LE HUNG

CSM
CHIAO SHENG MACHINERY CO.,LTD.

CNC Electric

ĐẠI DIỆN CSM TẠI VIỆT NAM
CÔNG TY TNHH CÔNG NGHỆ LÊ HƯNG
Địa chỉ Hà Nội: Mai Hiên, Mai Lâm, Đông Anh, Thành Phố Hà Nội
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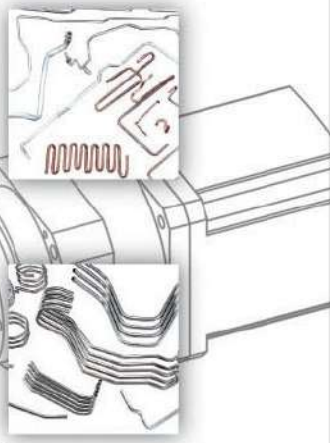
Website: www.Lehungtech.com.vn Hotline: 0912.333.774



Industrial application

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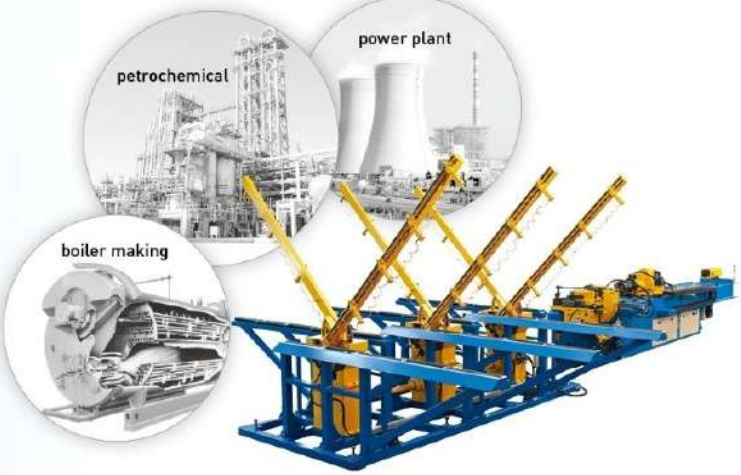

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CNC left- & right- bending

round tube			mandrel length	tooling capacity	roll bending	rear booster	CSM Part no.
OD	WT	CLR					
15	1.5	10-55	1000	3+3			15 EMB
20	1.5	10-80	1500	3+3			20 EMBH
32	1.8	25-128	3500	3+3	yes		32 MBRE
30	2	15-90	2800	3+3	yes		30 EMR
45	1.6	30-150	3000	3+3	yes		45 EMR
76.2	2	40-230	3000	3+3	yes	servo	75 EMR

15~20# : brake line, fuel line , air-con, oil transmission

30~45# : aviation, furniture, health care, gym utilities

75# : automotive, transportation

4 • carriage (Y-axis) by servo motor with programmable speed

5 • collet (B-axis) grip by pneumatic rotation by servo motor

6 • mandrel by servo motor with automatic lubrication & anticipated retraction

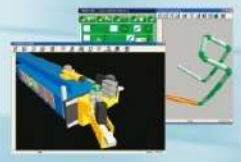
1 • bend-arm (C-axis) by servo motor with exclusive transmission gears

• work-head rotation by servo motor, capable of converting between left- and right-hand bending

2 • clamp die by pneumatic
• pressure die by servo motor
• side booster by servo motor

3 • tools/radii shifting:
motion up-down by servo motor
motion left-right by servo motor

- Industrial PC assorted with touch-screen display, capable of bending simulation, 3D preview and interference detection
- programmable speed for servo axes
- with USB port, easy for data transfer
- convertible between manual / automatic mode
- convertible between inch / metric setting
- convertible between XYZ / YBC axes



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CNC all electric

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round tube			mandrel length	tooling capacity	roll bending	rear booster	CSM Part no.
OD	WT	CLR					
50.8	1.8	30-150	2500	3	yes	servo	50 MRE2-RBE
80	2.5	40-230	3000	3	yes	servo	80 MRE2-RBE
100	3.6	30-300	3000	3	yes	servo	100 MRE2-RBE

50# : aviation, furniture, health care, gym utilitiesa

80~100 # : automotive, transportation

4 • carriage (Y-axis) by servo motor with programmable speed

5 • collet (B-axis) grip by servo motor rotation by servo motor

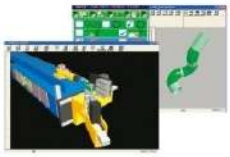
6 • mandrel by servo motor with automatic lubrication & anticipated retraction

1 • bend-arm (C-axis) by servo motor with exclusive transmission gears. Tolerance within ±0.01°

2 • clamp die by servo motor
• pressure die by servo motor
• side booster by servo motor

3 • tools/radii shifting:
motion up-down by servo motor
motion left-right by servo motor

- Industrial PC assorted with touch-screen display, capable of bending simulation, 3D preview and interference detection
- programmable speed for servo axes
- with USB port, easy for data transfer
- convertible between manual / automatic mode
- convertible between inch / metric setting
- convertible between XYZ / YBC axes



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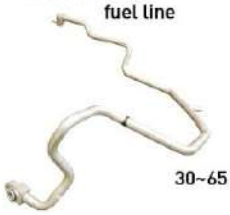
CNC electric hybrid

round tube			mandrel length	tooling capacity	roll bending	rear booster	CSM Part no.
OD	WT	CLR					
18	1.6	10-80	1200	3			18 MBE
25.4	1.5	15-120	1500	3			25 MBE
30	2	15-120	2200	3			30 MBE
38.1	1.8	25-150	2200	3			38 MBE
50.8	2	30-220	2500	3			50 MBE
65	2.5	35-250	2500	3			65 MBE
80	2.5	40-280	3500	3			80 MBE
100	3	30-300	3500	3			100 MBE
65	2.5	35-250	2500	3		servo	65 MBE-RBE
80	2.8	40-280	3500	3		servo	80 MBE-RBE
100	3.6	30-300	3500	3		servo	100 MBE-RBE
127	3.8	80-400	4000	3		servo	130 MBE-RBE
18	1.6	10-80	1200	3	yes		18 MRE
25.4	1.5	15-120	1500	3	yes		25 MRE
30	2	15-120	2200	3	yes		30 MRE
38.1	1.8	25-150	2200	3	yes		38 MRE
50.8	2	30-220	2500	3	yes		50 MRE
65	2.5	35-250	2500	3	yes		65 MRE
80	2.5	40-280	3500	3	yes		80 MRE
65	2.5	35-250	2500	3	yes	servo	65 MRE-RBE
80	2.8	40-280	3500	3	yes	servo	80 MRE-RBE
100	3.6	30-300	3500	3	yes	servo	100 MRE-RBE
127	3.8	80-400	4000	3	yes	servo	130 MRE-RBE
152.4	3	90-400	4000	3	yes	servo	150 MRE-RBE

18~25 # : HVAC
fuel line



30~65 # : aviation
furniture
gym utilities
health care

80~150 # : automotive
transportation

4 • carriage (Y-axis) by servo motor with programmable speed

5 • collet (B-axis) grip by hydraulic, rotation by servo motor

6 • mandrel by hydraulic with automatic lubrication & anticipated retraction

1 • bend-arm (C-axis) by servo motor with exclusive transmission gears. Tolerance within ±0.01°

2 • clamp die by hydraulic
• pressure die by hydraulic
• side booster by hydraulic

3 • tools/radii shifting:
motion up-down by servo motor
motion left-right by servo motor

- Industrial PC assorted with touch-screen display, capable of bending simulation, 3D preview and interference detection
- programmable speed for servo axes
- with USB port, easy for data transfer
- convertible between manual / automatic mode
- convertible between inch / metric setting
- convertible between XYZ / YBC axes

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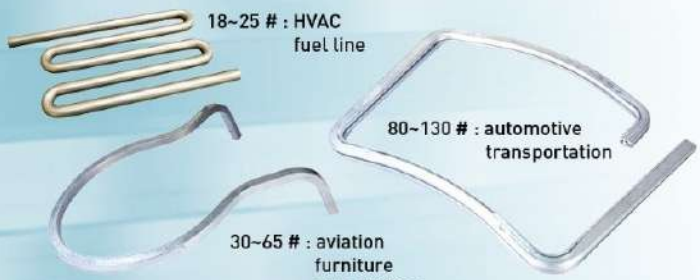
CNC electric hybrid

round tube			mandrel	tooling	roll	rear	CSM
OD	WT	CLR	length	capacity	bending	booster	Part no.
25.4	1.5	15-120	1500	2	yes		25 TBRE
30	2	15-120	2200	2	yes		30 TBRE
38.1	1.8	25-150	2200	2	yes		38 TBRE
50.8	2	30-220	2500	2	yes		50 TBRE
65	2	35-250	2500	2	yes		65 TBRE
80	2.5	40-280	3500	2	yes		80 TBRE
100	3	30-300	3500	2	yes		100 TBRE
65	2.5	35-250	2500	2	yes	servo	65 TBRE-RBE
80	2.8	40-280	3500	2	yes	servo	80 TBRE-RBE
100	3.6	30-300	3500	2	yes	servo	100 TBRE-RBE
127	3.8	80-400	4000	2	yes	servo	130 TBRE-RBE
25.4	1.5	15-120	1500	3	yes		25 TMRE
30	2	15-120	2200	3	yes		30 TMRE
38.1	1.8	25-150	2200	3	yes		38 TMRE
50.8	2	30-220	2500	3	yes		50 TMRE
65	2	35-250	2500	3	yes		65 TMRE
80	2.5	40-280	3500	3	yes		80 TMRE
100	3	30-300	3500	3	yes		100 TMRE
65	2.5	35-250	2500	3	yes	servo	65 TMRE-RBE
80	2.8	40-280	3500	3	yes	servo	80 TMRE-RBE
100	3.6	30-300	3500	3	yes	servo	100 TMRE-RBE



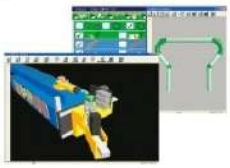
18~25 # : HVAC
fuel line

80~130 # : automotive
transportation

30~65 # : aviation
furniture
gym utilities
health care

- **4** • carriage (Y-axis) by servo motor with programmable speed
- **5** • collet (B-axis) grip by hydraulic, rotation by servo motor
- **6** • mandrel by hydraulic with automatic lubrication & anticipated retraction
- **1** • bend-arm (C-axis) by servo motor with exclusive transmission gears. Tolerance within ±0.01°
- **2** • clamp die by hydraulic
  • pressure die by hydraulic
  • side booster by hydraulic
- **3** • tools/radii shifting: motion up-down by hydraulic motion left-right by servo motor

- Industrial PC assorted with touch-screen display, capable of bending simulation, 3D preview and interference detection
- programmable speed for servo axes
- with USB port, easy for data transfer
- convertible between manual / automatic mode
- convertible between inch / metric setting
- convertible between XYZ / YBC axes



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CNC electric hybrid

round tube			mandrel	tooling	rear	CSM
OD	WT	CLR	length	capacity	booster	Part no.
18	1.6	10-80	1200	1		18 TSRE
30	2	15-120	2200	1		30 TSRE
38.1	1.8	25-150	2200	1		38 TSRE
50.8	2	30-220	2500	1		50 TSRE
65	2	35-250	2500	1		65 TSRE
80	2.5	40-280	3500	1		80 TSRE
100	3	40-350	3500	1		100 TSRE
65	2.5	35-250	2500	1	servo	65 TSRE-RBE
80	2.8	40-280	3500	1	servo	80 TSRE-RBE
12	1	12-55	1000	2		12 TDRE
18	1.6	10-80	1200	2		18 TDRE
25.4	1.5	15-120	1500	2		25 TDRE
30	2	15-120	2200	2		30 TDRE
38.1	1.8	25-150	2200	2		38 TDRE
50.8	2	30-220	2500	2		50 TDRE
65	2	35-250	2500	2		65 TDRE
80	2.5	40-280	3500	2		80 TDRE
100	3	30-300	3500	2		100 TDRE
65	2.5	35-250	2500	2	servo	65 TDRE-RBE
80	2.8	40-280	3500	2	servo	80 TDRE-RBE
100	3.6	30-300	3500	2	servo	100 TDRE-RBE

4 • carriage (Y-axis) by servo motor with programmable speed

5 • collet (B-axis) grip by hydraulic, rotation by servo motor

6 • mandrel by hydraulic with automatic lubrication & anticipated retraction

1 • bend-arm (C-axis) by servo motor with exclusive transmission gears. Tolerance within ±0.01°

2 • clamp die by hydraulic
• pressure die by hydraulic
• side booster by hydraulic

3 • tools/radii shifting (TDRE): motion up-down by hydraulic motion left-right by servo motor

12~25 # : HVAC fuel line

30~65 # : aviation furniture gym utilities health care

80~130 # : automotive transportation

- Industrial PC assorted with touch-screen display, capable of bending simulation, 3D preview and interference detection
- programmable speed for servo axes
- with USB port, easy for data transfer
- convertible between manual / automatic mode
- convertible between inch / metric setting
- convertible between XYZ / YBC axes

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Bending integrated with circular sawing

1. mandrel by hydraulic
2. carriage by servo motor
   collet by hydraulic
   tube rotation by servo motor
3. bending by servo motor
   tooling shift by servo motors
   clamp die + pressure die + side booster by hydraulic
4. sawing by servo motor
   cutting head swivel by hydraulic

Automated bending cell

1. decolier by AC motor
2. 15EMR bending machine
   - capable of straightening, feeding, bending and orbital cutting
   - feeding + work-head rotation + tooling shift + bending by servo motors
   - orbital cutting by AC motor
   - collet by pneumatic
3. tube transfer by robot arm (optional)
4. ER30-5 complex tube end-finish machine
   - capable of end-forming, grooving and chamfering
5. custom-made trolley platform, allows user to move ER30-5 to and fro with ease

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CNC hydraulic

round tube			mandrel length	tooling capacity	rear booster	CSM Part no.
OD	WT	CLR				
38.1	3	25-150	2200	1		38 TSR
50.8	3	30-220	2200	1		50 TSR
65	3	35-250	2500	1		65 TSR
80	4.5	40-280	3000	1		80 TSR
101.6	5.5	60-400	3600	1		100 TSR
120	5.5	80-450	5000	1		120 TSR
152.4	7	90-500	6000	1		150 TSR
180	9	100-600	6000	1		180 TSR
220	15	100-800	6000	1		220 TSR
80	5.5	32-345	3000	1	hydraulic	80 TSR-RBF
101.6	5.5	30-400	3600	1	hydraulic	100 TSR-RBF
120	5.5	80-450	5000	1	hydraulic	120 TSR-RBF
50.8	3	30-220	2200	1	hydraulic	50 TSR-RBH
65	3	35-250	2500	1	hydraulic	65 TSR-RBH
80	4.5	40-250	3000	1	hydraulic	80 TSR-RBH
101.6	5.5	60-400	3600	1	hydraulic	100 TSR-RBH
120	5.5	80-450	5000	1	hydraulic	120 TSR-RBH
152.4	7	90-500	6000	1	hydraulic	150 TSR-RBH
180	9	100-600	6000	1	hydraulic	180 TSR-RBH
38.1	3	25-150	2200	2		38 TDR
50.8	3	30-220	2200	2		50 TDR
65	3	35-250	2500	2		65 TDR
80	4.5	40-280	3000	2		80 TDR
101.6	5.5	60-400	3600	2		100 TDR
120	5.5	80-400	5000	2		120 TDR
152.4	7	90-500	6000	2		150 TDR
101.6	5.5	60-400	3600	2	hydraulic	100 TDR-RBH
152.4	7	90-500	6000	2	hydraulic	150 TDR-RBH

4 • carriage (Y-axis) by servo motor with programmable speed

1 • bend-arm (C-axis) by hydraulic

5 • collet (B-axis) grip by hydraulic, rotation by servo motor

2 • clamp die by hydraulic
• pressure die by hydraulic
• side booster by hydraulic

6 • mandrel by hydraulic with automatic lubrication & anticipated retraction

3 • tools/radii shifting (TDR) : motion up-down by hydraulic motion left-right by hydraulic

38~65 # : furniture
automotive

80~120 # : boiler making
construction
power generation

150~220 # : shipyard
oil rig
water supply

- Industrial PC assorted with touch-screen display, capable of bending simulation, 3D preview and interference detection
- programmable speed for servo axes
- with USB port, easy for data transfer
- convertible between manual / automatic mode
- convertible between inch / metric setting
- convertible between XYZ / YBC axes

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NC hydraulic

round tube			mandrel	tooling	CSM
OD	WT	CLR	length	capacity	Part no.
38.1	3	25-150	2200	1	38 TSRJ
50.8	3	30-220	2200	1	50 TSRJ
65	3	35-250	2500	1	65 TSRJ
80	4.5	40-280	3000	1	80 TSRJ
38.1	3	25-150	2200	2	38 TDRJ
50.8	3	30-220	2200	2	50 TDRJ
65	3	35-250	2500	2	65 TDRJ

round tube			mandrel	tooling	CSM
OD	WT	CLR	length	capacity	Part no.
50.8	3	30-220	2100	1	50 TNCPB
76.2	3	40-250	2400	1	75 TNCPB
88.9	2.5	50-300	2600	1	89 TNCPB
101.6	5.5	60-400	3600	1	100 TNCPB

- PLC controller with touch screen display
- programmable speed for servo axes
- with USB port, easy for data transfer
- convertible between manual / automatic mode
- convertible between inch / metric setting
- convertible between XYZ / YBC axes (optional)

4 • carriage (Y-axis)
- TSRJ/TDRJ : by servo motor with programmable speed
- TNCPB : manual feeding

5 • collet (B-axis)
grip by hydraulic,
rotation by servo motor

6 • mandrel by hydraulic with automatic lubrication & anticipated retraction

1 • bend-arm (C-axis) by hydraulic

2 • clamp die by hydraulic
- pressure die by hydraulic
- side booster by hydraulic

3 • tools/radii shifting (TDRJ) :
motion up-down by hydraulic
motion left-right by hydraulic

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located in Taiwan Southern Science Park

100% in-house production

constant stock and fast delivery

ISO 9001 and CE certified

CSM, a pioneer in tube bending machinery, supplies the most innovative CNC bending machines in the globe. The capacity is ranging from min OD 4 mm to max OD 265 mm. Our machines are implemented in diverse industries, including aviation industries、automotive industries、shipbuilding、furniture making、heating/ventilation/air-conditioning application、petrochemical pipelines 、boiler making 、power plant ... etc. Attributed to our exclusive designs, CSM machines are significantly more compact and consolidated than other manufacturers'. In addition to optimum performance, we assure you power efficient、energy economic and environmental friendly.

Scale

premises : 13770 m²

employment : 160

quality management

ISO 9002 since year 1998

ISO 9001 since year 2002

milestone

1984 : foundation of CSM in Taiwan

1989 : release the first CNC tube bender

1998 : all machines approved with CE mark

1999 : acquire first international design patent

2003 : release the first left- + right-hand tube bender

2005 : relocated to Taiwan Southern Science Park ;
release the first all-electric tube bender

honor & award

2002 : SMEs innovation award (planetary transmission system)

2003 : Taiwan excellence award (38TMRE)

2006 : SMEs innovation award (30EMR)

2007 : winner of national CITD grant (15EMB)
winner of national SBIR grant (75EMB)

2010 : Taiwan excellence award (45EMR)

ĐẠI DIỆN CSM TẠI VIỆT NAM
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