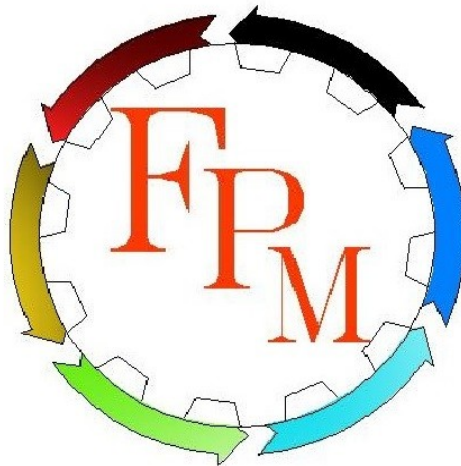


F.P. MAZZOLA S.R.L.S.



TECNOLOGY AND FILTRATION PROCESSES

- DESIGN
- MANUFACTURE
- REVAMPING
- MAINTENANCE

WELDING SERVICES



F.P. MAZZOLA S.R.L.S.

ABOUT US

F.P. Mazzola S.r.l.s. was founded in 2015 by Luciano Mazzola who acquired extensive experience and technical know-how in filter presses whilst working first for the mechanical plant of “Giorgio Diefenbach” for several years (from early '90s to 2006) as Head Assembly, Commissioning and Maintenance and then from 2006 to 2014 for “Filter Press Service” as Technical Manager and Plant Designer.

What do we do

F.P.M. (Filter Press Mazzola) designs and builds custom filter presses and entire mechanical filtration's systems in order to find the proper solutions to effectively handle your filtration needs. In addition F.P.M. (Filter Press Mazzola) provides spare parts and maintenance on major brands of filter presses, screw conveyors, scrubbers, high pressure filter cloths and anything related to plants and industrial filter presses.

F.P.M. (Filter Press Mazzola) also has maintenance certification on various brands of pumps such as: Allweiler, Grundfos, Nemo, Persinotto, Feluwa, Marzi, Liverani and Seepex GmbH, and is therefore able to provide excellent service and maintenance.

Where can you find us

The production and administration head office is located in Calusco d'Adda, a few kilometers from Bergamo , Lecco and Milan , in an easily accessible area from the main roads .

Contacts

F.P.MAZZOLA srls

Via Caduti del Lavoro, 594 – 24033 Calusco d'Adda (BG) – ITALIA

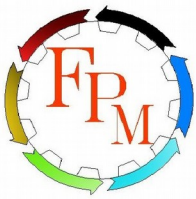
tel. +39.(0)3579261

fax +39.(0)354380629

cell. +39.(0)3351590812

email: fpm@filterpressservice.com

TECHNOLOGY AND FILTRATION PROCESSES



PRODUCTS

Filter presses

The filter presses are machines / tools used to filtrate / separate sludge.

FPM builds each filter press following the customer needs, using the best material and paying particular attention to the details.

The frame design is made according to the area where the filter press will be positioned; also filter presses paint and coating is done by hand.

The sizes of filter presses can vary according to the size and quantity of filtering plates that needs to be installed.

The sizes of filter plates may range from a minimum of 500x500mm to a maximum of 1500x1500mm

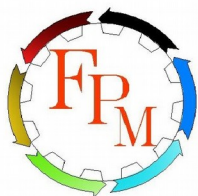
The filtering plates can be supplied in several materials (polypropylene, cast iron, stainless steel, aluminium) and technology (fixed chamber or membrane) in accordance with the application and the condition in which the filter press will operate.

F.P.M. (Filter Press Mazzola) filter presses have 3 different levels of automation:

- manual filter press: manual plates pack opening
- semi-automatic filter press: the operator has to be present during the cycle phases
- automatic filter press: it is not required for the operator to be present at all times during each cycle phases



Products	Main characteristics	Plates dimensions mm
Automatic filter press 	<ul style="list-style-type: none"> Mechanic device for the automatic plates translation inside the overhead beam simultaneous plates pack opening plates shaking for the cakes detachment indicated for high production based on several working shift 	800 x 800 1000 x 1000 1200 x 1200 1500 x 1500
Semi-automatic filter press 	<ul style="list-style-type: none"> Mechanic device for the automatic plates translation inside the overhead beam single plate opening indicated for normal and high production on process plants 	630 x 630 800 x 800 1000 x 1000 1200 x 1200 1500 x 1500
Manual filter press 	<ul style="list-style-type: none"> Manual opening filter press plates pack supported and sliding on the lateral columns indicated for small productions with low management costs 	500 x 500 630 x 630 800 x 800






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Filter press for special applications

F.P.M. (Filter Press Mazzola) will design and assemble filter presses and plants for special applications based on the costumer needs and requests.

TECHNOLOGY AND FILTRATION PROCESSES

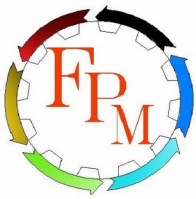
Products	Main characteristics	Plates dimensions mm
Filter press FPS SBH 500 RP inox 	<ul style="list-style-type: none"> Plates pack supported and sliding on the lateral columns manual opening plates pack frame covering in stainless steel sliding hood protection suitable in an area with corrosive vapours 	500 x 500 630 x 630 800 x 800
Filter press FPS SBH 800 inox 	<ul style="list-style-type: none"> Plates pack supported and sliding on the lateral columns manual opening plates pack columns and frame covering in stainless steel mirror polished suitable in pharmaceutical and food area 	500 x 500 630 x 630 800 x 800
Filter press FPS SBH 200 inox 	<ul style="list-style-type: none"> Plates pack supported and sliding on the lateral columns manual opening plates pack columns and frame covering in stainless steel mirror polished suitable in pharmaceutical sterilized area built and projected on costumer requests 	200 x 200



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TECHNOLOGY AND FILTRATION PROCESSES

Products	Main characteristics	Plates dimensions mm
    	<ul style="list-style-type: none"> • Filter press with plates pack supported (ATEX) • n.62 plates in aluminium alloy 6061 T651heated • used in line for PTMG production on a new technology plant (American Soc. INVISTA) 	1200 x 1200



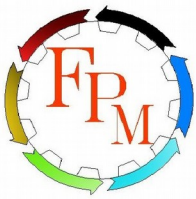
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Accessories

F.P.M. (Filter Press Mazzola) not only designs and produces plants for filter presses, but also produces all the necessary accessories in order to maximize the effectiveness of the plant.

Products	Description
<p>Automatic clothes washing</p> 	<ul style="list-style-type: none"> • Automatic filtering clothes washing device through robot and skid for high pressure pump • sliding on the filter press overhead beam • automation setted by the PLC inside the filter press electric panel • double nozzles carrying device in stainless steel • washing pressure 100 bar • operator not necessary
<p>Bunker cover collecting drops</p> 	<ul style="list-style-type: none"> • Automatic bunker cover with lower opening, positioned under the plates pack, to collect the drops caused by the filtration and the eventual clothes washing
<p>Vapour suction hood</p> 	<ul style="list-style-type: none"> • Filter press protection hood with frame in stainless steel and panels in transparent polycarbonate • sliding openings • limit switch for safety panels opening • second frame for the fixing to the filter press in stainless steel • opening suitable for the connection to the vapours suction device


TECHNOLOGY AND FILTRATION PROCESSES



Products	Description
<p>Hopper and screw conveyor</p> 	<ul style="list-style-type: none"> • Hopper and screw conveyor to discharge the cake • automatic functioning during the filter press discharge phase • managed by the PLC
<p>Flight conveyor</p> 	<ul style="list-style-type: none"> • Flight conveyor to discharge the cake • automatic functioning during the filter press discharge phase • managed by the PLC
<p>Skid for the poly-electrolyte dosing</p> 	<ul style="list-style-type: none"> • Skid for the poly-electrolyte dosage and dilution



Licences

Product	Main Characteristics	Plate dimension mm
Plate in aluminium alloy 6061 t651 	<ul style="list-style-type: none"> • Plate in aluminium alloy 6061 T651 • made from laminate 1200 x 1200 x 100 • with interspaces for heating and cooling (+130 C° > +1 C°) • used in the filter press in line for the production of PTMG on a new technology plant (American Soc. INVISTA) 	1200 x 1200

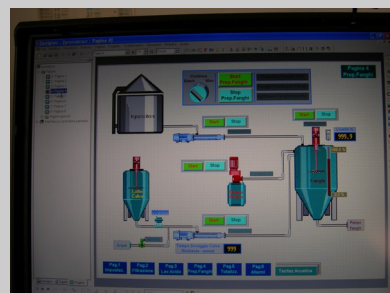
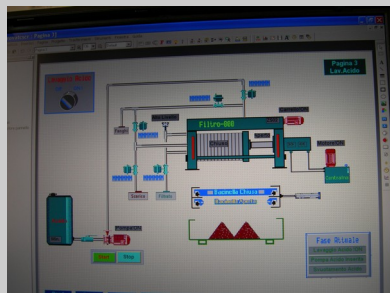
Automation

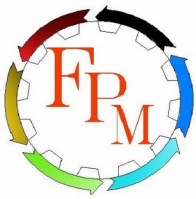
F.P.M. (Filter Press Mazzola) designs and develops plants automation systems with touch screen operator panel control and/or PC intended for supervision.

Products



Parametro	Valore
Velocità Stop Pompa Centrifuga	99,3
Velocità Max. Pompa Centrif. Autom.	99,3
Velocità Fango Fine Filtrazione	99,3
Tempo Fine Filtrazione	99,3
Tempo Max. Filtrazione	99,3
Tempo Max. Lavaggio Acido	99,3
Velocità Livello Preparaz. Fango	99,3
Velocità Stop Agitazione Fango	99,3






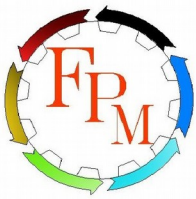
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Special applications

F.P.M. (Filter Press Mazzola) produces filter presses and accessories for plants for special application such as jobs in dangerous work environment areas.

TECHNOLOGY AND FILTRATION PROCESS

Products	Description
	<ul style="list-style-type: none"> Hydraulic power pack for explosive area Atex execution II 2 G EEXD IIC T6
	<ul style="list-style-type: none"> Electric panel for explosive area Atex execution II 2 G EEXD IIC IP65



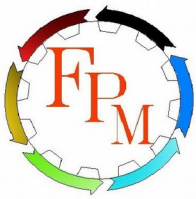
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Revamping

F.P.M. (Filter Press Mazzola) can also provide revisions services for filter presses made by other companies, adding changes to the mechanical and electromechanical equipment in order to improve production and in order to grant the highest safety environment both for the operators and for all the maintenance staff.

Producers	Main characteristics
<p>Filter press G. Diefenback before revamping</p> 	<p>Filter press G. Diefenback after revamping</p> 
<p>Filter press Diemme before revamping</p> 	<p>Filter press Diemme after revamping</p> 

TECHNOLOGY AND FILTRATION PRECESSES



F.P. MAZZOLA S.R.L.S.

TECHNOLOGIES AND FILTRATION PRECESSES

Client support

We can provide fast on-site assistance from our technicians, usually granted within 48 hours from the call on all the main filter presses brand and plant parts (pumps, agitators, electric panels, software, etc..).

Help desk telephone support services from our technicians - only for minor malfunctioning.

Software study and development for plant operation.

It is possible to create a contracts with setted maintenances dates plus emergency assistance in accordance to the client's needs.

Spare parts

F.P.M. can supply spare parts for any brand of filter presses.

Supply of spare parts for pumps (Abel, Marzi, Seepex, Allweiler, Persinotto, Liverani, Feluwa, Grundfos, Nemo, etc..) and all other plant parts.

Filtration tests

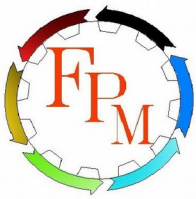
Our process technician is available to make filtration tests in our lab or on-site, to establish the best parameters for the filtration.

The tests are made through a little pilot filter which is able to carry out the evaluation on any type of sludge in different acidity and temperature conditions.

APPLICATIONS

The mechanical filtration plants designed and built by F.P.M. (Filter Press Mazzola) are used in several applications:

- mining industry (inert washing)
- metallurgic area (recycle usable materials, production rejections discharge)
- civil purification (water treatment, biologic sludge)
- pottery and glass industry (sludge from porcelain, glass and crystal production)
- industrial laundries (sludge coming from washing)
- tanning (sludge coming from the production)
- galvanic industry (sludge coming from the production)
- food industry (cheese factory, slaughter-houses, beer factory, sugar factory, etc..)
- petrol-chemistry (usable materials recycle, production rejections discharge, smokes knocking down)
- thermoelectric station (smokes knocking down)
- lead pastel (lead from exhausted batteries)
- pharmaceutical industry (usable materials separation, production rejections discharge)



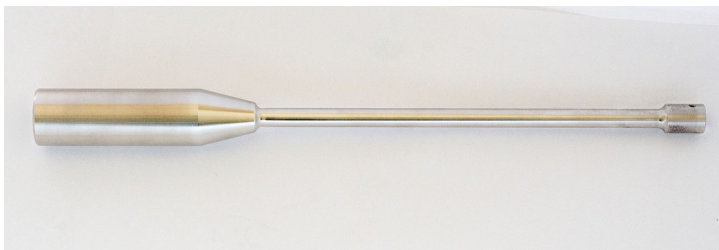
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Welding and polishing

FPM can also provide welding and polishing services upon request. Its skilled and qualified staff can ensure the maximum quality results in each separate fase of the production. The experience acquired by our operators is able to satisfy the needs of even the most exigent client.

Below some examples of welding and polishing work



WELDING SERVICES