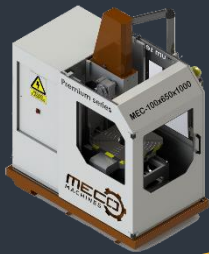




Technical File
MEC-100x650x1000





MEC-100x650x1000

Technical features

EXPERIENCE AND KNOW-HOW

We have more than 30 years of experience in the field of manufacturing and developing industrial machinery

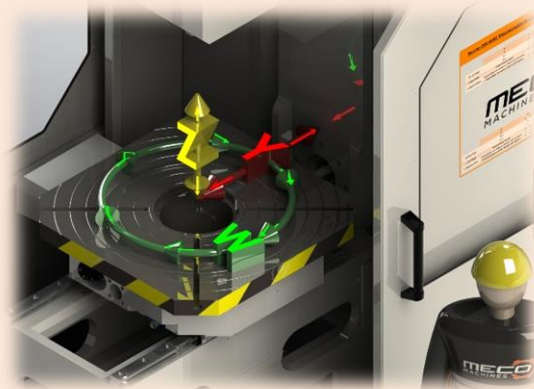
INTERNATIONAL PRESTIGE

We have a large international presence with customers in more than 30 countries around the world.



I+D

Innovation and development are one of the main assets that we have in MECO to remain at the forefront of a highly competitive and changing as the sector of the machine tool environment.



3 AUTOMATIC AXES. Thanks to the electronic control systems of last generation that have been incorporated in this model for its three axes is achieved greater precision and a higher degree of automation. The machine can work in automatic mode, so that the operator can simply handle replace the part once the machine has finished the process of pre-programmed machining. Undoubtedly, the MECO broaching machines are designed to increase the production capacity of our customers.



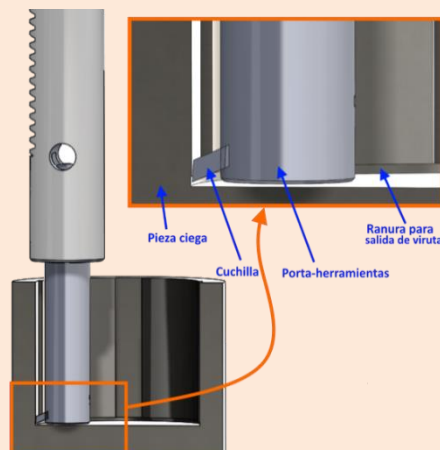
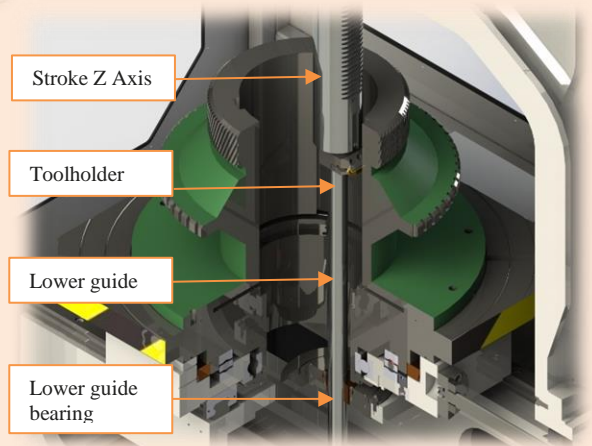
LOWER GUIDED SYSTEM Z AXIS. Through a removable guide bar running through a clamping sleeve located at the bottom, we set the Z axis. As a result we suppress the bending of the shaft and the tool holder, and thus we cut absolutely straight and precise. This system allows us to remove more material in each pass and thus greatly shorten production times.

Stroke Z Axis

Toolholder

Lower guide

Lower guide bearing

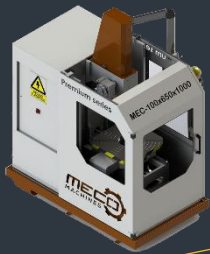


COMMUNICATION WITH THE USER. The user accesses the machine control via a touch screen. The software has been developed and simplified to facilitate the user to control the process. It is not a complex CNC system but is a very intuitive and easy to use software and requires no prior training and any operator can control the process.



BLIND SAMPLES. Disassembly the guide bar and programming properly the limit switches, the tool can enter in blind parts and machining grooves or keyways.





MECO-100x650x1000

Technical File

HUMAN TEAM

The multidisciplinary team consists of qualified and committed professionals. It is certainly a fundamental and indispensable pillar on which our projects are held.

START UP

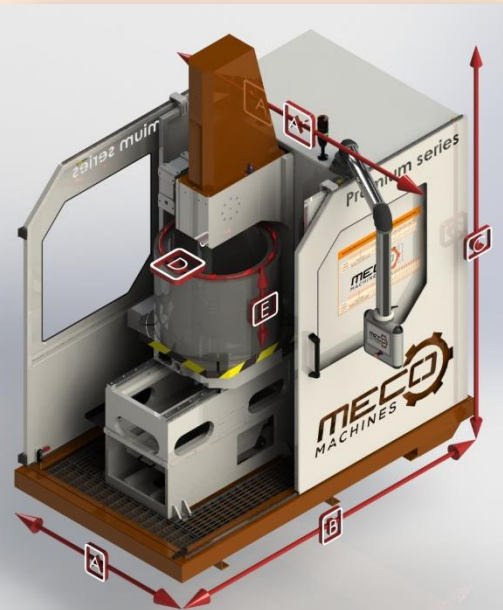
In MECO we like to make life easier for our customers from the start. So we take care of the installation and commissioning of the machine at the site assigned by the client.

TRAINING IN THE CUSTOMER HOME

In addition to the launch of the machine, each customer receives a training day with which it is intended that the user is familiar with the operation of newly acquired equipment.

WARRANTY

The factory warranty is 1 year for any manufacturing fault or defect to CE standard.



Machine Dimensions

- **A** (Machine width without touch screen): 1500 mm
- **A'** (Maximum width with touch screen): 2100 mm
- **B** (Maximum Deep of machine): 2200 mm
- **C** (Maximum Machine Height): 3100 mm
- **D** (Maximum Diameter of sample): 1000 mm
- **E** (Maximum Higher of sample): 650 mm
- (Weight of the machine): 3020 kg

Electrical Parameters

- Apparence Power: 12450 VA
- Volts: 400V
- Frequency: 50Hz.
- Conexion: III+N+T

Specifications of Z Axis (automatic)

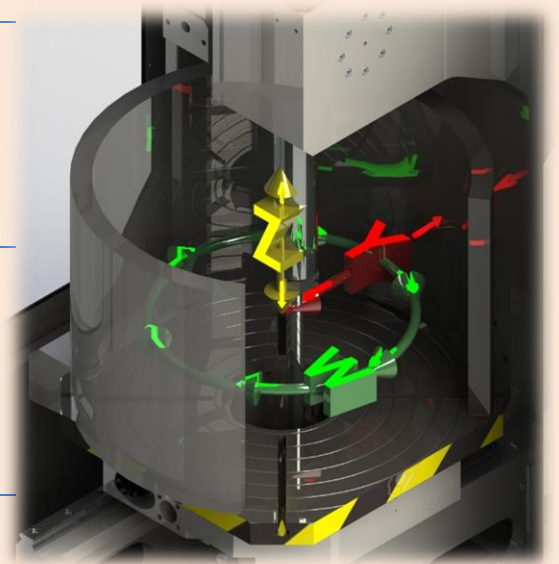
- Maximum Z Axis Speed: 15 m/min
- Total Z Axis Stroke: 780 mm
- Power Motor Z Axis: 3500 W
- Maximum Working Power: 14 kN
- Gearbox Relation: 40:1

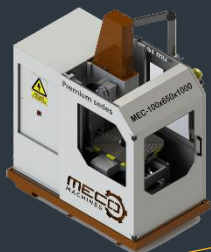
Specifications of Y Axis (automatic)

- Maximum Y Axis speed: 0.375 m/min
- + Stroke in Y Axis: 320 mm
- - Stroke in Y Axis: 40 mm
- Power Motor Y Axis: 2000 W
- Maximum Working Power: 187 kN
- Gearbox Relation: 28:1

Specifications of W Axis (automatic)

- Maximum rotation speed W axis: 10 RPM
- Total degrees rotation w: 360°
- Total Engine Power W axis: 2000 W
- Maximum Torque: 1.0 kNm
- Reduction ratio: 1:1
- Dimensions of rotary plate: 800 x 800 mm





MECO-100x650x1000

Versatility and manufacturing capacity

Versatility is undoubtedly the main differentiating factor of MECO broaching regarding our competence as a single machine meets the same production capacity hitherto achieved with two machines, Keyseaters and broaching.

Our broaching machine offer all the features and specifications of the most sophisticated slotting machine of the market. To all this we add the ability to perform internal spline, which until now could only be done with broaching, just without having to spend a fortune on brushes. While brush costs several thousand Euros, the cost of a tool for MECO Keyseater is negligible. But this is not the only competitive advantage over broaching, so are the functional solutions that MECO Slotting offer and you can perform with precision, inner grooved on both straight and tapered blind parts, something impossible for broaching.

Below are some of the pieces that can be done with our broaching.

CUSTOMER CARE

In MECO we have a customer service department that is in charge of solving a professional and friendly manner any needs that may arise to our customers.

CUSTOMIZED SOLUTIONS

Experience tells us that every customer is different and not all have the same needs. So from MECO we add value to our product as customized solutions.

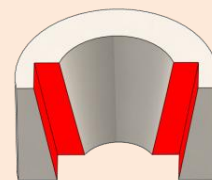
TECHNICAL ASSISTANCE

If anything the MECO broaching is characterized by high reliability and robustness. However, our technical department is fully segmented and organized to solve in the shortest time, technical contingency that may arise anywhere in the world.

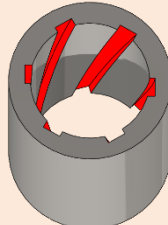
✓ **STRAIGHT SLOTS**



✓ **CONICAL SLOTS**



✓ **HELICAL SLOTS**



✓ **KEYWAYS IN BLIND HOLES**



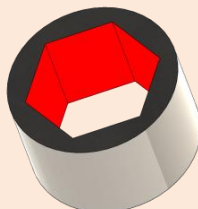
✓ **SPECIAL KEYWAYS**



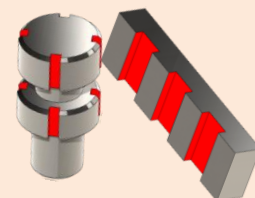
✓ **SQUARES**



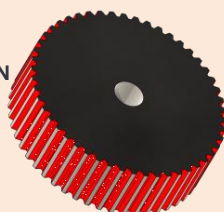
✓ **HEXAGONAL**



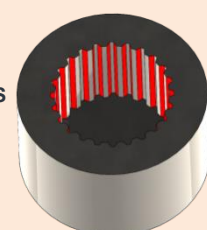
✓ **SPECIAL SAMPLES**

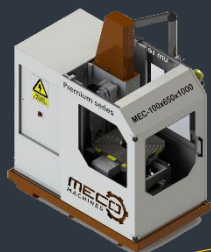


✓ **SPLINES AND SLOTS IN EXTERNAL PARTS**



✓ **SPLINES AND SLOTS IN INTERNAL PARTS AND BLIND HOLES**





MECO-100x650x1000

Equipment, tools and customized solutions

CUTTERS IN STOCK

In MECO always we have a large stock of cutters and standard tools. The cutters will be delivered within 24h in tolerances H7 and P9 for Spain and south Europe. Other tolerances or special cutters 5-6 days. Other destinations on request.

SPECIAL CUTTERS

From the technical office of MECO we will bring solutions and special customized cutters. We are in charge of manufacturing the cutters with the desired customer profile and the required tolerances. We also conduct studies and tests with different materials to optimize and maximize the life of the tool in special applications.

SUPPLIES

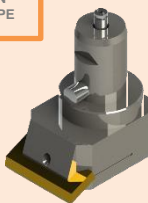
In MECO we guarantee our customers the supply of spare parts for the entire life cycle of the machine.

In MECO we are also manufacturers of accessories, tools and tool and spare parts for all our machines. Our delivery times are very small and offer technical and maintenance service anywhere in the world. In addition to a great product, our experience and know-how enables us to offer customized solutions according to the specific needs of each client.

✓ TOOLHOLDERS

They are easily interchangeable thanks to a design with clamping system developed by MECO.

PN
TYPE



SV
TYPE



Special cutters. We handle manufacture special cutters with the desired customer profile and the required tolerances. We also perform tests on pieces of customers to determine the optimum blade material and maximize the life cycle of the same.

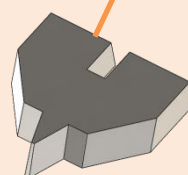
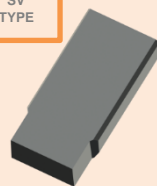
✓ CUTTERS

Our low-cost blades are the only consumable required by MECO Keyseater Machine. They are designed to maximize

PN
TYPE

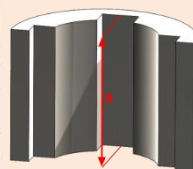


SV
TYPE

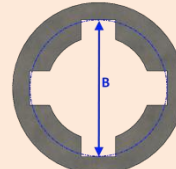


Geometric limits cutters and tool holder standard.

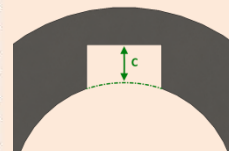
	WIDTH AND KIND OF TOOL (mm)	TOOL HOLDER REQUIRED	A (mm)	B (mm)	B' (mm)	C (mm)	D (mm)
MEC-100	3 FLR SV	3mm SV (Guide bar 7mm)	25	644	236	1,83	10
	4 FLR SV	4mm SV (Guide bar 8mm)	35	644	235	1,99	11
	5 FLR SV	5mm SV (Guide bar 9mm)	45	647	237	2,26	13
	6 FLR SV	6mm SV (Guide bar 12mm)	60	652	239	3,18	18
	8 FLR SV	8mm SV (Guide bar 16mm)	90	657	240	4,00	23
	10 FLR SV	10mm SV (Guide bar 22mm)	116	665	242	4,72	30
	12 FLR SV	12mm SV (Guide bar 30mm)	136	672	241	5,94	36
	14 FLR SV	14mm SV (Guide bar 30mm)	158	676	245	5,54	41
	16 FLR SV	From 16mm to 25mm SV (Guide bar 40mm)	200	686	245	6,70	50
	18 FLR SV		200	686	245	7,01	51
	20 FLR SV		200	688	247	8,29	52
	22 FLR SV		200	688	247	8,71	52
	25 FLR SV		200	688	247	10,13	53
	28 FLR SV	From 28mm to 32mm SV (Guide bar 80mm)	249	711	250	11,06	75
	32 FLR SV		249	711	250	12,89	75
MEC-200	32 FLG PN	From 32mm to 50mm PN (Guide bar 80mm)	650	761	300	14,60	117
	36 FLG PN		650	761	300	16,60	118
	40 FLG PN		650	761	300	17,78	119
	45 FLG PN		650	761	300	18,95	120
	50 FLG PN	From 50mm to 70mm PN (Guide bar 80mm)	650	766	305	23,06	123
	56 FLG PN		650	766	305	17,36	123
	63 FLG PN		650	766	305	20,36	125
	70 FLG PN		650	766	305	23,86	126
	76 FLG PN	From 80mm to 100mm PN (Guide bar 60mm)	650	766	305	30,66	129
	80 FLG PN		650	766	305	35,50	132
	90 FLG PN		650	766	305	44,50	135
	100 FLG PN		650	766	305	66,90	139



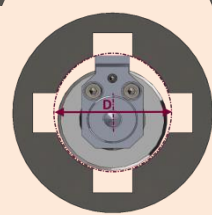
A: Maximum Higher of the Keyway.



Reach maximum diameter of the cutter with the sample centered
-B: Without bar guide
-B': With bar guide



C: Maximum Depth of the slot.



D: Minimum diameter of the hole.

* Mecos reserves the right to modify the parameters of the preceding table without notice.

* The upper limitations correspond to standard toolholders and cutters. However, Mecos can develop special toolholders and cutters following the customers need.