



Your Smart Tube Bender

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YLM
GLOBAL

YING HAN Technology Co., Ltd.

**CNC
ELECTRIC
TUBE
BENDER**

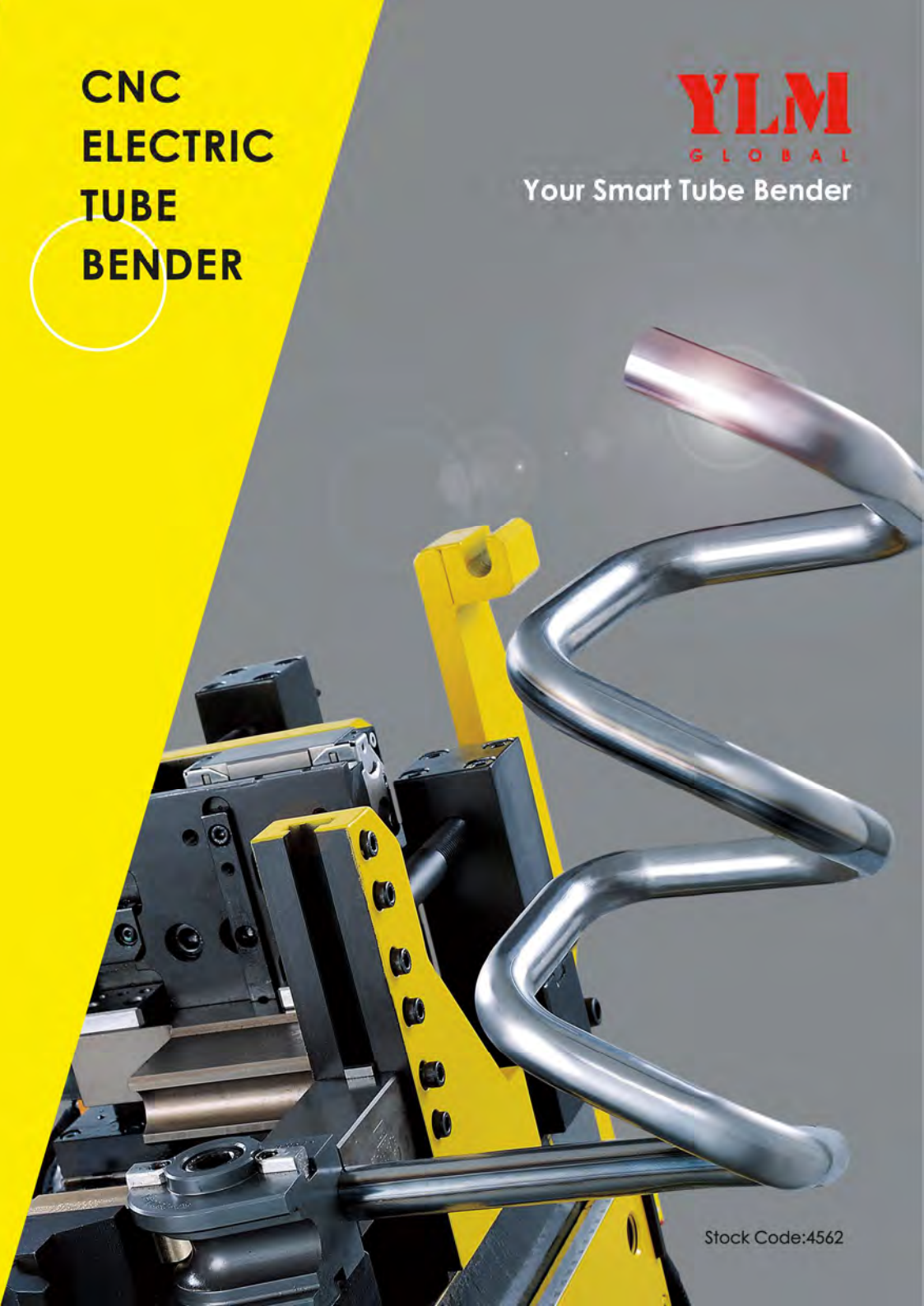
YLM
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**CNC
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BENDER**



Stock Code:4562



The Development of

YING HAN TECHNOLOGY CO., LTD.

1976→1990

From 1976 to 1990, although in small scale, YLM was endeavoring in the development of cold bending technology for metallic pipes, with its applications exporting to Manufacturers of furniture/sport equipment in Asia. YLM's tube bender had been reputed in light industry for its "Practical, Durable & Useful".

1990→2005

1990 to 2005, with the essence 'Your leading Machine', YLM had migrated into global automotive industry, and initiated the innovation of cold bending industry in delicacy parts of Automobile/Motorcycle, which has made YLM a well-known manufacturer, ranking in the top 5 intelligent tube bending machines brands, with market share over main competitors in European and US.

2006→2016

2006 to 2016, the most important period for well-developed of YLM, for its high market share worldwide as well as commitment of service. By setting up service and maintenance centers in all main industry cities, YLM has shown his determination and promises in customer service, fulfilling the slogan "Global brand, local service" in scale of no time or language difference. Every service center follows '24-hr non-stop' principle, and implements via e-net with Taiwan head quarter, hoping to grow and develop together with our customers. Now YLM has become one of the top 3 tube bender brands worldwide.

Started from manufacturing of precision machine and tools, migration into Industry 4.0 by innovative technology, and achievement of global service net, YLM now is the indispensable manufacturer and partner of global big automotive players, with its complete line of solution, especially for the high-end exhaust system of automobile/truck industry.

YLM has marched into Industry 4.0. Determine to satisfy and grow with our customers is the new spirit of YLM brand.

Drive your productivity gains, and reach Industry 4.0



ALL ELECTRIC CNC Tube Bending Machine

YLM Has Marched Into Industry 4.0

**We Will Do Our Best To Satisfy Our Customers,
And Evolve Our Technology To Match With Our Users' Demands.**

We began our work by producing compact machineries and molds, but now we are stepping into the trend of Industry 4.0, as well as international service system. YLM is an indispensable partner to automotive parts suppliers, in the tube bending sector, especially in the area of high end car exhaust pipe. We are able to provide an integrated production line to our customers, helping them achieve mass production.

ALL ELECTRIC
i Bender

CNC Tube Bending Machine

YLM CNC electric benders energy saving and quiet operation of electric servo control, equipped advanced features and software, to provide the package customers are looking for.



ADVANTAGES



**GREEN PRODUCTION
IN LOW NOISE**



**HIGH MACHINE OUT-PUT With
FAST BENDING SPEED**



**ENERGY SAVING
ENVIRONMENT FRIENDLY**



CAN EDIT WORK PROCEDURE RANDOMLY

TEACH-MODE CNC SOFTWARE

The screenshot displays the 'AUTO MODE' control panel with various numerical readouts and a 'YBANK TOOL SWICH' panel showing tool selection options. A 3D simulation of the tube bender is visible in the background.

The screenshot shows the 'Manual Mode' control panel with a central 3D model of the tube bender. The interface includes various control buttons and a 'Collet' selection menu.

The screenshot shows a 3D simulation of a bent tube and a data table with columns for step number, length, and other parameters.

Step	Length	...
1	600.000	...
2	500.000	...
3	700.000	...
4	1000.000	...

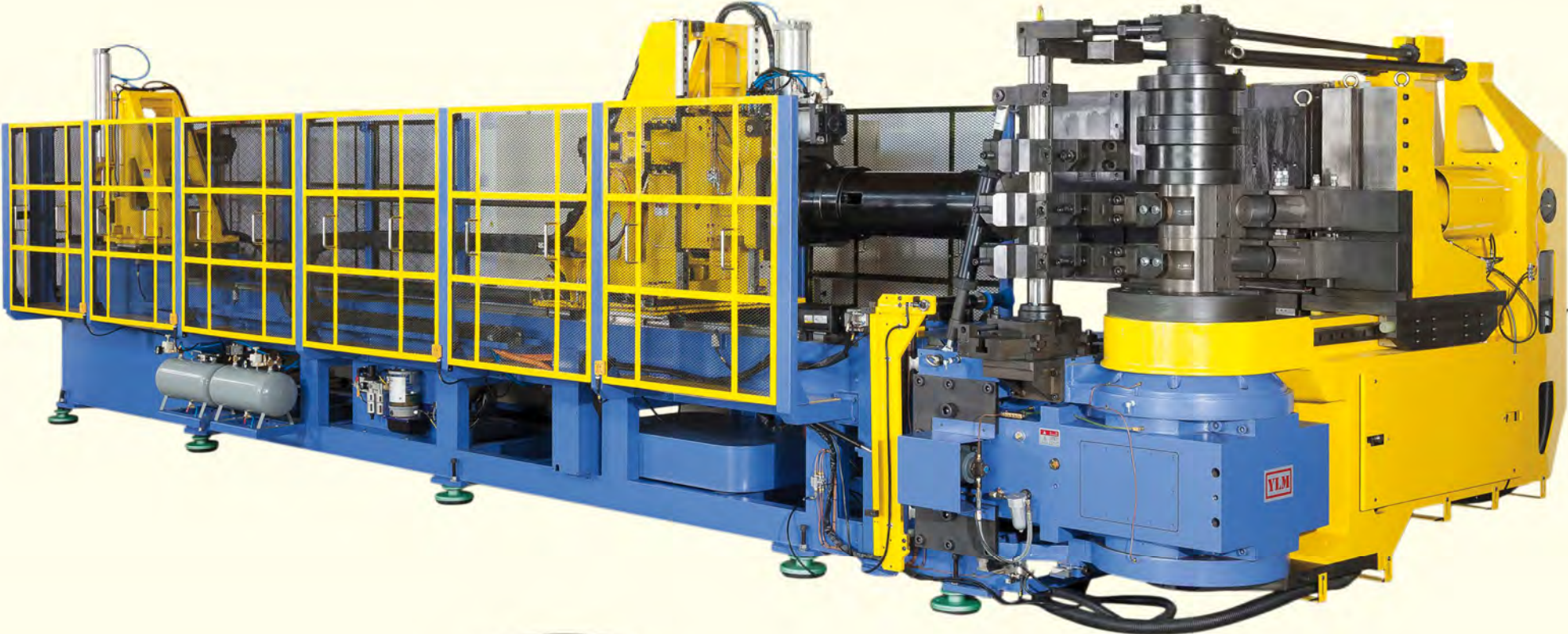
The screenshot shows an 'XYZ' coordinate table with columns for X, Y, Z, and M values.

	X	Y	Z	M
1	0.000	0.000	0.000	1
2	0.000	-189.700	0.000	1
3	0.000	-189.700	-176.200	1
4	0.000	379.730	-176.200	1

Enter Teach Mode

3D SIMULATION

YLM develops our own CNC software which is based on Windows XP / Windows 7 with the ability to import XYZ information from .dxf / STEP files translating to YBC data. YLM software uses 3D simulation software to preview and eliminate bending interferences. YLM software is flexible to meet our clients' requests to achieve efficient production.



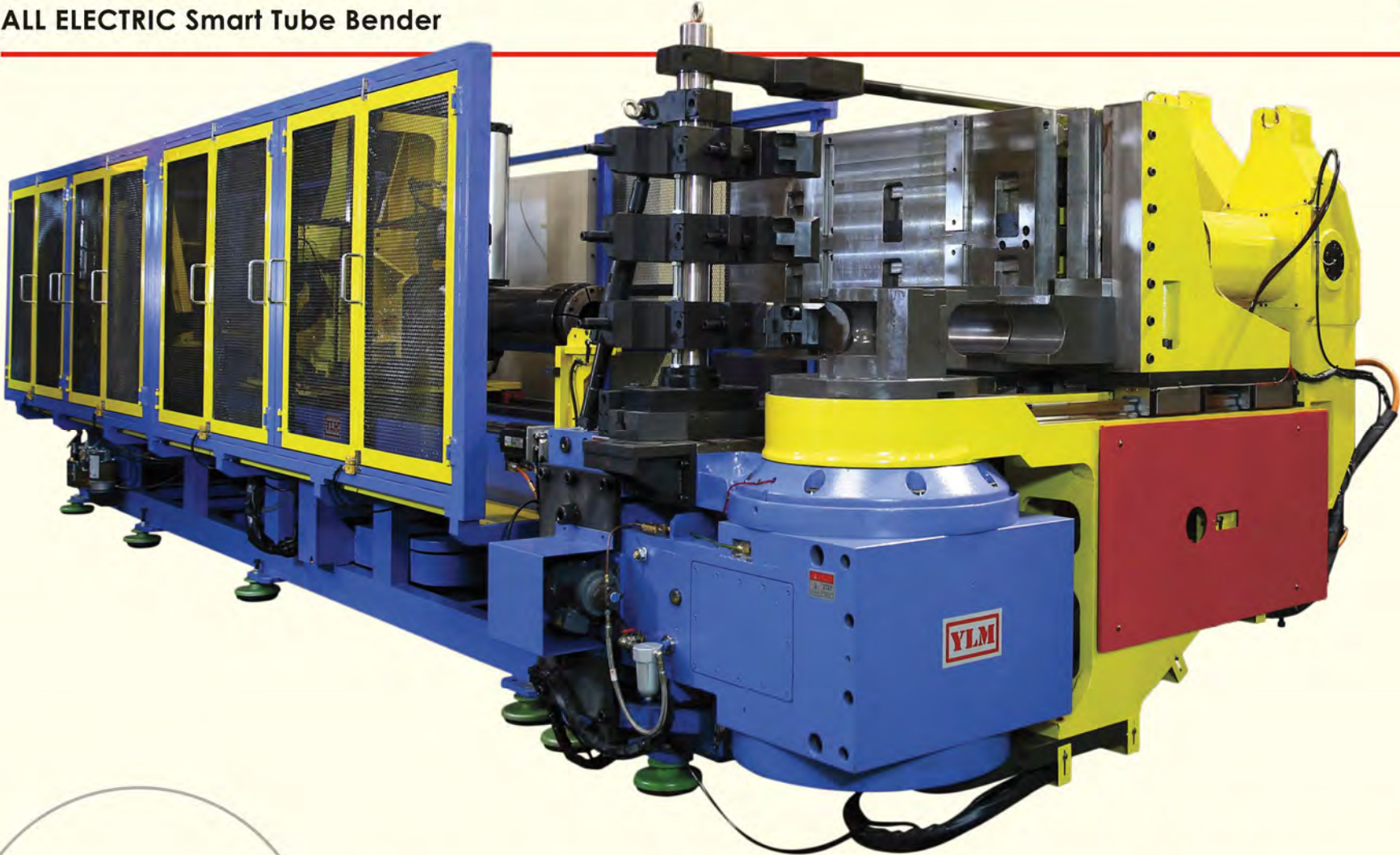
Used for Large Tubes

CNC181 MS-AE-11A

Especially for the production of "thick wall" pipes such as Boiler, Heavy Transportation, Shipbuilding, Chemical Engineering, Power Plant, Diesel Engine

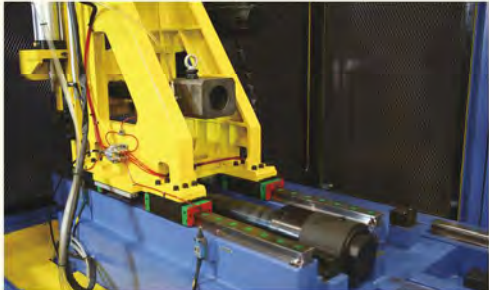


ALL ELECTRIC Smart Tube Bender



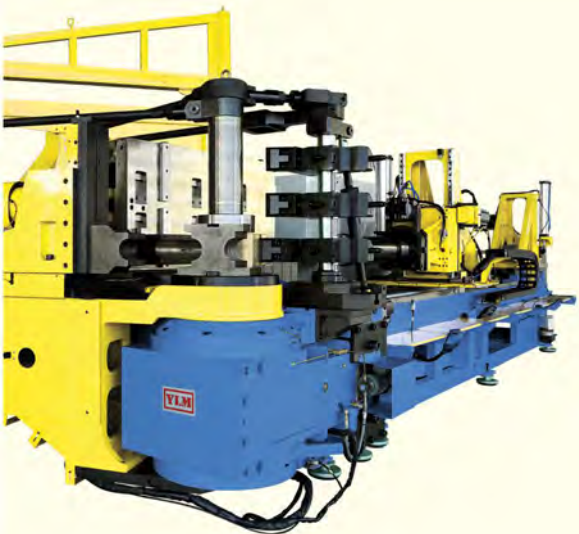
CNC151 MS-AE-11A

Especially for the production of "thick wall" pipes such as Boiler, Heavy Transportation, Shipbuilding, Chemical Engineering, Power Plant, Diesel Engine



ALL ELECTRIC Smart Tube Bender

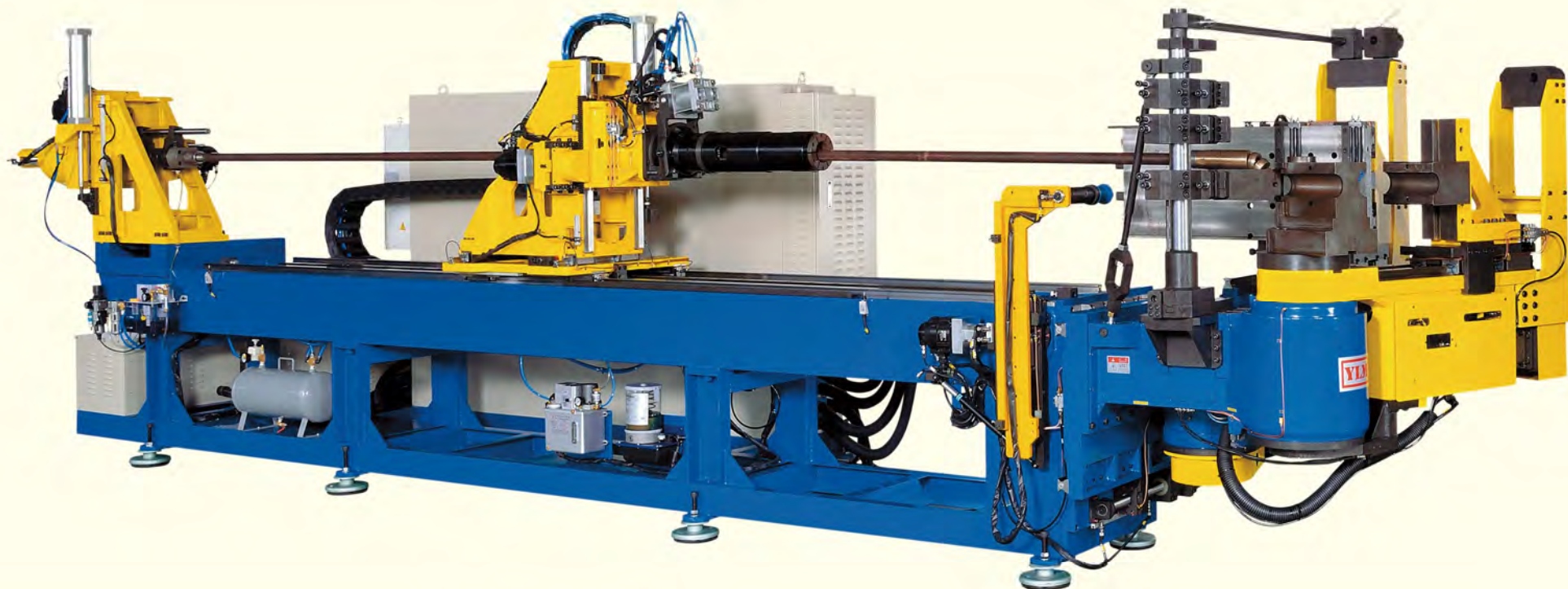
YLM



CNC131_{MS-AE-11A}

Especially for the production of "thick wall" pipes such as Boiler, Heavy Transportation, Shipbuilding, Chemical Engineering, Power Plant, Diesel Engine

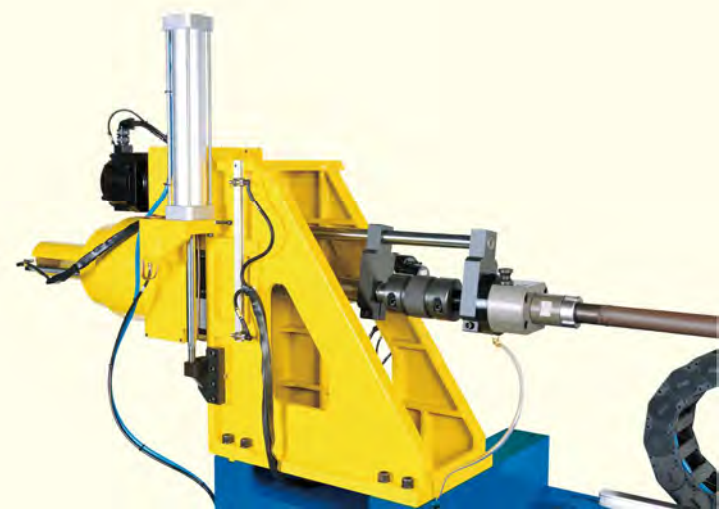


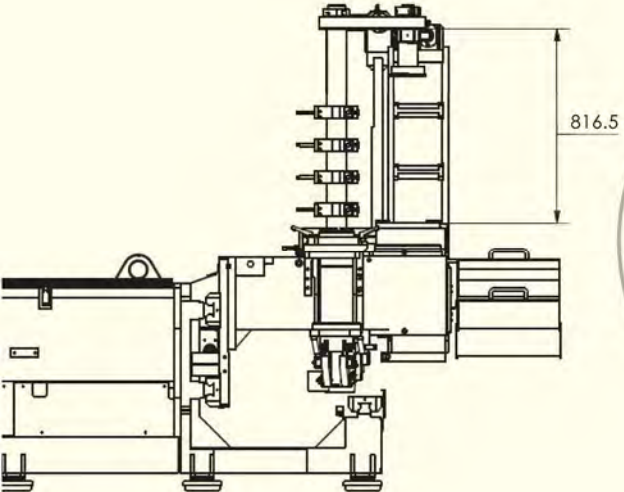
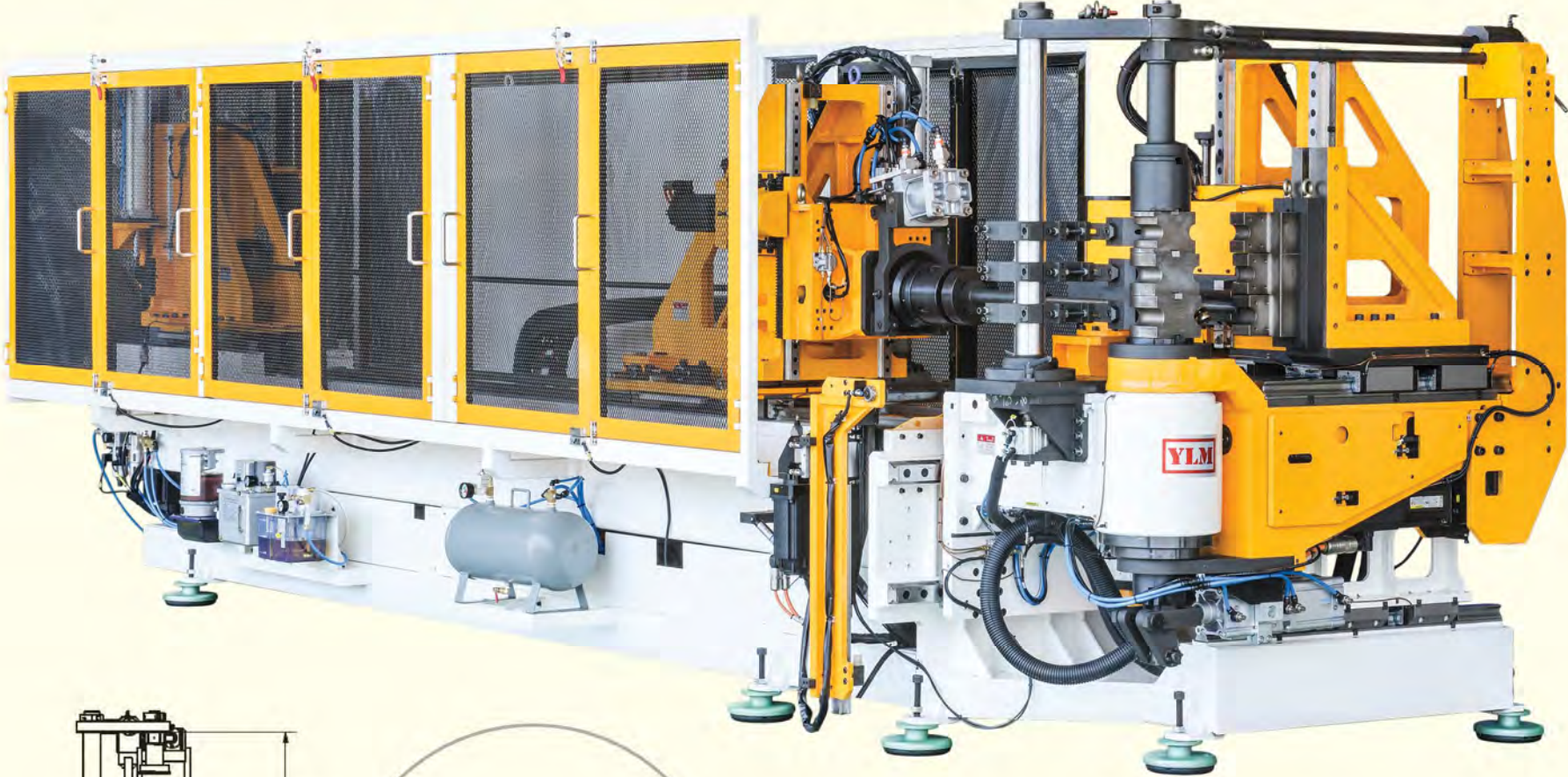


Used for Medium and Large Tubes
with Small Bending Radius

CNC101 MS-RAE-12A

- Suitable Industries:
- Exhaust Tube
 - Exercise Equipment
 - Heavy Transportation
 - Shipbuilding
 - Chemical Engineering
 - Power Plant
 - Diesel Engine





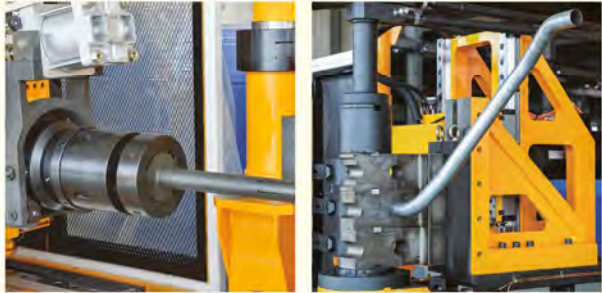
Provide Various Bending of 1DR-∞
Small Radius or Hard to Bend Pipe

CNC91_{MS-AE-12A}

Multi-Levels

Suitable Industries:

- Handle Bar
- Tubular Furniture
- Architecture
- Aircraft
- Car Seat



ALL ELECTRIC Smart Tube Bender



Used for Medium and Large Tubes
with Small Bending Radius

CNC90_{MS-AE-10A}

Suitable Industries:

- Exhaust Tube
- Exercise Equipment
- Heavy Transportation
- Shipbuilding
- Chemical Engineering
- Power Plant
- Diesel Engine



ALL ELECTRIC Smart Tube Bender



Used for Medium and Large Tubes
with Small Bending Radius

CNC80_{MS-RAE-11A}

Suitable Industries:

- Exhaust Tube
- Exercise Equipment
- Heavy Transportation
- Shipbuilding
- Chemical Engineering
- Power Plant
- Diesel Engine



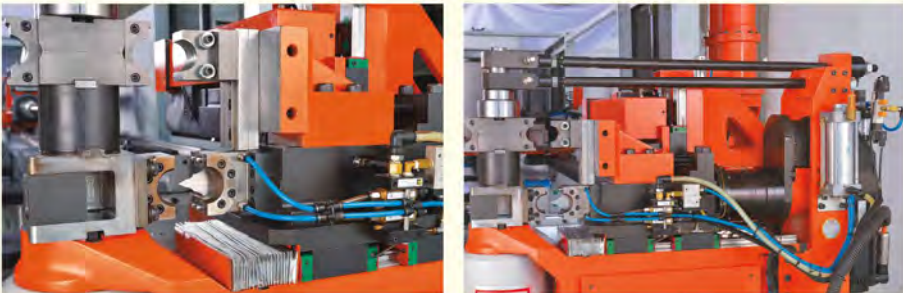


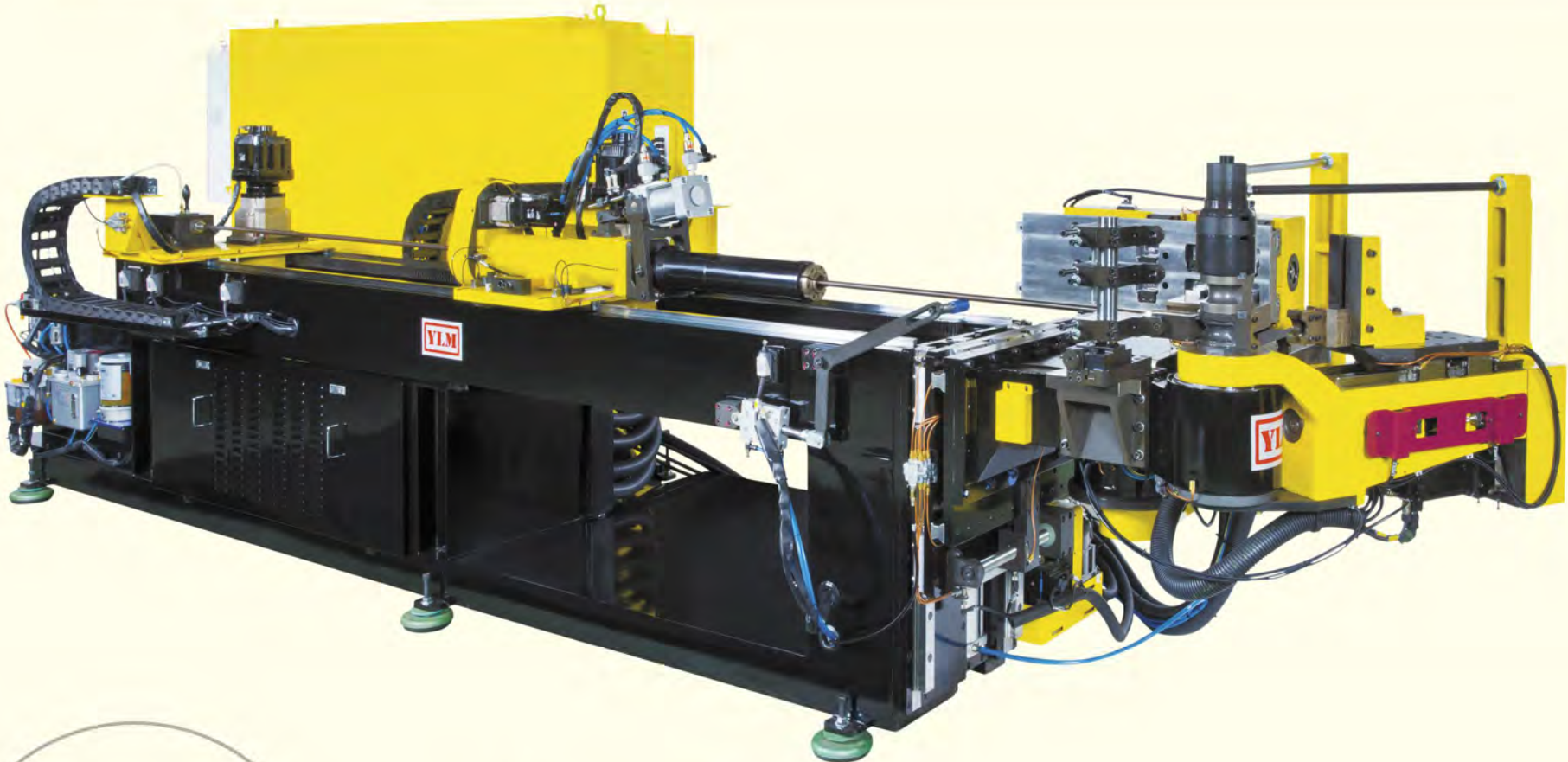
CNC70_{MS-AE-10A}

Provide Various Bending of 1DR~∞ tight Radius and challenging bending tasks.

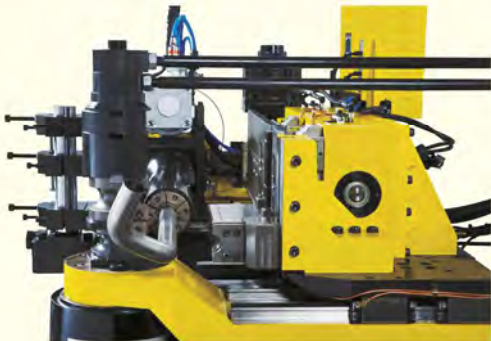
- Suitable Industries:
- Structure Steel
 - Exhaust System
 - Architecture
 - Aerospace
 - Automotive

Servo cutting





CNC50_{MS-AE-9A}

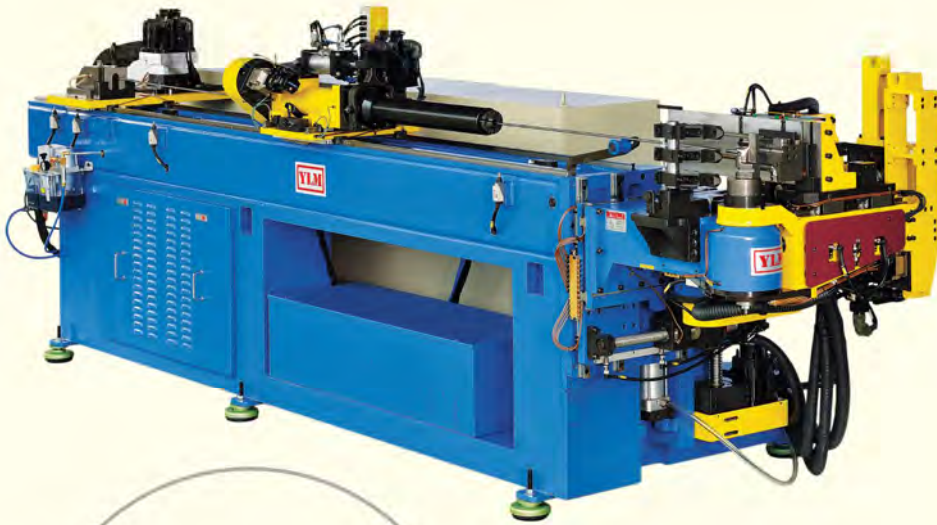


Provide Various Bending of 1DR-∞ tight Radius and challenging bending tasks.

- Suitable Industries:
- Structure Steel
 - Exhaust System
 - Architecture
 - Aerospace
 - Automotive



ALL ELECTRIC Smart Tube Bender **YLM**



CNC38_{MS-AE-9A}

Automotive Brakes & Fuel Pipes,
Frame of a Motorcycle, bicycle & ATV,
Car Seat, Handle Bar,
Exercise Equipment, Tubular Furniture,
Building Materials, Aircraft



Drive your
productivity
gains, and reach
Industry 4.0

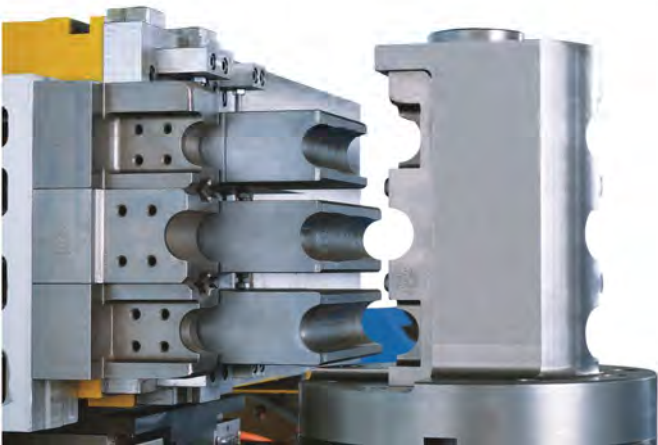
ALL ELECTRIC
L&R Smart Turn Tube Bender



ALL ELECTRIC L&R Smart

Turn Tube Bender

Fully electric CNC L&R tube bender is in both left-hand & right-hand bending function.
A very practical model to meet various bending demands, suitable for symmetrical tube such as furniture production, hydraulic-oil tubing lines, and HVAC tubing & fluid system of automobiles.



ADVANTAGES



RIGHT-HAND & LEFT-HAND BENDING MACHINE

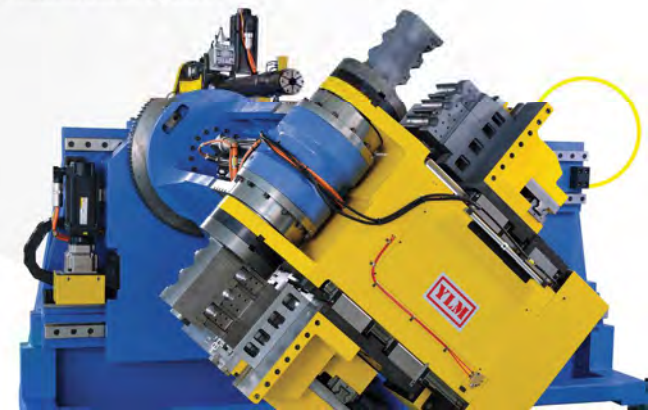


SUITABLE for SYMMETRICAL BENDING DEMANDS

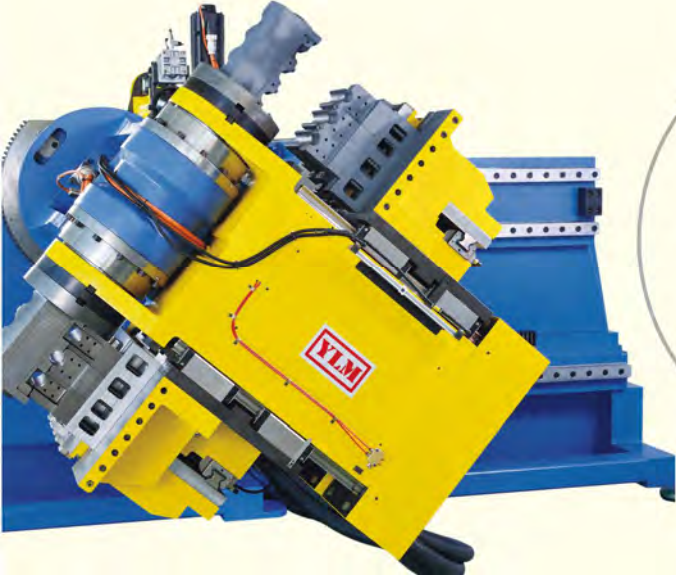


FEATURES

Draw And Roller-bending ● Teach-mode CNC Software
3D Simulation ● Auto Lubrication System



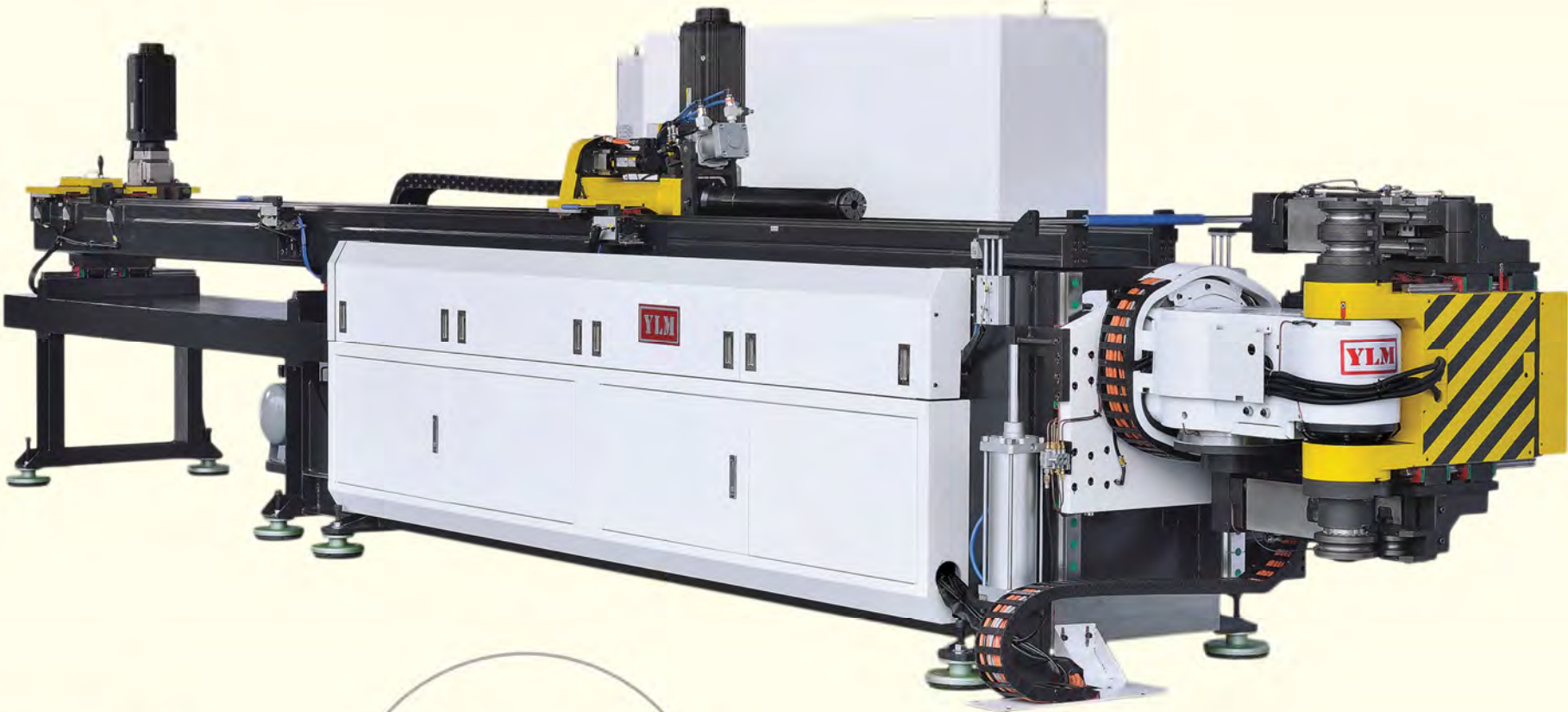
All Electric L&R Smart Turn Tube Bender



CNC80_{MS-RL-AE-9A}



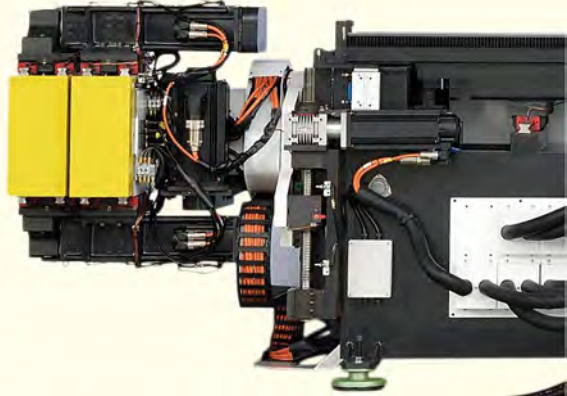
- Suitable Industries:
- LARGE VEHICLE BALANCE BEAM
 - HEAVY TRANSPORTATION FUEL PIPELINE
 - PIPELINE FOR CHEMISTRY



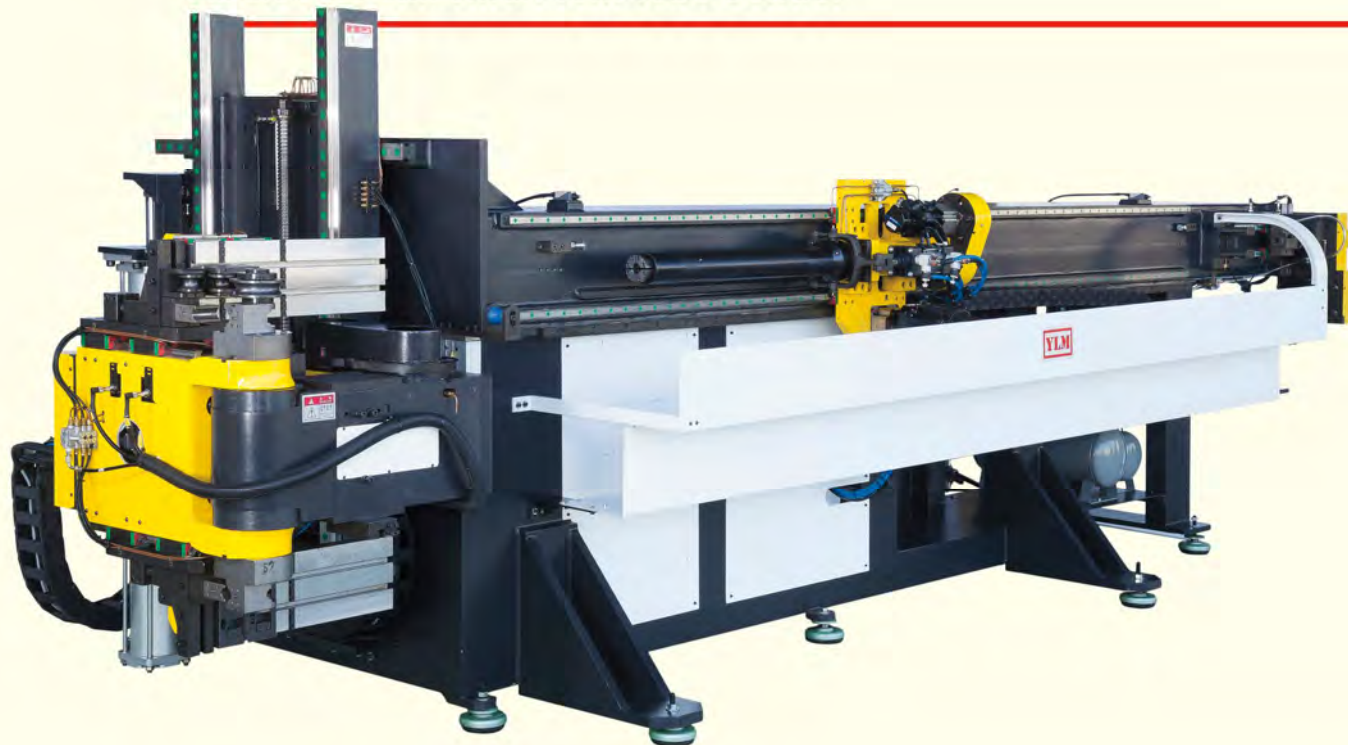
CNC51 MS-RL-AE-11A

Suitable Industries:

- Furniture
- Medical Aids
- Sports Equipment
- Structure Steel
- Hydraulic Tube



All Electric L&R Smart Turn Tube Bender



CNC38_{MS-RL-AE-8A}

Suitable Industries:

- Furniture
- Medical Aids
- Sports Equipment



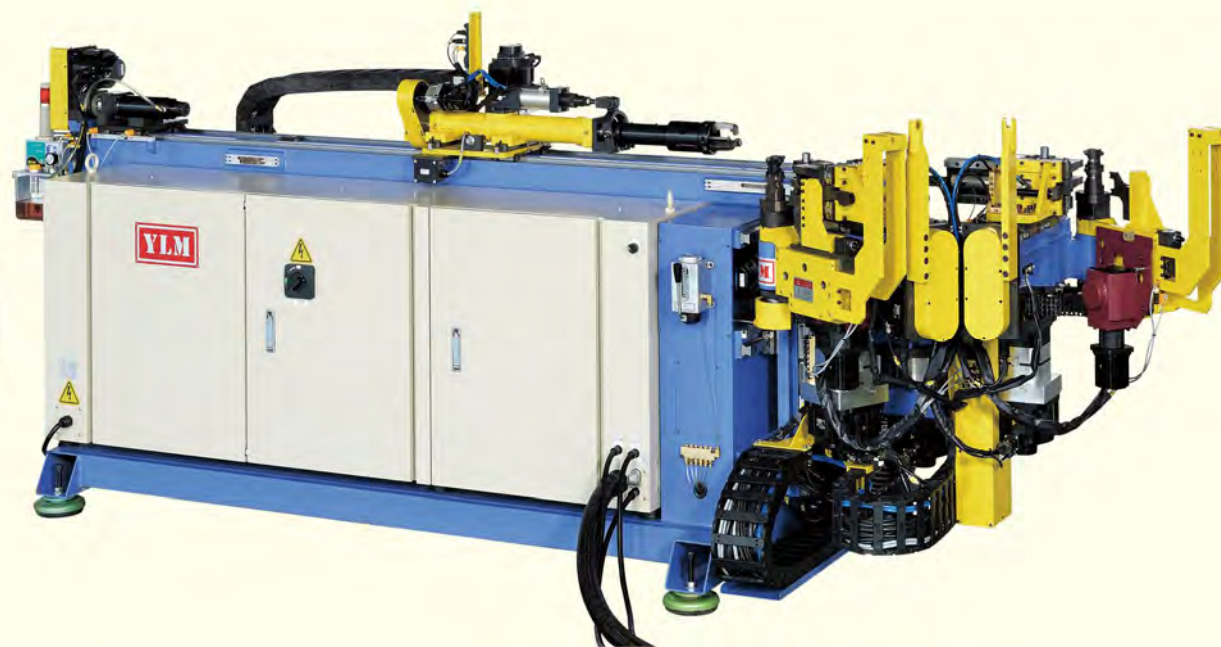
Bending Head



CNC25_{MS-RL-AE-12A}

Suitable Industries:

- Automotive
- Furniture
- Architecture
- Aerospace



ALL ELECTRIC Smart Tube Bender

SPECIFICATION

MODEL NO.	CNC181MS-AE	CNC151MS-AE	CNC131MS-AE	CNC101MS-AE	CNC91MS-AE	CNC90MS-AE	CNC80MS-AE	CNC70MS-AE	CNC50MS-AE	CNC38MS-AE	
AXIS	11A	11A	11A	12A	12A	10A	10A	10A	10A	9A	
Max. Tube O.D. Bending Capacity (mm)	∅ 180	∅ 150	∅ 130	∅ 100	∅ 90	∅ 90	∅ 80	∅ 70	∅ 50	∅ 38	
Max. Tube Wall Thickness (mm)	4	5	5	4	3	3	3	3	2.5	2	
Max. CLR (mm)	370	370	400	250	200	250	250	180	180	180	
Bending Radius Difference (mm) S1-S2-S3	150	120	150	100	90	90	90	90	80	50	
Max. Bending Angle (°)	190	190	190	190	190	190	190	190	190	190	
Max. Mandrel Working Distance (mm)	4500	4000	3000	4000	3000	2500	3000	2500	2500	2000	
Processing Speed	Tube Feeding Speed (mm/sec)	750	800	754	720	1000	1029	366	800	1319	1372
	Tube Rotation Speed (°/sec)	450	330	456	580	400	661	180	260	214	360
	Tube Bending Speed (°/sec)	19.5	40	56.3	47	75	72	62.5	75	89	180
Repeatability	Tube Feeding Precision (mm)	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1
	Tube Rotation Precision (°)	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1
	Tube Bending Precision (°)	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1
Total Power (kw)	65	110	100	66	53.5	65	48.4	68	65	28	
Overall Weight (kg)	19800	17800	16500	9000	8100	7500	7000	5300	5300	2970	
Operation Height (mm)	1240	1305	1240	1295	1180	1270	1170	1170	1170	1200	
Machine Length (mm)	9360	7610	7540	8230	6750	6020	6807	5740	5740	4430	
Machine Width (mm)	3150	2700	2800	1970	1700	1900	1804	1520	1520	1320	
Machine Height (mm)	2300	2200	2200	2010	2700	2090	1900	1910	1910	1630	

OPTIONAL FUNCTION

Push Bending • 3D Simulation of Bending Process • Hole Punching • Split Die Device • ID Collet • Tube Boost • 3-Jaw Collet • Remote Access • Cutting Device
 Servo Pressure Die Boost • Tube Loading & Unloading Equipment • Quick Tooling Change System • Weld Seam Detection • Bending Work Cell (Automation)

OPTIONAL FUNCTION

Bending Tooling Adaption for Customers Existing Tooling Sets.

Above options are selectable, please discuss your requirements with our sales representatives.

The above machine specification is subject to change without previous notice due to continuous improvement of R&D.

All Electric L&R Smart Turn Tube Bender

SPECIFICATION

MODEL NO.	CNC80-RL	CNC51-RL	CNC38-RL	CNC25-RL
AXIS	10A	11A	8A	12A
Max. Tube o.d. Bending Capacity (mm)	ø 80	ø 50	ø38	ø25
Max. Tube Wall Thickness (mm)	3	2.5	2	1.5
Max. CLR (mm)	200	180	150	100
Bending Radius Difference (mm) S1-S2-S3	90	80	50	40
Max. Bending Angle (°)	190	190	190	185
Max. Mandrel Working Distance (mm)	2500	6000	2000	1800
Processing Speed	Tube Feeding Speed (mm/sec)	1000	850	1230
	Tube Rotation Speed (°/sec)	260	450	360
	Tube Bending Speed (°/sec)	75	160	135
Repeatability	Tube Feeding Precision (mm)	±0.1	±0.1	±0.1
	Tube Rotation Precision (°)	±0.1	±0.1	±0.1
	Tube Bending Precision (°)	±0.1	±0.1	±0.1
Total Power (kw)	66.5	55	32	17.5
Overall Weight (kg)	14150	5600	4640	3200
Operation Height (mm)	1164	1245	1240	1200
Machine Length (mm)	6384	8650	4900	3700
Machine Width (mm)	2266	1750	1770	1350
Machine Height (mm)	1877	1650	1900	1510

OPTIONAL FUNCTION

- Push Bending • 3D Simulation of Bending Process • 3D Simulation of Tube Application • Hole Punching
- Split Die Device • ID Collet • Tube Boost • 3-Jaw Collet • Cutting Device
- Servo Pressure Die Boost • Simple Loading & Unloading

Above options are selectable, please discuss your requirements with our sales representatives.

The above machine specification is subject to change without previous notice due to continuous improvement of R&D.

YLM

www.ylm.com.tw

YLM offers a 24 hour non-stop global service hot line, providing zero time difference technical support with good adaptability for the rapid changing industries. YLM is dedicated to be your valuable partner.

You care, YLM cares.

YLM develops our own CNC software which is based on Windows XP / Windows 7 with ability to import XYZ information from .dxf / STEP files translating to YBC data. YLM software uses 3D simulation software to preview and eliminate bending interferences. The YLM software is flexible to meet our clients requests to achieve efficient production.

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You Care, YLM Cares

YLM provides moment-to-moment service without time difference or language barrier from each YLM local office globally.



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