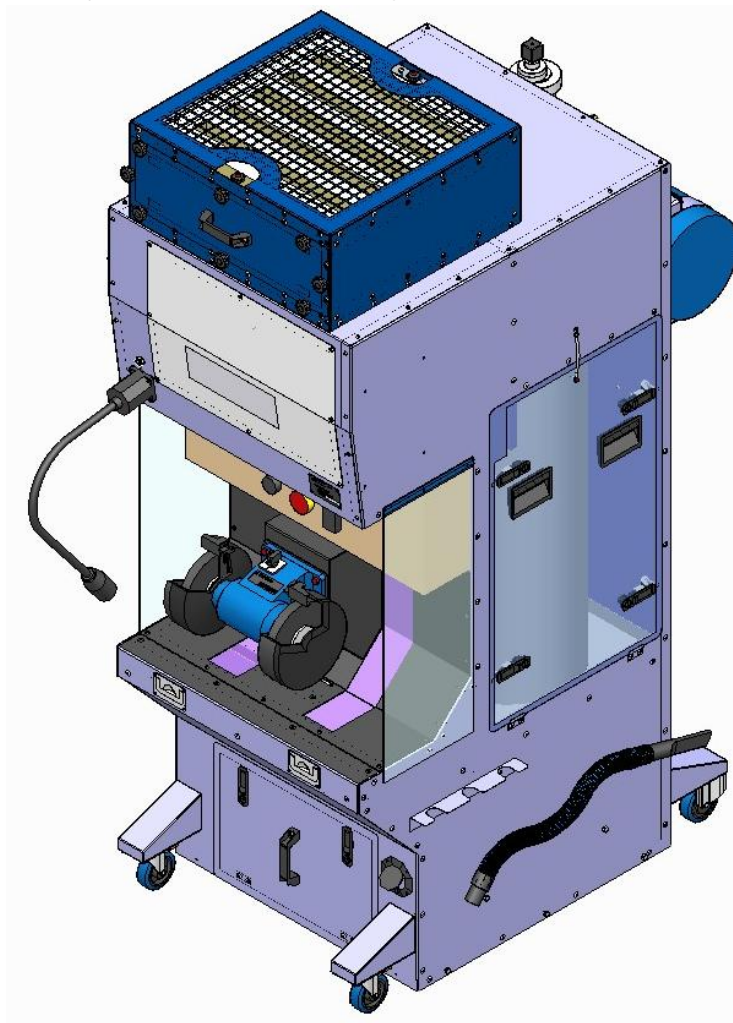


Polishing and grinding Benches

BPM Type

Efficacy – Individual protection – Quality - Profitability

STIVENT offers a wide range of independent downdraft tables to improve working conditions featured with control panel and electronic surveillance devices. It even allows you to directly plug in your portative tools (sanders, disc cutters ...)



STIVENT[®]
INDUSTRIE

Working condition improvement

The Polishing and grinding Bench is specially designed to improve operator's labor conditions linked to any work generating dust from the use of bench grinders.

A Ø40 mm high pressure capture plug is available in option for your portative devices.

Ergonomic design allowing the worker to operate standing or sitting.

ATEX Zone 21 interior certified.

Low noise level => below 70 dB (measured at work table).

Standard equipment:

- SCHNEIDER Control panel and variable speed drive,
- Metallic work surface,
- Removable side panels,
- Built in control panel,
- Dry air pneumatic connection,
- Height adjustable feet,
- Painted grey (RAL7035) and blue (RAL5017).

Low maintenance cost : electronic management

The polishing and grinding Bench is managed through a Schneider Electric computer driving the entire cleaning proces along with the failure surveillance : operating safety, air pressure, filter saturation and a periodic maintenance hour meter.

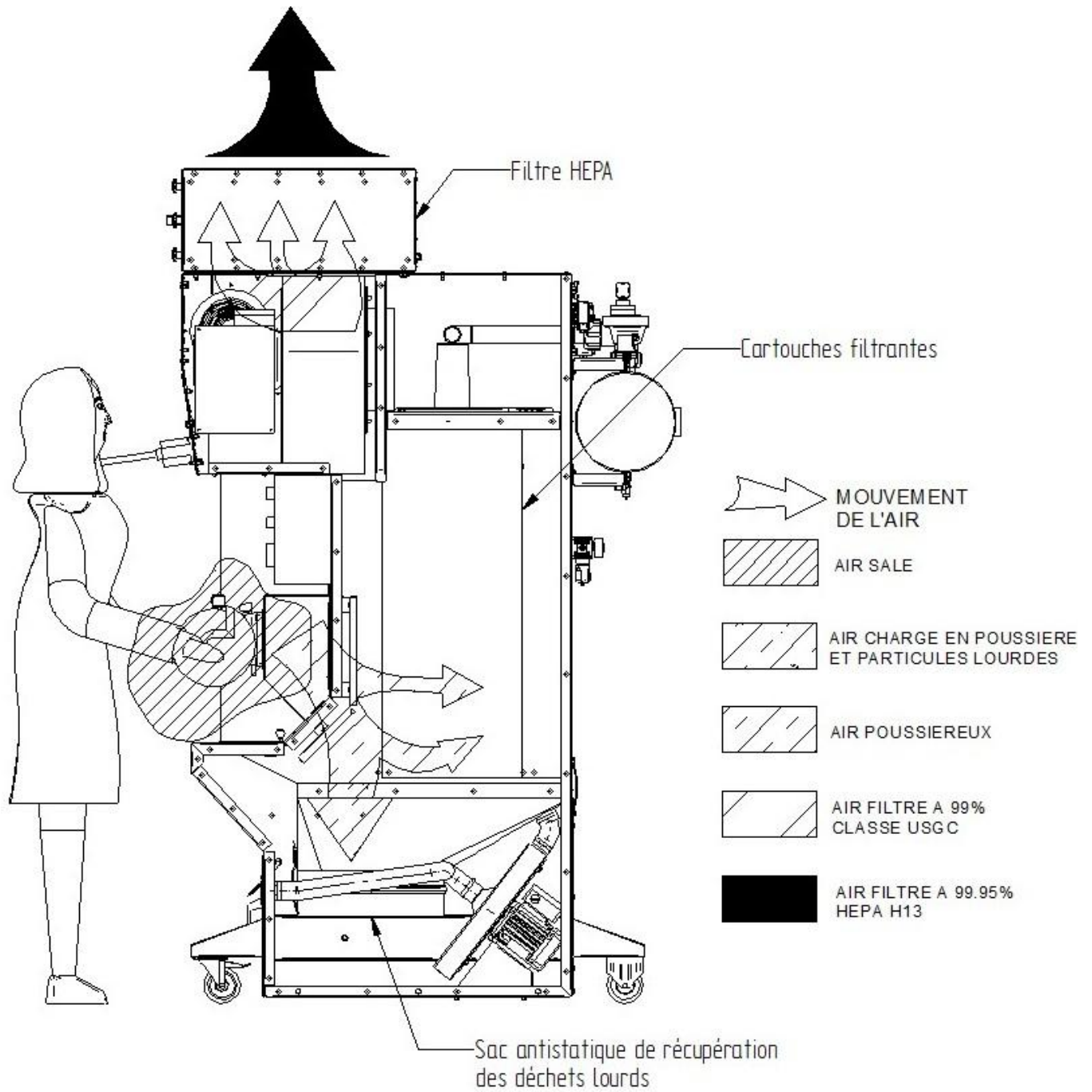
An electronic frequency variator adjusts the air flow speed according to the specific work conditions (micro welding, ultrasensitive partsorting, etc...

Compressed air coupling 8-13 under 4 to 6 bars

Environmental protection

- Dust filtration is provided by cartridges filters with high filtering capacity (çç%)
- The filter media are B.I.A. certified: Professional Institute for Working Safety Institut professionnel pour la sécurité du travail
- U S G C Range: M – Efficiency >99%

Operating Principles



OPTIONS :

- Custom Paint
- High pressure capture.
- Additionnal air pneumatic plug:
- *with or without air treatment for pneumatic tools*
- Retractable side curtains made of PVC strips, transparent or tainted.
- Metallic protection for incandescent particles.
- Specific cartridges (Teflon, antistatics, etc...)
- Modular lighting mounted on articulated arm
- Absolute filter H13 99.92% for indoor discharge
- Adaptation for outdoor discharge
- ATEX (LCIE) Certification for out of risk zone use.
- ATEX (LCIE) Certification for risk zone use (deported dashboard).
- Soundproofed working zone or fan zone with polyurethane cellular foam 1 side 50mm – fire class M4/UL94 – average absorption K : 65%- about 10 dB(A).
- Particle sensor
- Other custom options

Product description

STIVENT's Polishing and Grinding Bench isolates particles from the operator by its unique design and its integrated vacuum system.

It enables capture close to the emission source thanks to a vertical and horizontal air flow running through the work surface and the front of the machine.

A capture speed of 2,5 m/s minimum at all points, as prescribed by French rules, allows the biggest dust to fall directly into an antistatic plastic bag placed right below the work table. Meanwhile the finest particles are sucked up and filtered through vertical cartridges filters located behind the work table.

Cleaned air emerges from the filter to be evacuated while a device is controlling their foul up (pressure balance control (ΔP), measured by a differential pressure sensor, along with an automatic cycle of filters cleaning in case of clogging. The unclogging process starts within 10 seconds following the alarm noise and light ignition (to avoid surprise).

The air escapes from the compressed air tank by the opening of an electro valve and goes into the filters, resulting in a **detonation causing the detachment of the dusts falling down in the bucket recycler.**

The dust gathering is done in front of the machine via a unique, simple and accessible system: an antistatic plastic bag that the user just has to pick up from its cradle and close. This operation occurs once the machine is shutdown. The user is thus protected from exposure due to a transfer from a container to another.

In order to guarantee a good air speed distribution of the aspiration, the Bench is equipped with side panels. These are removable to be able to work on products longer than the table.

Product description

Stivent's workstation complies with INRS (FRANCE) norms on a minimum speed capture of 2,5 m/s for dusts and fumes to ensure user safety.

An electronic frequency drive (15-50 Hz) allows you to adjust the engine speed in order to lower or increase drawing speed. Speed is determined in the factory according your specifications.

This table is fully managed by a Schneider mini automaton that controls the backwashing process (cleaning filters) as well as eventual table malfunction. When a failure occurs, a flashing light and a message appear on the monitor screen informing the nature of the defect. There is also a timer commanding maintenance messages.

The fan of the table starts gradually and has a deceleration time during the filters cleaning process.

Stivent's Polishing and Grinding Bench is ergonomically designed to ensure worker's comfort and easiness to use in either sitting or standing positions.

Our machines are fully made of galvanized steel, coated with a primer and a protective paint for a better quality of finish.

Caractéristiques du produit

Width : 850

Depth : 1400

Work zone Height : 720

Total Height : 2010

Minimal average speed m/s : 2.5

Total air flow m³/h : 2690

Pressure mm CE : 80

Power KW : 1.5

RPM tr/min : 1390

Power Supply : 400V

Number of cartridges : 2

Filtering area m² : 68

Pneumatic unclogging : Yes

Noise level dB(A) at working zone at 50Hz : 70

Noise level dB(A) at 1 m à 50Hz : 60

Flexible side panels : Yes

ATEX Built: Yes

IP55 Control Panel including:

- *Electronic variable speed drive*
- *Transformer*
- *ON/OFF light*
- *Red emergency punch*
- *Insulating switch*
- *Warning light and alarm*

Weight options excluded (Kg) : 300

References

For over 30 years our research (15% of the workforce) designs and production realizes solutions of ventilation equipment for industry. Metalworking, rail, defense, aviation, plastic, wood, automotive and other trusted us.

SNCF,

TURBOMECA,

SAGEM,

BEL'M,

DCNS,

ROCKWOOL,

GEA WESTFALIA,

HUTCHINSON,

GEBERIT,

WALL COLMONOY,

BEHR France,

MICHELIN,

KSB,

AIR France,

PSA,

DASSAULT FALCON SERVICE,

SNECMA,

Etc.

Notre gamme de produits

Tables aspirantes

Cabine de pulvérisation automatique

Cyclone filtre autonome

Ventilateurs

Filtres et cyclo-filtres

Tuyauterie et accessoires

Nos savoir-faire

Conception - Bureau d'Étude - Expertise

Fabrication - Montage

Maintenance



Pour tout renseignement, nous contacter:

www.stivent.com - 05.49.50.41.91

Z.L - BP 12 - 86110 MIREBEAU - FRANCE
Tél: +33 (0)5 49 50 41 91 - Télécopie: +33 (0)5 49 50 64 77
courriel: contact@stivent.fr