

**TECMO  
TOOLS**



# PRECISION KEYSEATERS

MAXIMUM PRECISION, EFFICACY  
AND PRODUCTIVITY IN NOTCHING

**MECO**  
MACHINES

SYSTEM DESIGNED, PATENTED  
AND MANUFACTURED IN SPAIN / UE

# MECO PRECISION KEYSEATERS

The MECO precision keyseater is the most versatile on the market: using an efficient patented system, it makes direct slots, and is much more accurate and faster than its competitors.

A single machine can be used to make any shape: notches, slots, splines, internal and external toothing, spirals... A precision keyseater designed for clients that require carrying out this type of work accurately and fast.

We built our first keyseater in the year 2000: currently we have 500 units operating in 30 countries. Different model machines are continuously being developed with improvements and new features, always in compliance with all European and American quality and safety standards.



## A WIDE RANGE OF MACHINES FOR ALL TYPES OF JOBS

From the smallest and cheapest models for maintenance workshops, to medium size machines with an automated separation system and giant keyseaters with 4 interpolating axes and CMC control, programmable by CAD/CAM for large sized parts, complex shapes and maximum production. We design machines tailor made to the needs of our clients.

## SYSTEM PATENTED AND MANUFACTURED IN SPAIN

MECO has a worldwide patent for its design. Our machines are completely developed and manufactured with passion in Spain. We only use the highest quality materials and components and comply with the most stringent standards and regulations such as EC, UL, GOST, etc.

## A MODEL FOR EACH NEED

- MEC 55**    • Automatic
- MEC 70**    • Basic    • Automatic    • Premium
- MEC 80**    • Basic    • Automatic    • Premium

- MEC 100**    • Premium
- MEC ARC**    • Premium CNC

## A VERSATILE MACHINE PROVIDING NOTHING BUT ADVANTAGES

### Maximum precision

This MECO keyseater guarantees your work will be perfectly executed with unprecedented precision. The work is not dependent on the abilities of the operator.

### Fast for maximum productivity

Perfect slots in record time. For example, this MECO keyseater can carry out a 28mm width slot in about 4 minutes on its own.

### The most versatile machine on the market

Performs any type of notch or groove imaginable, on the inner as well as outer surface of parts. All by a single machine.

### Recent innovations

Work with the direct width of the notch that is to be machined. This way, absolute accuracy as well as perfect parallelism is achieved in minimal time to achieve maximum productivity.

### Easy to use

This machine can be used by any operator: no special skill or programming knowledge is required: the machine provides the precision.

### High cutting power

This clever design by MECO was created in 1998, continues to be extremely efficient and allows applying a cutting power that no other manufacturer can match.

### Maintenance free

Simply: this MECO keyseater does not require maintenance. Its robustness and durability are extreme: some of our clients have been using their keyseater intensively for more than 20 years now.

### Optimisation of the tools

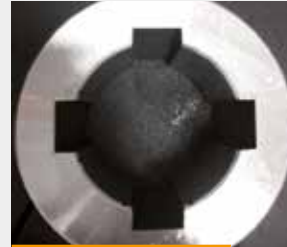
The tool remains fixed, which extends its service life up to 30 times more compared to conventional keyseaters. Tool changes are made in just a few seconds. The price of the tool and its long service life make the price of the tool negligible in the process.

### Quick return on investment

Given the multiple advantages, low tool consumption and high versatility, you will amortize your investment in no time.

## ALL APPLICATIONS; A SINGLE MACHINE

### SLOTS AND NOTCHES



Straight



Tapered



Spiral



Blind



Special parts



Special parts

### GEOMETRIC SHAPES



Grooves



Polygon shapes

# A WIDE RANGE TO MEET ALL REQUIREMENTS

## MEC 55



MEC 55 Automatic

### FUNCTIONAL KEYSEATER FOR MAINTENANCE

Maximum part height of 275 mm - Width of the slot from 3 to 45 mm - Work table capable of holding parts measuring up to approximately 400 mm in diameter.

#### Automatic

Straight and tapered slots, on through and blind holes - PLC with touch screen for controlling the speed of the cutting, advance and movement of the work table - Perfect when working with short series of small parts made of different materials. Reliable, robust and efficient, like the entire MECO top line product range

## MEC 70



MEC 70 Automatic

### MAXIMUM PRECISION AND SPEED FOR MEDIUM-SIZED PARTS

Slots between 3 and 100 mm - Parts up to approximately 600 mm in diameter - Lower guide bar: providing extra rigidity for carrying out demanding work. - Automatic tool separation system in each cycle to prevent chaffing during the up movement and obtain a perfect finish on the part and a long service life for the tool.

#### Basic

Maximum part height of 340 mm - Manual cut movement - Manual indexing plate built in to the table, with measuring vernier and positions from 1 to 16 divisions, one degree at a time. Slots on through and blind holes.

#### Automatic

Maximum part height of 340 mm - Makes straight and tapered slots on through and blind holes - PLC with touch screen for controlling the speed of the cutting and movement of the work table - Manual indexing plate built in to the table with a measuring vernier and positions from 1 to 16 divisions,

one degree at a time. Perfect for use on different materials with different hardnesses, in medium series.

#### Premium

Includes automatic indexing plate with a wide range of configurations. - Maximum part height of 310 mm - PLC with touch screen for controlling the speed of the cutting and rotation of the work table - Indicated for making straight parts with multiple slots or grooves, on the inner as well as outer surface: straight, tapered and spiral, on blind and through holes.

## MEC 80



MEC 80 Premium

### KEYSEATER FOR PRODUCTION WORKSHOPS

Slots between 3 and 100 mm - Parts up to approximately 800 mm in diameter - Lower guide bar: providing extra rigidity for carrying out demanding work. - Automatic tool separation system in each cycle to prevent chaffing during the up movement and obtain a perfect finish on the part and a long service life for the tool.

#### Basic

Maximum part height of 440 mm - Manual cutting movement - Automatic tool separation system in each cycle to prevent chaffing during the up movement and obtain a perfect finish on the part and a long service life for the tool.

#### Automatic

Maximum part height of 440 mm - Allows making straight and tapered slots on through and blind holes - PLC with touch screen for controlling the speed of the cutting, advance and movement of the work table - Manual indexing plate built in to the

table with a measuring vernier and positions from 1 to 16 divisions, one degree at a time. Perfect for use on different materials with different hardnesses, on large sized parts.

#### Premium

Includes automatic indexing plate with a wide range of configurations. - Maximum part height of 410 mm - PLC with touch screen for controlling the speed of the cutting, advance movement and rotation of the work table - Indicated for making parts with multiple slots or grooves, on the inner as well as outer surface: straight, tapered and spiral, on blind and through holes.

**MEC 100**

**EXTREME PRECISION  
ON LARGE SIZED PARTS**



MEC 100 Premium

Our largest standard keyseater offers maximum precision and productivity when making multiple slots and grooves, on the inner as well as outer surface of parts. The best available technology and our maximum effort in engineering and development converge in this machine.

**Premium**

Maximum part height of 650 mm - Slot between 3 and 115 mm - Capable of working with parts up to approximately 1000 mm in diameter - Straight and tapered slots, on the inner as well as outer surface of the parts, on through or blank holes - Also makes spiral shapes.

Includes automatic indexing plate with many programming divisions, controlled by a maximum precision encoder and hydraulic brake.

**MEC ARC**

**THE FIRST BRIDGE KEYSEATER  
FOR LARGE SIZED PARTS**

MEC ARC is a new design of keyseater: the result of years of experience building these types of machines. MEC ARC is designed to machine large sized parts with slots and notches of any shape and size, on the inner as well as outer surfaces of these parts.

The arc configuration of the MEC ARC range provides unprecedented rigidity to this type of machining work. MEC ARC is equipped with three or four work axes synchronised to each thanks to a CNC system. The incorporation of CAM in the system allows MEC ARC to operate without limitations when

defining shapes with maximum precision, regardless of how complex the shape is.

With the MEC ARC series, MECO reaches its maximum technical performance, **designing and building the most suitable MEC ARC tailored to the requirements of each client.**

MEC ARC is a unique and revolutionary keyseater, which, without a doubt, has positioned us at the cutting edge in terms of manufacturing these machines worldwide.



# MECO, ADVANCED MECHANICAL ENGINEERING

MECÁNICA COMERCIAL MECO, is a Spanish company run by the Peirón family with more than 40 years of experience managing advanced mechanical engineering projects, with designs based on the needs of its clients as well as their own innovations and creations.

During these four decades, MECO has also become the most reliable industrial maintenance partner for the most important factories in its area of influence.

### Proven innovation and quality

The Spanish Ministry of Industry recognised MECO with an award for breaking the technological impasse that existed in terms of notching techniques over the past 50 years. Additionally, the Spanish Machine-tool Manufacturers' Association has supported the internationalisation of the keyseater thanks to its quality and innovation. In 2021 we were awarded with the "Innovative SME Hallmark" by the Ministry of Science and Innovation.

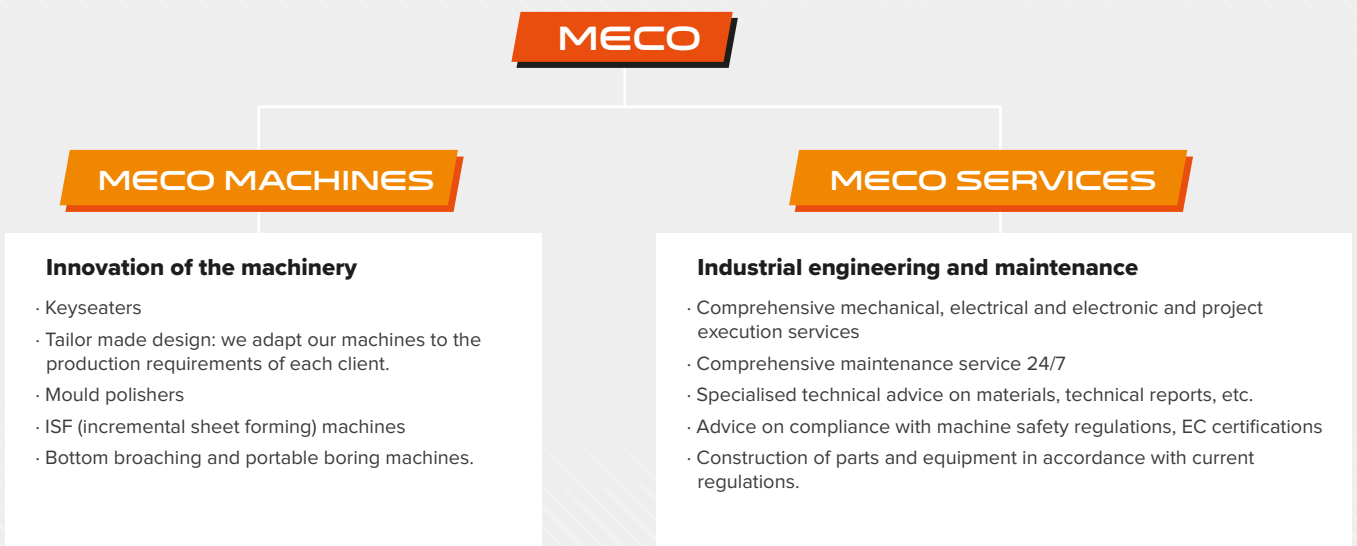


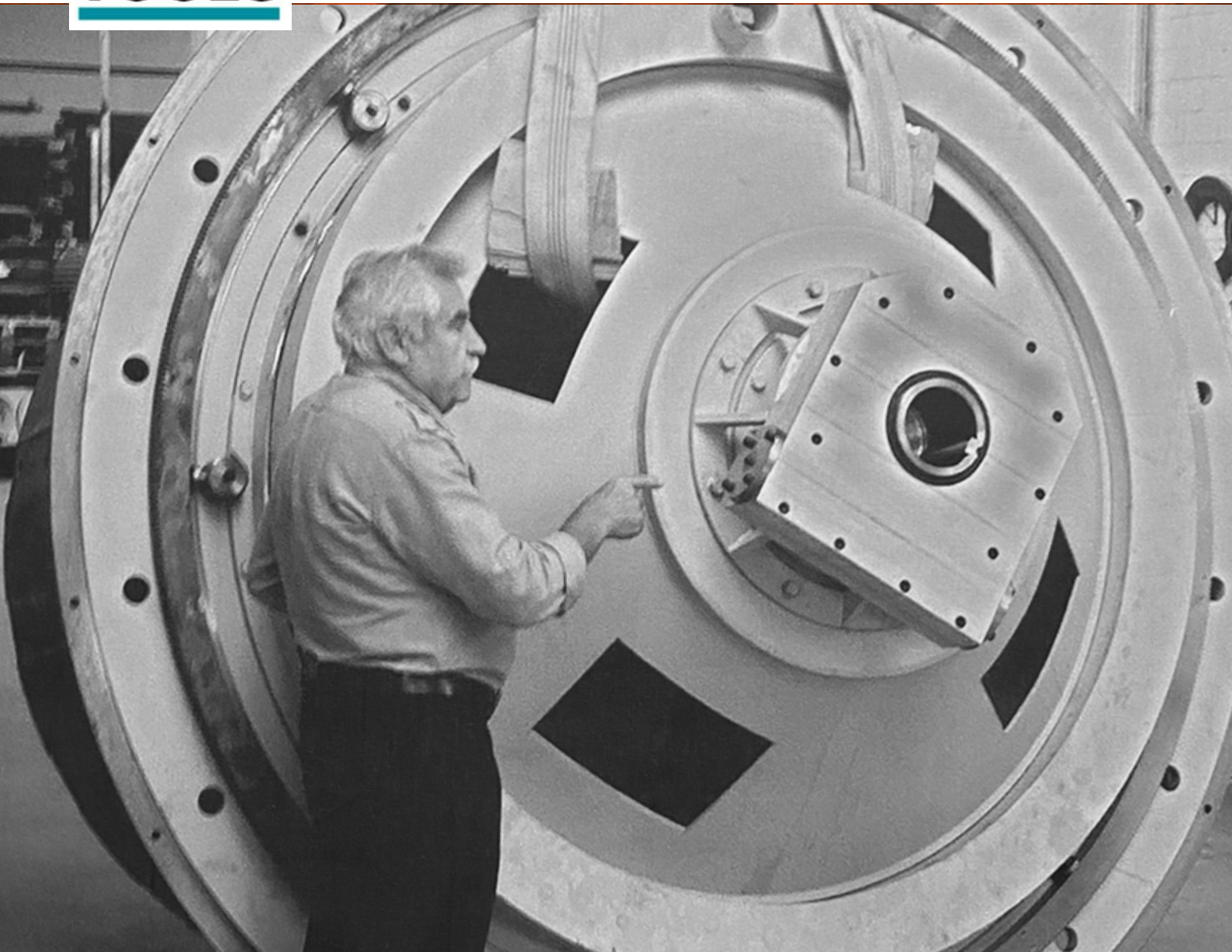
In addition to the marketing of several types of machine-tools and the implementation of an industrial maintenance service, MECO has developed new revolutionary machines such as the ISF (Incremental Sheet Forming), mould polishers or the large bridge keyseaters MEC ARC.

## A FAMILY RUN COMPANY WITH SOLID VALUES:

- ✓ Passion
- ✓ Professionalism
- ✓ Personalised service
- ✓ Continuous improvement and innovation
- ✓ High implication
- ✓ Quality, precision and durability

## SERVICES WITH HIGH ADDED VALUE FOR THE INDUSTRY





WE HAVE EARNED THE TRUST OF MORE THAN 500 CLIENTS  
IN 30 COUNTRIES



- ✓ Spain
- ✓ Japan
- ✓ United States
- ✓ Germany
- ✓ Belgium
- ✓ Poland
- ✓ United Kingdom
- ✓ Canada
- ✓ Saudi Arabia
- ✓ Australia
- ✓ France
- ✓ Italy
- ✓ Finland
- ✓ Algeria
- ✓ Argentina
- ✓ Mexico
- ✓ Russia
- ✓ ...

# ENGINEERING PROFESSIONALS AT YOUR SERVICE

- ◊ Worldwide technical service
- ◊ Available 7/365
- ◊ Spare parts and tools in stock
- ◊ Personal and friendly service
- ◊ International presence



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