



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

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LBM600X

DUAL SYSTEM

Achieve high precision machining with our accurate line boring services, covering a diameter range from $\varnothing 62\text{mm}$ to $\varnothing 600\text{mm}$, which can be expanded with optional kits.

Dual System Flexibility: Independent rotation and feed modules for simultaneous operations.



Strong and Portable: Each module weighs about 25kg, ensuring a lightweight design for effortless on-site installation.

An all-in-one solution that encompasses **Line Boring, bore welding, facing, drilling, and tapping** for multi-functional capabilities.



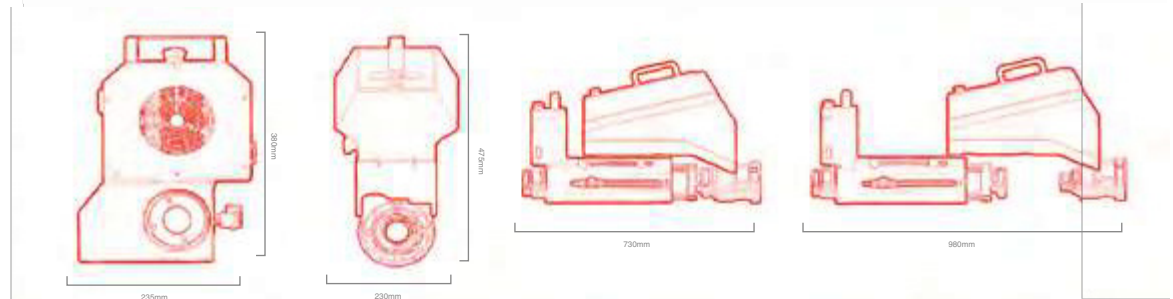
PORTABLE LINE BORING MACHINE **LBM600X DUAL SYSTEM**

WORKING AND OPERATING RANGES

Boring Bar	∅	60mm (2.36')
Internal line boring	∅	62mm - 600mm (2.44' - 23.65')
Internal Automatic Bore Welding	∅	32mm - 600mm (1.28' - 23.65')
External Automatic Bore Welding	∅	22mm - 600mm (0.88' - 23.65')
Drilling	∅	10mm - 45mm (0.39' - 1.77')
Tapping	∅	10mm - 45mm (0.39' - 1.77')
Flange Facing and Seeger Circlips	∅	Optional with FK (Facing Kit)
External Turning	∅	Optional with FKSS (Surfacing Kit)

ADVANTAGES

- Patented DUAL SYSTEM:** Two modules for independent task (welding and facing)
- Stronger motor:** The machine features a more powerful 2300W motor with 4 speeds and is also available in 110V and Hydraulic versions
- Double motorization:** Total control of rotation and feed
- Motor protection (MMPS):** MAUCOTOOLS Motor Protection System (MMPS)
- Modular system:** Compatible with all Optional Kits to reduce and increasing machining diameter starting from 22mm up to 1200mm
- Cost-effective:** No need to purchase a new machine, optimizing your investment
- Time and money savings:** One setup, many working operations
- 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 4 speeds	Hydraulic
	Speed	Speed I: 30-90 RPM Speed II: 50-140 RPM Speed III: 130-400 RPM Speed IV: 210-630 RPM
Power	2300W - 220V-230V (110V Available)	5.5kW


















































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STANDARD PACK

LBM600X DUAL SYSTEM



- | | | | | | | | |
|---|--|--|---|--|---|---|---|
|  RT60
DUAL SYSTEM
Rotation Module |  AV 60
DUAL SYSTEM
Feed Module |  CAV
Control Panel for
Feed Module |  CAV1
Connection cable
for Feed Module |  C37
Power supply
cable |  B2760X
Boring bar ø60mm
(2.36") L=1000mm
(39.37') |  B27GX
Internal Boring bar
Coupling |  ECM
Morse Taper
Ejecting Drift |
|  CM1X
Morse Cone
Adapter for drilling |  A3260
Bearing Carrier for
Feed Module |  S3460X
Universal
Support |  C10X
Special Wrench
for Universal
Support |  S34S-60
Bracket with Spacer
for Support
L=60mm (2.36") |  SS100
Bracket for
Universal support
L=100mm (3.94') |  SS180
Bracket for
Universal support
L=180mm (7.08') |  SS250
Bracket for
Universal support
L=250mm (9.84') |
|  S34F60
Flange for
Support |  MCS60
Microspand up to
ø600mm (23.62') |  CN600X
Centering Kit from
ø62mm (2.44") to
ø600mm (23.62') |  C31MX
Dial Gauge with
Magnetic Holder |  P16L60-06
Toolholder ø16mm
(0.63") L=60mm
(2.36") |  P16L100-06
Toolholder ø16mm
(0.63") L=100mm
(3.94') |  P14D
Toolholder ø16mm
(0.63") L=120mm
(4.73') |  GR4X
Cutting Depth
Adjustment Hook |
|  P06
Carbide Insert for
Toolholder |  P15A
Torx Screw for
Toolholder |  PC14
Torx Wrench for
Toolholder |  P14R6A
Toolholder
Extension L=50mm
(1.97') |  P14R6B
Toolholder
Extension L=100mm
(3.94') |  P14R6C
Toolholder
Extension 140mm
(5.51') |  P14R6L
Toolholder
Extension L=210mm
(8.26') |  S34S60X
Tool Holding
Fixture for LBM600X |
|  CPS600
Counterweight for
Line Boring | | | | | | | |
|  T17
Telescopic Welding
Torch Shaft
L=1700mm EUR
Cable |  R17AS
Front Articulated
Joint for Welding
Torch Shaft |  R17
Torch Head for
Internal Welding |  R17P40
Torch Head
Extension
L=40mm (1.57') |  R17P60
Torch Head
Extension
L=60mm (2.36') |  R17P100
Torch Head
Extension
L=100mm (3.94') |  R17PS
External Torch
Head Extension
L=320mm (12.59') |  G08C
Short Welding Wire
Tip ø0,8mm (0.031') |
|  G08L
Long Welding Wire
Tip ø0,8mm (0.031') |  G10C
Long Welding Wire
Tip ø1,0mm (0.039') |  G10L
Long Welding Wire
Tip ø1,0mm (0.039') |  G22C
Short Gas
Nozzle |  G22L
Long Gas
Nozzle |  RB60
Reduction bushings
for Welding Torch |  C11X
Complete Kit of
Service Keys and
Wrenches |  CI1X
Red Metal Box
(Packing) |