

MANUAL WIRE DUCT CUTTING MACHINE

MODEL BL 120 - p/n 520.001

OPERATING INSTRUCTIONS



SERIAL NUMBER:

YEAR OF CONSTRUCTION: 2018



MANUAL WIRE DUCT CUTTING MACHINES MODEL BL120 - p/n 520.001 OPERATING INSTRUCTIONS

1. Main Characteristics

- Dimensions: Length (assembled): 1470 mm (~58")
Width: 260 mm (~10 ")
Height (without handle): 400 mm (~16")
Height (with handle): ~960 mm (~38")
- Blade length: 125 mm (~5")
- Measurement ruler length: 700 mm (~27 ½")
- Wire duct sizes (width): 25/40/60/80/100/120mm
- Weight: without packaging 12 kg (~25 lb.)

Applicable Standards:

- UNI EN 292-1
- UNI EN 292-2

2. Description of the Machine

The patented BL-120 cutting machine provides a fast, clean, straight cut of standard slotted Wire Ducts (Wiring channels) as well as their covers made of PVC and of other similar plastic materials. It also cuts flat (max. 3.5mm ~ .15") profiles of the same materials. The machine was designed to cut without burrs or deformation of the profiles. It operates through a hardened steel blade, which moves vertically under the action of a lever. The length of the lever (~600mm ~ 24") is sufficient to operate the machine with just one hand, with most current plastic materials.

Wire ducts must be of the slotted type, with slot pitch 10mm (~3/8") or 20mm (~3/4"). These are the most common standards on the market.



WARNING: The machine must not be used to cut any other product or material. The machine must be operated by one single operator at any given time.



WARNING: Only use the machine when securely fastened to a table or a stand!

The main parts of the machine are:

- the steel body (2 halves), with the blade and its operating mechanism and the 2 blade guards
- the two supporting plates (left/right) allowing accurate positioning of the wire duct to be cut. The right plate also includes a ruler (in cm and in inches) with an adjustable end stop. With this device, the cutting operation is precise and repeatable
- the lever which allows to operate manually

NOTE: This manual is part of the BL-120 machine. Keep it for future reference!

3. Installation

The Wire Duct cutting machine BL120 must be permanently installed on a workbench. The latter must be appropriate to support the weight of the machine (approx. 12 kg ~25 lb.) as well as the effort transmitted to the base while manually operating the machine. Before determining the permanent location of the machine, consider the space needed for free motion of the operating lever (600mm = approx. 24”).

To mount on the workbench, drill 4 holes 5mm dia. (~3/16”), using the main body of the machine itself as a template. Use 4 machine screws (wood screws #9 if on a wooden bench) 5mm or 3/16”. Then mount both right and left support plates, using 6 screws of similar type. The machine must not be used without being permanently mounted on a bench.

Leave ample space (at least approx. 2000mm ~ 78”) on the left side of the machine body, to allow insertion of a whole bar of Wire Duct. Please remember that Wire ducts are generally supplied in either 2000mm (~79”) or 6’ (~1800mm) bars.

If frequent removal from the bench of the cutting machine is expected, use winged nuts instead of hex nuts.

Because the length of the screws depends on the nature of your bench, please note that screws, washers and nuts are **not** provided with the machine.

Once the machine is mounted, install the operating lever and secure it by tightening again the Allen screw.

4. Operating Instructions

The operation of the manual Wire Duct cutting machines is extremely simple and fast.

Remove the plastic blade protector and keep it by the machine, to be re-used once the machine is not operated.

Insert the wire duct preferably from the left side of the machine. This allows use of the measuring ruler situated on the right support plate.

Adjust the end stop and tighten the screw, if a repeated measure is required.

When cutting wire duct **covers**, the two positioners located on the right and left support plates, may be used to ensure a perfectly perpendicular cut. Remove the positioners when returning to cutting wire duct.



WARNING: The blade is extremely sharp. **DO NEVER INSERT A HAND UNDER THE BLADE**, even when the lever is removed, in order to avoid accidents. Hold the wire duct or the cover with one hand, at a safe distance from the blade. Replace the blade protector when the machine is not used.

5. Maintenance

The machine is sufficiently robust and does not require any special maintenance. However, in order to guarantee its good functioning, the following measures are recommended:

- After every day’s use, the cutting machine should be cleaned with a cloth, removing any dirt, especially from the blade
- Lubricate the moving parts with a drop of good quality machine oil (weekly)
- Periodically inspect the blade. Re-sharpening of the blade can be done depending on the frequency of use and the type of material cut. Always replace the blade guards after working on the blade. Be extremely careful when disassembling the blade!



PARTS LIST

N.	Code	Description	Quantity
1	BL120-1	Blade set	1
2	BL120-2	Left support plate, with positioner	1
3	BL120-3	Right support plate, with positioner	1
4	BL120-4	Blade Guard	2
5	BL120-5	Lever	1
6	BL120-6	Lever handle	1
7	BL120-7	End stop with tightening screw	1
8	BL120-8	Body half	2
9	BL120-9	Blade guard spacer	2
10	BL12010	Metric tape	1

