

# Extraction benches

Polijet DF | Poliweld DF | PoliEx | BS|BS/S | BS plasma

Workbenches  
for mechanical industry



## Polijet DF

Polijet DF 1500-2000-2500

## Poliweld DF

Poliweld DF 1500-2000-2500

## Poliex

Poliex 1500-2000-2500

## BS | BS/S

BS | BS/S 1000-1500-2000-2500

## BS Plasma

BS Plasma 1000-1500-2000



Innovative Air Solutions  
For a cleaner future.

# Design

The benches are made of a series of panels bolted together and suitably sized to give strength to the structure, which can support loads of up to 250 Kg/m<sup>2</sup> evenly distributed over the work surface. Standard versions are supplied in galvanized metal panels or are painted on request. The suction work surface is removable to allow possible inspections in the unit. Side walls are available on request to avoid spreading of material.

## Extraction benches

20

Models

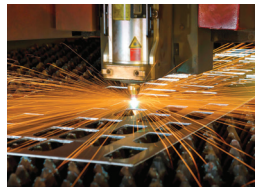
# Applications



Welding fumes



Powders



Thermal cut

# Solution for clean air

A range of suction benches suitable in every manufacturing sector. They have the right application for every use: from low concentrations of smoke and fine dust to substances with fire and explosion properties.

The accurate design of our benches suction slots allows the complete capture of harmful fumes at source, before they can reach the operator's respiratory ways and damage them.

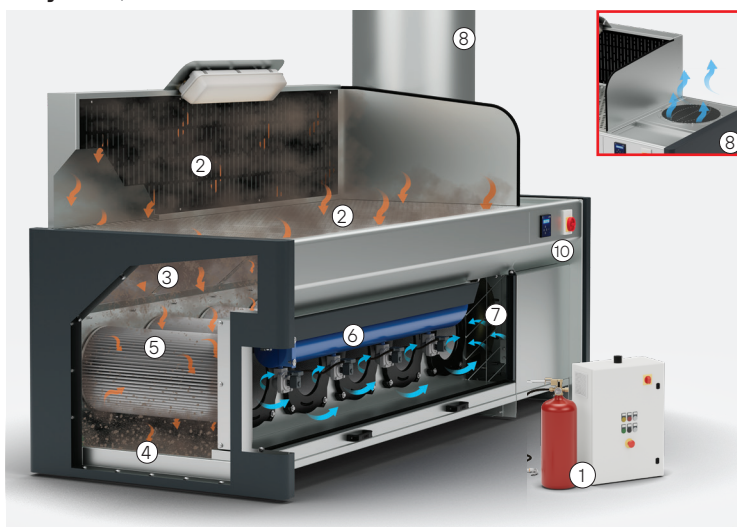
## Application example with PoliEx



# Principle of operation

The air extracted through the work bench and front wall is conveyed to the chutes, then passes through the metal mesh filters where any incandescent sparks are extinguished and/or retained. The dusty air passes through the cartridge filters, which retain the dust, and (only for the **Polijet DF** version) the filters cleaning is carried out with a compressed air pulse jet and the consequent dust separation. The heaviest material falls into the dust collection tray. Clean air exits through the grille on top of the machine. The automatic fire extinguishing system with fire extinguisher and electrical panel is recommended in case of machining operations that produce sparks.

## Polijet DF | Poliweld DF



- ① Fire extinguishing system (recommended option)
  - ② Dusty air inlet
  - ③ Metallic mesh filter
  - ④ Collection drawer
  - ⑤ Filter cartridges
  - ⑤a High-speed suction tunnel
  - ⑥ Compressed air tank (PoliJet DF)
  - ⑦ Fan
  - ⑧ Filtered air outlet
  - ⑨ Dusty air outlet
  - ⑩ Economiser
- Run/stop switch

The extracted air flows through the working table and front wall and it is conveyed downwards. The heaviest material falls into the dust collection tray. Dusty air passes through the fan and exits through the grille at the rear of the machine (**BS**). Filtration system to be provided. Dusty air exits through the opening located on the side of the machine (**BS/S**). It is necessary to provide an extraction and filtration system.

The extracted air flows through the working surface and it is conveyed downwards where the dusty air passes through the tunnel at high suction speed in order to avoid potentially flammable deposits, and it exits through the opening on the side of the unit. It is necessary to provide an extraction and filtration system

## BS | BS/S



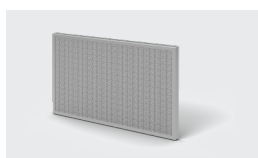
## Poliex | BS Plasma



# Polijet DF



- Extremely easy maintenance.
- 99.9% filtration efficiency.
- Suitable for particles from 0.2÷2 microns.
- 'Plug & Play' solution**, no installation required.
- 'Down Flow Concept'.**



Metal anti-spark filter



Economiser

Automatic compressed air  
cleaning system

Switch ON/OFF



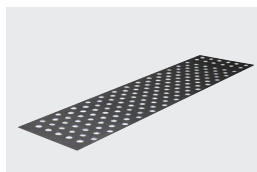
Pentapolar socket

## Optional

1500 | 2000 | 2500

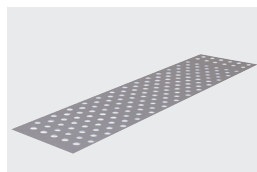
Automatic fire extinguishing  
system with fire extinguisher  
and control panel,  
Recommended for work  
generating sparks

1500 | 2000 | 2500



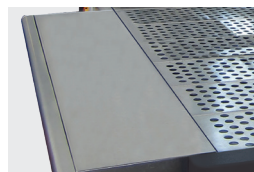
Bench top felt

1500 | 2000 | 2500



Bench top polypropylene

1500 | 2000 | 2500

Non-extracting extension for  
bench top Width 360mm

1500 | 2000 | 2500



Light kit for suction wall

1500 | 2000 | 2500



Non-suction fixed side walls

1500 | 2000 | 2500



Afon silencer + Diffuser Kit

1500 | 2000 | 2500

Non-suction fairing for bench  
top

1500 | 2000 | 2500



Absolute filter kit

# Technical features

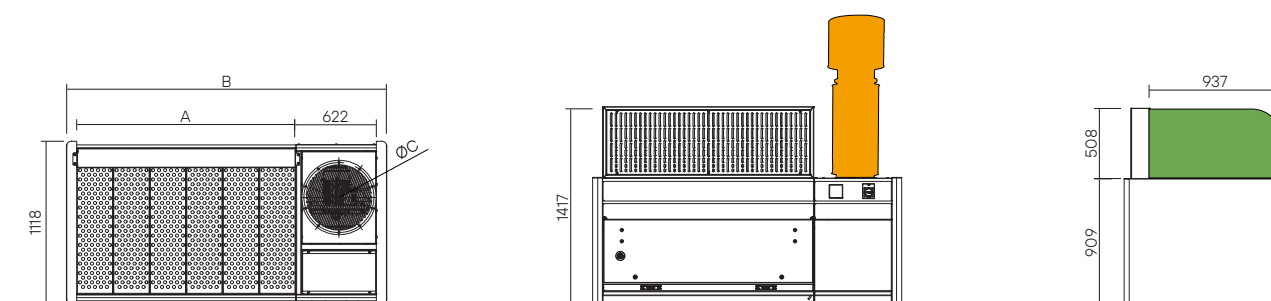
| Technical features        |                     | Model Polijet DF                        |                    |                    |
|---------------------------|---------------------|-----------------------------------------|--------------------|--------------------|
|                           |                     | DF 1500                                 | DF 2000            | DF 2500            |
| Power                     | kW                  | 2,2                                     | 3                  | 4                  |
| Maximum flow rate         | m <sup>3</sup> /h   | 3800                                    | 4800               | 5800               |
| Number of cartridges      | Ø325 mm<br>H 660 mm | 3                                       | 5                  | 6                  |
| Filtrating area           | m <sup>2</sup>      | 33                                      | 55                 | 66                 |
| IFA/BGIA certification    |                     | TEFLON                                  |                    |                    |
| Cleaning system           |                     | Automatically controlled pneumatic item |                    |                    |
| RPM                       |                     | 2900                                    | 2900               | 2900               |
| Voltage                   | V                   | 230/400                                 | 230/400            | 230/400            |
|                           | Hz                  | 50                                      | 50                 | 50                 |
| Weight                    | Kg                  | 400                                     | 490                | 580                |
| Filter dimensions         | mm                  | 2193 x 1118 x 1411                      | 2693 x 1118 x 1411 | 3193 x 1118 x 1411 |
|                           |                     | Maximum available load                  |                    |                    |
| Distributed load          | Kg/m <sup>2</sup>   | 250                                     | 250                | 250                |
| Available placing surface | m <sup>2</sup>      | 1,3                                     | 1,7                | 2,1                |

## Filter Media

| MEDIA                    | MATERIALS                                                            | m <sup>2</sup> | g/m <sup>2</sup> | STANDARD | OPTIONAL |
|--------------------------|----------------------------------------------------------------------|----------------|------------------|----------|----------|
| M PES/TF                 | TEFLON-COATED POLYESTER                                              | 11,5           | 270              | ■        |          |
| M-PES/AX/EXAM ACCREDITED | POLYESTER /ALUMINISED/ ANTISTATIC                                    | 11,5           | 270              |          | ■        |
| M-PES+PTFE/MEMBRANE      | POLYESTER - TEFLON MEMBRANE                                          | 11,5           | 290              |          | ■        |
| M PES+ PTFE/MEMBRANE-H   | POLYESTER/ TEFLON MEMBRANE/ FABRIC<br>WITH H13 FILTRATION EFFICIENCY | 11,5           | 270              |          | ■        |
| M PES/ FR                | POLYESTER/ FLAME RETARDANT                                           | 11,5           | 270              |          | ■        |



## Overall dimensions



■ Afon silencer and diffuser kit (Optional)

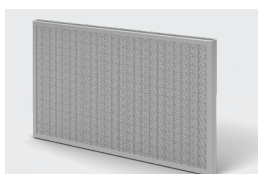
■ Non-suction fixed side walls (Optional)

| MODEL           | DIMENSIONS (mm) |      |     |
|-----------------|-----------------|------|-----|
|                 | A               | B    | ØC  |
| Polijet DF 1500 | 1500            | 2195 | 450 |
| Polijet DF 2000 | 2000            | 2695 | 450 |
| Polijet DF 2500 | 2500            | 3195 | 450 |

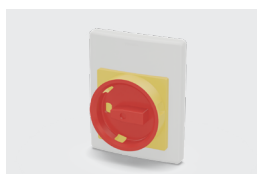
# Poliweld DF



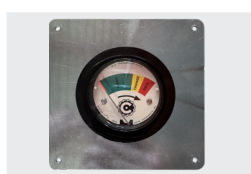
- Maximum filtration efficiency of welding fumes.
- Extremely **easy maintenance**.
- Plug & Play solution**, no installation required.
- 'Down Flow Concept'.



Metal anti-spark filter



ON/OFF switch



Manometer



Pentapolar socket

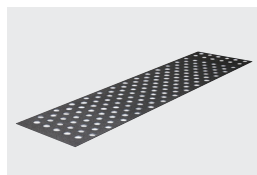
## Optional

1500 | 2000 | 2500



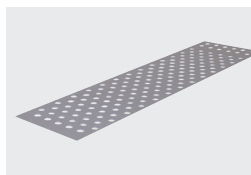
Automatic fire extinguishing system with fire extinguisher and control panel. Recommended for work generating sparks

1500 | 2000 | 2500



bench top felt

1500 | 2000 | 2500



Bench top polypropylene

1500 | 2000 | 2500



Non-suction extension for bench plate width 360 mm

1500 | 2000 | 2500



Light kit for suction wall

1500 | 2000 | 2500



Non-suction fixed side walls

1500 | 2000 | 2500



Afon silencer + Diffuser Kit

1500 | 2000 | 2500



Absolute filter kit

# Technical features

| Technical features        |                    | Model Poliweld DF      |                    |                    |
|---------------------------|--------------------|------------------------|--------------------|--------------------|
|                           |                    | DF 1500                | DF 2000            | DF 2500            |
| Power                     | kW                 | 2,2                    | 3                  | 4                  |
| Maximum flow rate         | m <sup>3</sup> /h  | 4000                   | 5000               | 6000               |
| Number of cartridges      | Ø325mm<br>H 660 mm | 3                      | 5                  | 6                  |
| Filtering area            | m <sup>2</sup>     | 54                     | 90                 | 108                |
| IFA/BGIA certification    |                    | CELLULOSE              |                    |                    |
| RPM                       |                    | 2900                   | 2900               | 2900               |
| Voltage                   | V                  | 230/400                | 230/400            | 230/400            |
|                           | Hz                 | 50                     | 50                 | 50                 |
| Weight                    | Kg                 | 380                    | 465                | 535                |
| Filter dimensions         | mm                 | 2193 x 1118 x 1411     | 2693 x 1118 x 1411 | 3193 x 1118 x 1411 |
|                           |                    | Maximum available load |                    |                    |
| Load distribution         | Kg/m <sup>2</sup>  | 250                    | 250                | 250                |
| Available placing surface | m <sup>2</sup>     | 1,3                    | 1,7                | 2,1                |

## Filter Media

| MEDIA                  | MATERIALS                                                            | m <sup>2</sup> | g/m <sup>2</sup> | STANDARD | OPTIONAL |
|------------------------|----------------------------------------------------------------------|----------------|------------------|----------|----------|
| M CEL                  | CELLULOSE                                                            | 20             | 213              | ■        |          |
| M PES+ PTFE/MEMBRANE-H | POLYESTER/ TEFLON MEMBRANE/ FABRIC<br>WITH H13 FILTRATION EFFICIENCY | 11,5           | 270              |          | ■        |

STANDARD  
1500 | 2000 | 2500



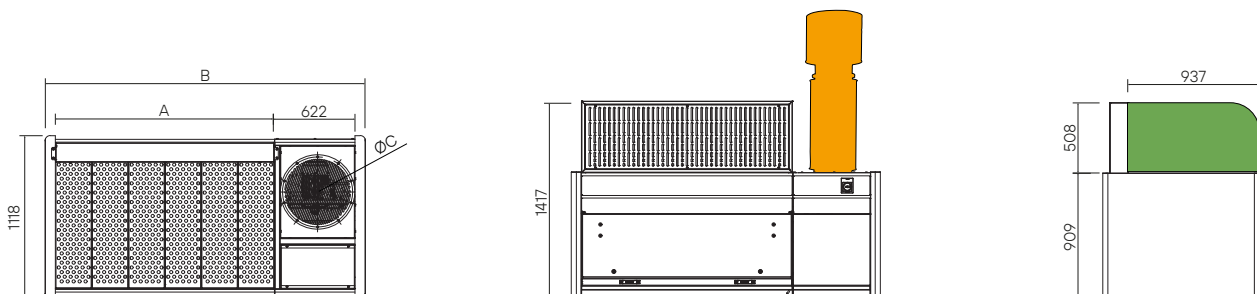
M CEL

OPTIONAL  
1500 | 2000 | 2500



M PES+ PTFE/MEMBRANE-H

## Overall dimensions



■ Afon silencer and diffuser kit (Optional)

■ Non-suction fixed side walls (Optional)

| MODEL            | DIMENSIONS (mm) |      |     |
|------------------|-----------------|------|-----|
|                  | A               | B    | C   |
| Poliweld DF 1500 | 1500            | 2195 | 450 |
| Poliweld DF 2000 | 2000            | 2695 | 450 |
| Poliweld DF 2500 | 2500            | 3195 | 450 |

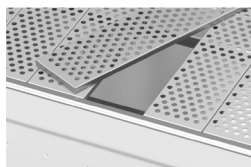
# PoliEx



- The PoliEx suction table finds its perfect application in suction and filtration systems located in potentially **explosive environments (ATEX)**.
- **Covered hopper** with double curve with **progressive extraction**.
- Opening for **cleaning** and **maintenance** control.
- Special '**No Residual Powder**' extraction outlet.
- **Direct extraction** to the source, diffused and constant over the entire working surface.
- **Independent structure** that can be easily positioned or conveniently connected to an extraction system.
- **Immediate** and effective **protection** of the operator: pollutants are sucked in before they can spread out.
- **Down Flow Concept**.



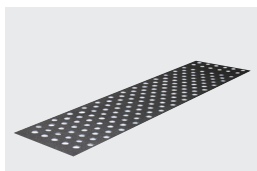
Inspection hole



Galvanised steel extraction plate

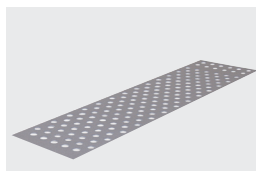
## Optional

1500 | 2000 | 2500



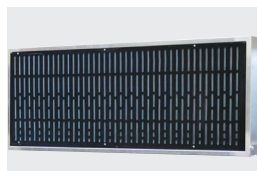
Bench top felt

1500 | 2000 | 2500



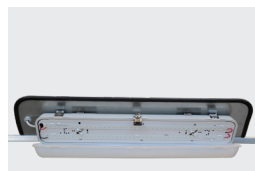
Bench top polypropylene

1500 | 2000 | 2500



Front extracting wall

1500 | 2000 | 2500



Light kit for extracting wall

1500 | 2000 | 2500

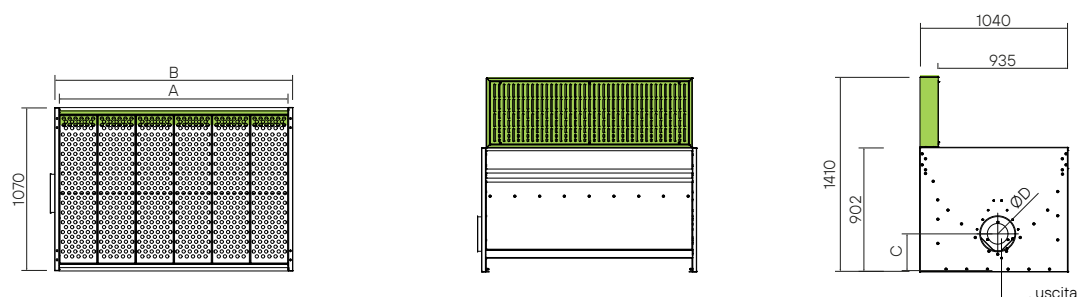


Fixed non-suction side walls

# Technical features

| Technical features                        |                   | Model PoliEx           |      |      |
|-------------------------------------------|-------------------|------------------------|------|------|
|                                           |                   | 1500                   | 2000 | 2500 |
| Maximum flow rate                         | m <sup>3</sup> /h | 4300                   | 5300 | 6300 |
| Pressure drop                             | Pa                | 250                    | 300  | 350  |
| Weight                                    | kg                | 165                    | 210  | 255  |
|                                           |                   | Maximum available load |      |      |
| Load distribution                         | Kg/m <sup>2</sup> | 250                    | 250  | 250  |
| Available placing surface                 | m <sup>2</sup>    | 1,6                    | 2,1  | 2,6  |
| Available placing surface with front wall | m <sup>2</sup>    | 1,3                    | 1,7  | 2,1  |

# Overall dimensions



■ Front suction wall (Optional)

| MODEL              | DIMENSIONS (mm) |      |     |     |
|--------------------|-----------------|------|-----|-----|
|                    | A               | B    | C   | ØD  |
| Poliex <b>1500</b> | 1500            | 1562 | 276 | 250 |
| Poliex <b>2000</b> | 2000            | 2062 | 300 | 300 |
| Poliex <b>2500</b> | 2500            | 2562 | 326 | 350 |

# BS | BS/S



Galvanised steel extraction plate.

Large dust collection tray.

High-efficiency internal fan.

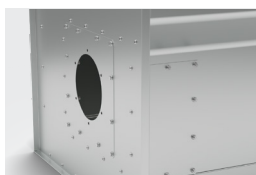
Plug & Play solution, no installation required.

BS



Air outlet

BS/S



Air inlet

BS



ON/OFF switch

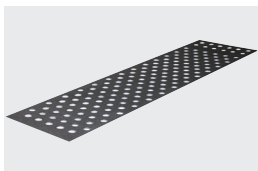
BS|BS/S



Front extracting wall

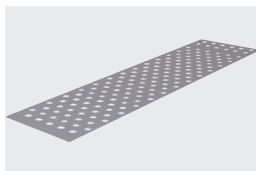
## Optional

1500 | 2000 | 2500



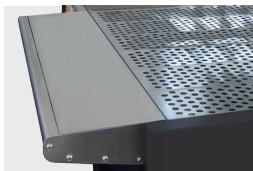
Bench top felt

1500 | 2000 | 2500

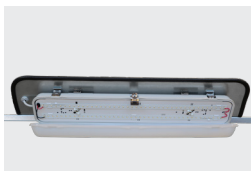


Bench top polypropylene

1500 | 2000 | 2500

Non-suction extension for  
bench top L=360mm

1500 | 2000 | 2500



Light kit for extracting wall

1500 | 2000 | 2500



non-suction fixed walls

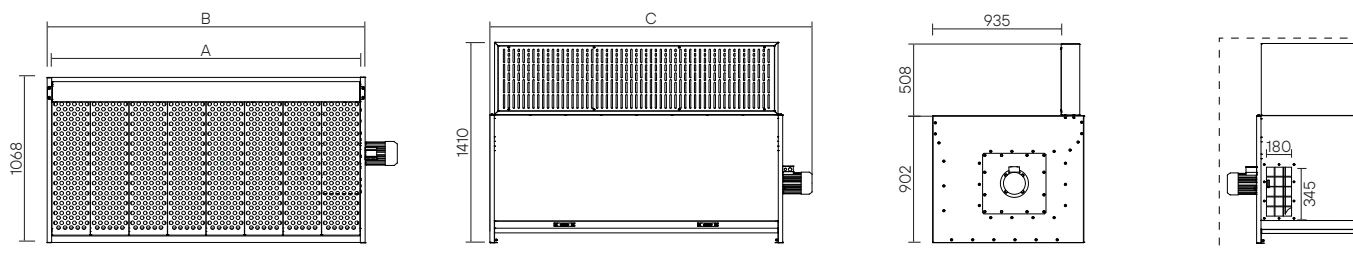
# Technical features

| Technical features        |                    | Model BS      |               |               |               |
|---------------------------|--------------------|---------------|---------------|---------------|---------------|
|                           |                    | 1000          | 1500          | 2000          | 2500          |
| Power                     | kW                 | 0,55          | 0,75          | 0,75          | 1,1           |
| Maximum flow rate         | m <sup>3</sup> /h  | 2500          | 3000          | 3500          | 4500          |
| RPM                       |                    | 1380          | 1410          | 1410          | 1420          |
| Sound level               | dB                 | 76            | 77            | 79            | 81            |
| Weight                    | kg                 | 152           | 189           | 220           | 256           |
| Voltage                   | V<br>Hz            | 230/400<br>50 | 230/400<br>50 | 230/400<br>50 | 230/400<br>50 |
| Maximum available load    |                    |               |               |               |               |
| Load distribution         | kg/ m <sup>2</sup> | 250           | 250           | 250           | 250           |
| Available placing surface | m <sup>2</sup>     | 0,9           | 1,3           | 1,7           | 2,1           |

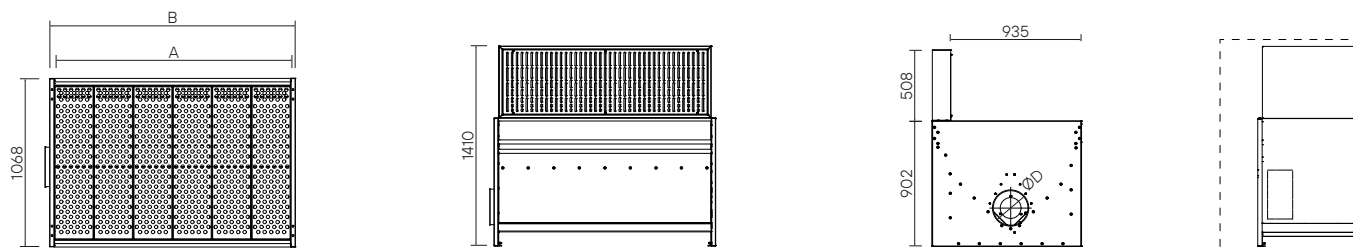
| Technical features        |                    | Model BS/S |      |      |      |
|---------------------------|--------------------|------------|------|------|------|
|                           |                    | 1000       | 1500 | 2000 | 2500 |
| Maximum flow rate         | m <sup>3</sup> /h  | 2500       | 3000 | 3500 | 4500 |
| Weight                    | kg                 | 126        | 170  | 200  | 242  |
| Maximum available load    |                    |            |      |      |      |
| Load distribution         | kg/ m <sup>2</sup> | 250        | 250  | 250  | 250  |
| Available placing surface | m <sup>2</sup>     | 0,9        | 1,3  | 1,7  | 2,1  |

# Overall dimensions

## BS



## BS/S



| MODEL          | DIMENSIONS (mm) |      |      |     |
|----------------|-----------------|------|------|-----|
|                | A               | B    | C    | ØD  |
| BS   BS/S 1000 | 1000            | 1060 | 1268 | 200 |
| BS   BS/S 1500 | 1500            | 1560 | 1768 | 250 |
| BS   BS/S 2000 | 2000            | 2060 | 2268 | 300 |
| BS   BS/S 2500 | 2500            | 2560 | 2853 | 350 |

# BS plasma

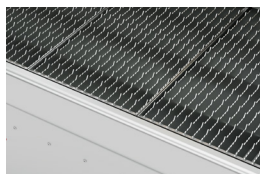


Steel extracting bench

Large drawer for **collecting** plasma cutting **dust**.

**Available with front extracting wall** for greater extraction efficiency.

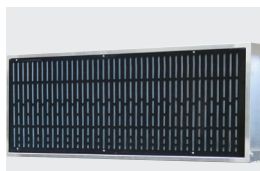
On request, fixed side walls and light kit for a better visibility.



Steel extraction plate

## Optional

1500 | 2000 | 2500



Front extraction wall

1500 | 2000 | 2500



Light kit for extracting wall

1500 | 2000 | 2500

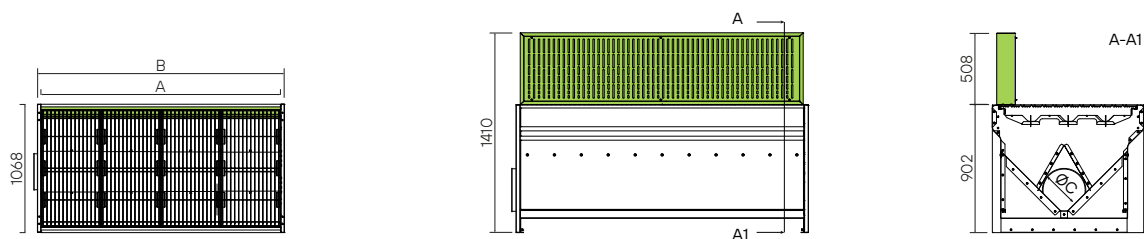


non-suction fixed walls

# Technical features

| Technical features |                    | Model BS plasma        |      |      |
|--------------------|--------------------|------------------------|------|------|
|                    |                    | 1000                   | 1500 | 2000 |
| Maximum flow rate  | m <sup>3</sup> /h  | 2500                   | 3000 | 3500 |
| Weight             | kg                 | 185                    | 253  | 340  |
|                    |                    | Maximum available load |      |      |
| Load distribution  | kg/ m <sup>2</sup> | 250                    | 250  | 250  |

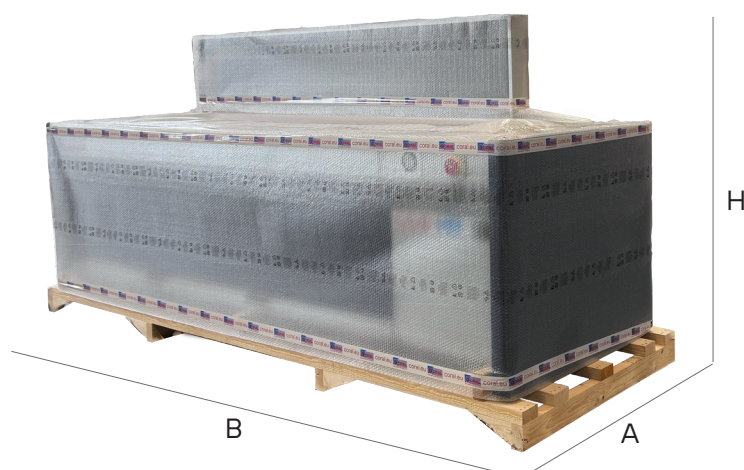
# Overall dimensions



■ Front suction wall (Optional)

| MODEL                 | DIMENSIONS (mm) |      |     |
|-----------------------|-----------------|------|-----|
|                       | A               | B    | ØC  |
| BS plasma <b>1000</b> | 1000            | 1060 | 200 |
| BS plasma <b>1500</b> | 1500            | 1560 | 250 |
| BS plasma <b>2000</b> | 2000            | 2060 | 300 |

# Shipment packaging



| MODEL           | DIMENSIONS (mm)<br>AxBxH | WEIGHT (kg) |
|-----------------|--------------------------|-------------|
| PoliJet DF 1500 | 1178 x 2255 x 1508       | 425         |
| PoliJet DF 2000 | 1178 x 2755 x 1508       | 520         |
| PoliJet DF 2500 | 1178 x 3255 x 1508       | 635         |

| MODEL            | DIMENSIONS (mm)<br>AxBxH | WEIGHT (kg) |
|------------------|--------------------------|-------------|
| Poliweld DF 1500 | 1178 x 2255 x 1508       | 405         |
| Poliweld DF 2000 | 1178 x 2755 x 1508       | 505         |
| Poliweld DF 2500 | 1178 x 3255 x 1508       | 590         |

| MODEL       | DIMENSIONS (mm)<br>AxBxH | WEIGHT (kg) |
|-------------|--------------------------|-------------|
| Poliex 1500 | 1168 x 2255 x 1037       | 180         |
| Poliex 2000 | 1168 x 2755 x 1037       | 230         |
| Poliex 2500 | 1168 x 3255 x 1037       | 280         |

| MODEL          | BS DIMENSIONS (mm)<br>AxBxH | BS/S DIMENSIONS (mm)<br>AxBxH | WEIGHT (kg)<br>BS | WEIGHT (kg)<br>BS/S |
|----------------|-----------------------------|-------------------------------|-------------------|---------------------|
| BS   BS/S 1000 | 1168 x 1368 x 1545          | 1168 x 1160 x 1545            | 162               | 136                 |
| BS   BS/S 1500 | 1168 x 1868 x 1545          | 1168 x 1660 x 1545            | 204               | 185                 |
| BS   BS/S 2000 | 1168 x 2368 x 1545          | 1168 x 2160 x 1545            | 240               | 220                 |
| BS   BS/S 2500 | 1168 x 2953 x 1545          | 1168 x 2660 x 1545            | 281               | 267                 |

| MODEL          | DIMENSIONS (mm)<br>AxBxH | WEIGHT (kg) |
|----------------|--------------------------|-------------|
| BS plasma 1000 | 1168 x 2255 x 1037       | 180         |
| BS plasma 1500 | 1168 x 2755 x 1037       | 230         |
| BS plasma 2000 | 1168 x 3255 x 1037       | 280         |

All images and values on this catalogue are indicative and can be subject to modification and improvements. CORAL reserves the right to change them without previous advice.

# Gallery





# Made in Coral

Coral manufactures 100% of all the components that are part of an industrial extraction system within their facilities in Volpiano, just outside of Turin. The quality of materials that we use and our industry experience guarantee a production of high level in everything we make.

## ITALIA

|         |                      |
|---------|----------------------|
| MILANO  | p: +39 02 95.30.1003 |
| TORINO  | p: +39 011 99.80.141 |
| VICENZA | p: +39 0444 34.93.98 |
| BOLOGNA | p: +39 051 69.26.335 |

## FRANCE

|          |                     |
|----------|---------------------|
| LYON     | p: +33 4 74 944 562 |
| PARIS    | p: +33 1 60 868 069 |
| POITIERS | p: +33 5 49 379 596 |

## GERMANY

|            |                       |
|------------|-----------------------|
| LEVERKUSEN | p: +49.214.312.663.20 |
|------------|-----------------------|

## UNITED KINGDOM

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|------------------------|--------------------|
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## MIDDLE EAST

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| KYLE, TX | p: +1 480 796 5352 |
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