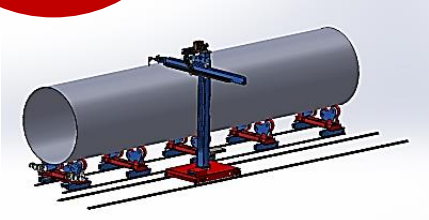




ABOUT PRODUCT



General Features ;

- Column-Boom systems, Although can perform welding independently for workpieces, it can also perform circular or lengthwise welding using rotator or positioner.
- Allow reducing the production time and getting tired of operator, as well as, Increase the accuracy and the amount of continuous welding that an operator can do.
- Welding types that can be used by the system; could be SAW, MIG, MAG, etc
- Column-Boom systems over ground ;
 - i) As standard Fixed to ground type is provided.
 - ii) Optionally Automatic Movement over Rails can be manufactured.
- Column Rotary System ;
 - i) As standard, Manual Rotation by means of Butt bearing is provided.
 - ii) Optionally, Automatic Motor Driven type can be manufactured.

Technical Advantages ;

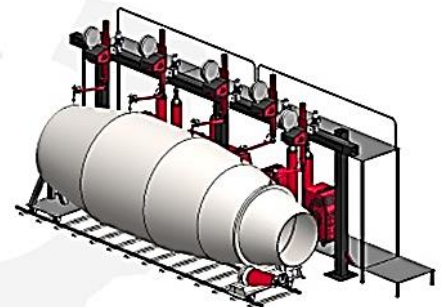
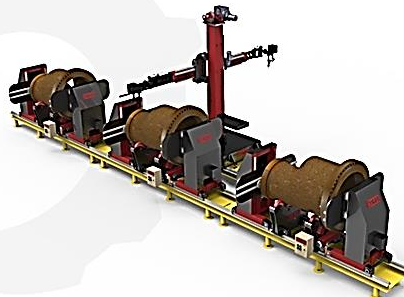
- Birel Machinery as standard provides the following models: BCBM-3x3 | BCBM-4x4 | BCBM-5x5 | BCBM-6x6
- Birel Machinery, out of these standard capacities, according to customer standards & requirements, can present quotation against the machine revision process or fulfill customer request against new designs.
- Motor with brake and forced fan cooling.
- For any special request or project, Please do not hesitate to contact with us.

Standard Equipments

- 360° degree Manually Rotating Column
- Adjustable linear Boom speed
- Boom speed digital display
- Against Anti-fall mechanical Locking System for boom.
- Limit switch for all movements.
- Welding power unit Table on the column.
- Cable channels on the Column – Boom.
- Torch mounting equipment on the boom end.
- 5mt. Hand Box Cable Remote Control.
- 5mt. Power Cable.
- Chassis Color (RAL 7011-Grey) and Covers(RAL 3020-Red)
- Brake & Fan Cooled Motor (Asynchronous)
- Power Supply: 380V - (3 phase+Neutral +Earthing)
- One (1) Year Warranty (wearing parts out of warranty)

Optional Control Units

- Column and Boom System moving on Rail. (BCMB-M model)
- Master Command Panel
- Automatic Rotary Column
- Operator Chair
- Stairs
- Tandem Welding Apparatus
- Lighting.
- Synchronization opportunity of working with Rotators over Master Panel.
- Oscillator System (with MIG/MAG)
- Rail movement
- SAW, MIG/MAG Weldings
- Joint Tracking System – Laser
- Joint Tracking System – Mechanical Sensor.
- Automation Systems
- Wireless remote controller



❖ All technical specifications are subject to change without prior notice.

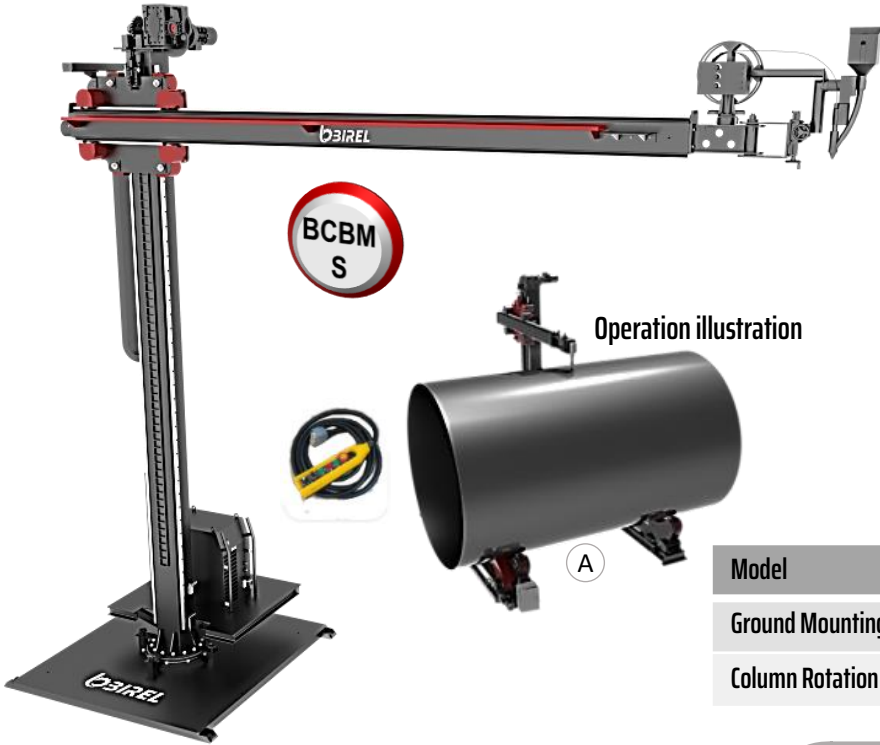
BCBM
S

Chapter-C : Column-Boom | C01 : Stationary Version

STATIONARY Version Column-Boom System

BIREL
MÜHENDİSLİK MAKİNA A.Ş.

STATIONARY VERSION



Model	BCBM-S Version STANDARD VERSION
Ground Mounting	Fixed To Ground
Column Rotation	Manual Rotation over butt bearing



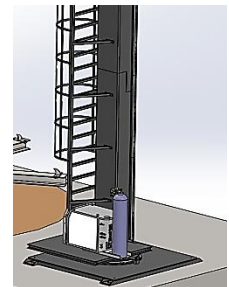
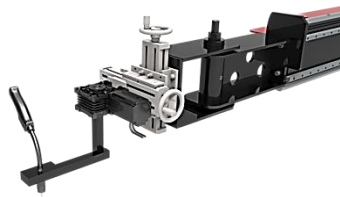
OPTIONAL Modifications & Equipments;

M01: Movable Chair

M02: Oscillator

M03: Motorised Column Rotation

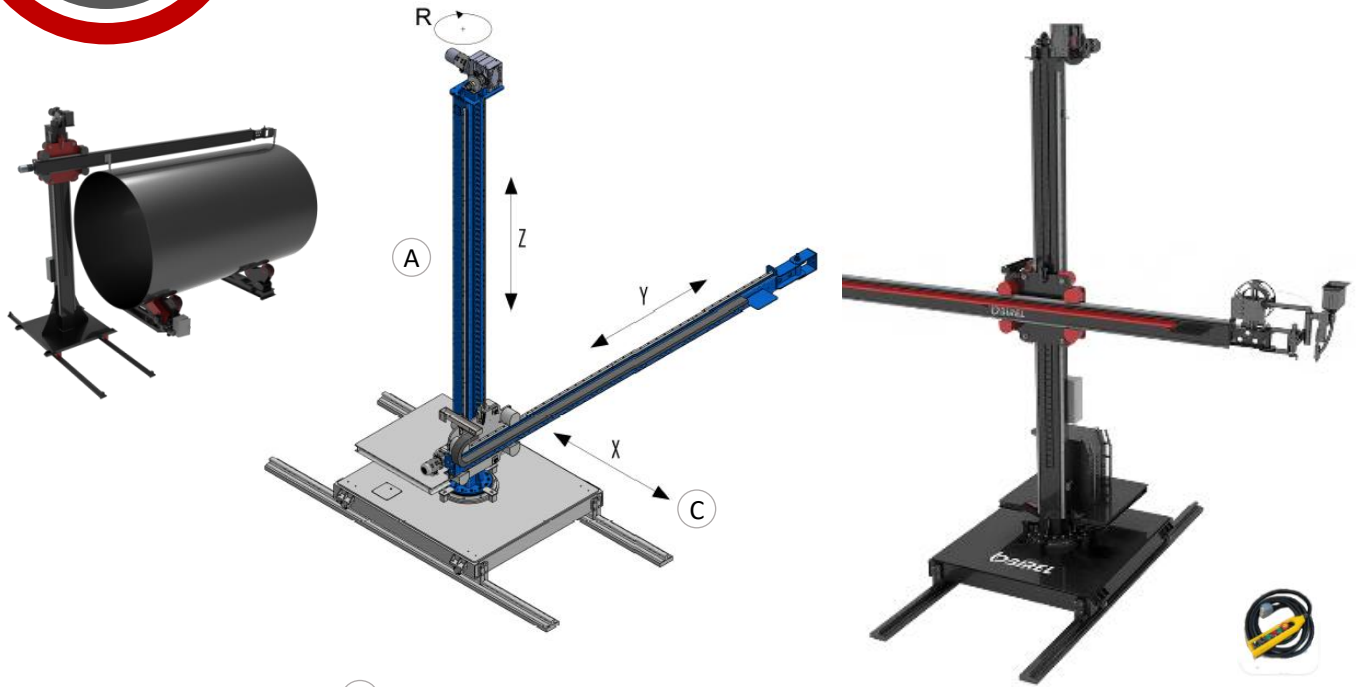
M04: Steel Stair



❖ All technical specifications are subject to change without prior notice.

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MOVABLE ON RAIL VERSION



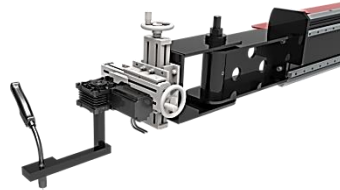
Model	RAIL VERSION
Ground Mounting	Movable on Rail
Column Rotation	Manual Rotation

OPTIONAL Modifications & Equipments;

M01: Movable Chair



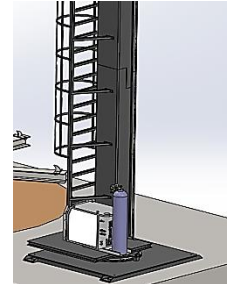
M02: Oscillator



M03: Motorised Column Rotation



M04: Steel Stair



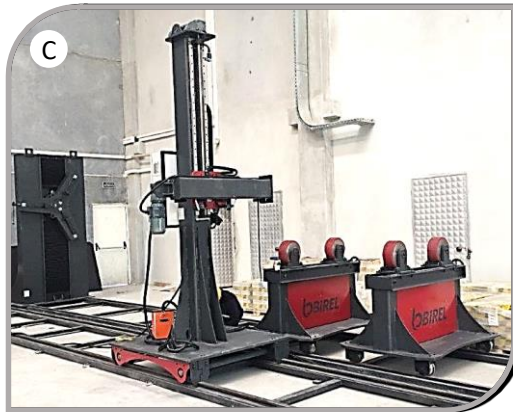
❖ All technical specifications are subject to change without prior notice.



ELBOW-PIPE WELDING LINE

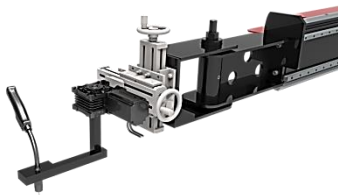


Model	ELBOW – PIPE Welding Line
Ground Mounting	Movable on Rail
Column Rotation	As standard not available (optional)

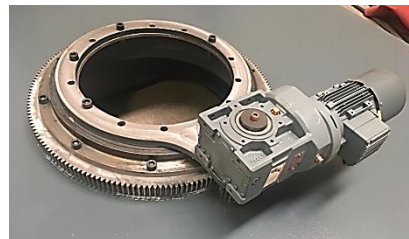


OPTIONAL Modifications & Equipments;

M01:Oscillator



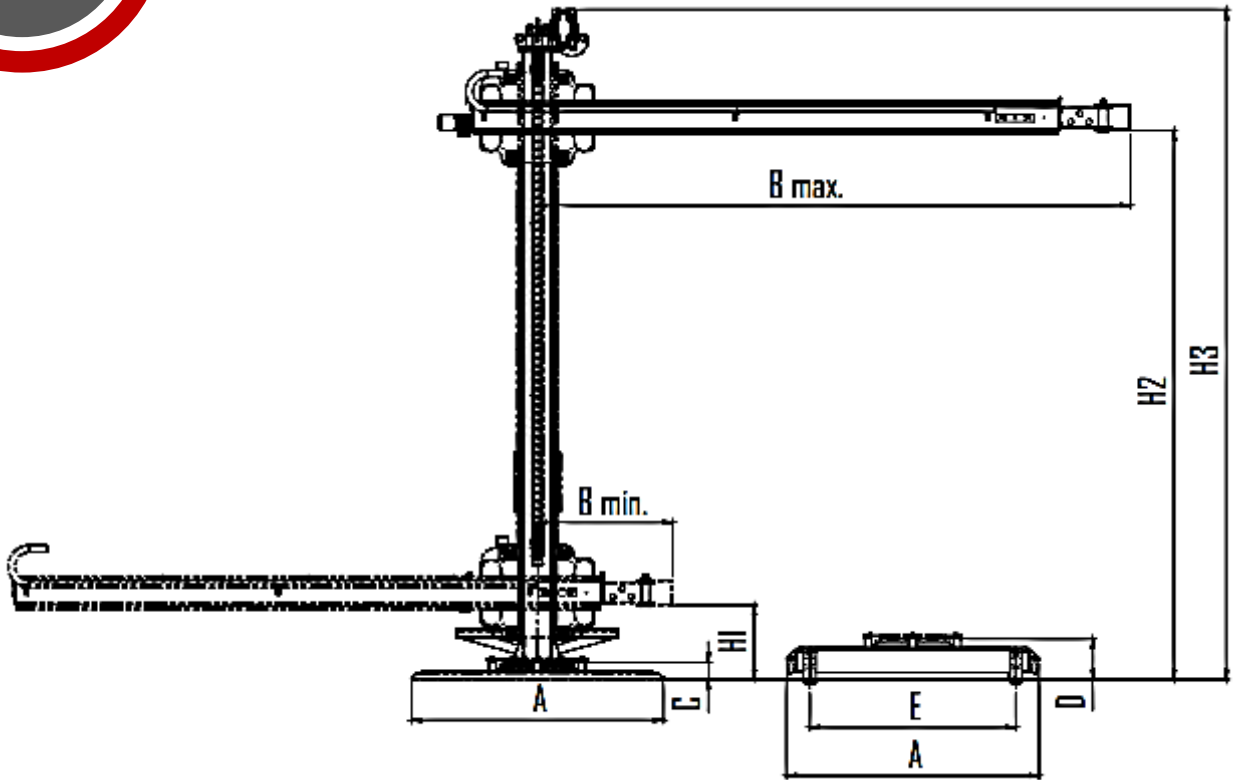
M02:Motorised Column Rotation



❖ All technical specifications are subject to change without prior notice.



TECHNICAL PROPERTIES



Technical Details :

Model : BCBM	Symb.	Unit	BCBM-3 x 3	BCBM-4 x 4	BCBM-5 x 5	BCBM-6 x 6
Working range		m	3 x 3	4 x 4	5 x 5	6 x 6
Max load (boom)		kg	200	200	150	150
Boom speed (welding) min/max		mm/min	200-1850	200-1850	200-1850	200-1850
Lifting speed min/max		mm/min	1.220	1.220	1.220	1.220
Column rotation			manual	manual	manual	manual
Column rotation motorized			option	option	option	option
Boom height Max (movable base)	H2+(D-C)	mm	4.000	5.000	6.000	6.920
Boom height Min (movable base)	H1+(D-C)	mm	850	850	980	920
Height (Moveable Type)	H3+(D-C)	mm	4.970	6.050	7.050	8.010
Boom height Max (stationary base)	H2	mm	3.800	4.800	5.800	6.800
Boom height Min (stationary base)	H1	mm	650	650	780	780
Height (Fixed Type)	H3	mm	4.770	5.850	6.850	7.850
Extension min/max	Bmax-Bmin	mm	1180-4180	1180-5180	1180-6180	1290-7290
Base size (width x length)	A	mm	2200x2200	2200x2200	2200x2200	2400x2400
Base speed (welding) min/max		mm / min	200-1770	200-1770	200-1770	200-1770
Track width (inside to inside)	E	mm	1.800	1.800	1.800	2.000
Rail type			A55	A55	A55	A55
Platform size (width x length)		mm	1230x1400	1230x1400	1230x1400	1230x1400
Total load on platform		kg	150	150	150	150
Weight (Moveable Type)		kg	2.790	3.060	4.100	4.900
Weight (Fixed Type)		kg	2.380	2.620	3.780	4.200
Total Motor Power		kW	1	1	1	1

↳ Out of these standard capacities, Birel Machinery, according to customer requirements, has the manufacturing possibility at different capacities, sizes.

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