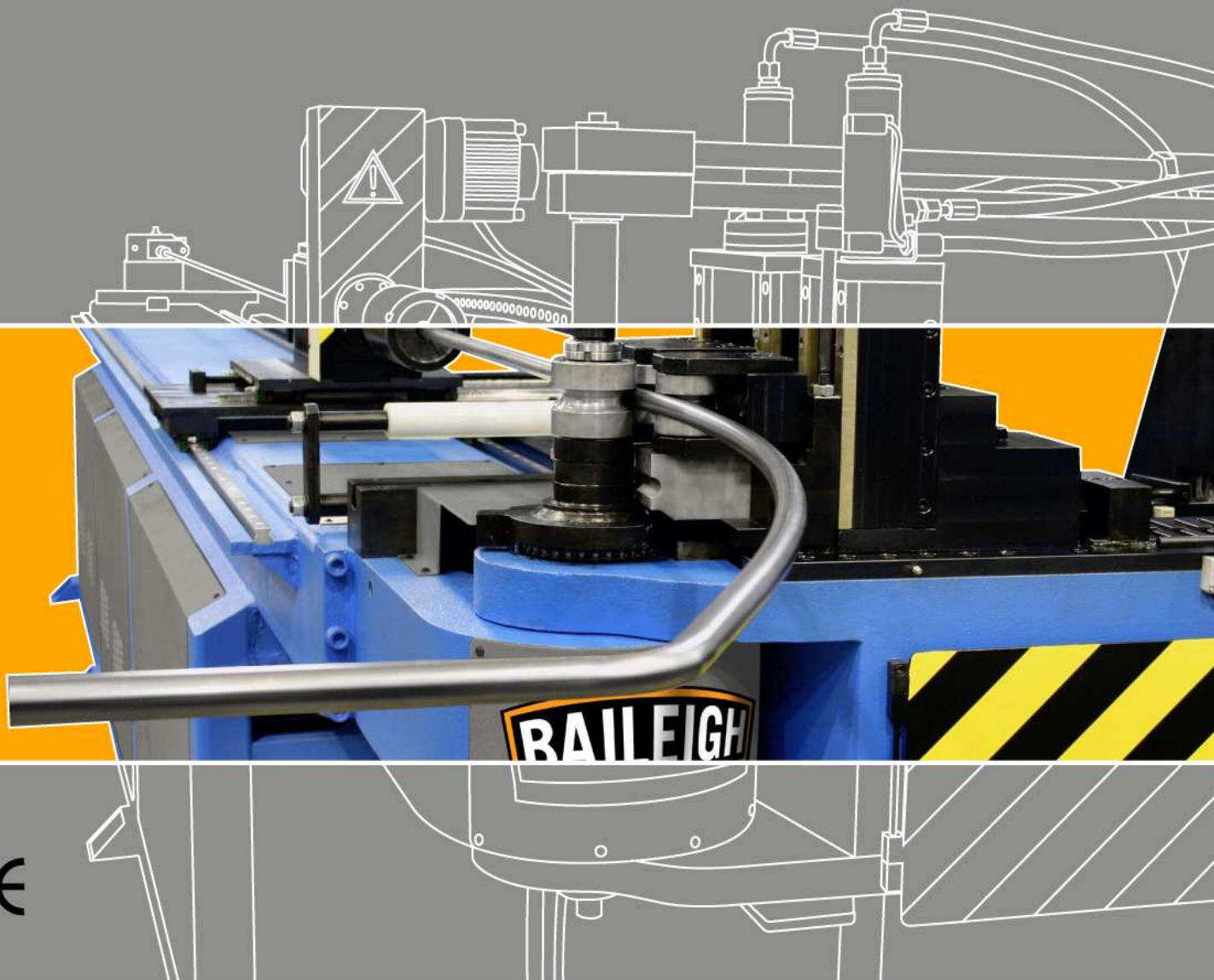




MB Series

■ **Mandrel Benders**
Hydraulic system



CE

Company



References



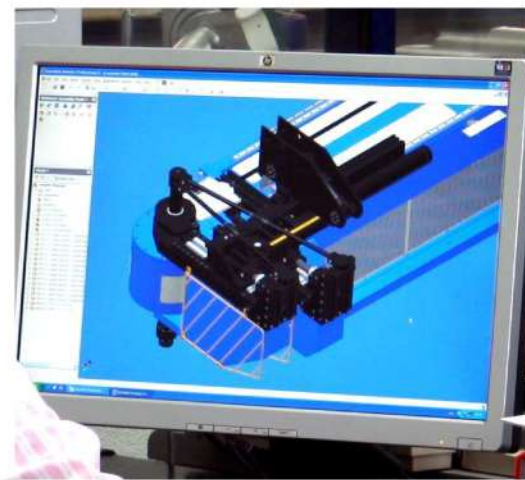
Company Profile

Baileigh Industrial consistently provides its customers with quality metal fabricating equipment in **North America** and **Europe**. Our product line consistently grows and currently offers **mandrel tube/pipe benders, rotary draw tube/pipe benders, tube and pipe notchers, corner notchers, cold saws, band saws, sheet metal shears, sheet metal brakes, ironworkers**, and we add new products on a daily basis. **Baileigh Industrial** has grown to be one of the largest and most respected sources of metal fabricating equipment in the world.

Baileigh Industrial takes great pride in having friendly and knowledgeable staff to assist you with determining the best machine for your application. We also maintain a worldwide network of dealers within the metal fabricating industry to offer you local sales assistance and after sale support. Our goal is to provide profitable solutions to your metal fabricating needs.

Mission Statement

To be the preferred supplier of quality fabrication equipment, systems and services by profitably responding to our customer's needs with dependable deliveries, services, and products that offer innovative technology and unsurpassed value.

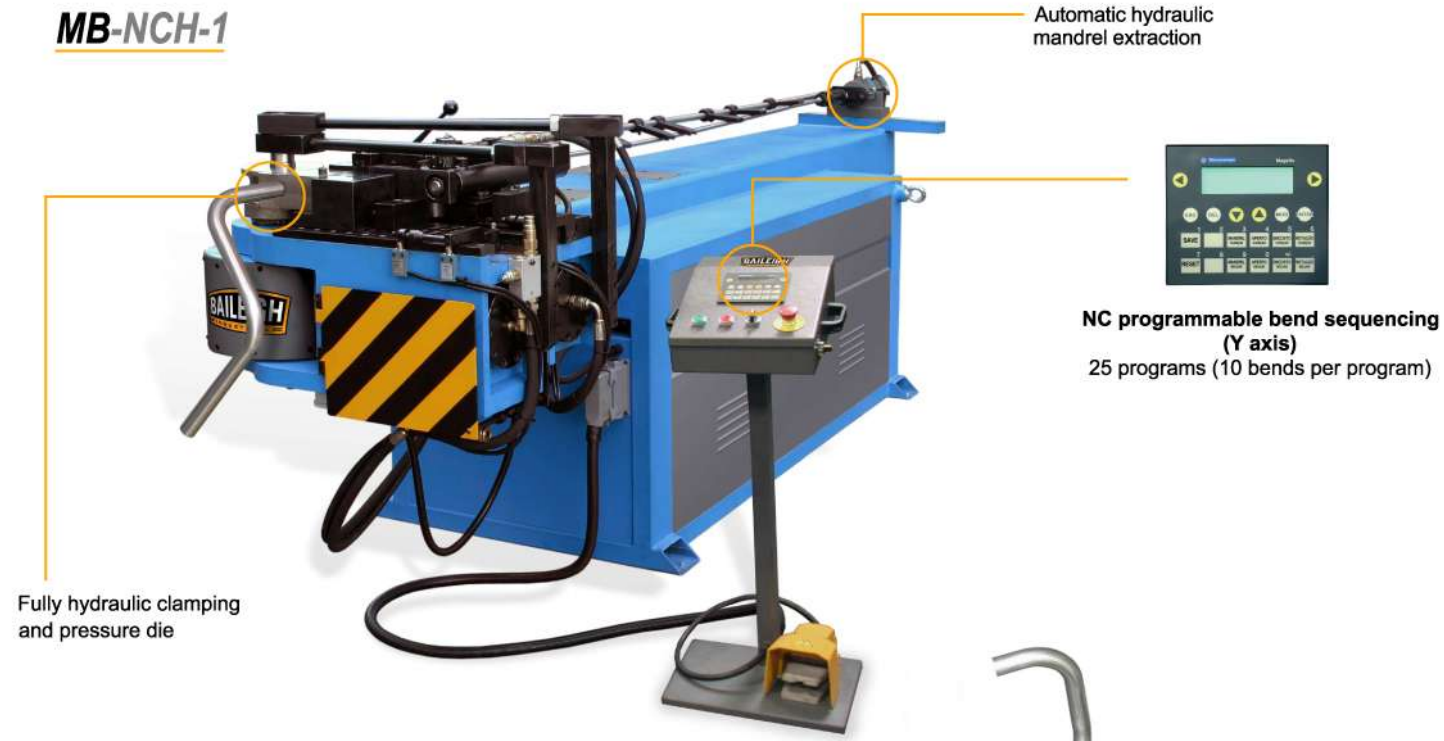


MB-NCH-1

Hydraulic bending machine with numerical controlled bending axis (Y).
Fully hydraulic clamping, pressure die and mandrel extraction, 10 programmable bending speeds, and follower pressure die assist possibility.
All hydraulic movements are independently adjustable.

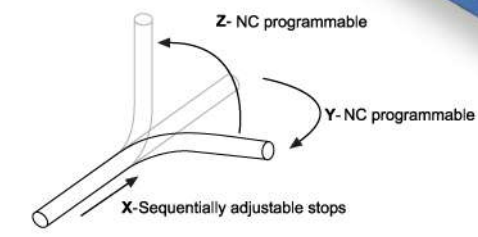


MB-NCH-1



MB-35-NCH-1 MB-42-NCH-1 MB-60-NCH-1 MB-80-NCH-1 MB-100-NCH-1

Maximum bending OD x thickness (steel - 450 N/mm²) - (mm)	35 x 2	42 x 2	60 x 3	80 x 3.5	104 x 4
Maximum bending OD x thickness (stainless steel - 700 N/mm²) - (mm)	28 x 2	38 x 1.5	50.8 x 2	76 x 1.5	100 x 1.5
Maximum bending side x side x thickness (steel - 450 N/mm²) - (mm)*	25 x 25 x 2	35 x 35 x 2	50 x 50 x 3	60 x 60 x 4	80 x 80 x 5
Maximum section modulus (steel - 450 N/mm²) - (cm³)	1.6	2.7	8.3	15.7	30
Maximum Centerline bending Radius (mm)	150	150	180	280	360
Maximum useful length with/without mandrel - (mm)	2500	2500	3000	3500	4000
Total power - (kW)	4	4	15	15	29.5
Weight - (Kg)	2500	3200	3800	4000	7000
Dimensions - (mm)	3300x800x1150	3600x1150x1250	4100x1150x1250	4600x1350x1400	5600x1800x1600



Options

Optional equipment

- Automatic tool retraction
- Automatic hydraulic pressure die assist
- Automatic mandrel lubrication
- Machine useful length increments (1m)
- Split die system (square/rectangular/others)
- Dies for profiles/tubes
- Booster (1D bends)
- Punching unit

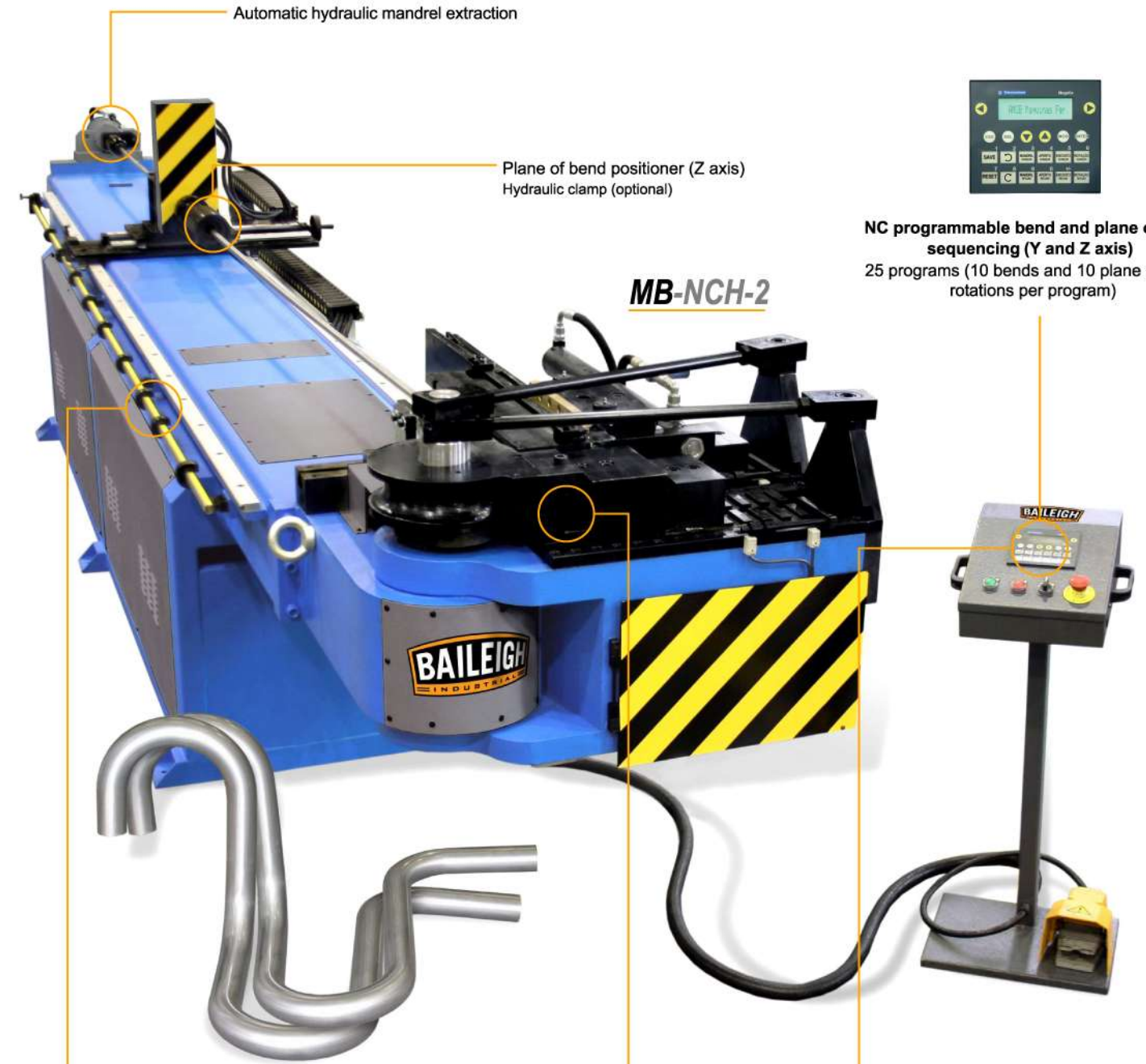
PLC

- Industrial alphanumeric keyboard
- Monitoring alarms
- Troubleshooting messages
- Parts Counter
- Manual/Automatic/Programming modes

(*) split die system needed

MB-NCH-2

Hydraulic bending machine, with numerical controlled bending axis (Y) and the plane of bending axis (Z). Fully hydraulic clamping, pressure die and mandrel extraction, 10 programmable bending speeds, and follower pressure die assist possibility. All hydraulic movements independently adjustable.



NC programmable bend and plane of bend sequencing (Y and Z axis)
25 programs (10 bends and 10 plane of bend rotations per program)

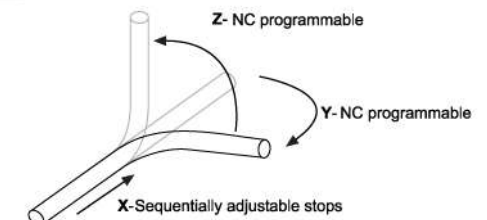
MB-35-NCH-2 MB-42-NCH-2 MB-60-NCH-2 MB-80-NCH-2 MB-100-NCH-2

Maximum bending OD x thickness (steel - 450 N/mm²) - (mm)	35 x 2	42 x 2	60 x 3	80 x 3.5	104 x 4
Maximum bending OD x thickness (stainless steel - 700 N/mm²) - (mm)	28 x 2	38 x 1.5	50.8 x 2	76 x 1.5	100 x 1.5
Maximum bending side x side x thickness (steel - 450 N/mm²) - (mm)*	25 x 25 x 2	35 x 35 x 2	50 x 50 x 3	60 x 60 x 4	80 x 80 x 5
Maximum section modulus (steel - 450 N/mm²) - (cm³)	1.6	2.7	8.3	15.7	30
Maximum Centerline bending Radius (mm)	110	110	155	250	310
Maximum useful length with/without mandrel - (mm)	2500	2500	3000	3500	4000
Total power - (kW)	4.1	4.1	15.1	15.4	30.3
Weight - (Kg)	2700	3400	4000	4200	7200
Dimensions - (mm)	4100x800x1300	4500x1150x1250	5000x1150x1250	5600x1350x1500	6800x1800x1750

Options

Optional equipment

- Automatic tool retraction
- Automatic hydraulic pressure die assist
- Automatic mandrel lubrication
- Hydraulic clamp for plane of bend positioner
- Machine useful length increments (1m)
- Split die system (square/rectangular/others)
- Dies for profiles/tubes
- Booster (1D bends)
- Punching unit



- PLC**
- Industrial alphanumeric keyboard
 - Monitoring alarms
 - Troubleshooting messages
 - Parts Counter
 - Manual/Automatic/Programming modes

MB-CNC

3 computerized numerical controlled servo axis which manage BENDING (Y), FEEDING (X), & ROTATION (Z) axis in a complete AUTOMATIC cycle.

Possibility to control up to 9 axis.



MB-CNC



User-friendly 3D touch screen controller
Proprietary software.

MB-CNC



User-friendly 3D touch screen controller
Proprietary software.

	MB-35-CNC	MB-42-CNC	MB-60-CNC	MB-80-CNC	MB-100-CNC
MAX. Maximum bending OD x thickness (steel - 450 N/mm²) - (mm)	35 x 2	42 x 2	60 x 3	80 x 3.5	104 x 4
MAX. Maximum bending OD x thickness (stainless steel - 700 N/mm²) - (mm)	28 x 2	38 x 1.5	50.8 x 2	76 x 1.5	100 x 1.5
MAX. Maximum bending side x side x thickness (steel - 450 N/mm²) - (mm)*	25 x 25 x 2	35 x 35 x 2	50 x 50 x 3	60 x 60 x 4	80 x 80 x 5
MAX. Maximum section modulus (steel - 450 N/mm²) - (cm³)	1.6	2.7	8.3	15.7	30
MAX. Maximum Centerline bending Radius (mm)	115	115	115	250	330
MAX. Maximum useful length with/without mandrel - (mm)	4000	4000	5000	6000	6000
MAX. Total power - (kW)	14.35	21.85	35	37.3	45.3
MAX. Weight - (Kg)	2800	3600	4500	5300	9000
MAX. Dimensions - (mm)	5700x1000x1350	6100x1150x1450	7100x1300x1450	8150x1400x1550	8800x1800x1750

Options

Optional equipment

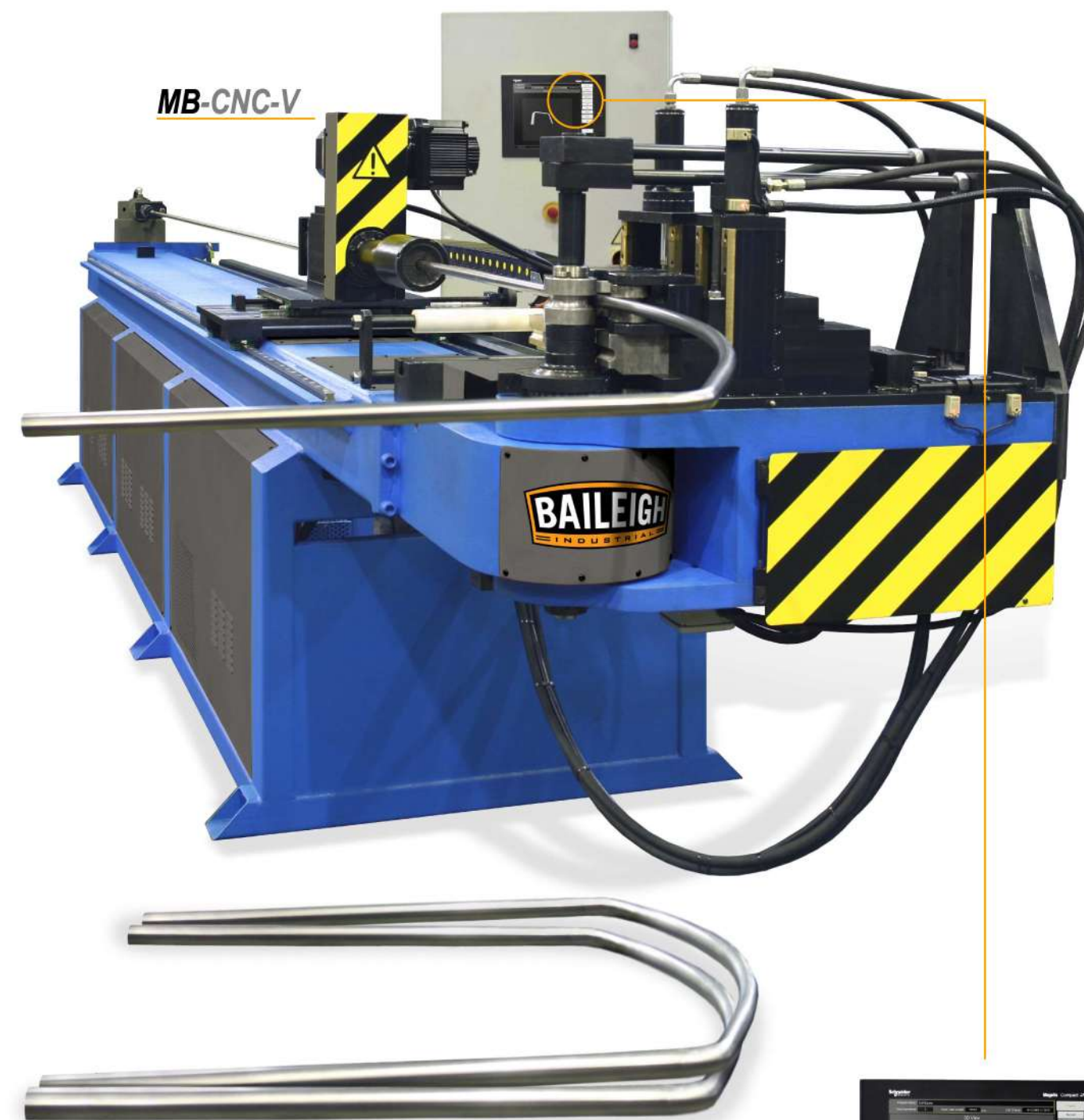
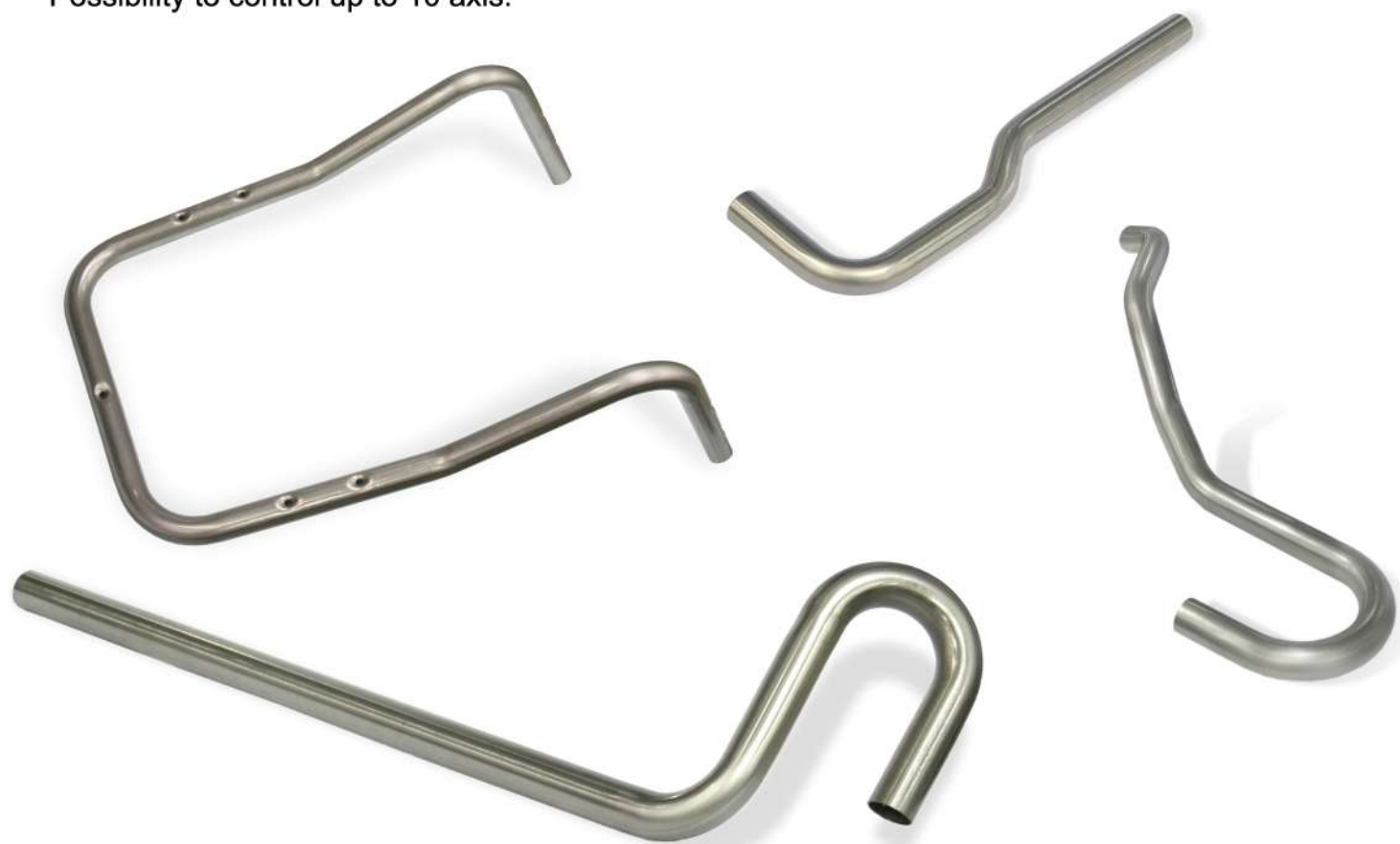
- Automatic mandrel lubrication
- Machine useful length increments (1m)
- Split die system (square/rectangular/others)
- Dies for profiles/tubes
- Booster (1D bends)
- Punching unit
- Extra axis

(* split die system needed)










MB-CNC-V

3 + 1 computerized numerical controlled servo axis which manage BENDING (Y), FEEDING (X), ROTATION (Z) & PUSH BENDING (V) in a complete AUTOMATIC and single stack cycle reducing production time.

Possibility to control up to 10 axis.



MB-35-CNC-V MB-42-CNC-V MB-60-CNC-V MB-80-CNC-V MB-100-CNC-V

 MAX.	Maximum bending OD x thickness (steel - 450 N/mm²) - (mm)	35 x 2	42 x 2	60 x 3	80 x 3.5	104 x 4
 MAX.	Maximum bending OD x thickness (stainless steel - 700 N/mm²) - (mm)	28 x 2	38 x 1.5	50.8 x 2	76 x 1.5	100 x 1.5
 MAX.	Maximum bending side x side x thickness (steel - 450 N/mm²) - (mm)*	25 x 25 x 2	35 x 35 x 2	50 x 50 x 3	60 x 60 x 4	80 x 80 x 5
 MAX.	Maximum section modulus (steel - 450 N/mm²) - (cm³)	1.6	2.7	8.3	15.7	30
 MAX.	Maximum Centerline bending Radius (mm)	200	200	200	310	360
 MAX.	Maximum useful length with/without mandrel - (mm)	4000	4000	5000	6000	6000
 MAX.	Total power - (kW)	24.4	35.8	39.3	59.6	72.5
 MAX.	Weight - (Kg)	3100	4050	5070	5700	9500
 MAX.	Dimensions - (mm)	5700x1300x1600	6100x1300x1700	7100x1300x1700	8150x1450x1800	8800x1850x1950

(* split die system needed)

Options

Optional equipment

- Automatic mandrel lubrication
- Machine useful length increments (1m)
- Split die system (square/rectangular/others)
- Dies for profiles/tubes
- Booster (1D bends)
- Punching unit
- Extra axis

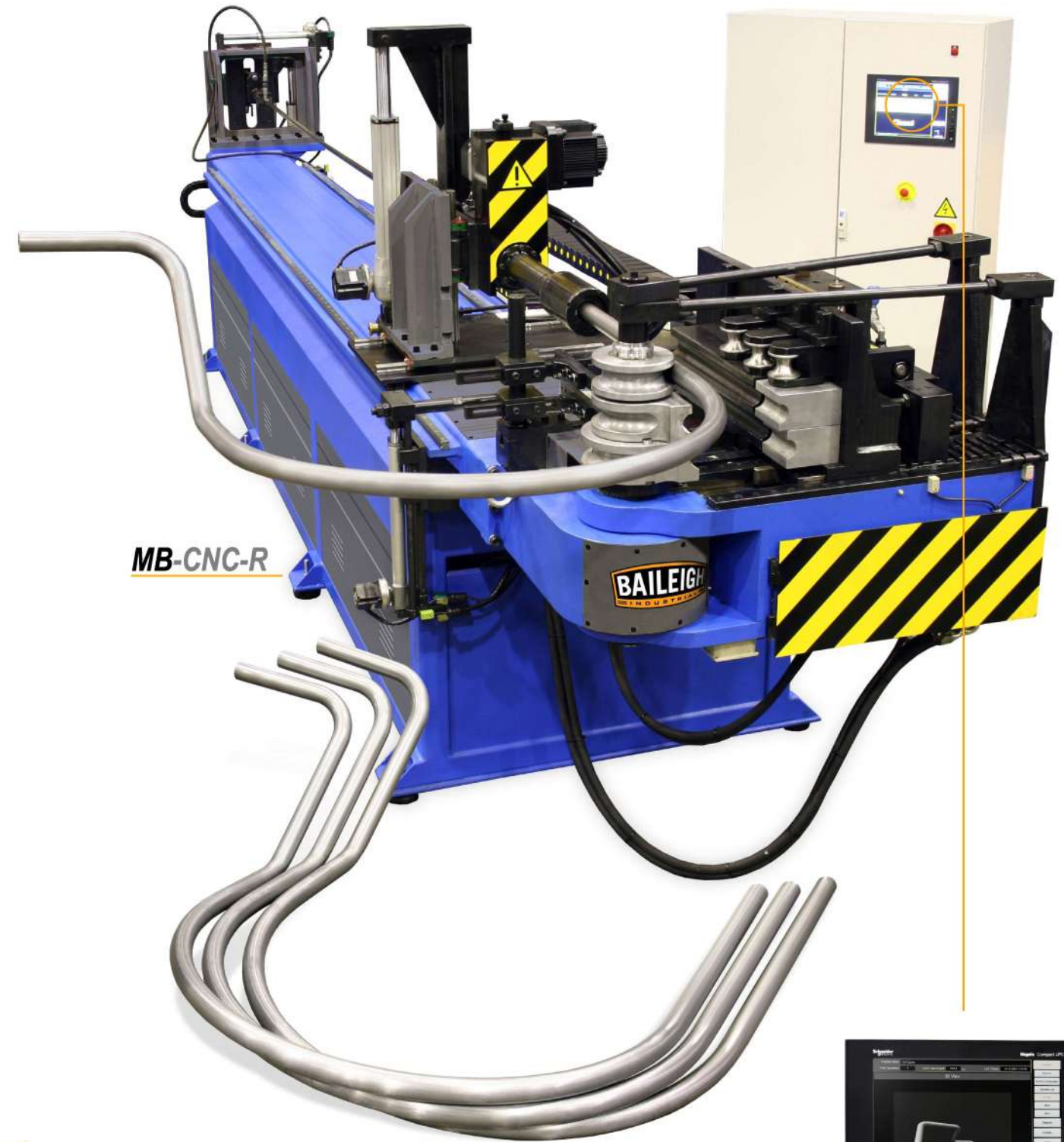


User-friendly 3D touch screen controller
Proprietary software.

MB-CNC-R

8 computerized numerical controlled servo axis which manage BENDING (Y), FEEDING (X), ROTATION (Z), PUSH BENDING (V), POB V&H (U,R) & MANDREL V&H (U1&R1) allowing production of the most complex parts in a complete AUTOMATIC cycle.

Possibility to control up to 16 axis.



MB-35-CNC-R MB-42-CNC-R MB-60-CNC-R MB-80-CNC-R MB-100-CNC-R

	35 x 2	42 x 2	60 x 3	80 x 3.5	104 x 4
	28 x 2	38 x 1.5	50.8 x 2	76 x 1.5	100 x 1.5
	25 x 25 x 2	35 x 35 x 2	50 x 50 x 3	60 x 60 x 4	80 x 80 x 5
	1.6	2.7	8.3	15.7	30
	180	180	180	290	350
	4000	4000	5000	6000	6000
	24.4	35.8	39.3	59.6	72.5
	3600	4300	5450	6100	10100
	5900x1400x1700	6400x1400x1900	7400x1400x1900	8400x1550x1950	9100x1850x2000

Options

Optional equipment

- Automatic mandrel lubrication
- Machine useful length increments (1m)
- Split die system (square/rectangular/others)
- Dies for profiles/tubes
- Booster (1D bends)
- Punching unit
- Extra axis



User-friendly 3D touch screen controller
Proprietary software.

(*) split die system needed

Overview

Baileigh Industrial provides a wide range of standard & customized products. We design, produce and supply our own bending machines from Ø 6 up to Ø 355mm, electric, hydraulic driven, semi-automatic or fully automatic CNC-machines, fixed, variable and multi-radii machines up to 16 CNC-axis.

"Top-quality, Know-how, High-tech and professional service are our keys to success."



Software

- Programs archive
- Tool editor
- Tube editor
- Anti-collision
- 3D view
- Error alarms
- Troubleshooting
- Counters (time/units)
- Remote assistance
- Spring back compensation
- ".step" and ".dxf" files import



Anti-collision



3D View



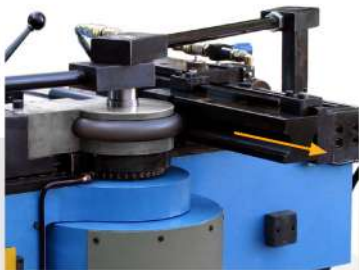
Tube editor



Tool editor

Options

Bending options



• Hydraulic pressure die assist with adjustable speed (*)
 (*) Optional only in CN1 and CN2 models

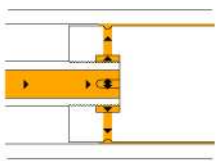


• Booster system for radii till 1D (**)
 (**) Available optional for all models

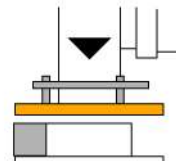


Integrated Bending Solutions, our machines are ready to be easily attached to **automatic loading & unloading systems, welding detection, punching, cutting, end-forming**, among others.

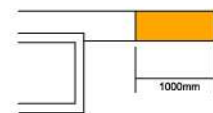
Other options



Automatic mandrel lubrication



Split die system (square/rectangular/others)



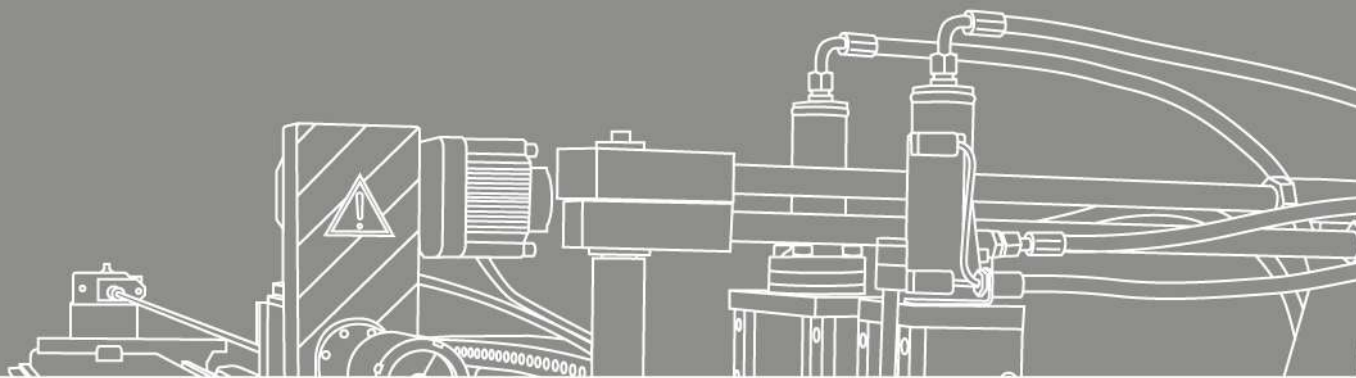
Machine useful length increments (1m)

Services

- **Online Assistance**
- **Software updates**
- **Maintenance**
- **Guarantee Extension**
- **On-line consults**
- **Engineering**
- **Prototypes**



All data stated in this brochure are indicative and are subject to changes without previous notice



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