



**Complete  
Solution for  
Tube and Pipe**

**i – Reverse 30**

## **Left & Right Tube Bender**

5 Electric Servo Controlled Axis  
Worldwide Patent – DGT



Dual Direction Bending Way - Left and Right Bending



# i – Reverse 30

## Left & Right Tube Bender 5 Electric Servo Controlled Axis

The new SOCO CNC Tube Bender is part of the “ i – Reverse 30 ” Line, which is equipped with Left + Right Bending Technology for maximum flexibility and minimal interference. The “ i – Reverse 30 ” line is especially suitable for complex parts and shapes, such as automotive head rests, fuel lines, heating and cooling systems. It is equipped with 5 electric CNC axes, 3 bending stacks and uses SOCO’s unique DGT technology (Direct Gear Transmission).

It may also be optionally provided with Automatic Loaders (AF), Groove and Seam Detection systems and Automatic Unloaders (AUL) for full automation. SOCO “ i – Reverse ” series tube benders can offer one of highest performance solutions available in the market.

5 servo electric / proportional servo controlled axis

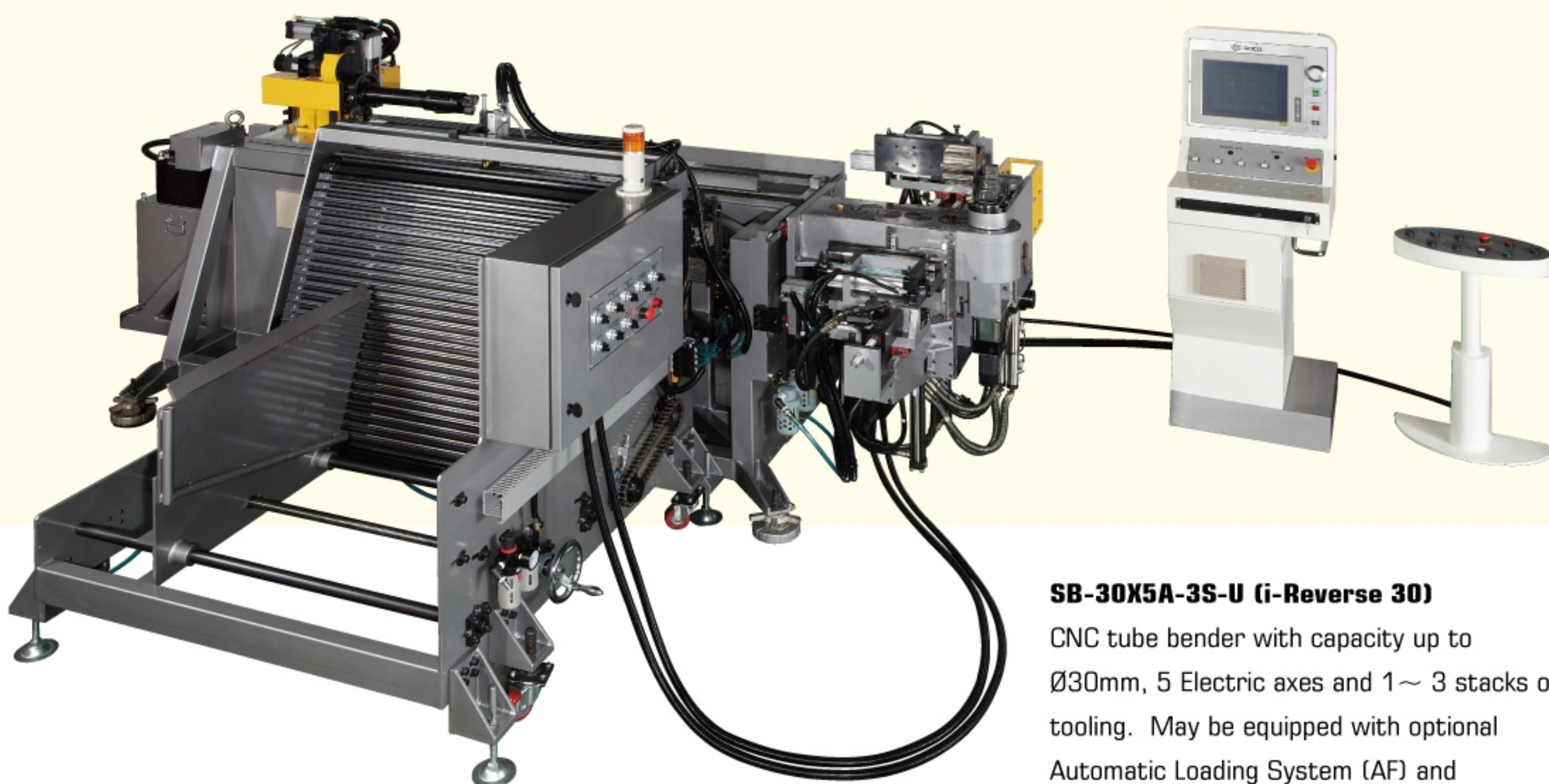
- Feeding ( Y )
- Rotation ( B )
- Bending ( C )
- Bending Head Horizontal Movement ( X )
- Bending Die Rotation ( C1 )



Automatic Loading System ( AF )



Automatic Unloading System ( AUL )

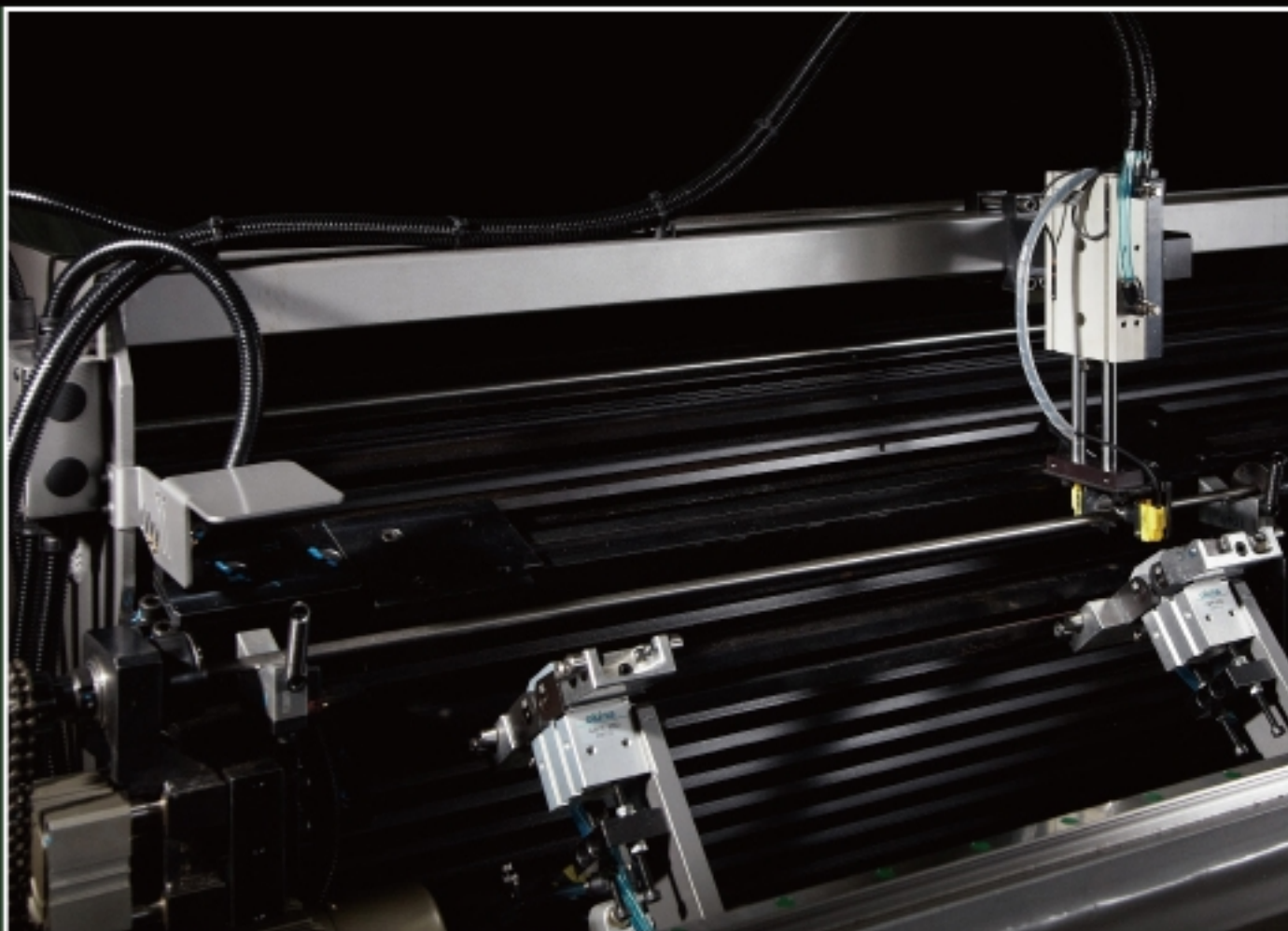


### **SB-30X5A-3S-U (i-Reverse 30)**

CNC tube bender with capacity up to Ø30mm, 5 Electric axes and 1 ~ 3 stacks of tooling. May be equipped with optional Automatic Loading System (AF) and Automatic Unloading System (AUL)



Automatic Groove or Seam Detectors

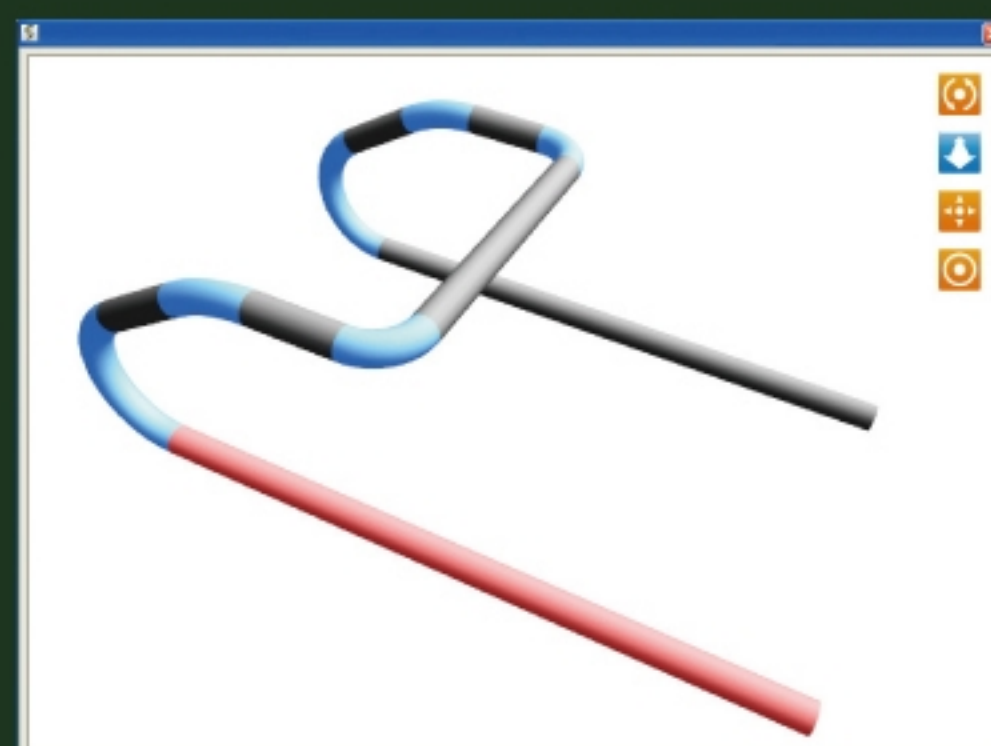


Left and Right Bending Technology ( 2 )



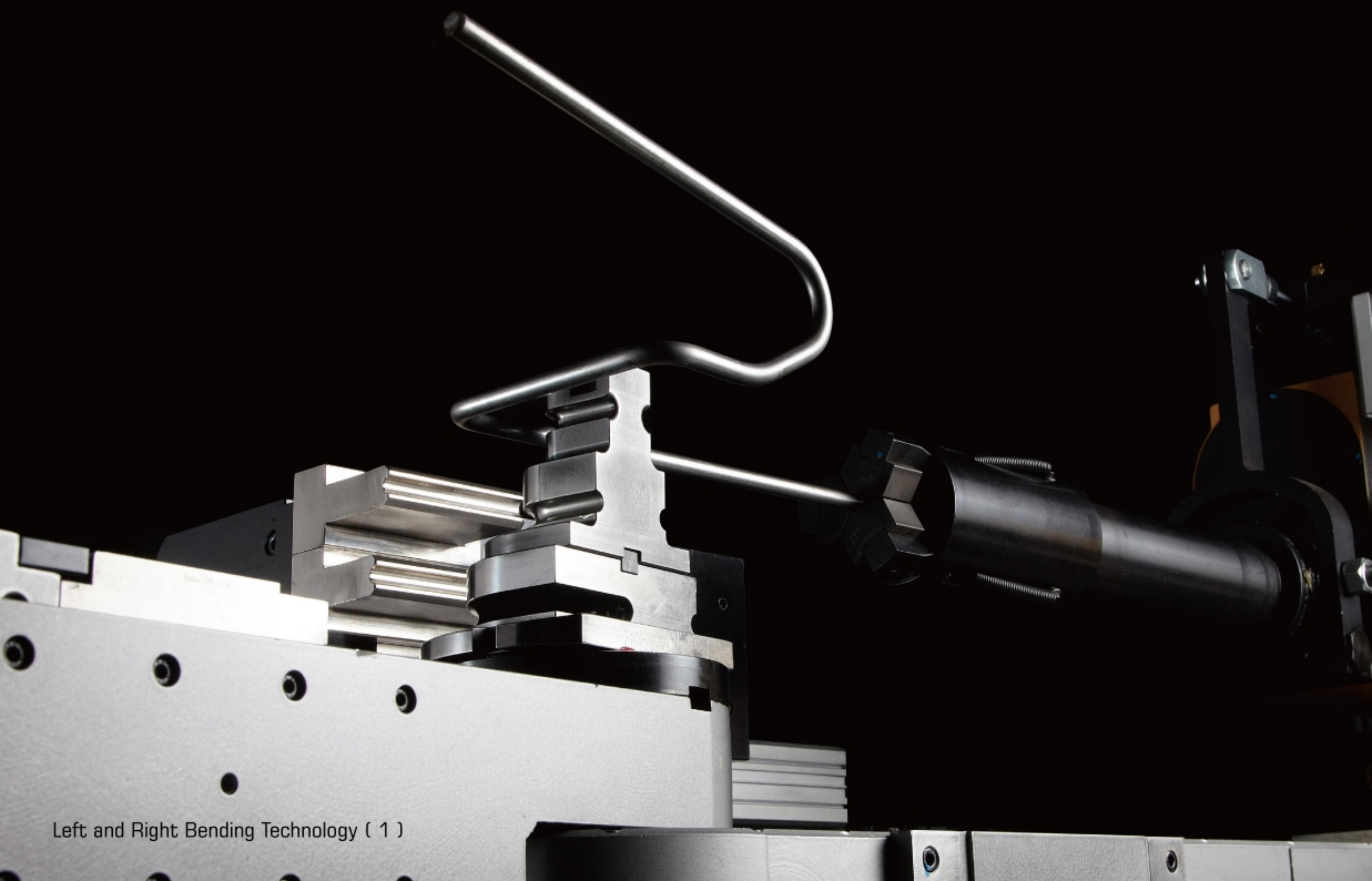
### Machine Features

- Left + Right Bending Capabilities in the same cycle
- DGT technology – Gear Transmission Bending for Highest Speed and Accuracy
- Easy Programming – Setup a part in the same way as a single directional bend
- Elongated bending neck for maximum working area
- 5 Electric servo controlled axes
- 2 speeds + Early mandrel extraction
- Automatic Groove Detection System for ensure the tube in right direction before bending ( Optional )
- Automatic mandrel lubrication
- Touch Screen with IPC ( Industrial PC )
- Multi-stacks + Multi-Radius
- Independent pressure die system for each bending stack
- Optional Automatic Loaders ( AF ), Groove and Seam Detectors and Automatic Unloaders ( AUL )

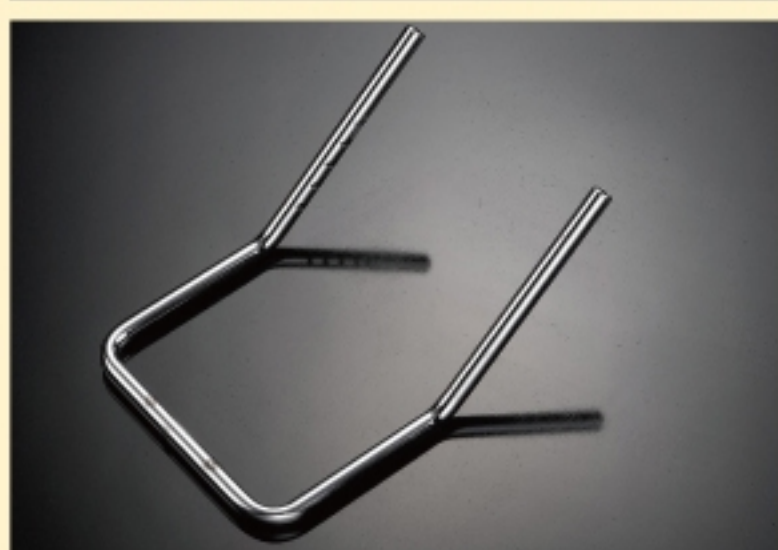
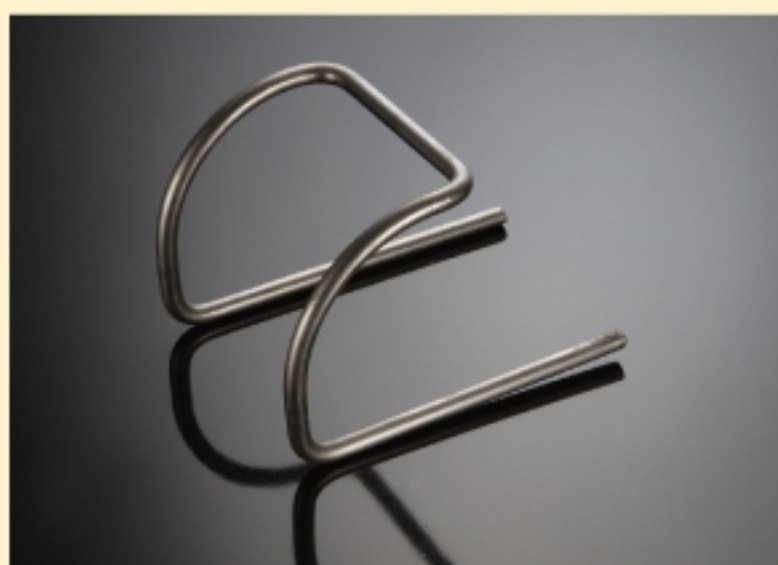


SOCO 3D Bending Software

Left and Right Bending Technology ( 1 )







Frame of Head Rest

Specifications / Model	SB-30X5A-3S-U
Mild Steel Capacity ( mm ) ( CLR 1.5D )	Ø30.0 x 1.5t
Stainless Capacity ( mm ) ( CLR 1.5D )	Ø30.0 x 1.0t
Max. Collet Feeding Length Stroke ( * )	1950
Max. Tube Length with Mandrel ( mm ) ( * )	2800
Max. Draw Bending Radius ( mm ) ( * )	120
Bending Direction	Left + Right
Max. Bending Radius Difference ( R1-R2 )	50
Bending Accuracy	±0.1°
Rotation Accuracy	±0.1°
Feeding Accuracy ( mm )	±0.1
Machine Dimension ( mm ) ( L x W x H )	3890 x 950 x 1200
Gross Weight ( Kg )	2000

( \* ) Can be extended by request

Due to continuous improvements and designs : the manufacturer reserves the right to modify or make any change of all models without notice.



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