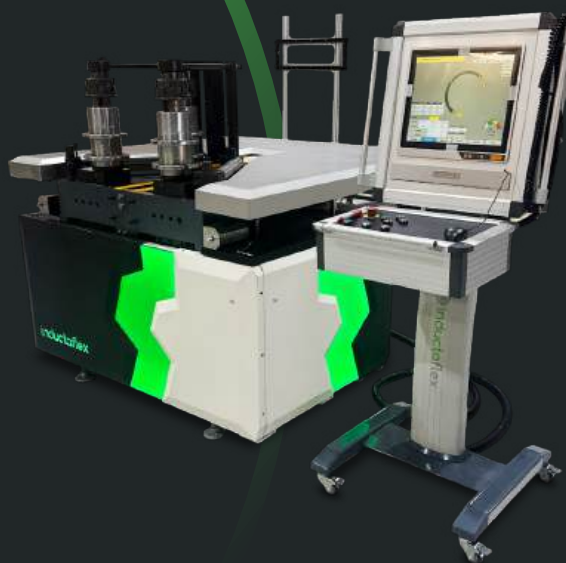




## FLEXIBLE - COMPACT - PRECISION

- 3D Bending Capable
- Reliable and Affordable



# PROFILE BENDING MACHINES

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# INTRODUCTION



## WHO ARE WE?

Aluminum profile forming machine manufacturer with **the widest range of machines in the World** to produce the best result.

8 styles of bending machine,  
traditional roller benders  
die benders  
stretch formers



## SUSTAINABILITY

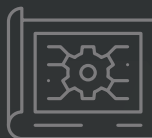
- Our machines are all servo or servo/ hybrid 70% power saving
- Faster achievement of Net Zero
- Industry 4.0 capable

Inductaflex produces no hazardous waste  
95% of our own machines are servo electric  
We hit Net Zero by 2029 at all sites.



## RANGE OF SOLUTIONS

We bend in 2 and 3 dimensions.  
Simple CNC benders  
Complex bend and machining cells



## LOCATIONS

**We design and manufacture from 3 locations around the World.**

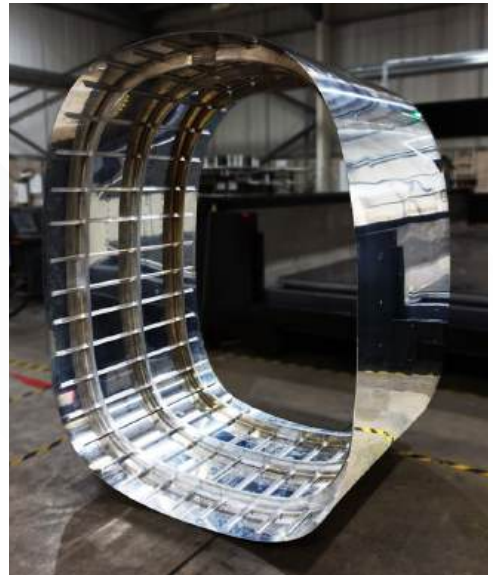
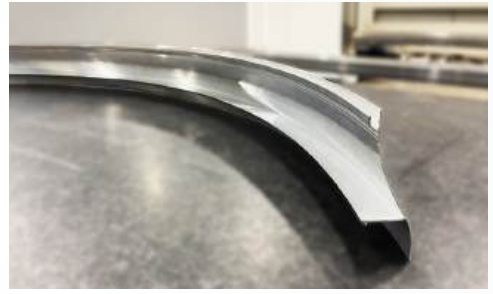
- UK - large Induction Benders
- Vietnam - Roller Benders and Bend Cells
- USA - Robot Development and Stretch formers
- South China - Machine frames





# PRODUCTS

## BENDING PRODUCTS



## Roller Bending Vertical

### 2D CNC PROFILE BENDING MACHINE

# AL-12



### TECHNICAL DATA

X-axis Bending force: **12T**

Y/Z-axis Resolution: **0.01mm**

3 Individually driven rollers, Infinitely variable: **1-20rpm**

Front rollers infinitely adjustable: **180-390mm**

Tool holder Ø: **50mm**

Rollers Height: **180mm**

Torque: **1700N.m**

Travel (controlled Y-axis): **165mm**

Hydraulic drive: **2.2KW**

Roller drive, electrical: **2.4KW**

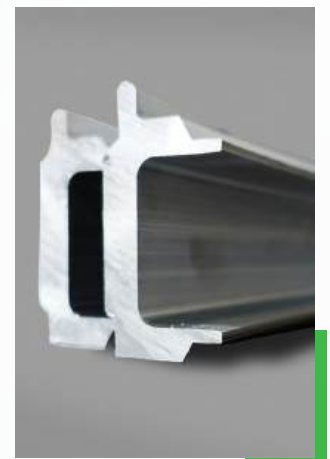
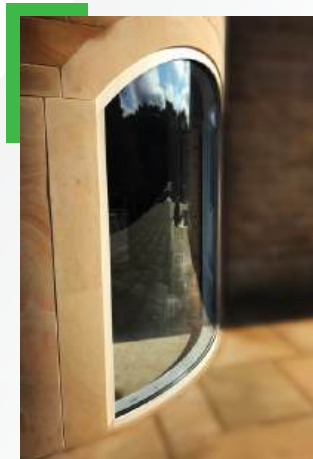
Power supply: **380V 50Hz 17A**

Weight: **1000Kg**

L x W x H: **1731 x 674 x 1670**

### SUITABLE MARKETS / BENDING ABILITY

- Window profiles
- Mass production with robot
- Automotive part manufacture
- 2D multiple radius
- Bending to end function





Roller Bending Vertical

3D CNC PROFILE BENDING MACHINE

**AL-15-3D**



## TECHNICAL DATA

X-axis Bending force: **15T**

Y/Z-axis Resolution: **0.01mm**

3 Individually driven rollers, Infinitely variable: **1-14rpm**

Front rollers infinitely adjustable: **258-518mm**

Tool holder Ø: **60mm**

Rollers Height: **250mm**

Torque: **2470N.m**

Travel (controlled Y-axis): **255mm**

Hydraulic drive: **3.7KW**

Roller drive, electrical: **3KW**

Power supply: **380V 50Hz 17A**

Weight: **2100Kg**

L x W x H: **2200 x 1000 x 1850**

## SUITABLE MARKETS / BENDING ABILITY

- High speed 3D automotive part manufacture
- LED light frames
- Car roof rails
- 3D bending
- Mandrel forming



## Roller Bending Horizontal

### 2D CNC PROFILE BENDING MACHINE

# AL-15-H



### TECHNICAL DATA

X-axis Bending force: **15T**

Y/Z-axis Resolution: **0.01mm**

3 Individually driven rollers, Infinitely variable: **1-14rpm**

Front rollers infinitely adjustable: **258-518mm**

Tool holder Ø: **80mm**

Rollers Height: **250mm**

Torque: **2470N.m**

Travel (controlled Y-axis): **255mm**

Hydraulic drive: **3.7KW (Optionally Servomotor 5.5KW)**

Roller drive, Electrical: **3KW**

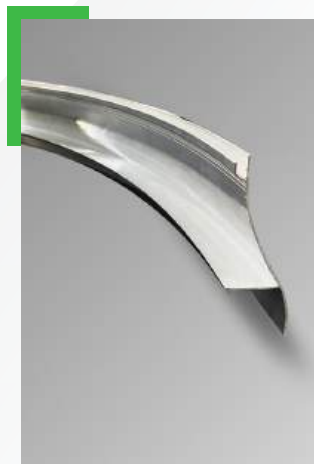
Power supply: **380V 50Hz 17A**

Weight: **1800Kg**

L x W x H: **1249 x 1134 x 1432**

### SUITABLE MARKETS / BENDING ABILITY

- Window profiles
- Tall profiles up to 200mm (8")
- Long length profiles
- 2D multiple radius
- 'S' bending of profiles
- Bending to end function



## Roller Bending Horizontal

## 2D CNC PROFILE BENDING MACHINE

**AL-25-H****SUITABLE MARKETS / BENDING ABILITY**

- Curtain Wall profiles
- Tall profiles up to 280mm (11")
- Long length profiles
- Heavy duty bends
- 2D multiple radius
- 'S' bending of profiles
- Bending to end function

**TECHNICAL DATA**X-axis Bending force: **25T**Y/Z-axis Resolution: **0.01mm**3 Individually driven rollers, Infinitely variable: **1-14rpm**Front rollers infinitely adjustable: **362-762mm**Tool holder Ø: **105mm**Rollers Height: **330mm**Torque: **4847N.m**Travel (controlled Y-axis): **400mm**Hydraulic drive: **5.5KW**Roller drive, electrical: **4.4KW**Power supply: **380V 50Hz 20A**Weight: **2600Kg**L x W x H: **2037 x 1300 x 2148**

# INDUCTAFLEX ROLLER INFORMATION

	AL-12 V	AL-15 H	AL-25 H	AL-40 H	L-70 H
2D / 3D versions	2D and 3D	2D and 3D	2D and 3D	2D and 3D	2D and 3D
<b>X-axis</b>					
Bending force X-axis	12T	15T	25T	40T	70T
Drive of X-axis	Hybrid, servo hydraulic, clean, low noise - 70% energy savings	Hybrid, servo hydraulic, clean, low noise - 70% energy savings	Hybrid, servo hydraulic, clean, low noise - 70% energy savings	Hybrid, servo hydraulic, clean, low noise - 70% energy savings	Hybrid, servo hydraulic, clean, low noise - 70% energy savings
Stroke of Z/U-axis	100mm	150mm	150mm	150mm	150mm
Maximum part width	150	200	300	300	300
Positioning accuracy of the X-axis	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
<b>Y-axis</b>					
3 individual driven rollers speed	1-20rpm	1-14rpm	1-14rpm	1-10rpm	1-10rpm
Front shaft distance (roller spacing)	180 - 390mm	258-518mm	362-762mm	410-1510mm	800-1600mm
Shaft diameter	50mm	80mm	105mm	105mm	130mm
Shaft height	180mm	250mm	330mm	450mm	600mm
Total torque	1700Nm	2470Nm	4847Nm	7500Nm	11000Nm
Max Torque per shaft	850Nm	823Nm	1615Nm	3500Nm	45000Nm
Yaxis travel distance	165mm	255mm	400mm	500mm	650mm
Hydraulic drive	2.2kW	3.7kW	5.5kW	5.5kW	5.5kW
Shaft drive; individually driven!	Servo electric, clean, lownoise - 70% energy savings	Servo electric, clean, lownoise - 70% energy savings	Servo electric, clean, lownoise - 70% energy savings	Hybrid, servo hydraulic, clean, low noise - 70% energy saving	Hybrid, servo hydraulic, clean, low noise - 70% energy saving
Shaft supports	Standard	Standard	Standard	Standard	Standard, optional servo close
<b>Z-axis</b>					
Z-axis	Manual standard roller	Manual standard roller	Manual standard roller	Standard powered	Standard powered
Z axis powered option	Electric 1000 kg	Electric 2000 kg	Electric 4000 kg	Electric 5000 kg	Electric 7000 kg
<b>Control / Software:</b>					
Machine control	Intelligent CNC, reverse bending	Intelligent CNC, reverse bending	Intelligent CNC, reverse bending	Intelligent CNC, reverse bending	Intelligent CNC, reverse bending
Operating system	Windows	Windows	Windows	Windows	Windows
<b>General technical data:</b>					
KW	2.4kW	3kW	4.4kW	4.7kW	12.3kW
Power supply connection	3 x 400VAC, 50/60Hz, 17A	380V, 50Hz, 17A	380V, 50Hz, 20A	380V, 50Hz, 39A	380V, 50Hz, 50A
Length / width / height	1731x674x1670mm	1249x1134x1432mm	2037x1300x2148mm	2170x2075x1800mm	2520x2475x2148mm
Weight	1000kg (2D) 1100kg (3D)	1800kg	2600kg	3000kg	6000kg
Transportability of the machine	Pallet truck	Pallet truck	Fork truck	Fork truck	Crane
Hydraulic oil volume	60L	100L	180L	240L	320L
<b>Profile capacity:</b>					
Maximum profile size	60 x 60 x 3mm	80 x 80 x 3mm	100x 100 x3 mm	120x 120 x 3mm	120x 120 x 3mm
Minimum radius	T x 5mm	T x 5mm	T x 5mm	T x 5mm	T x 5mm



Rapid reverse bender

2D CNC PROFILE BENDING MACHINE

**S10T**

### TECHNICAL DATA

X-axis Bending force: **35T**

Y/Z-axis Resolution: **0.01mm**

3 Individually driven rollers, Infinitely variable: **1-15rpm**

Front rollers infinitely adjustable: **360-760mm**

Tool holder Ø: **100mm**

Rollers Height: **350mm**

Torque: **3500N.m**

Travel (controlled Y-axis): **390mm**

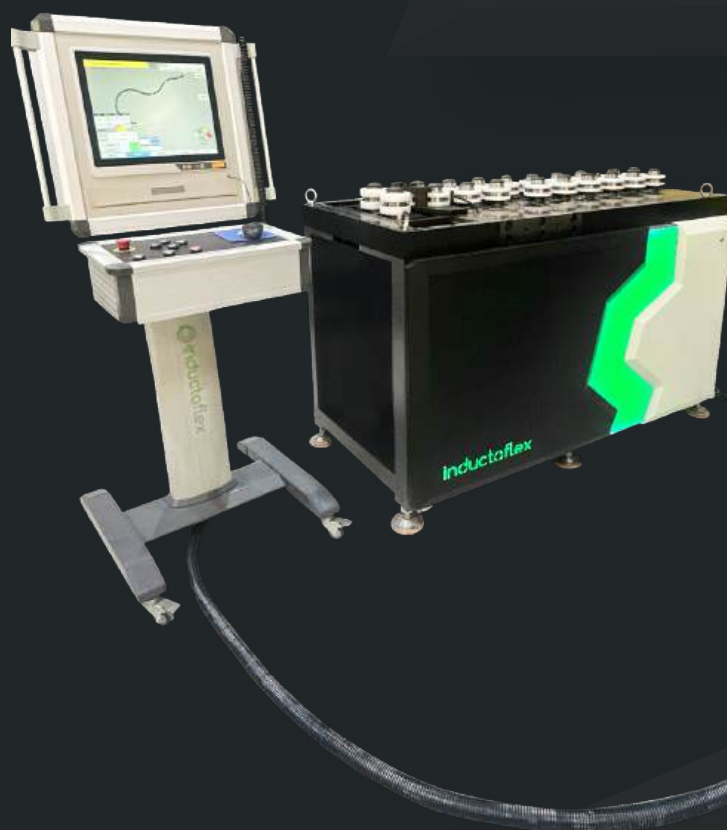
Hydraulic drive: **5.5KW**

Roller drive, electrical: **4.4KW**

Power supply: **380V 50Hz 24A**

Weight: **2600Kg**

L x W x H: **2037 x 1300 x 2148**



### SUITABLE MARKETS / BENDING ABILITY

- High speed bending of reverse bends
- Bending of case frames for mass production
- Rail carriage connecting parts
- Violin Cases



Aerospace Frame bender

3D PROFILE ROLL BENDING MACHINE

# AL-X25T

## TECHNICAL DATA

Hydraulic Bending Power: **25T**

X4 and X5 Revolution: **1-10rpm, Steplessly changed**

Axis Repositioning Tolerance: **0.01mm**

X6 and X7 Stroke: **80mm**

X8 and X9 Stroke: **150mm**

X8 and X9 Swing Angle: **±15°**

X10 to X14 : **Inward and backward stroke 60mm, Left and right movment stroke 150mm, Swing angle ±90°, Rotate angel ±360°, Lifting stroke150mm**

Shaft Diameter: **Upper 110mm, Lower 80mm.**

Shaft Length: **220mm**

Upper Roller Torque: **Max. 5000N.m**

Lower Roller Torque: **Max. 3500N.m**

Weight: **3500Kg**





Automotive Stretch Former

20T STRETCH FORMER

**ST-20**

## TECHNICAL DATA

Stretching power: **200kN**

Swing arm angle: **10° Forward, 90° Backward**

Max distance between jaws: **4500mm**

Swing arm precision: **±0.1°**

Mould platform height: **925mm**

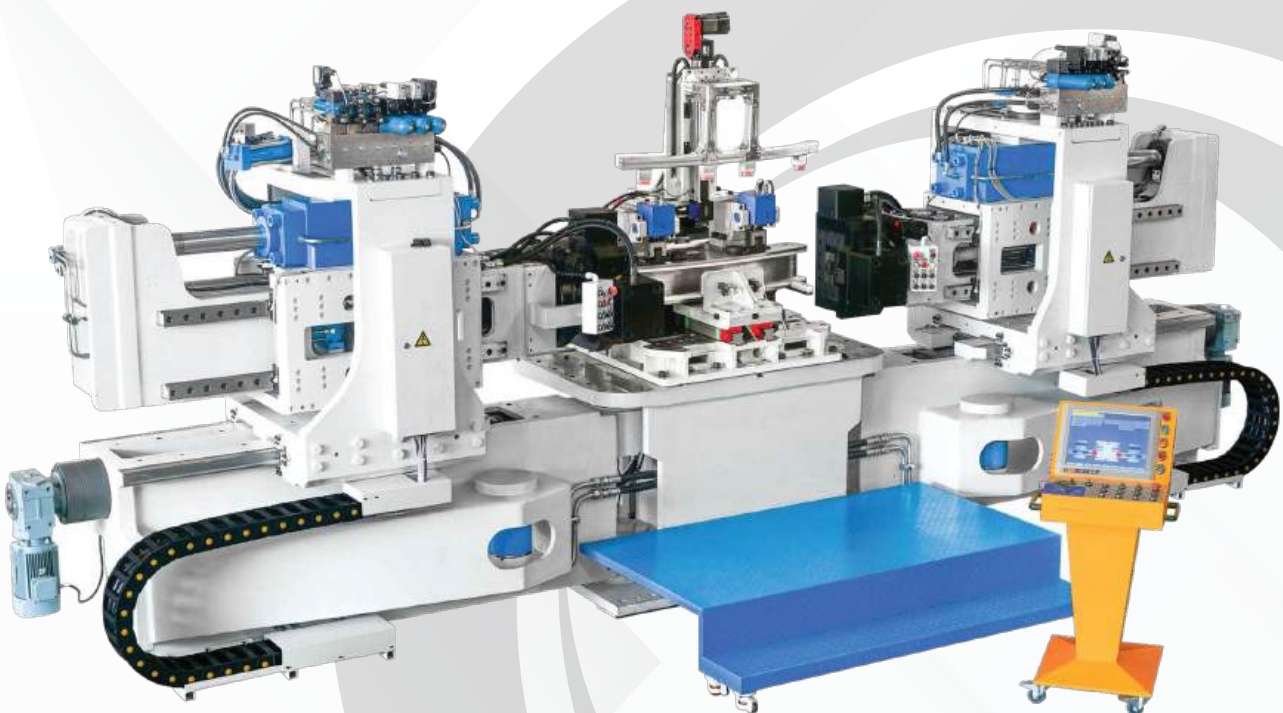
Minimum bending radius: **205mm**

Mould platform dimensions: **1830x1270mm**

Servo power: **31kW**

Stretch cylinder swing angle: **±30°**

Weight: **12T**





Automotive stretch former

35T STRETCH FORMER

**ST-35**



## TECHNICAL DATA

Stretching power: **350kN**

Max distance between jaws: **5200mm**

Mould platform height: **970mm**

Mould platform dimensions: **2050x1280mm**

Stretch cylinder swing angle: **±30°**

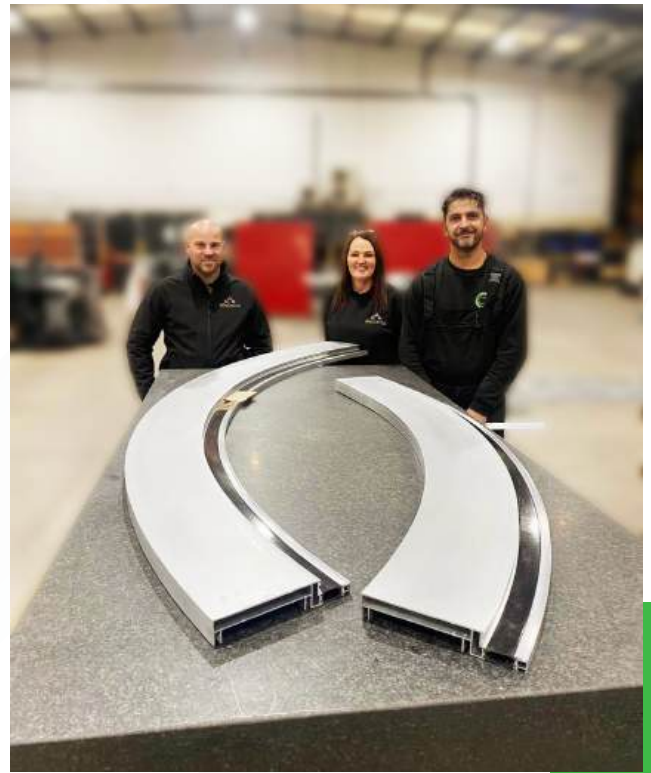
Swing arm angle: **10° Forward, 90° Backward**

Swing arm precision: **±0.1°**

Minimum bending radius: **240mm**

Servo power: **37kW**

Weight: **16.1T**



## Structural Stretch Former

120T STRETCH FORMER  
**ST-120****TECHNICAL DATA**Stretching power: **1200kN**Swing arm angle: **10° Forward, 90° Backward**Max distance between jaws: **6500mm**Swing arm precision: **±0.1°**Mould platform height: **1050mm**Minimum bending radius: **500mm**Mould platform dimensions: **2500x1350mm**Servo power: **70kW**Stretch cylinder swing angle: **±30°**Weight: **35T**



3D stretch former

55T STRETCH FORMER

**ST-55**

### TECHNICAL DATA

Stretching power: **550kN**

Max distance between jaws: **6500mm**

Mould platform height: **980mm**

Mould platform dimensions: **2360x1285mm**

Stretch cylinder swing angle: **±30°**

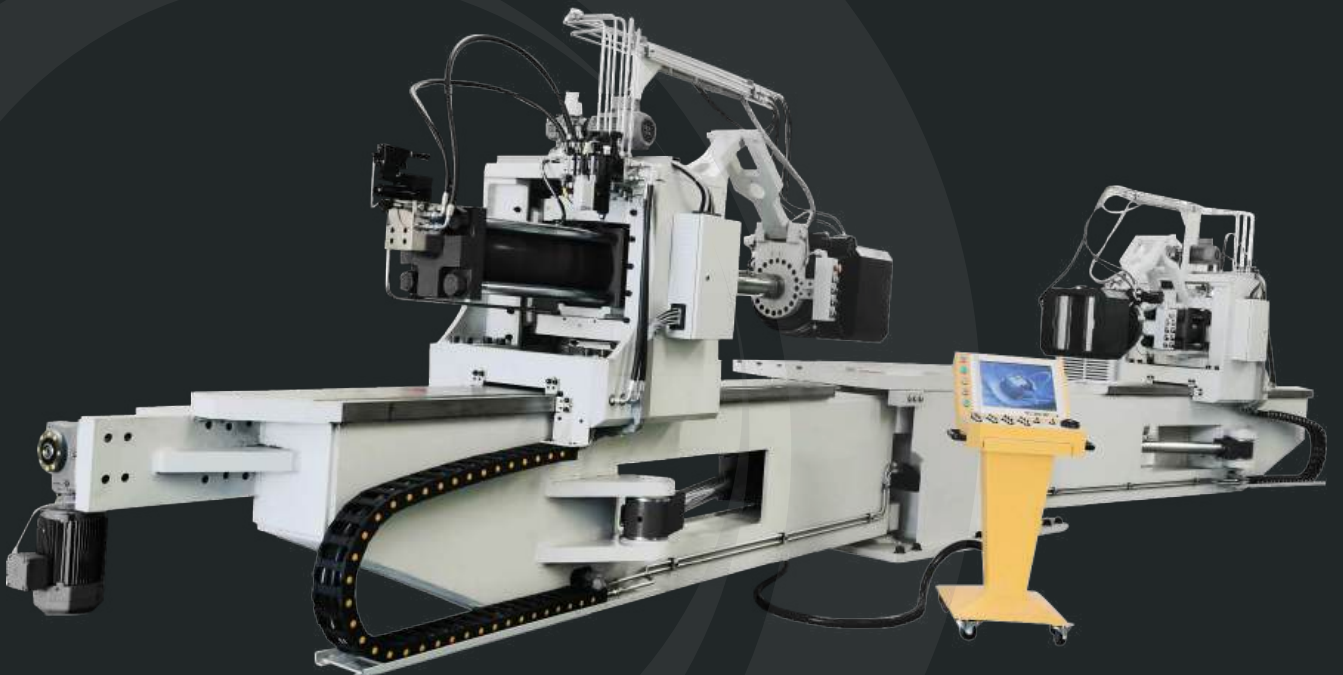
Swing arm angle: **10° Forward, 90° Backward**

Swing arm precision: **±0.1°**

Minimum bending radius: **405mm**

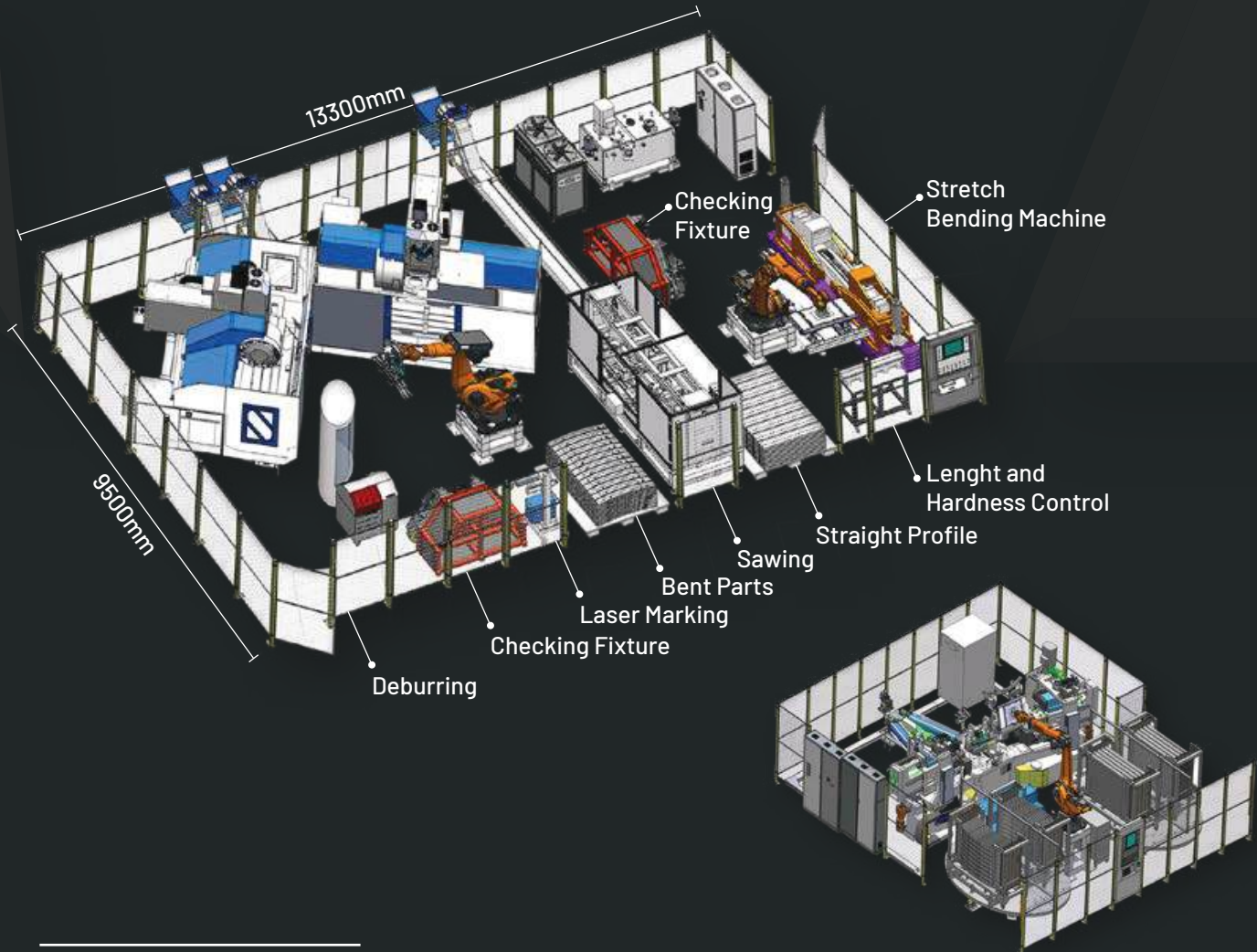
Servo power: **43kW**

Weight: **19T**

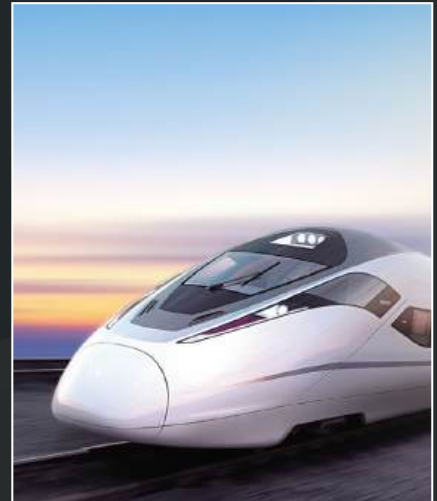




# COMPLETE PRODUCTION CELL



Our production cells encompass Bending, Machining, Cleaning and Quality Assurance as well as bespoke modules to create complete production installation. Highly suited for automotive, aerospace and large batch production.





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