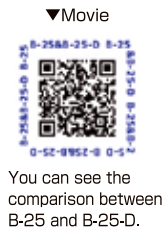




# REBAR BENDER <sup>Bend</sup>

## B-16/B-25/B-33

Long-selling and highly-reliable series



Machine & Processing Specifications		B-16	B-25	B-33
Specifications				
Motor Capacity		1.5kW	1.5kW	2.2kW
Required breaker capacity		30A	30A	30A
Revolution	50Hz	24.2 rpm	8.2/12.2 rpm(Low/High speed)	7.2/10.7 rpm(Low/High speed)
	60Hz	29.1 rpm	9.8/14.7 rpm(Low/High speed)	8.6/12.9 rpm(Low/High speed)
Dimensions (L×W×H)		690×740×855mm	785×755×855mm	950×970×875mm
Height of processing surface		755mm	750mm	750mm
Total weight		190kg	315kg	460kg

Simultaneous Max. Bending Quantity (pcs.)

Model	Rebar diameter	D10	D13	D16	D19	D22	D25	D29	D32
B-16	SD345	4	3	1	—	—	—	—	—
	SD390	4	2	1	—	—	—	—	—
B-25	SD345	5	4	2	1	1*	1*	—	—
	SD390	5	4	1	1	1*	—	—	—
B-33	SD345	—	—	3	2	1	1	1*	1*
	SD390	—	—	3	2	1	1	1*	—

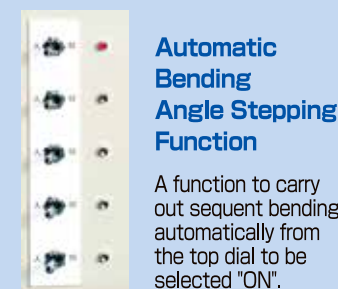
\*Should be bent at low speed. B-16 should be bent only with ø36 fulcrum roller.



# DIAL-TYPE REBAR BENDER <sup>Bend</sup>

## B-16-DA/B-16-DR/B-25-D

Suitable for processing hoop & stirrup  
Angle setting with "Automatic Bending Angle Stepping Function"



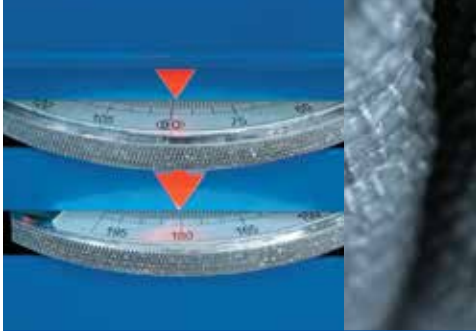
Machine & Processing Specifications		B-16-DA	B-16-DR	B-25-D
Specifications				
Motor Capacity		1.5kW	1.5kW	1.5kW
Required breaker capacity		30A	30A	30A
Revolution	50Hz	24.2 rpm	24.2 rpm	8.2/12.2 rpm(Low/High speed)
	60Hz	29.1 rpm	29.1 rpm	9.8/14.7 rpm(Low/High speed)
Dimensions (L×W×H)		690×715×855mm	560×640×830mm	670×805×855mm
Height of processing surface		755mm	750mm	750mm
Total weight		200kg	210kg	315kg

Simultaneous Max. Bending Quantity (pcs.)

Model	Rebar diameter	D10	D13	D16	D19	D22	D25
B-16-DA	SD345	4	3	1	—	—	—
	SD390	4	2	1	—	—	—
B-16-DR	SD345	4	3	1	—	—	—
	SD390	4	2	1	—	—	—
B-25-D	SD345	5	4	2	1	1*	1*
	SD390	5	4	1	1	1*	—

\*Should be bent at low speed. B-16-DA/B-16-DR should be bent only with ø36 fulcrum roller.





# Higher capacity models

## DIAL-TYPE REBAR BENDER

**B-40SII/B-52S**

Capable of setting 2-kind of bending angles  
Designed to bend high-strength rebar



Machine & Processing Specifications			
Specifications		B-40SII	B-52S
Motor Capacity		3.7kW	7.5kW
Required breaker capacity		50A	60A
Revolution	50Hz	5.2 / 7.6 rpm (Low/High speed)	2.2 / 3.3 rpm (Low/High speed)
	60Hz	6.2 / 9.2 rpm (Low/High speed)	2.7 / 4.0 rpm (Low/High speed)
Dimensions (L×W×H)		1,100×1,150×885mm	1,250×1,200×975mm
Height of processing surface		750mm	802mm
Total weight		810kg	1,680kg

Simultaneous Max. Bending Quantity (pcs.)

Model	Rebar diameter	D16	D19	D22	D25	D29	D32	D35	D38	D41	D51
B-40SII	SD390	3	3	2	2	2*	1*	1*	1*	—	—
	SD490	3	3	2	2*	1*	1*	1*	—	—	—
B-52S	SD390	—	—	—	2	2	2	1	1*	1*	1*
	SD490	—	—	—	2	2	2	1	1*	1*	1*

5D & 6D fulcrum rollers are optional for B-40SII. 4D & 5D fulcrum rollers are optional for B-52S. \*Should be bent at low speed.



Option

## Large Radius Parts

For large construction work such as high-rise building, highway, subway, etc.

Parts for Large R			
Model	Power Point Arm	Fulcrum Roller	Bending R (Diameter)
B-25 B-25-D			φ150 φ200
B-33			φ250 φ300 φ400 φ500 φ600
B-40SII			φ250 φ300 φ400 φ500 φ600
			Make-To-Order Parts φ700 φ800

Bending angle is up to 90°



Large R processing in progress

Rebar Processing Table



STANDARD CUTTER&BENDER  
& RING SPIRAL MACHINE





# BENDER FOR LARGE DIAMETER

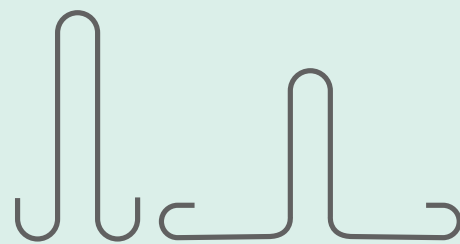
**B-80** (Make-To-Order Model)

Suitable for processing caisson hook bar



**B-80**  
(Please contact us for specifications.)

Bending Shape Examples



# CIRCULAR BENDER

**R-22/R-32/R-41/R-52**

For reinforcement, foundation of bridge girder,  
round pillar, etc.



**R-22**



**R-32**



**R-41**



**R-52**

Machine & Processing Specifications					
Specifications		R-22	R-32	R-41	R-52
Rebar diameter to be fabricated		D10~D22	D13~D32	D25~D41	D32~D51
Motor Capacity		1.5kW	2.2kW	3.7kW	5.5kW
Required breaker capacity		30A	30A	30A	50A
Feeding speed	50Hz	8.1 m/min	9.0/13.8 m/min(Low/High speed)	—	—
	60Hz	9.2 m/min	11.1/16.6 m/min(Low/High speed)	—	—
Revolution of driving roller	50Hz	—	—	20.2 rpm	13.2/19.8 rpm(Low/High speed)
	60Hz	—	—	24.4 rpm	15.9/23.8 rpm(Low/High speed)
Outer dimension of driving roller		φ126	φ205	φ245	φ295
Dimensions (L×W×H)		690×680×850mm	820×790×900mm	1,100×985×955mm	1,240×1,400×900mm
Height of processing surface		750mm	750mm	—	—
Height of material feeding		—	—	850mm	860mm
Total weight		200kg	450kg	750kg	1,750kg





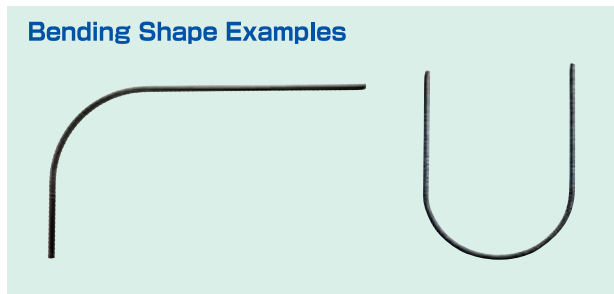
# HYDRAULIC CIRCULAR BENDER <sup>Bend</sup>

## R-32-U/R-41-U/R-52-U

Capable of ring bending, U-shaped bending, and large R bending.



R-32-U



R-52-U



R-41-U

### Machine & Processing Specifications

Specifications		R-32-U	R-41-U	R-52-U
Rebar diameter to be fabricated		D13~D32	D25~D41	D32~D51
Total motor capacity		2.45kW	3.95kW	7.0kW
Required breaker capacity		30A	40A	40A
Revolution of driving roller	50Hz	14.3 / 21.5 rpm (Low/High speed)	20.2 rpm	12.6 / 19.0 rpm (Low/High speed)
	60Hz	17.2 / 25.8 rpm (Low/High speed)	24.4 rpm	15.2 / 22.8 rpm (Low/High speed)
Outer dimension of driving roller		φ205	φ245	φ295
Dimensions (L×W×H)		950×1,000×950mm	1,040×1,170×955mm	1,470×1,585×960mm
Height of processing surface		750mm	—	—
Height of material feeding		—	850mm	860mm
Total weight		650kg	900kg	1,750kg

Please contact us for the specifications of R-52-U.



# HYDRAULIC CIRCULAR BENDER <sup>Bend</sup>

## R-32-3R/R-41-2R/R-52-3R

Capable of continuous bending with 2 or 3-kind radiuses.



R-32-3R



R-52-3R



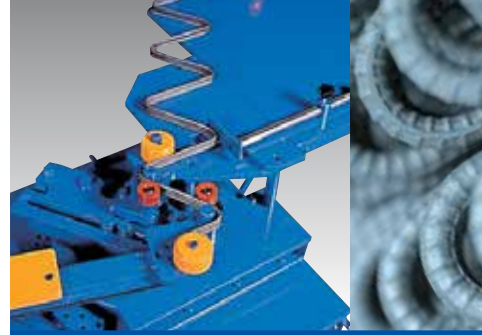
R-41-2R

Dimension setting time can be shortened by inching memory function

### Machine & Processing Specifications

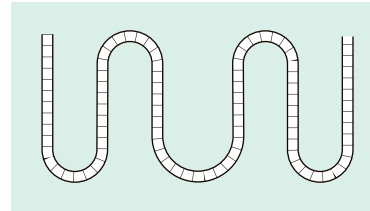
Specifications		R-32-3R	R-41-2R	R-52-3R
Rebar diameter to be fabricated		D13~D32	D25~D41	D32~D51
Total motor capacity		2.45kW	3.95kW	5.95kW
Required breaker capacity		30A	40A	50A
Revolution of driving roller	50Hz	12.7 / 19.0 m/min (Low/High speed)	20.2 rpm	9.4 / 14.1 rpm (Low/High speed)
	60Hz	15.2 / 22.8 m/min (Low/High speed)	24.4 rpm	11.3 / 17.0 rpm (Low/High speed)
Outer dimension of driving roller		φ245	φ245	φ395
Dimensions (L×W×H)		970×1,000×1,040mm	1,380×1,400×1,160mm	1,750×2,050×1,300mm
Height of processing surface		750mm	—	—
Height of material feeding		—	850mm	890mm
Total weight		800kg	1,000kg	3,000kg





## REBAR BENDER GRID BENDER **B<sup>end</sup>**

Suitable for bending  
grid shape



Machine & Processing Specifications	
Specifications	
GRID BENDER	
Required breaker capacity	
30A	
Motor capacity	
1.5kW	
Revolution	50Hz
	60Hz
8.2 / 12.2 rpm (Low/High speed)	
9.8 / 14.7 rpm (Low/High speed)	
Dimensions (L×W×H)	
890×790×945mm	
Height of processing surface	
880mm	
Total weight	
420kg	

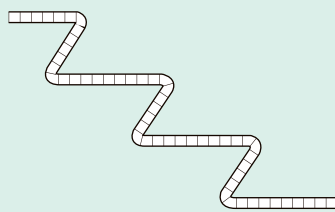
Simultaneous Max. Bending Quantity (pcs.)

Rebar diameter	φ9 (SS400)	D10	D13	D16
SD345	2	2	1	1

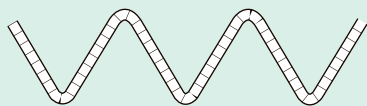
Min. diameter of fulcrum roller to be installed:φ32 / Max. diameter of fulcrum roller to be installed:φ300

## CRANK BENDER B-22-HW **B<sup>end</sup>**

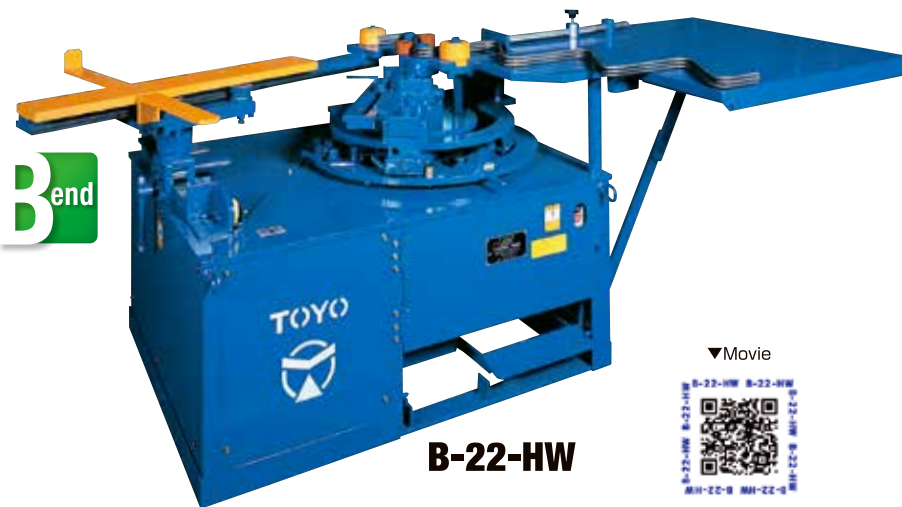
Stairs bending shape



Lattice bending shape



Crank bending shape



**B-22-HW**

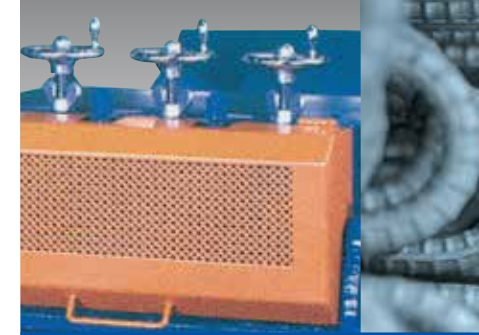
▼Movie



Machine & Processing Specifications	
Specifications	
Required breaker capacity	
Motor capacity	
Revolution	50Hz
	60Hz
Dimensions (L×W×H)	
Height of processing surface	
Total weight	

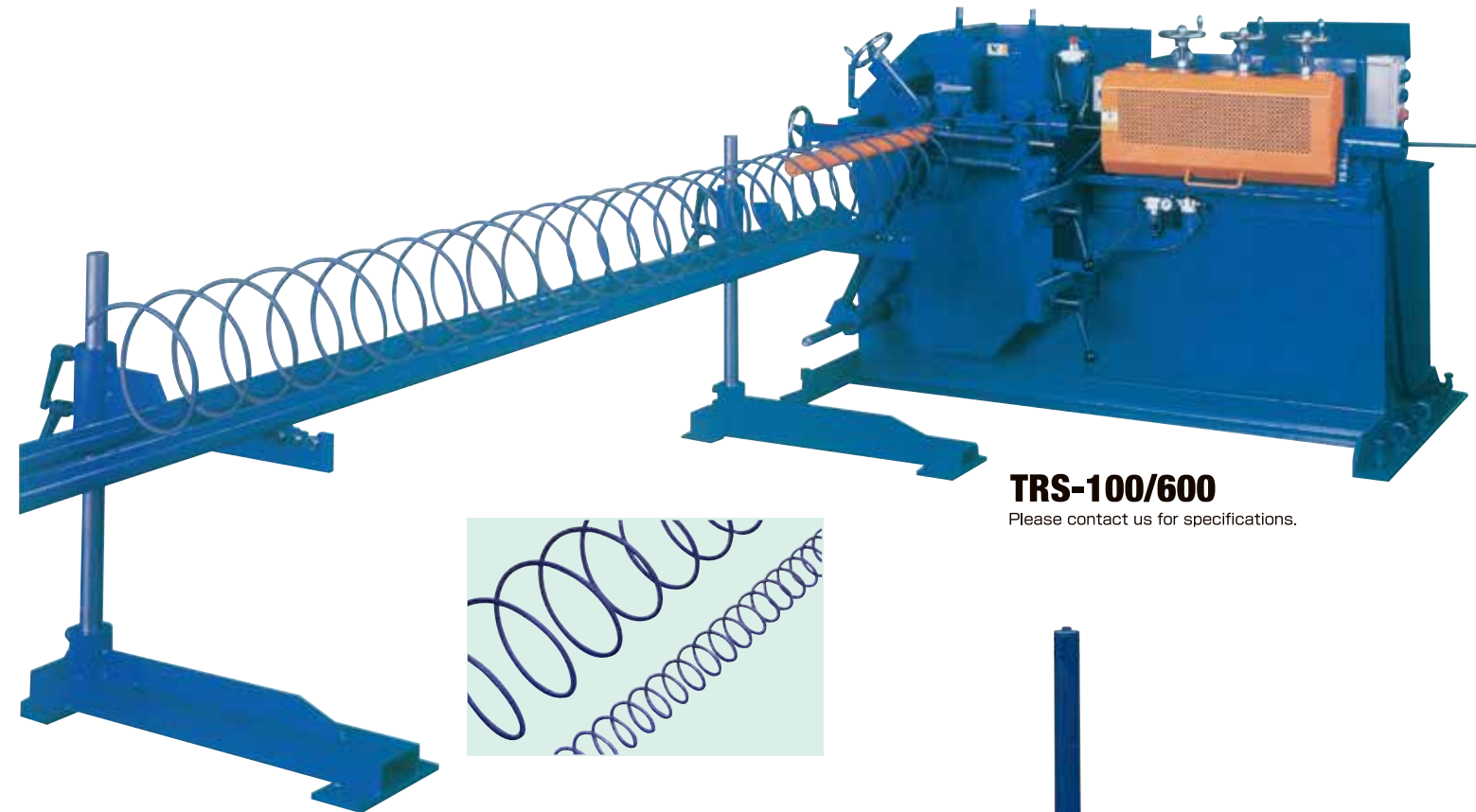
Simultaneous Max. Bending Quantity (pcs.)						
Rebar diameter		D10	D13	D16	D19	D22
Stairs	SD345	3※	2※	—	—	—
Lattice	SD345	3※	2※	1※	—	—
Crank	SD345	3	2	1	1※	1※

※Should be bent at low speed.



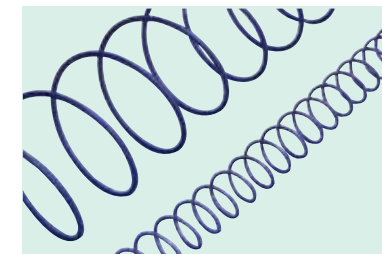
## RING SPIRAL MACHINE TRS-100/600 (Make-To-Order Model) R-13 (Make-To-Order Model) **B<sup>end</sup>**

For ring spiral shape  
Suitable for processing reinforcement



**TRS-100/600**

Please contact us for specifications.



**R-13**

Please contact us for specifications.

STANDARD CUTTER&BENDER  
& RING SPIRAL MACHINE



Rebar to be used for reinforced-concrete structure

Japanese Industrial Standards (JIS) specifies and defines round steel bars and deformed steel bars manufactured by hot rolling. There are 2 kinds for the round steel bars and 4 kinds for the deformed steels bars defined as reinforced-concrete steel bars as shown in the table below.

Category	Material marking	Yield Point (N/mm2)	Tensile Strength (N/mm2)
Round steel bar	SR245	235 or over	380~520
	SR295	295 or over	440~600
Deformed steel bar	SD295A	295 or over	440~600
	SD295B	295~390	440 or over
	SD345	345~440	490 or over
	SD390	390~510	560 or over
	SD490	490~625	620 or over

Weight list per one piece of rebar (JIS G 3112) (Unit: kg)

<div>Diameter Length</div>	D6	D10	D13	D16	D19	D22	D25	D29	D32	D35	D38	D41	D51
1.0	0.249	0.56	0.995	1.56	2.25	3.04	3.98	5.04	6.23	7.51	8.95	10.5	15.9
3.5	0.872	1.96	3.48	5.46	7.88	10.6	13.9	17.6	21.8	26.3	31.3	36.8	55.6
4.0	0.996	2.24	3.98	6.24	9.00	12.2	15.9	20.2	24.9	30.0	35.8	42.0	63.6
4.5	1.12	2.52	4.48	7.02	10.1	13.7	17.9	22.7	28.0	33.8	40.3	47.2	71.6
5.0	1.24	2.80	4.98	7.80	11.2	15.2	19.9	25.2	31.2	37.6	44.8	52.5	79.5
5.5	1.37	3.08	5.47	8.58	12.4	16.7	21.9	27.7	34.3	41.3	49.2	57.8	87.4
6.0	1.49	3.36	5.97	9.36	13.5	18.2	23.9	30.2	37.4	45.1	53.7	63.0	95.4
6.5	1.62	3.64	6.47	10.1	14.6	19.8	25.9	32.8	40.5	48.8	58.2	68.2	103
7.0	1.74	3.92	6.96	10.9	15.8	21.3	27.9	35.3	43.6	52.6	62.6	73.5	111
7.5	1.87	4.20	7.46	11.7	16.9	22.8	29.8	37.8	46.7	56.3	67.1	78.8	119
8.0	1.99	4.48	7.96	12.5	18.0	24.3	31.8	40.3	49.8	60.1	71.6	84.0	127
8.5	2.12	4.76	8.46	13.3	19.1	25.8	33.8	42.8	53.0	63.8	76.1	89.2	135
9.0	2.24	5.04	8.96	14.0	20.2	27.4	35.8	45.4	56.1	67.6	80.6	94.5	143
9.5	2.37	5.32	9.45	14.8	21.4	28.9	37.8	47.9	59.2	71.3	85.0	99.8	151
10.0	2.49	5.60	9.95	15.6	22.5	30.4	39.8	50.4	62.3	75.1	89.5	105	159
10.5	2.61	5.88	10.4	16.4	23.6	31.9	41.8	52.9	65.4	78.9	94.0	110	167
11.0	2.74	6.16	10.9	17.2	24.8	33.4	43.8	55.4	68.5	82.6	98.4	116	175
11.5	2.86	6.44	11.4	17.9	25.9	35.0	45.8	58.0	71.6	86.4	103	121	183
12.0	2.99	6.72	11.9	18.7	27.0	36.5	47.8	60.5	74.8	90.1	107	126	191

Bending standard (JASS5 : 2010)

List 1 Bending shape & dimension in the edge of rebar

Bending angle	Pictures	Rebar material	Classification by rebar dia.	Inner diameter of bending rebar
180° 135° 90°		SR235, SRR235	under dia.16mm	3d or over (1)
		SR295, SRR295B SD295A, SD295B	under dia.16mm under D16	3d or over
			dia.19mm D19~D38	4d or over
		SDR295, SD345, SDR345	D41	5d or over
			D16~D41	5d or over

Remarks : (1) “d” indicates diameter for round bar and nominal dia. for deformed bar.  
(2) Over 4d is acceptable for extra length used for the upper-end bar in cantilevered slab and free edge in wall.

List 2 Bending shape & dimension in the middle of rebar

Bending angle	Pictures	Name depending on the position of rebar	Rebar material	Classification by rebar dia.	Inner diameter of bending rebar
under 90°		hoop stirrup spiral slab wall	SR235, SRR235 SD295A, SD295B	under dia.16mm under D16	3d or over (1)
			SDR295, SR295 SRR295, SD345, SDR345	dia.19mm D19	4d or over
		Main bar for column, beam wall, slab footing beam	SD295A, SD295B	under D16	4d or over
			SDR295, SD345, SDR345 SD390	D19~D25 D29~D41	6d or over 8d or over

Remarks : (1) “d” indicates diameter for round bar and nominal dia. for deformed bar.



# IoT changes rebar processing factory; improving the efficiency and generating the best outcome.

Towards the era of IoT  
**TOYO**

Machines send out the data related to production status and maintenance timing, based on which preventive maintenance can be made, and bottleneck can be eliminated.



Maintenance  
Information



Factory  
Management  
Analysis



Rebar Detailing  
Software  
Information



Process  
Management



Quality  
Control



- Alarm detection
- Cutting blade replacing timing



## Keep production running

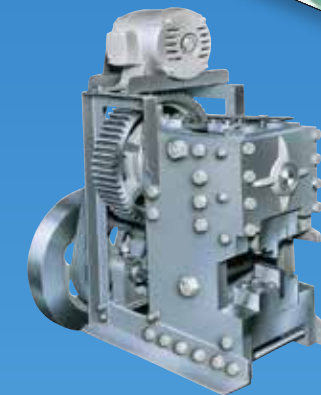
Information analysis with and through IoT turns "Corrective maintenance" to "Preventive maintenance."

## Provide factory management information

Information analysis with and through IoT will help solve issues and bottlenecks in processing factories.

# Company Profile

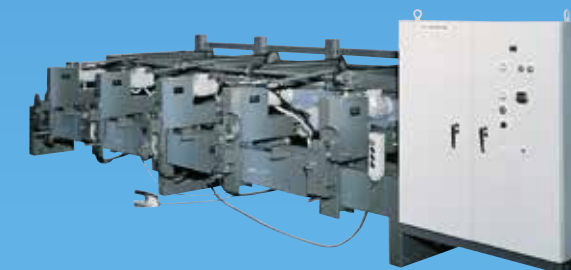
since 1933



1950's • Rebar cutter



1950's • Rebar bender



1980 • Automatic rebar bending machine

▼Movie





# Manufacturing Factories: Giving Shape to Trusted Technology for Customer

We have four factories in Japan, all of which have production engineering departments. These factories have the latest facilities to produce and support standard machines, automatic machines, computer systems and large-scale line systems. We have embodied and will embody Toyo's technology, responding to customers' trust by close collaboration of our sales, engineering and manufacturing teams.



Tokyo Factory



Torikai (Osaka Pref.) Factory



Fukuoka Factory



Hino (Shiga Pref.) Factory

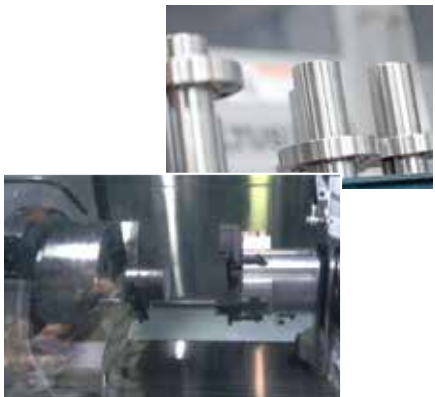


Primary  
manufacturing  
facilities

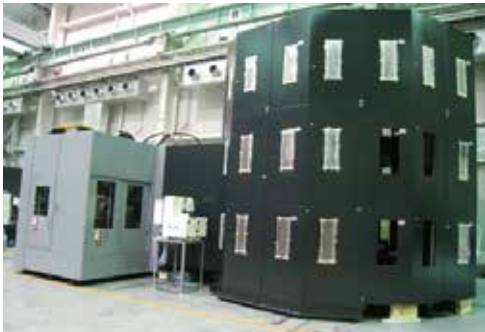
Automatic welding  
robot, Machining  
centers, Combined  
lathes, NC lathes,  
etc.



Combined Lathe



Machining center (OKK)





# Fundamental Technologies to Build the Trust, Development Technologies to Build the Future.



1. AN ENTERPRISE CONTINUES TO EXIST AS LONG AS SOCIETY NEEDS IT.
2. SERVE SOCIETY WITH INDIVIDUAL CHARACTERISTICS AND SKILLS.
3. LEAD THE INDUSTRY OF REBAR PROCESSING MACHINES.



## Company Outline



It has already been more than 70 years since we started our business as a rebar processing machine manufacturer.

History of rebar processing machines is also Toyo's history itself.

The tasks assigned to us as a pioneer of the industry have been raising the bar with the times. We have been accomplishing these tasks one by one, and at the same time, the said fact have been growing strong spirit to create the way to the future in the mind of all of our staff members.

We will continue to value close communication with clients, suppliers and all the stakeholders, and will make a fresh start for the creation of required “Technology”, acceptable “Products” and trustworthy “Enterprise” and for creation of new TOYO.

Yasuo Tanaka, President



### TOYO Company Profile

Founded	August, 1933
Incorporated	July, 1959
Capital	J. Yen 100,000,000.-
Business	Development, designing, manufacturing and sales of the followings: Rebar processing machine (Cutter, Bender, Automatic Machine) Line system, FA system, Calculation system, Processing data communication system, etc.
Employee	200
Head office	Osaka
Factory	Tokyo, Hino (Shiga Pref.), Torikai (Osaka Pref.), Fukuoka
Sales office	Sendai, Tokyo, Nagoya, Osaka, Hiroshima, Fukuoka

### Corporate History

AUG. 1933	Started business in iron industry at the present location of head office
MAR. 1950	Developed first rebar cutter and rebar bender in Japan
JUL. 1959	Established Toyo Kensetsu Kohki Co., Ltd.
JUN. 1960	Set up Fukuoka Factory
OCT. 1961	Set up Tokyo Factory
APR. 1962	Developed roller-type rebar bender
DEC. 1962	Set up Sendai Factory (present Sendai Sales Office)
AUG. 1964	Set up Yokohama Sales Office
DEC. 1967	Set up Torikai Factory
JUN. 1969	Set up Nagoya Sales Office
FEB. 1970	Received the investment from Small and Medium Business Investment & Consultation Co., Ltd.
FEB. 1971	Set up Hiroshima Sales Office
APR. 1971	Set up the first overseas distributor in Singapore (overseas distributors in more than 20 countries at present)
MAR. 1974	Increased capital to 100,000,000 yen
OCT. 1974	Developed automatic rebar cutting machine
APR. 1980	Developed automatic rebar bending machine
APR. 1982	Developed Line system for rebar processing
APR. 1985	Set up Hino Factory
APR. 2000	Acquired ISO9001 certification for Quality Management System
NOV. 2010	Participated in Zhejiang Ministry Recommendation Japanese Construction Material and Method of Construction Conference
FEB. 2013	Participated in bc India 2013
APR. 2013	Participated in Steel Processing Delivery Industrialization Development Summit in China
NOV. 2014	Participated in bauma China 2014
NOV. 2017	Participated in REBAR EXPO 2017
JAN. 2019	Hiroshima Sales Office relocated
JUL. 2019	New head office building completed