

# 641TBA



# The step into fully automated lens edging

## Mei641

**MEI 641** is the perfect dry-cut lens edger for small and medium labs that are ready for the complete automation of the finishing of their jobs. **MEI 641** can handle even the most complex jobs with its six fast spindles, and allows you to keep pace with the demanding eyeglass market.

The addition of the automatic loading device and our stacker units to feed the **MEI 641**, avoids the human intervention to feed the machine for more than one or more hours of continuous automatic production.

The addition of the TBA unit avoids the need for the edging block, reducing the consumable and labor costs for the blocking and deblocking operation.

The TBA unit, with the built-in inspection system assures the automatic measurement of all optical parameters without increasing the edging cycle time.

The system gives the machine the ability to inspect the lens before the edging and avoids time-consuming rejects.



AVOIDANCE OF EDGE LACQUERING DEFECTS AND EDGE PROCESS ENGRAVINGS



GRADIENT VERIFICATION & ALIGNMENT



TRANSMITTANCE VERIFICATION



POLARIZATION VERIFICATION & ALIGNMENT



BLANK CUT-OUT AUTO CORRECTION

VERSIONS

# MEI 641 is available in three different versions:

MEI641



CLAMPING METHOD:

LENS LOADING SYSTEM:

With the most common block types

Manual

MEI641 AUTO



With the most common block types

Automatic

MEI641 TBA



Blockless

Automatic

BENEFIT

# 641: a MEI classic.



**MEI MILLING TECHNOLOGY**

Extreme precision with no rework



**DRY CUT**

No water to cut lenses



**CUTTING EVERY KIND OF EDGE**

Bevel, rimless, nylon, drilling, polishing, safety bevel, T-bevel, step back, ... with every inclination (up to base 16)



**EASILY EDGE SPORT FRAMES (OPTIONAL)**

Thanks to Shape Finder EVO, the optical device for the detection of shapes and holes in a lens



**NO TWISTING OR CRAZING**

Double Drive system eliminates risk of twisting or crazing (from lenses with hydrophobic, oleophobic or AR coatings)



**AUTOMATIC CALIBRATION (OPTIONAL)**

With DCU EVO, without interrupting the production



**MEI GUARANTEED LONG TERM QUALITY**

Minimal costs for maintenance, downtime and service visits, due to the machine's industrial design



**STANDARD OMA/VCA COMPATIBILITY**

In addition to customized MEI/OMA tags. Easy and optimized connection with LMS



**SMART BEVEL FUNCTION**

Bevel position is automatically adjusted according to frame base and varying thicknesses of lenses



**JOBTRACKING 4.0 (OPTIONAL)**

Functions of data supervision, productivity analysis, and overall lab efficiency with JobTracking4.0

# Better together.

All the accessories.

## STACKERS/DESTACKERS

Stacker and Destacker allow MEI machines to work with autonomy through automated loading of stacks of trays. The system is composed of two different devices placed on either side of the machine. Compressed-air devices introduce the trays automatically into the machine for processing.

## JOB TRACKING 4.0

JobTracking4.0 combines the functions of data supervision, productivity analysis and overall lab efficiency, driving your production process to excellence by taking advantage of Industry 4.0 technologies.

## DCU EVO

The DCU EVO (Direct Calibration Unit) is an optical measuring system used to calibrate automatically the MEI edgers' cutting tools and lens axis. With DCU EVO you can calibrate the machine without interrupting the production.

## SHAPE FINDER EVO

The ShapeFinder EVO is an optical scanning device used to detect lens shapes and holes. Its exclusive design specifically avoids all the typical inaccuracies of the camera based units currently on the market.

## CSA / UL COMPLIANCE

Equipment and accessories manufactured with CSA / UL approved material and in compliance with CSA / UL specifications.

# Datasheet

# Mei641

## MEI641 Technical Data



### Materials

All organic lens materials, i.e. CR39, Polycarbonate, High Index and Trivex



### Communication

Standard VCA/OMA protocol RS232 or Ethernet



### Max lens blank dimension

Ø 90 mm (Ø 50 to Ø 85 mm with TBA Unit)



### Security certificate

Signed CE manufacturer certificate



### Min box dimension

22x30 mm (vertical)  
24x30 mm (inclined)

Note: box size is determined by the block used



### Dimension

MEI641: 1065x1105x1700 (h) mm  
(41,9x43,5x66,9 inches)

MEI641 AUTO: 1510x1150x1880 (h) mm  
(59,5x45,3x74 inches)

MEI641 TBA: 1665x1405x2020 (h) mm  
(65,5x55,3x79,5 inches)



### Lens base

Standard: up to 12  
Special: up to 16



### Weight (approx.)

MEI641: 660 Kg

MEI641 AUTO: 745 Kg

MEI641 TBA: 975 Kg



### Lens clamping system

Double Drive system,

## TBA Technical Data



### Lens type

Single vision, cylindrical, spherical, front side toric, bifocal (flat top, curve top and round), progressive, gradient tinted, polarized, any lens coatings



### Dimension

1250x350x1860 (h) mm (50x14x74 inches)



### Weight (approx.)

310 Kg

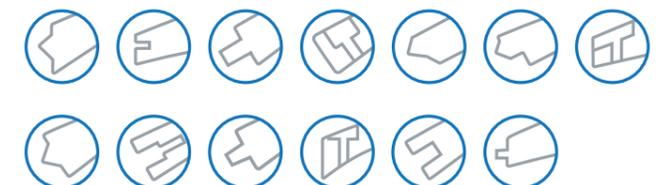
## External Supplies

**Power Supply** 400V 3 phase, 50/60 Hz  
208V 3 phase, 50/60 Hz

**Air Supply** 6 bars (87-101 psi), min capacity 300 l/min, connection pipe minimum Ø 12 mm internally, Ø 15 mm external (recommended)

**Scrap Collection** Air flow 20 mt/sec, Min capacity of 500 m<sup>3</sup>/hour, connection pipe Ø 100 mm (3.93 inches)

## Examples of kind of edge





---

**MEI S.R.L.**  
**Headquarters  
& Manufacturing**

Via Ing. G.B. Caproni 50  
24036 Ponte San Pietro (Bg) / Italy  
P +39 035 339 112

---

**MEISYSTEM DO BRASIL LTDA**  
**Sales & Customer Service,  
South America**

Rua Marina Ciufuli Zanfelice, n.º 329, Lapa  
CEP 05040-000  
São Paulo Brasil  
P +55 11 3834 - 0276

---

**MEISYSTEM INC.**  
**Sales & Customer Service,  
North America**

959 AEC Drive  
Wood Dale / IL 60191 / USA  
P +1 630 521 8588

---

**MEI NIPPON CO.,LTD.**  
**Sales & Customer Service,  
Japan**

5F Heinando Bldg./2-3-25  
Kudan Minami Chiyoda Ku  
Tokyo/ 102-0074/ Japan  
P +81 5213 4800

---

**MEISYSTEM ASIA LTD.**  
**Sales & Customer Service,  
Asia - Oceania**

Unit 8, 13/F Wharf Cable TV Tower  
9 Hoi Shing Rd. / Tsuen Wan / HK  
P +852 310 111 21 - 310 111 23

---

**MEI SYSTEM OPTICAL MACHINES  
INDIA PRIVATE LIMITED**  
**Sales & Customer Service,  
India**

Level 8, Tower 1, Umiya Business Bay  
Cessna Business Park,  
Kadubeesanahalli,  
Bangalore - 560103, Karnataka, India  
P +91 97416 27137

