

TECHNICAL SHEET

25/11/2025

DG**102-P**

Double mitre saws



Electronic twin-head cutting-off machine with automatic traverse of the moving cutting head powered by brushless motor with numerical control system. Pneumatic control of the angular setting from 90° to 22°30′ (external) in two fixed positions or with optional mechanic adjustment of intermediate angles. Hydro-pneumatic blade feed.

1

elumatec

TECHNICAL SHEET

25/11/2025



Profile clamping

Reliable, precise profile clamping using two horizontal clamping cylinders. If vertical clamping is required, this is carried out with a special horizontal clamping system. A manually positionable additional clamp holds the remaining piece during cutting.



Protective hoods for sawing units

Two automatic protective hoods on the sawing unit protect the processing area. They are made of scratch-resistant polycarbonate and are opened and closed automatically according to the cutting cycles.



Loading and unloading

The double mitre saw has a roller conveyor on the movable saw unit for standard loading and unloading. As an option, an additional clamping device for clamping the remaining bar can be installed on the roller conveyor. An optional device for measuring the profile height enables the automatic correction of the cutting dimension according to the actual dimensions of the profile.



Control system

The pedestal mounted control panel is connected to the machine bed and can be positioned individually. The saw has the proven elumatec HMI with 7-inch touchscreen display. Single cuts and automatic mode with cutting lists are possible.



Intermediate tilting adjustment

The standard version allows performing cuts at 45° and 22°30' by mechanically presetting the end stops. An optional system is provided for tilting manual adjustment of cutting units to any intermediate angles by means of a manual handwheel, which is particularly useful when performing out-of-square cuts.

elumatec AG Pinacher Straße, 61 75417 Mühlacker Germany Tel +49 7041-14-184 sales@elumatec.com

The right to make technical alterations is reserved.

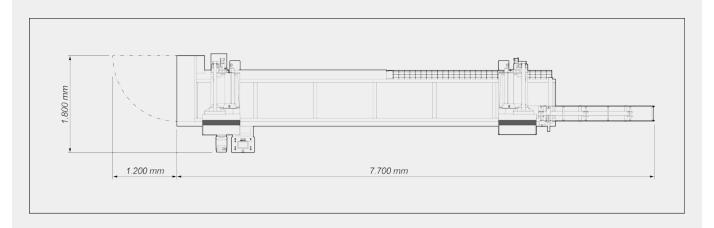






DG 102-P / DOUBLE MITRE SAWS

LAYOUT



The overall dimensions and the weight may vary depending on the product configuration

MACHINE CHARACTERISTICS

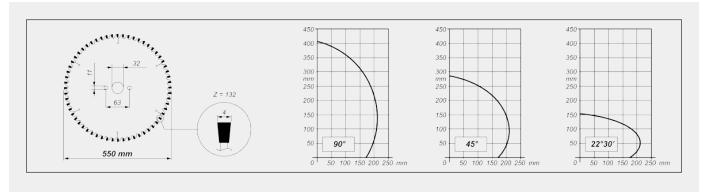
Electronic control of the X axis	1000
X axis positioning speed (m/min)	2000
Mobile head position reading with absolute magnetic strip direct measuring system	3000
Pneumatic head tilting	
External tilting	
Mechanic adjustment of intermediate angles with digital display of the position	
Hydropneumatic blade feed	
Adjustable blade feed rate	
Cutting capacity (mm)	
Carbide sawblade	(
Saw blade diameter (mm)	
Saw blade motor power (kW)	(
Electronic profile thickness gauge	(



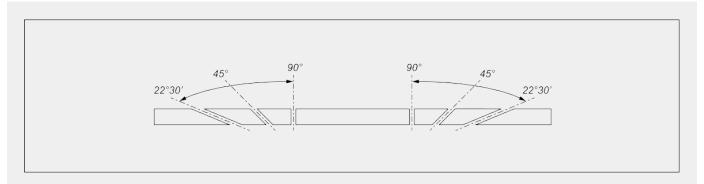
TECHNICAL SHEET

25/11/2025

CUTTING DIAGRAM



CUTTING UNIT TILTING



Mechanical adjustment of intermediate angles

SAFETY DEVICES AND PROTECTIONS

Additional vice for profile support on roller conveyor

Pneumatically-operated front local protection

Pair of horizontal pneumatic clamps with "low pressure" device

Pair of horizontal vertical vices

Pair of additional horizontal clamps

Manually positioned profile intermediate supports

Roller conveyor on mobile head (mm)

elumatec AG Pinacher Straße, 61 75417 Mühlacker Germany Tel +49 7041-14-184 sales@elumatec.com www.elumatec.com The right to make technical alterations is reserved.

0



TECHNICAL SHEET

25/11/2025

LUBRICATION AND SUCTION	
Minimal oil diffusion lubrication system	•
Preparation for automatic start-up of external exhauster	•
Swarf and short cuts extractable drawers without scraper system for swarf removal	0
Dredging system for swarf discharge	0
Swarf and short cuts extractable drawers with scraper system for swarf removal	0

CONTROL UNIT

Perform single cuts Execution of intermediate angles cuts Execution of cyclical cuts from cutting lists	•
	•
Execution of cyclical cuts from cutting lists	
	•
Extended cuts, short cuts, angle cuts functionality	•
Semi-automatic cut function (thrust cut)	•
Cutting lists import (.dgx format)	•

Included • Available O