



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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LEM 250
DUAL SYSTEM

MAUCOTOOLS

DUAL SYSTEM

MAUCOTOOLS



PORTABLE LINE BORING MACHINE **LBM250 DUAL SYSTEM**

WORKING AND OPERATING RANGES

Boring Bar	Ø	20mm - 40mm (0.78' - 1.57')
Internal line boring	Ø	22mm - 250mm (0.88' - 9.84')
Internal Automatic Bore Welding	Ø	32mm - 250mm (1.28' - 9.84')
External Automatic Bore Welding	Ø	22mm - 250mm (0.88' - 9.84')
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

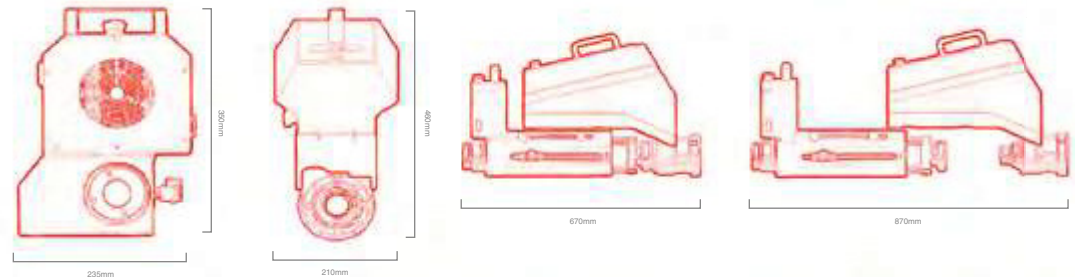
Cost-effective: No need to purchase a new machine, optimizing your investment

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

LBM250 DUAL SYSTEM



- | | | | | | | | |
|--|--|---|--|---|---|---|---|
| x1

cod. RT
DUAL SYSTEM
Rotation Module | x1

cod. AV
DUAL SYSTEM
Feed Module | x1

cod. CAV
Control Panel for
Feed Module | x1

cod. CAV1
Connection cable
for Feed Module | x2

cod. C37
Power supply
cable | x1

cod. B20M
Boring bar ø20mm
(0.79") L=1000mm
(39.79") | x1

cod. IB20
Boring bar
reduction bushing
ø40mm - ø20mm | x3

cod. KBC20
Reduction bushing
for Centering Kit |
| x1

cod. BRS
Reduction bushing
for Universal
Supports | x1

cod. P8L21-06
Toolholder ø8mm
(0.31") L=20mm
(0.79") | x1

cod. P8L35-06
Toolholder ø8mm
(0.31") L=35mm
(1.38") | x2

cod. B27
Boring bar ø40mm
(1.57") L=1000mm
(39.37") | x2

cod. B27G
Internal Boring bar
Coupling | x1

cod. ECM
Morse Taper
Ejecting Drift | x1

cod. CM1
Morse Cone
Adapter for drilling | x1

cod. B16
MAUCOTOOLS
Locking System
(MLS) |
| x1

cod. A32
Bearing Carrier for
Feed Module | x4

cod. S34
Universal
Support | x1

cod. C10
Special Wrench
for Universal
Support | x12

cod. S34S-60
Bracket with Spacer
for Support
L=60mm (2.36") | x12

cod. SS100
Bracket for
Universal support
L=100mm (3.94") | x2

cod. SM30
Magnetic
Fast-Centering kit | x1

cod. C29
Special Caliper for
Internal Diameter | x1

cod. C31M
Dial Gauge with
Magnetic Holder |
| x1

cod. P16L40-06
Toolholder ø16mm
(0.63") L=40mm
(1.57") | x1

cod. P16L60-06
Toolholder ø16mm
(0.63") L=60mm
(2.36") | x1

cod. P16L100-06
Toolholder ø16mm
(0.63") L=100mm
(3.94") | x10

cod. P06
Carbide Insert for
Toolholder | x10

cod. P15A
Torx Screw for
Toolholder | x1

cod. PC14
Torx Wrench for
Toolholder | x1

cod. GR4
Cutting Depth
Adjustment Hook | x1

cod. PC15
Toolholder
Extension ø90mm
(3.54") |
| x1

cod. PUC115
Toolholder
Extension L=115mm
(4.53") | x1

cod. PUC250
Toolholder
Extension L=140mm
(5.51") | x1

cod. T17
Telescopic Welding
Torch Shaft
L=1700mm EUR
Cable | x1

cod. R17AS
Front Articulated
Joint for Welding
Torch Shaft | x1

cod. R17
Torch Head for
Internal Welding | x1

cod. R17P40
Torch Head
Extension
L=40mm (1.57") | x1

cod. R17P60
Torch Head
Extension
L=60mm (2.36") | x1

cod. R17PS
External Torch
Head Extension
L=320mm (12.59") |
| x3

cod. G08C
Short Welding Wire
Tip ø0,8mm (0.031") | x3

cod. G08L
Long Welding Wire
Tip ø0,8mm (0.031") | x3

cod. G10C
Long Welding Wire
Tip ø1,0mm (0.039") | x3

cod. G10L
Long Welding Wire
Tip ø1,0mm (0.039") | x2

cod. G22C
Short Gas
Nozzle | x2

cod. G22L
Long Gas
Nozzle | x1

cod. C11
Complete Kit of
Service Keys and
Wrenches | x1

cod. C11
Red Metal Box
(Packing) |

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