

comac

**SANDFELD** AS

**VÆRKTØJSMASKINER**

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## THREE DRIVING ROLLS BENDING MACHINES



SERIES  
**galileo**

**GALILEO 50 & GALILEO 80**

**ACCURATE BENDING - VERSATILITY - EASY TO USE  
LONG TERM RELIABILITY - COST EFFECTIVENESS**

Application fields: metal structures, tunnel framework, green houses, urban and patio furniture, stairs, conveyors, agricultural equipment, transportation, architectural doors/windows and MORE!





# GALILEO 50



# COMAC GALILEO 50 and 80 Pyramidal Bending Rolls

Galileo Series machines are easy to use, affordable, versatile and nearly maintenance free. A wide variety of profiles can be bent with the standard universal modular tooling. These advantages make our Galileo Series machines an ideal solution on low to mid volume production runs for small to medium size fabrication shops.

Innovative NC and CNC controls can be combined with Galileo Series for performing variable radii, and for repetitive jobs to be rolled in several passes with high repositioning accuracy. Ask about our Series 3000 Rolling Machines for high volume production and high capacity requirements.

# GALILEO 80



## TRADITION AND INNOVATION

### Features for Galileo Series

- Three driving rolls
- Upper bending roll with hydraulic adjustment
- Digital readout for referencing the position of bending roll
- Two-directional adjustable lateral guide rolls
- Controls actuated via remote free-standing console
- Horizontal-vertical working position combination
- Equipped with standard modular rolls to bend most of the commercial/hot rolled profiles available on the market
- Rolls made of Nickel Chromium Molybdenum alloyed steel, carburized, quenched and tempered to minimum hardness 60 HRC to insure long wear resistance

### Unique to the Galileo 50:

Drive train with universal joints and rolling speed compensation by slip clutch.

### Unique to the Galileo 80:

Each roll shaft is individually driven by AC motor and gearbox.

**Very versatile** and complete machine for bending iron and aluminum profiles, square/rectangular tubes, pipes, flats, angles and special sections. **Cost effectiveness** with an exceptional relation between performance/quality/price. **Long term reliability** significantly more robust construction than similar capacity machines offered by others.

TECHNICAL SPECIFICATIONS		
	GALILEO 50	GALILEO 80
SHAFTS DIAMETER	50 mm	85mm. (Top) 75 mm. (Bottom)
ROLLS DIAMETER	177 mm	248 mm
ROLLING SPEED	4,4 m/min	6 m/min
POWER OUTPUT	1.9 KW	7.7 KW
WEIGHT	530 kg	1.950 kg



CAPACITY CHART					
	GALILEO 50		GALILEO 80		
	Section dimension up to (mm)	To a minimum ID (mm)	Section dimension up to (mm)	To a minimum ID (mm)	
	80x10	800	100x20	1.200	STD
	100x20	800	160x30	800	STD
	40x40	600	60x60	800	STD
	45	800	65	700	STD
	76.1x2.9	1.000	114.3x5	2.000	SPE
	80x40x3	(S)	100x50x4	(S)	STD (*)
	60x60x3	(S)	100x100x3	(S)	STD (*)
	60x60x6	800	80x80x8	1.000	STD
	50x50x6	1.000	70x70x7	1.200	SPE (*)
	60x60x6	600	80x80x9	800	STD
	60x60x6	800	80x80x9	1.200	STD
	60x60x6	600	100x100x9	1.500	STD
	100x50	1.000	UNP 160 (√)	1.000	STD
	100x50	2.000	UNP 160 (√)	1.200	STD
			IPE/IPN 160 (√)	1.200	STD
			HEB 100	1.200	STD

√ UNP180/IPE180 subject to use of optional reinforcing brackets for shafts

(STD) Profile bendable by means of standard modular rolls.  
 (SPE) Special rolls and/or special tooling required.  
 (\*) Special rolls can be required to obtain optimal results.  
 (S) Depending on the acceptable deformation.

The chart Maximum bendable section, minimum inside diameter of the curve. All measures are in millimeters. Indicated values are referring to a material with yield point 260 N/mm<sup>2</sup>. Generally profiles with smaller dimensions compared to the ones indicated can be bent at smaller bending diameters. The indicated minimum bending diameters are obtainable generally in multiple passes.

Technical data, capacities and specification are not binding and may be modified without prior notice.

## Options and Accessories

- Position controller and CNC controls
- Variable rolling speed
- Rolls for pipe, nylon rolls, special rolls
- Foot pedal/Joystick
- Tooling to bend angle leg in
- Special tooling to roll handrail of spiral staircase
- Instrument for measurement of the radii
- Outboard tie-rod stiffeners roll shafts



Special tooling to roll handrail



Digimetreing



Nylon rolls



CONFIGURATIONS	<b>GALILEO 50</b>	<b>GALILEO 80</b>
<b>HV</b>	Standard	-
<b>HVP</b>	opt	Standard
<b>PQ2</b>	opt	opt
<b>CN2.1V</b>	opt	opt

## HV

Mobile control console with digital readout for referencing the position of the bending roll; push buttons for forward/reverse roll rotation and adjustment of the bending roll, emergency stop palm button.



## HVP

### ONE AXIS POSITION CONTROLLER

Mobile control console with led digital readout out for bending roll. Programmable device for automatic repositioning of bending roll. Recommended for jobs to be executed in several passes. Storage capacity 99 programs of 16 steps.



## PQ2

### TWO AXIS POSITION CONTROLLER

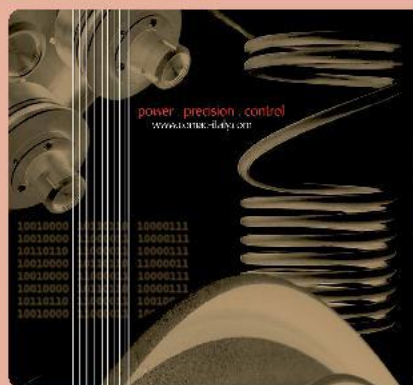
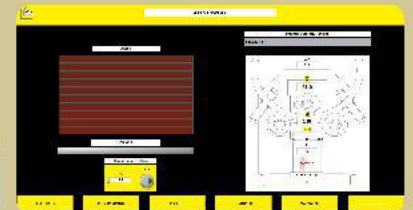
Stand alone control console with touch screen display. Accurate repositioning recommended for repetitive jobs. Programmable two axis position control, including measuring roller of profile feeding and detector for reset of the rotary axis. Storage capacity 99 programs of 30 steps.



## CN 2.1V

### TWO AXIS CNC CONTROL

Variable profile feeding speed and two speeds of the bending roll (fast approach and slow tuning). User friendly programming with graphic interface and direct radius input. Import DXF file. PLC + PC with Windows O.S., with 15,4" touch screen; Wi-Fi; Remote Assistance.



Our wide range of profile bending machines includes: double pinch angle rolls, dedicated coiling machines, customized equipment and tooling.

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