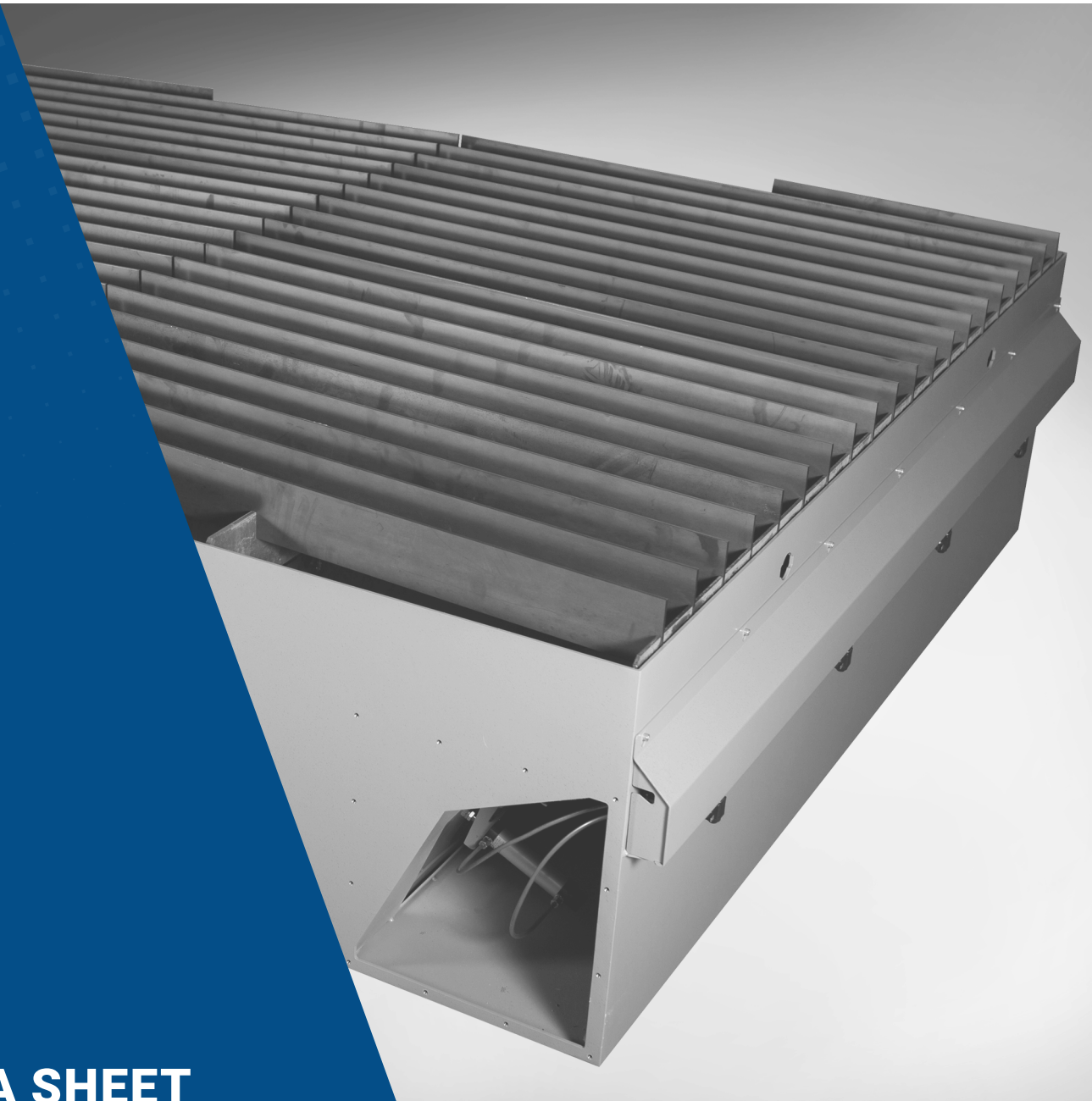


# Tigemma®

„YOUR PARTNER FOR MACHINERY AND CLEAN AIR“



## DATA SHEET

Thermal cutting tables:  
light, medium and heavy series

# Extraction tables for thermal cutting of metals

Our tables, in combination with FS and FSD filtration systems, provide optimal environmental protection and protection of staff health. The Tigemma extraction tables are designed for plasma or flame thermal cutting or a combination thereof.

The quality and well-proven design of the table, in combination with an appropriate filter system, ensures optimum exhaust of the fumes generated in thermal cutting.

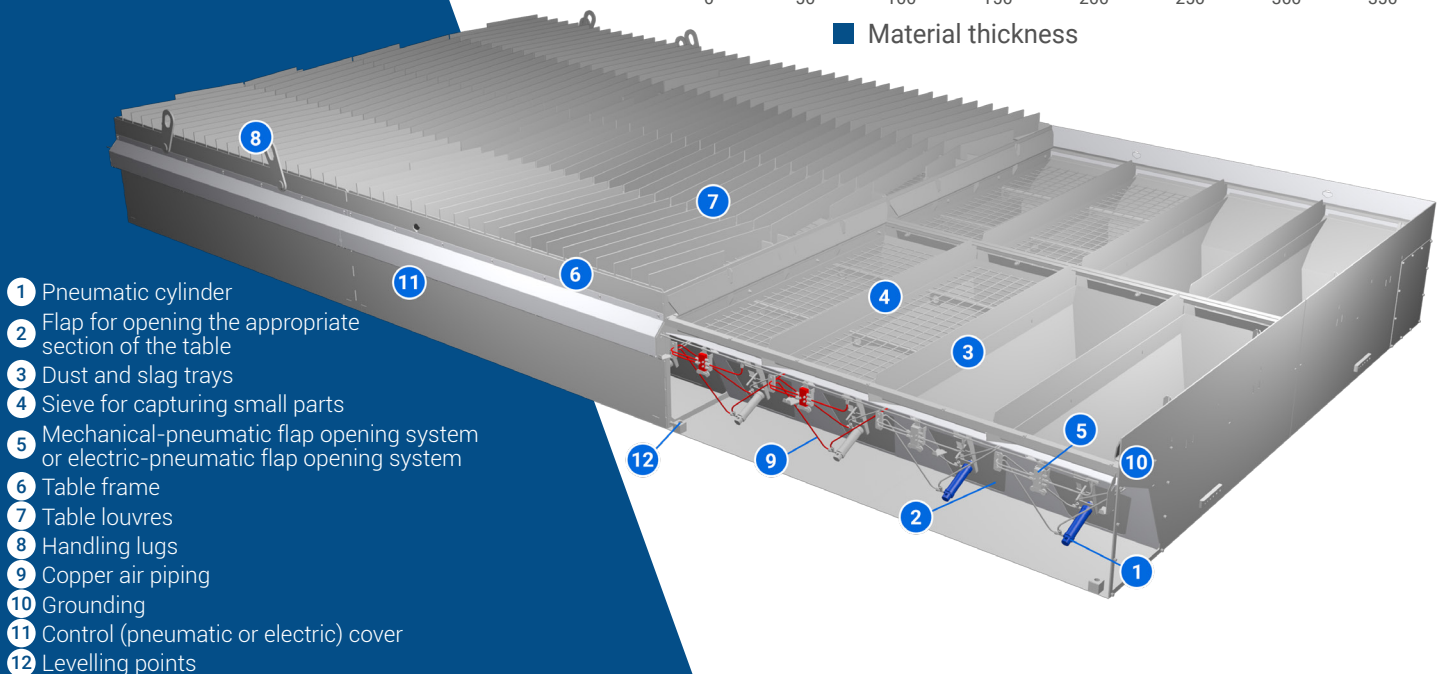
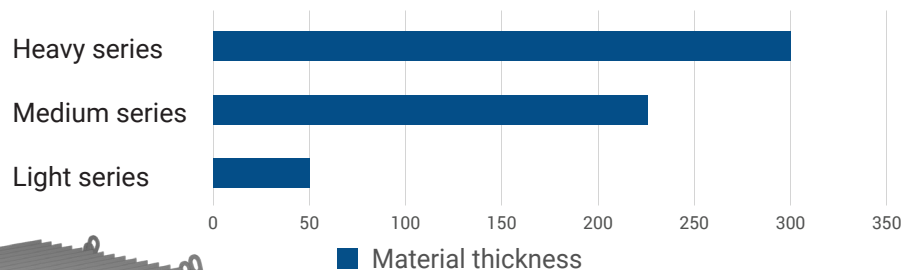
There are three series of tables available: light, medium and heavy.

## How the equipment works

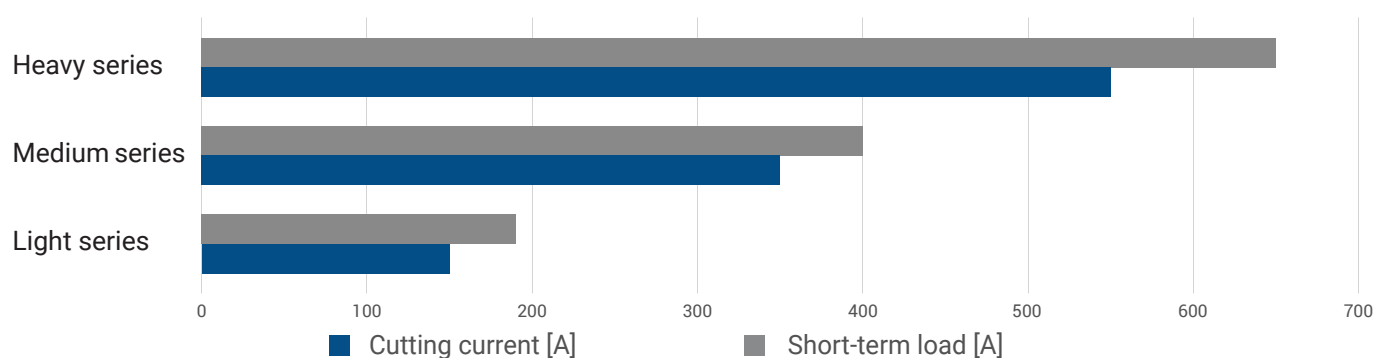
The Tigemma tables make use of surface exhaust. Dust and smoke are extracted evenly from the table surface. This leads to effective and highly reliable results in the exhaust process.

- Coarse dirt is separated and falls into the table collection trays
- Depending on the position of the plasma or flame burner, the appropriate area of the table space is exhausted (effective extraction of dust and smoke source = extraction of the relevant table area)
- The air from the table surface is exhausted through the internal structure of the table into the central exhaust duct
- Then the air is led to the filtration system

## Use of Tigemma tables - flame cutting



## Use of Tigemma tables - plasma cutting



## Overview of Tigemma extraction tables

Basic table classification according to technical parameters

	Light series	Medium series	Heavy series
Permissible table load	390 kg/m <sup>2</sup>	1800 kg/m <sup>2</sup>	2400 kg/m <sup>2</sup>
Permissible load depending on material thickness	50 mm	220 mm	300 mm
Width of extraction section	960 mm	515 mm	515 mm
Table height with standard louvres	720 mm	700 mm	738 mm
Maximum table width	2000 mm	6124 mm	6124 mm
Maximum table length	6000 mm	Unlimited	Unlimited
Self-supporting guides for the portal of the machine	On request	NO	NO
Double channel design	Not manufactured	From a width of 3124 mm	From a width of 3124 mm
Straight louvre frame design	YES	YES	YES
Toothed louvre frame design	YES	YES	YES
Mechanical table control	NO	NO	YES
Mechanical table control with pneumatic flap opening	YES, using a guide	YES, using a guide	YES, using a guide
Mechanical table control with electric-pneumatic flap opening	YES	YES	YES
Table cleaning	Manual	Manual	Manual
Possible front table connection	YES	YES	YES
Possible table connection under the table	On request	YES	YES

## Light table series

Maximum extraction efficiency for small material thicknesses. Table load capacity up to 390 kg/m<sup>2</sup>.

These tables are characterized by low weight and acquisition costs. They are especially designed for cutting thin materials up to a thickness of 50 mm. Their simple design and high quality guarantee a long service life.

The flaps are controlled by a pneumatic system in the form of either mechanical-pneumatic or electric-pneumatic opening of flaps.

The tables are available in three versions that differ in the type of table louvres.

The tables are made with working widths from 1000 to 2000 mm and lengths from 2000 to 6000 mm.

Advantages:

- Small extraction volume
- Large dirt trays
- Compact design

An optional custom solution, including the parking position of the cutting machine and providing the table with guides for the cutting portal of the machine.

All compressed air piping is made of copper.

Simple and effective table cleaning.

Simple and effective table assembly.

## Medium table series

For demanding plasma and flame cutting. Table load capacity up to 1800 kg/m<sup>2</sup>. The most used table type. The table is designed as a self-supporting modular system. By assembling individual modules with the given dimensions, you can achieve the required length and width of the table. The tables are manufactured with a working width of 1 to 6 m (width increments of 0.5 m) and a length from 2 m (length increments of 0.515 m).

Tables with a width up to 3 m with single-channel extraction, over 3 m with double-channel extraction.

The flaps are controlled by a pneumatic system in the form of either mechanical-pneumatic or electric-pneumatic opening of flaps.

Advantages:

- Small extraction volume
- High extraction efficiency; only the source of dust and smoke generation is extracted = modular and sectional table design
- All compressed air piping is made of copper
- Large dirt trays
- Simple and effective table cleaning
- Possible front connection or connection under the table (in a prepared duct)
- Wide range of uses: plasma and flame cutting
- Long table life
- Simple installation

## Heavy table series

For the most demanding plasma and flame cutting. Table load capacity up to 2400 kg/m<sup>2</sup>.

The table is designed for extremely heavy loads, i.e. a high cutting current and high material thickness.

As with the medium series table, the heavy table is designed as a self-supporting modular system. By assembling individual modules with the given dimensions, you can achieve the required length and width of the table.

The tables are manufactured with a working width of 1 to 6 m (width increments of 0.5 m) and a length from 2 m (length increments of 0.515 m). Tables with a width up to 3 m with single-channel extraction, over 3 m with double-channel extraction.

The table opening flaps can be controlled by a pneumatic system, an electric-pneumatic system or mechanically only.

The tables are normally equipped with special louvre clamps (preventing the louvres from being pulled out when the solenoid is being handled). The pneumatic system for table flap control is provided with increased thermal resistance (a thermal resistance of 120 °C).

All the other components are designed for heightened system temperatures.

Advantages:

- Small extraction volume
- High extraction efficiency; only the source of dust and smoke generation is extracted = modular and sectional table design
- Resistant to high heat and weight loading
- All compressed air piping is made of copper
- Reinforced cutting frame and louvre design
- Protection of louvres against being pulled out as a standard function of the table
- Large dirt trays
- Simple and effective table cleaning; the table trays are equipped with handling lugs for crane equipment
- Possible front connection or connection under the table (in a prepared duct)
- Simple installation
- Wide range of uses: plasma and flame cutting
- Long table life



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