



## MAUCOTOOLS PATENTED **DUAL SYSTEM**

The **MAUCOTOOLS DUAL SYSTEM** is a groundbreaking solution for on-site machining, designed with patented modularity. It features two lightweight modules, each weighing 17kg, allowing for easy transport and operation without heavy lifting equipment.

Both the **Rotation and Feed Modules** have independent control panels, **enabling simultaneous machining tasks like facing and welding**. This system offers unparalleled efficiency, precision, and safety, with built-in protection systems for motor and error prevention, making it ideal for professionals handling complex projects in the field.

### **KEY FEATURES & ADVANTAGES**

**Truly Portable Design:** Unlike conventional “portable” machines that are merely transportable, the MAUCOTOOLS DUAL SYSTEM divides its weight between two modules, each weighing approximately 17kg. This makes the machine **genuinely portable and manageable by a single operator** without the need for lifting tools.

**Modular construction:** The DUAL SYSTEM is composed of two separate modules:

**Rotation Module:** Responsible for the rotational motion during operations like line boring and facing.

**Feed Module:** Generates feed motion, essential for precision tasks like overlay welding.

**Simultaneous Dual Operation:** Thanks to independent control panels, the Rotation and Feed Modules can be operated concurrently, enabling simultaneous machining tasks—such as performing a facing operation on one workpiece while executing overlay welding on another.

**Anti-Vibration Robustness:** Both modules, whether used together or separately, ensure structural stability, minimizing vibrations and maintaining high precision during all machining tasks.

#### **DUAL SYSTEM Feed Module**



#### **DUAL SYSTEM Rotation Module**



#### **MAUCOTOOLS S.R.L**

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## PORTABLE LINE BORING MACHINE **LBM600 DUAL SYSTEM**

### WORKING AND OPERATING RANGES

Boring Bar	Ø	40mm - 60mm (1.57' - 2.36")
Internal line boring	Ø	42mm - 600mm (1.65' - 23.65')
Internal Automatic Bore Welding	Ø	32mm - 600mm (1.65' - 23.65')
External Automatic Bore Welding	Ø	22mm - 600mm (0.88' - 23.62')
Drilling	Ø	10mm - 45mm (0.39' - 1.77')
Tapping	Ø	10mm - 45mm (0.39' - 1.77')
Flange Facing and Seeger Circlips	Ø	Optional with FK (Facing Kit)
External Turning	Ø	Optional with FKSS (Surfacing Kit)

## ADVANTAGES

**Patented DUAL SYSTEM:** Two modules for independent task (welding and facing)

**Double motorization:** Total control of rotation and feed

**Motor protection (MMPS):** MAUCOTOOLS Motor Protection System (MMPS)

**Modular system:** Compatible with all Optional Kits to increase machining diameter up to 600mm

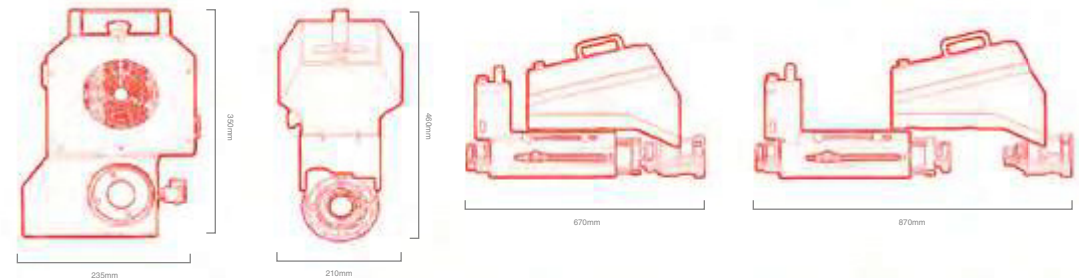
**Cost-effective:** No need to purchase a new machine, optimizing your investment

**Time and money savings:** One setups, quick centering kit with magnetic system

**Robust and precise:** Ø16mm tool holder, connecting tool holder bars (Ø20, Ø40mm and Ø60mm)

**Safety:** MAUCOTOOLS Error Detection System (MeDS) and MMPS

**Advanced features:** Synchronized rotation and feed, unlimited longitudinal stroke, fast electronic feed



### DUAL SYSTEM Feed Module

Brushless motor	YES
Phases	1
Motor type	DC
Power	125W
Speed	0-300 RPM
Feed	Electromechanical (Automatic and Manual)
MeDS	YES
MMPS	YES

### DUAL SYSTEM Rotation Module

2 types of motors	Electric with 2 speeds	Hydraulic
Speed	Speed I: 54-126 RPM Speed II: 180-423 RPM	Min. 9 RPM Max. 423 RPM
Power	1800W - 220V-230V (110V Available)	5.5kW

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STANDARD PACK

LBM600 DUAL SYSTEM



- |                                                                                                                                                                                                   |                                                                                                                                                                                                   |                                                                                                                                                                                                      |                                                                                                                                                                                   |                                                                                                                                                                                                                       |                                                                                                                                                                              |                                                                                                                                                                                       |                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>x1</b><br><br>cod. <b>RT</b><br>DUAL SYSTEM<br>Rotation Module                                                | <b>x1</b><br><br>cod. <b>AV</b><br>DUAL SYSTEM<br>Feed Module                                                    | <b>x1</b><br><br>cod. <b>CAV</b><br>Control Panel for<br>Feed Module                                                | <b>x1</b><br><br>cod. <b>CAV1</b><br>Connection cable<br>for Feed Module                         | <b>x2</b><br><br>cod. <b>C37</b><br>Power supply<br>cable                                                                          | <b>x2</b><br><br>cod. <b>B27</b><br>Boring bar ø40mm<br>(1.57') L=1000mm<br>(39.37") | <b>x1</b><br><br>cod. <b>B2760</b><br>Boring bar ø60mm<br>(2.36') L=1000mm<br>(39.37")        | <b>x2</b><br><br>cod. <b>B27G</b><br>Internal Boring bar<br>Coupling                            |
| <b>x1</b><br><br>cod. <b>ECM</b><br>Morse Taper<br>Ejecting Drift                                                | <b>x1</b><br><br>cod. <b>CM1</b><br>Morse Cone<br>Adapter for drilling                                           | <b>x1</b><br><br>cod. <b>B16</b><br>MAUCOTOOLS<br>Locking System<br>(MLS)                                           | <b>x1</b><br><br>cod. <b>A32</b><br>Bearing Carrier for<br>Feed Module                           | <b>x4</b><br><br>cod. <b>S34</b><br>Universal<br>Support                                                                           | <b>x1</b><br><br>cod. <b>C10</b><br>Special Wrench<br>for Universal<br>Support            | <b>x12</b><br><br>cod. <b>S34S-60</b><br>Bracket with Spacer<br>for Support<br>L=60mm (2.36") | <b>x12</b><br><br>cod. <b>SS100</b><br>Bracket for<br>Universal support<br>L=100mm (3.94") |
| <b>x12</b><br><br>cod. <b>SS180</b><br>Bracket for<br>Universal support<br>L=180mm (7.08")                  | <b>x12</b><br><br>cod. <b>SS250</b><br>Bracket for<br>Universal support<br>L=250mm (9.84")                  | <b>x1</b><br><br>cod. <b>S34F</b><br>Flange for Support<br>for Boring Bar<br>ø40mm (1.57")                     | <b>x1</b><br><br>cod. <b>SP600</b><br>Flange for Support<br>for Boring Bar<br>ø60mm (2.36") | <b>x1</b><br><br>cod. <b>CN600</b><br>Centering Kit from<br>ø400mm (15.74") to<br>ø600mm (23.62") | <b>x2</b><br><br>cod. <b>SM30</b><br>Magnetic<br>Fast-Centering kit                       | <b>x1</b><br><br>cod. <b>C29</b><br>Special Caliper for<br>Internal Diameter<br>Measurement        | <b>x1</b><br><br>cod. <b>C31M</b><br>Dial Gauge with<br>Magnetic Holder                         |
| <b>x1</b><br><br>cod. <b>P16L40-06</b><br>Toolholder ø16mm<br>(0.63") L=40mm<br>(1.57") | <b>x1</b><br><br>cod. <b>P16L60-06</b><br>Toolholder ø16mm<br>(0.63") L=60mm<br>(2.36") | <b>x1</b><br><br>cod. <b>P16L100-06</b><br>Toolholder ø16mm<br>(0.63") L=100mm<br>(3.94") | <b>x10</b><br><br>cod. <b>P06</b><br>Carbide Insert for<br>Toolholder                            | <b>x10</b><br><br>cod. <b>P15A</b><br>Torx Screw for<br>Toolholder                                                                 | <b>x1</b><br><br>cod. <b>PC14</b><br>Torx Wrench for<br>Toolholder                        | <b>x1</b><br><br>cod. <b>GR4</b><br>Cutting Depth<br>Adjustment Hook                               | <b>x1</b><br><br>cod. <b>PC15</b><br>Toolholder<br>Extension ø90mm<br>(3.54")              |
| <b>x1</b><br><br>cod. <b>PUC115</b><br>Toolholder<br>Extension L=115mm<br>(4.53")                           | <b>x1</b><br><br>cod. <b>PUC250</b><br>Toolholder<br>Extension L=140mm<br>(5.51")                           | <b>x1</b><br><br>cod. <b>PUL400</b><br>Toolholder<br>Extension L=320mm<br>(12.59")                             | <b>x1</b><br><br>cod. <b>P14R6C</b><br>Toolholder<br>Extension 140mm<br>(5.51")             | <b>x1</b><br><br>cod. <b>P14R6L</b><br>Toolholder<br>Extension L=210mm<br>(8.26")                                             | <b>x1</b><br><br>cod. <b>S34S60</b><br>Tool Holding<br>Fixture for LBM600                 | <b>x1</b><br><br>cod. <b>CPS600</b><br>Counterweight for<br>Line Boring                            |                                                                                                                                                                                    |
| <b>x1</b><br><br>cod. <b>T17</b><br>Telescopic Welding<br>Torch Shaft<br>L=1700mm EUR<br>Cable                  | <b>x1</b><br><br>cod. <b>R17AS</b><br>Front Articulated<br>Joint for Welding<br>Torch Shaft                     | <b>x1</b><br><br>cod. <b>R17</b><br>Torch Head for<br>Internal Welding                                             | <b>x1</b><br><br>cod. <b>R17P40</b><br>Torch Head<br>Extension<br>L=40mm (1.57")           | <b>x1</b><br><br>cod. <b>R17P60</b><br>Torch Head<br>Extension<br>L=60mm (2.36")                                             | <b>x2</b><br><br>cod. <b>R17P100</b><br>Torch Head<br>Extension<br>L=100mm (3.94")  | <b>x1</b><br><br>cod. <b>R17PS</b><br>External Torch<br>Head Extension<br>L=320mm (12.59")   | <b>x3</b><br><br>cod. <b>G08C</b><br>Short Welding Wire<br>Tip ø0,8mm (0.031")            |
| <b>x3</b><br><br>cod. <b>G08L</b><br>Long Welding Wire<br>Tip ø0,8mm (0.031")                             | <b>x3</b><br><br>cod. <b>G10C</b><br>Long Welding Wire<br>Tip ø1,0mm (0.039")                             | <b>x3</b><br><br>cod. <b>G10L</b><br>Long Welding Wire<br>Tip ø1,0mm (0.039")                                | <b>x2</b><br><br>cod. <b>G22C</b><br>Short Gas<br>Nozzle                                       | <b>x2</b><br><br>cod. <b>G22L</b><br>Long Gas<br>Nozzle                                                                          | <b>x1</b><br><br>cod. <b>C11</b><br>Complete Kit of<br>Service Keys and<br>Wrenches     | <b>x1</b><br><br>cod. <b>CI1</b><br>Red Metal Box<br>(Packing)                                   |                                                                                                                                                                                    |

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