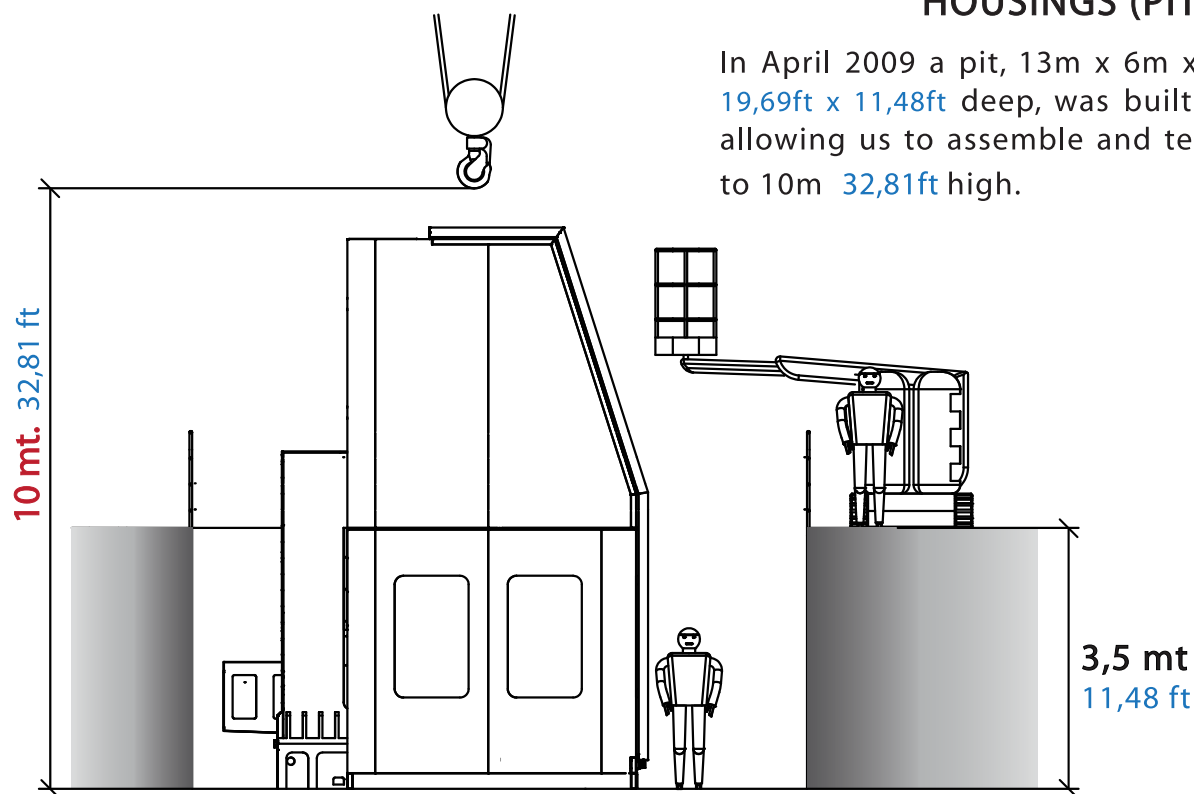


LARGE DIMENSION HOUSINGS (PIT)

In April 2009 a pit, 13m x 6m x 3,5m 42,65ft x 19,69ft x 11,48ft deep, was built in our factory allowing us to assemble and test housings up to 10m 32,81ft high.

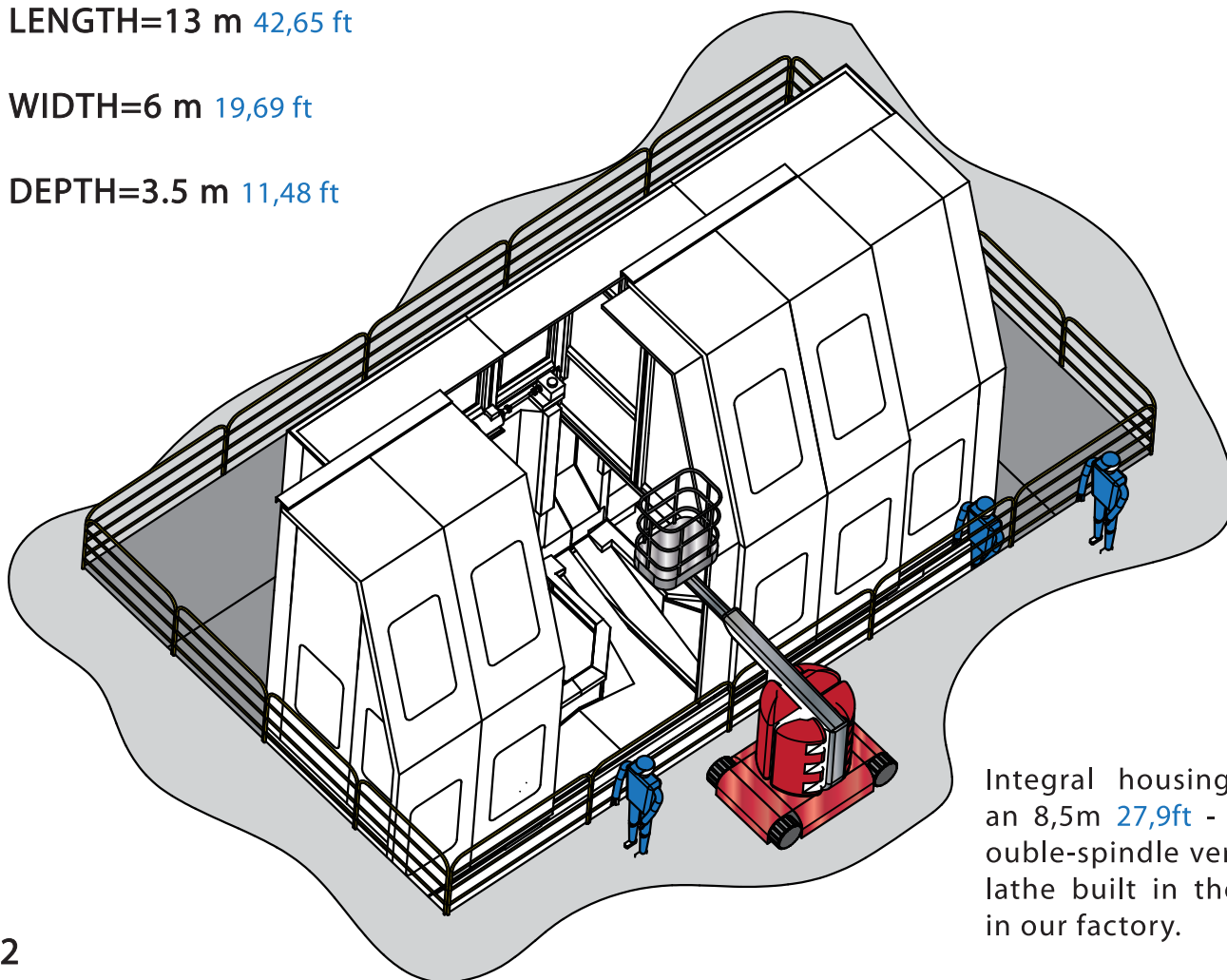


TECHNICAL CHARACTERISTICS

LENGTH=13 m 42,65 ft

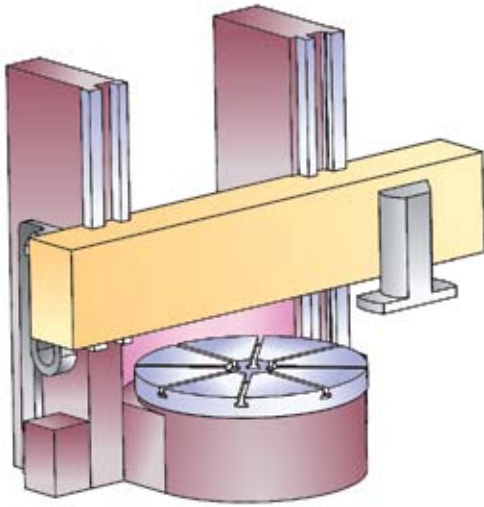
WIDTH=6 m 19,69 ft

DEPTH=3.5 m 11,48 ft



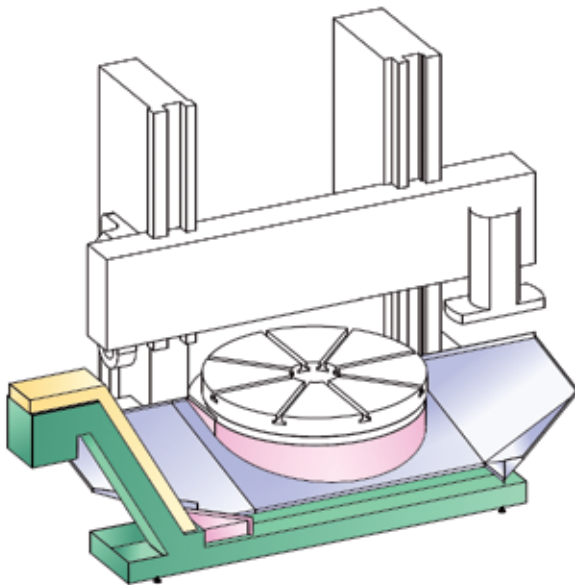
Integral housing for an 8,5m 27,9ft - high double-spindle vertical lathe built in the pit in our factory.

Our housings are made to the client's requirements, with bespoke solutions to problems. Aesthetics, functionality, resistance and practicality are taken into account (splashguards can be made coolant- and chip-proof).



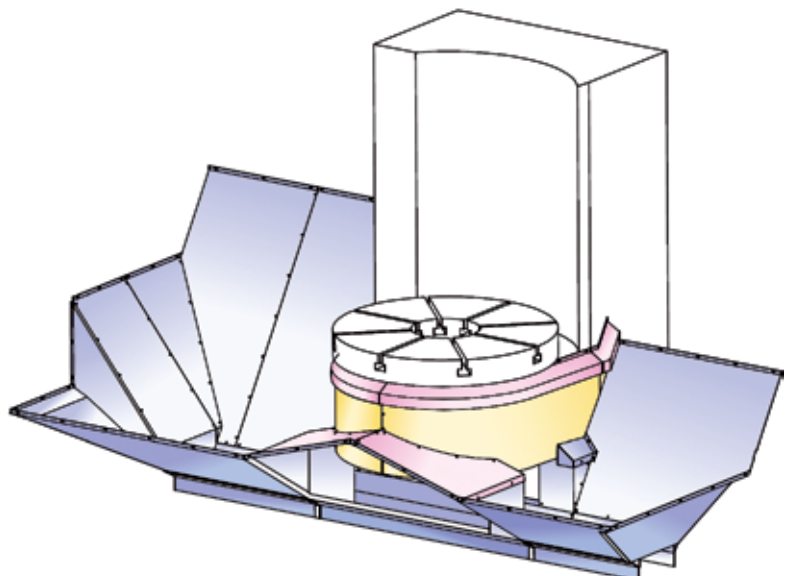
VERTICAL LATHES

The most common problems in housing a lathe are water tightness and the volume of the splashguard itself. Thanks to over 40 years' experience, Metal Gennari has a wide range of solutions to these problems. With aesthetics in mind, Metal Gennari still manages to guarantee the best results possible whether on a new machine or on the overhaul of an old one. Our technical dept. can suggest diverse solutions.



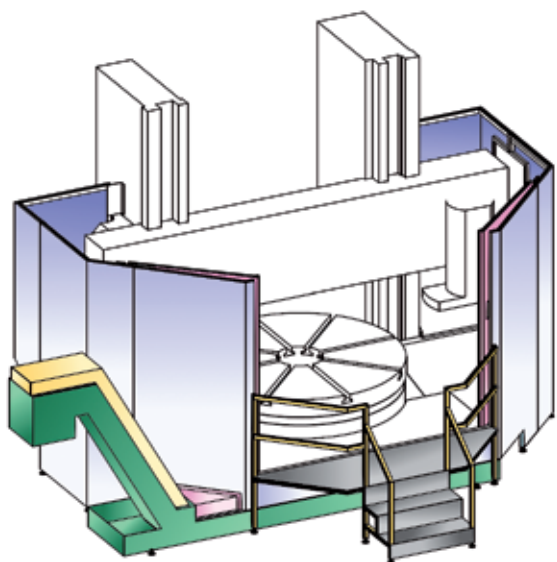
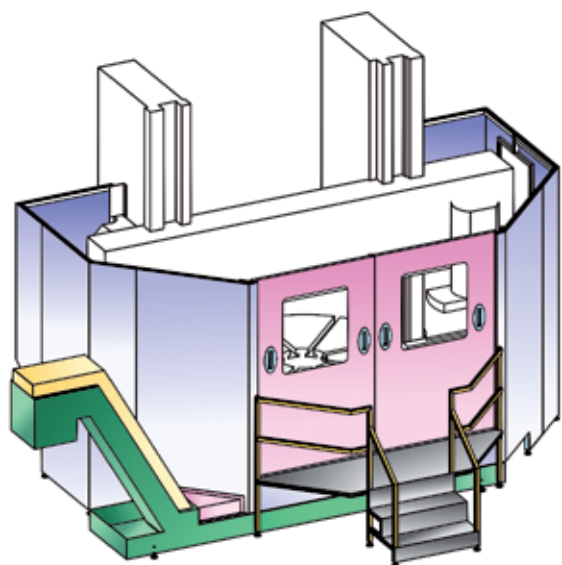
WATER TIGHTNESS

Water tightness and the practical and correct removal of chip are essential for a vertical lathe. Depending on the type of machine, slides are mounted to carry chip to the conveyor. Depending on requirements and size, they can either be welded or screwed to each other. Screwing them together makes it easier to access machine parts without having to remove the splashguard in the event of breakdown. However, both cases guarantee water tightness.

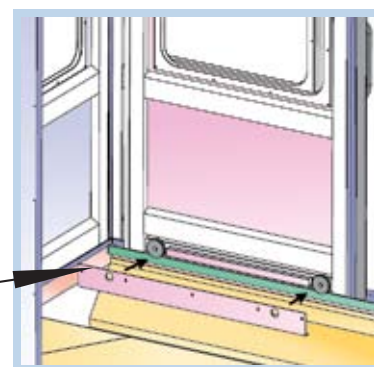
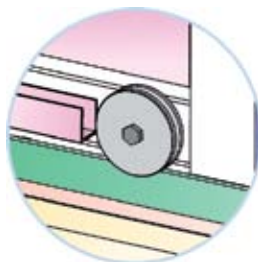


SLIDE-OPENING DOORS

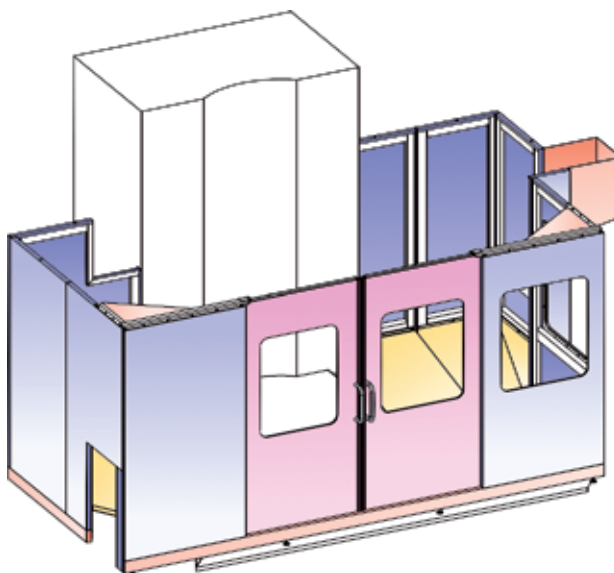
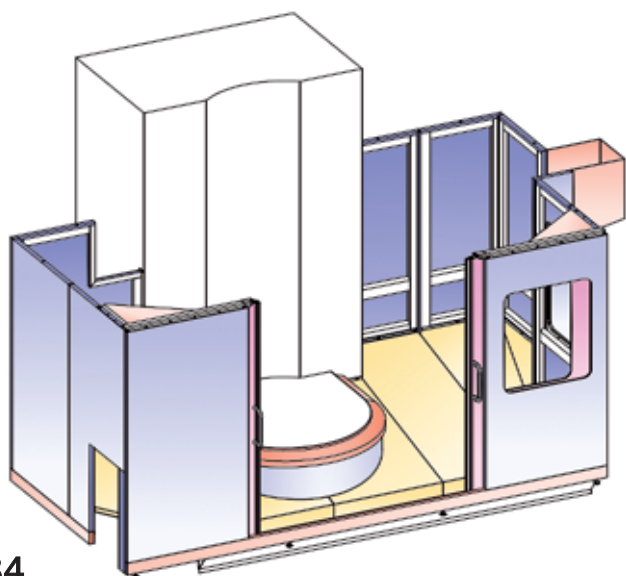
Where possible, the doors run on wheels and open by sliding inside the housing body. This usually means that the housing must be larger, but it is easy to build and convenient for the operator as it does not cause any obstacle in the immediate area of the housing. In the specific case shown in the illustration alongside, however, the doors slide open along the rounded shape of the housing in order to reduce the size as much as possible. The doors are linked to the housing with guides and bearings, which guarantee easy and safe opening. The doors usually slide on wheels over a bottom guide. At the top they are guided by two bearings, two bearings running on a sheet metal guide. As shown in the illustration, a safety device is added to prevent the doors coming off their rails. Metal Gennari also supply various models of electrical safety switch, in conformity with main International Directives.



N.B.: the position of the conveyor and consequently the removal of chip vary according to the machine and the client's requirements. The housing slides are adapted to fit.

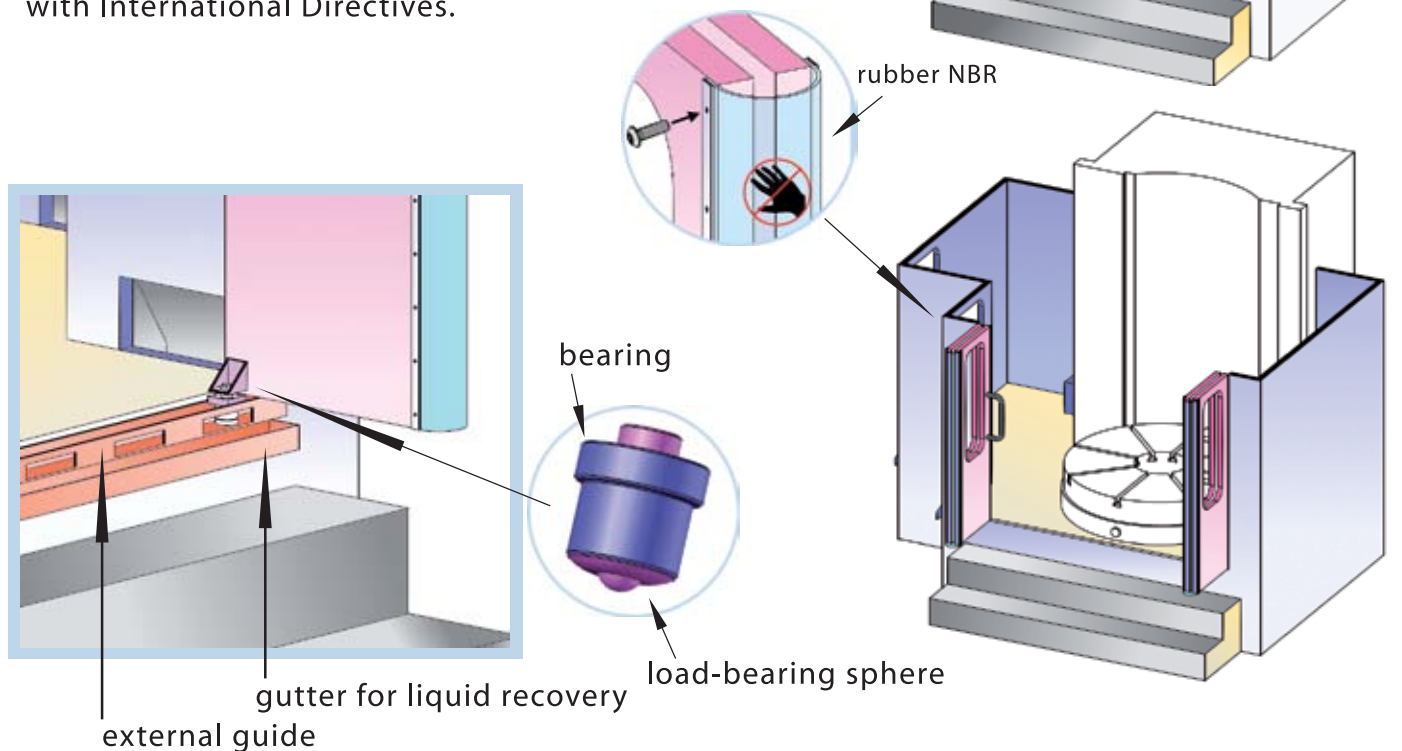


Removable safety device to prevent the doors coming off the rails.

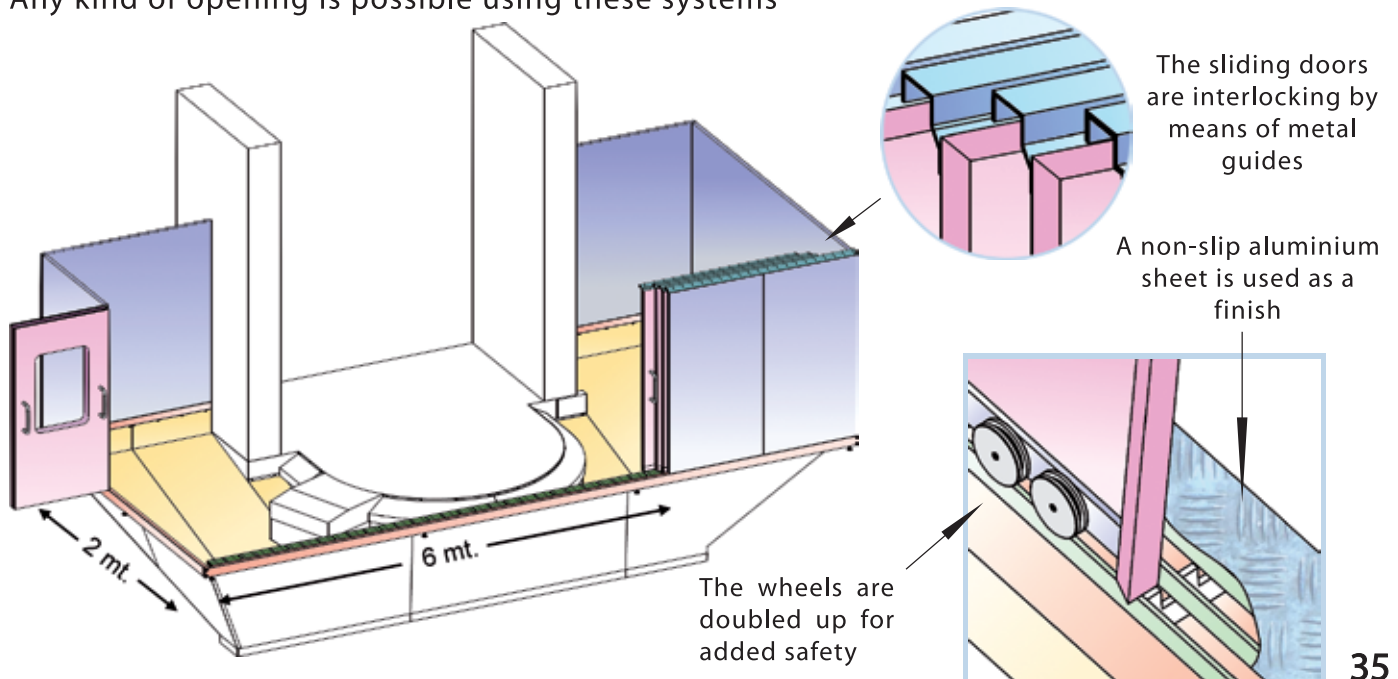


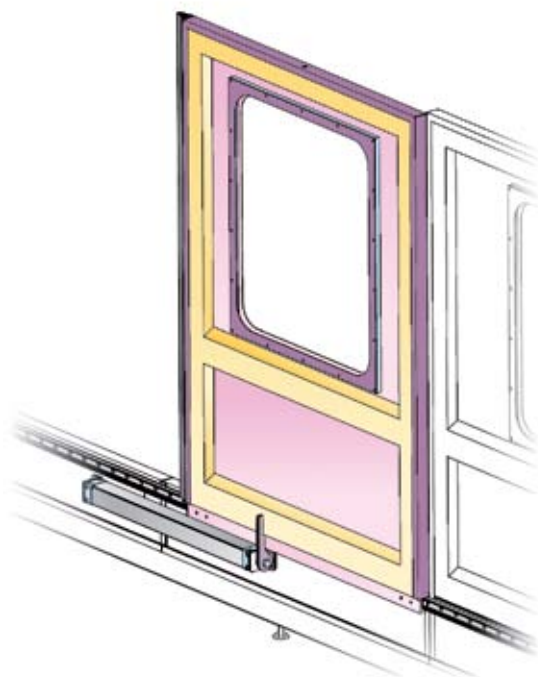
OPENING WITH FOLDING DOORS

In this case, the sliding doors open towards the outside of the housing. They slide using a load-bearing sphere guided by an external guide, positioned under the doors. This system allows a wide opening thereby containing the dimensions of the housing. For safety reasons two strips of NBR rubber are fitted in order to prevent accidents when the doors close. A gutter is positioned under the guide to recover any liquids. Metal Gennari also supply various models of electrical safety switch, in conformity with International Directives.



The various designs can be combined, as in the case shown in the illustration below. Any kind of opening is possible using these systems





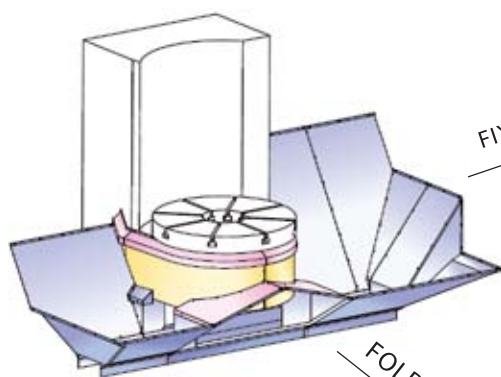
AUTOMATIC DOORS

Available on request, or occasionally following the advice of our Technical Dept., the doors can be made automatic rather than manual. Hydraulic or pneumatic cylinders, or a rack, are used. The sliding part is usually guided by guides of various sizes (according to the opening speed and the weight of the door), which help to eliminate friction and guarantee optimum load-bearing and lasting properties. In order to indicate the closed and open position to the NC Metal Gennari also supplies various models of input switches. Metal Gennari uses exclusively high-quality parts in order to guarantee the client a longer-lasting product.

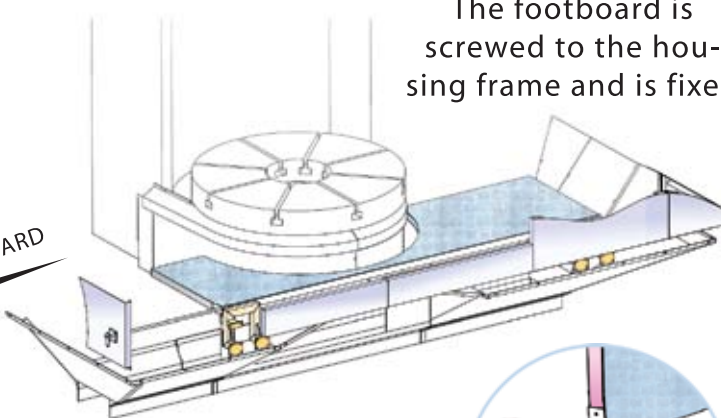


OPERATOR'S FOOTBOARD

A footboard is fitted inside the housing in order to allow the operator to reach the spindle area easily and safely. This footboard can be fixed or folding, according to how much facilitation the chip needs to reach the conveyor belt.

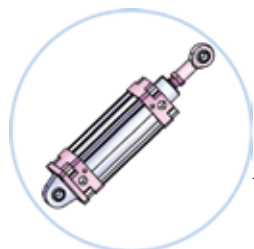


FIXED FOOTBOARD

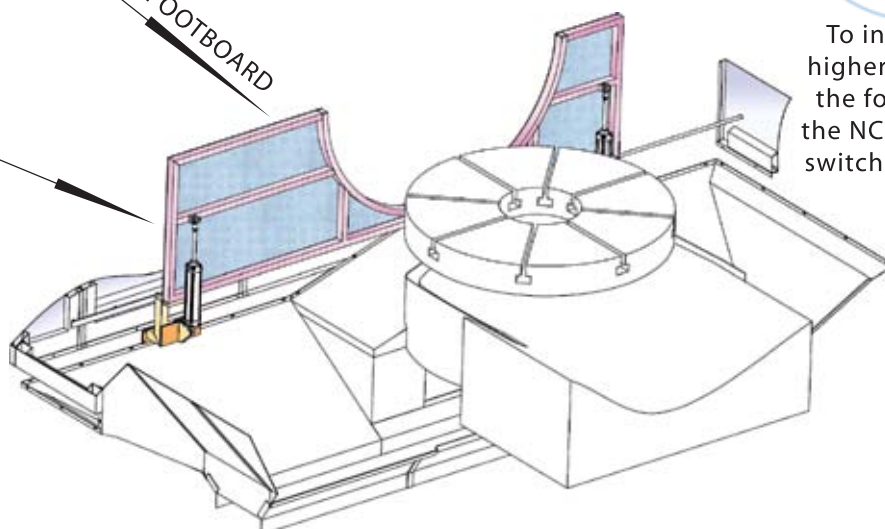


The footboard is screwed to the housing frame and is fixed

FOLDING FOOTBOARD



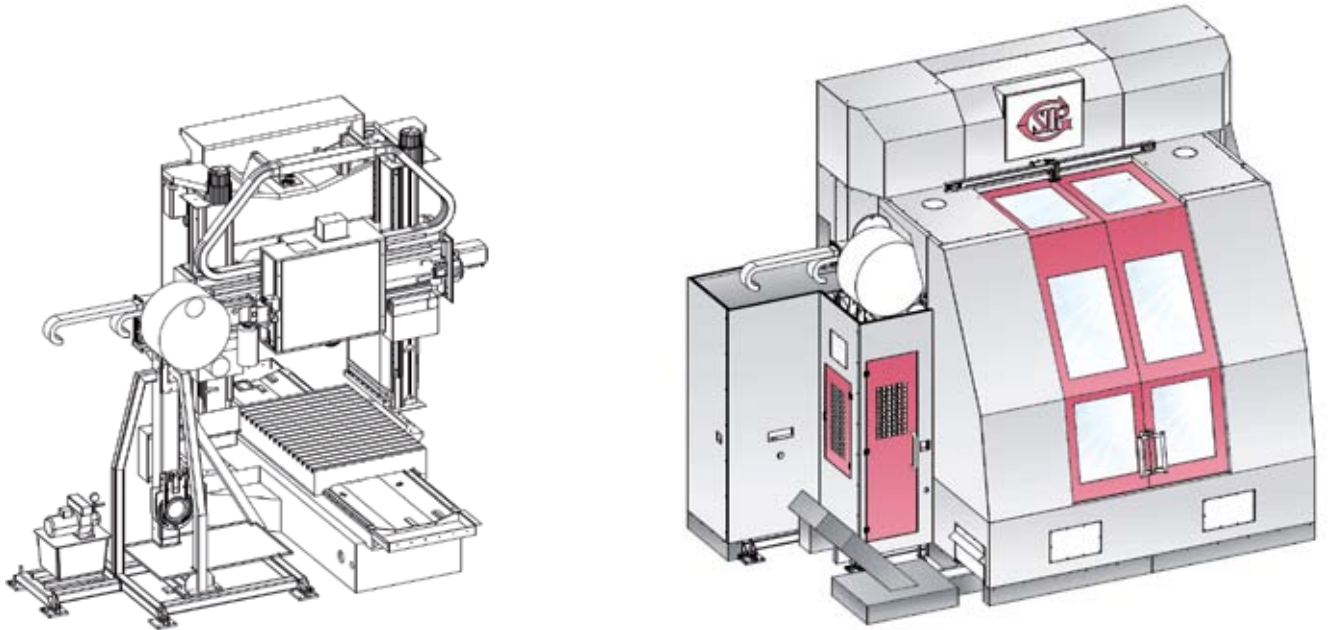
The footboard is hinged to the housing frame and is lifted by pneumatic or hydraulic cylinders



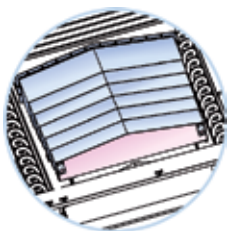
To indicate the higher position of the footboard to the NC two micro-switches are fitted

HOUSING FOR MACHINING CENTER

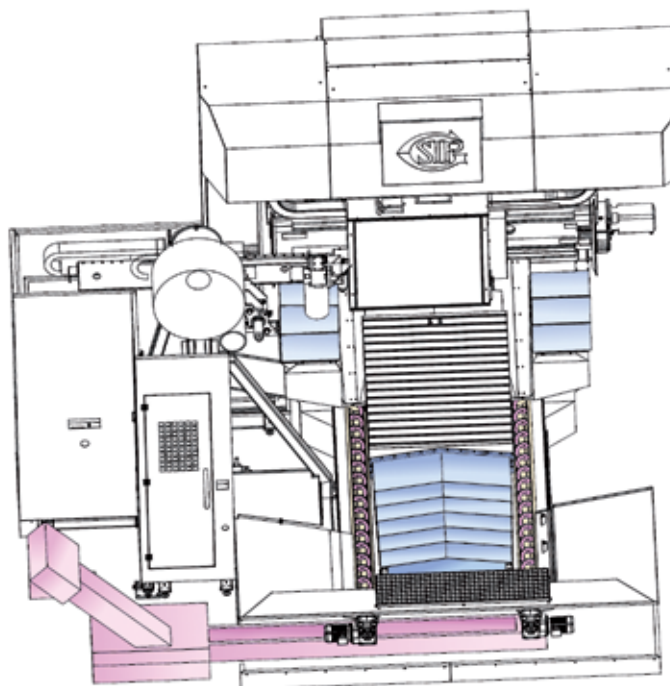
Integral housing with side tool interchange, completely watertight and complete with slides for carrying chips. It has one manually-opening side door for the operator, one automatic door for tool changing and two doors at the front to allow the piece to pass through. Metal Gennari also supplies two longitudinal telescopic covers, two vertical telescopic covers, two transversal heat-sealed bellows, one scraper conveyor and two screw-conveyors. It is preset for smoke extraction.



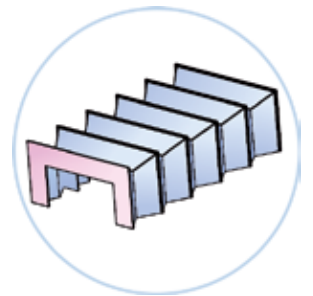
Nr. 2 vertical covers



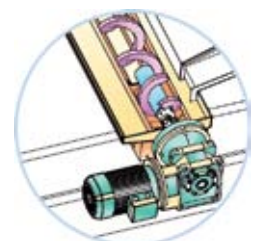
Nr. 2 longitudinal covers



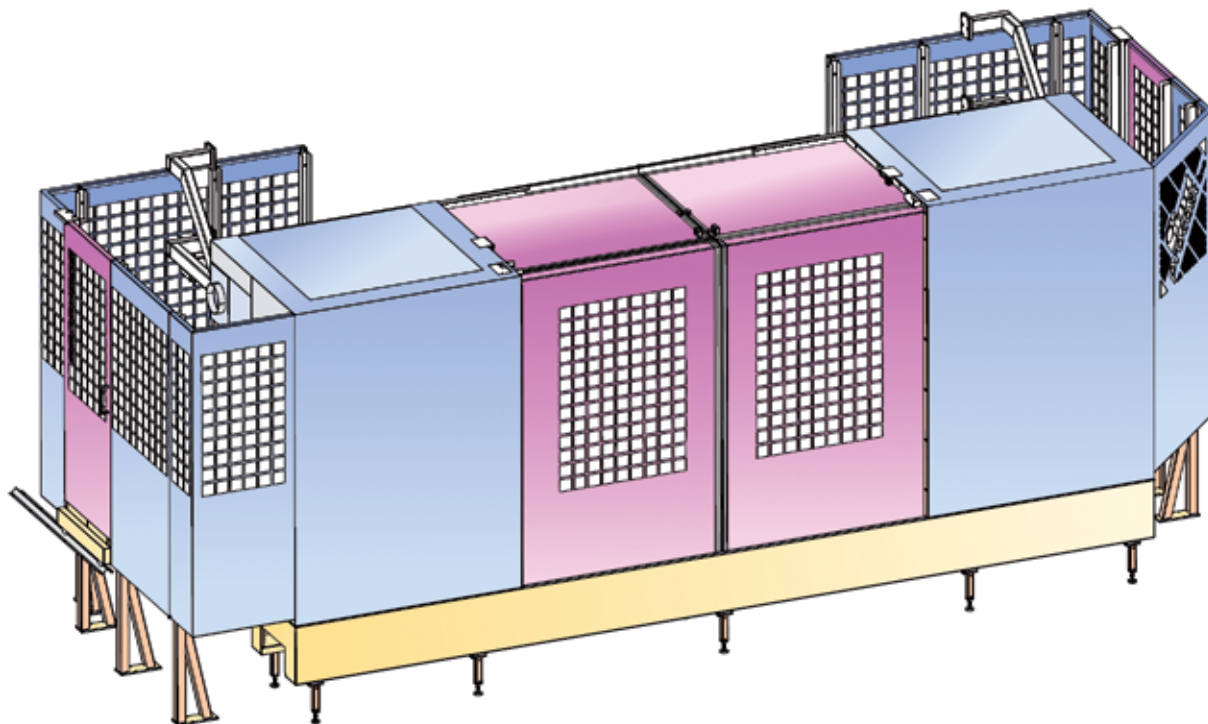
Scraper conveyor



Nr. 2 heat-sealed bellows

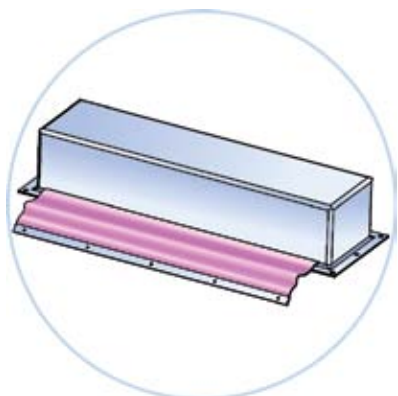


Nr. 2 screw chip conveyors

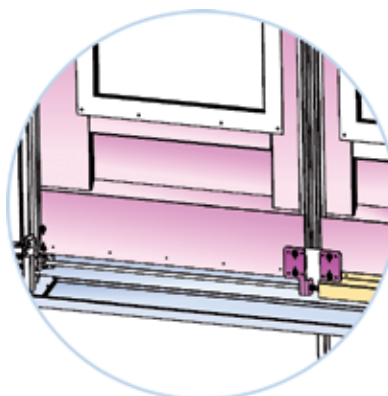


INTEGRAL HOUSING FOR VERTICAL LATHE

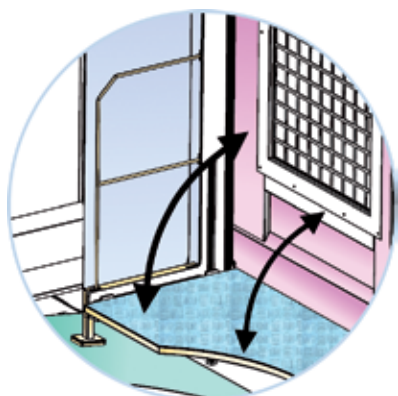
Integral housing for vertical lathe, with two automatic doors for loading the piece also without upper encumbrance, two roll-up covers for tool changing and one automatic folding footboard. Preset for smoke extraction.



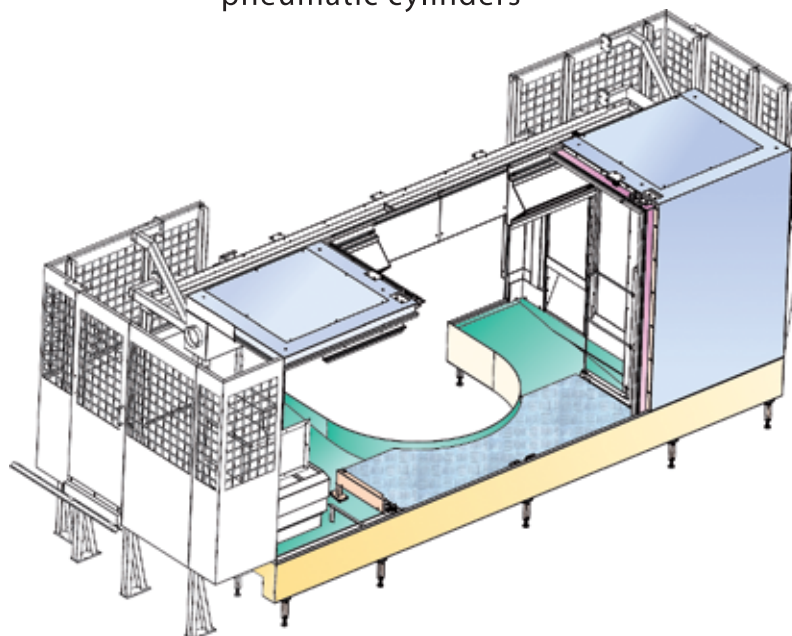
Roll-up covers separate the tool changing area from the lathe working area and guarantee water tightness



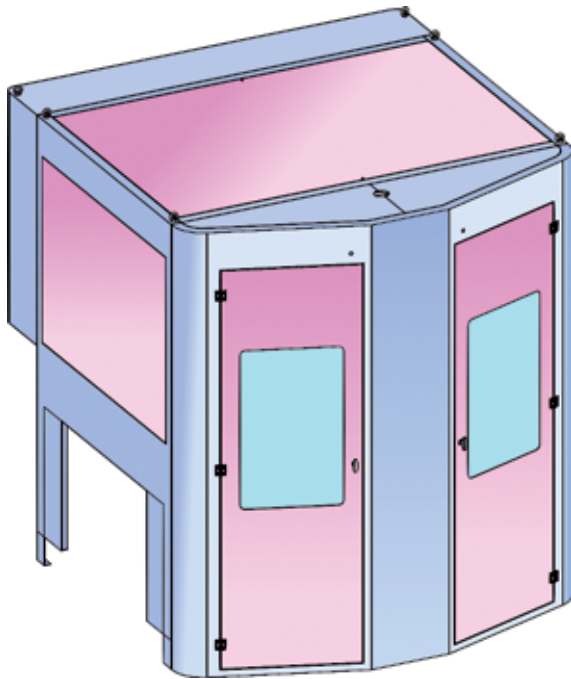
Automatic doors with pneumatic cylinders



Folding footboard



INTEGRAL HOUSING FOR MACHINE FOR WORKING WOODEN TRIMS

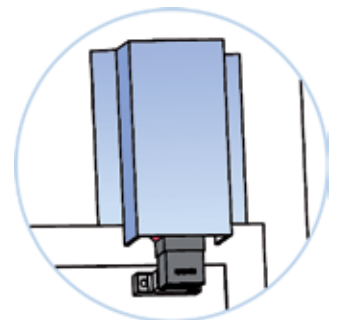


Safety housing made of sheet metal (hot-pickled Fe360 DD11 minimum thickness 2 mm 0,08') with two front doors and four removable panels screwed on the sides and at the back.

Walk-on roof (max load 120kg 264 lb) with screwed-on removable panel. Complete with two electrical safety switches for door safety, two Visarm Saint Gobain shatter-proof glass windows.



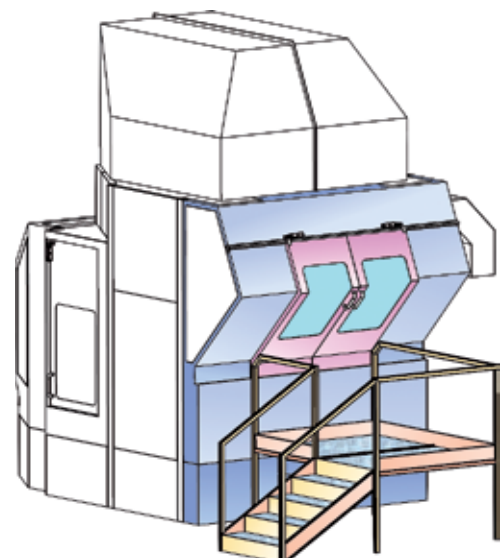
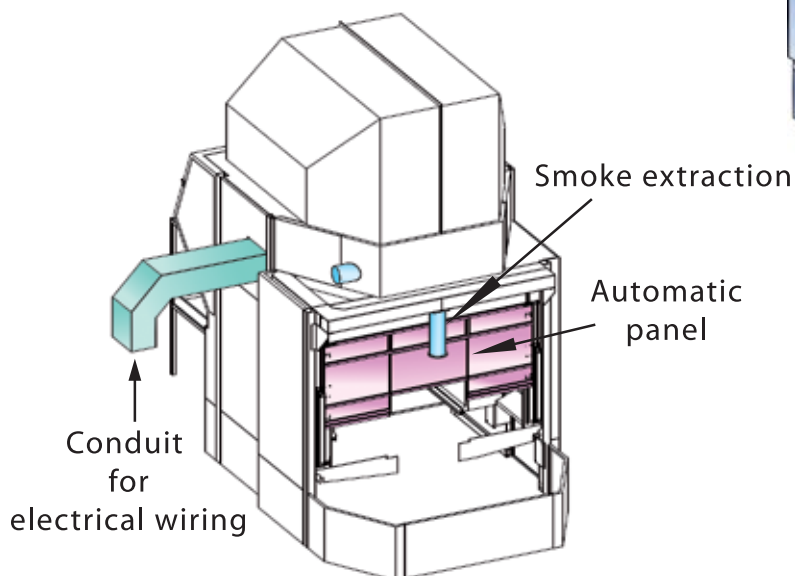
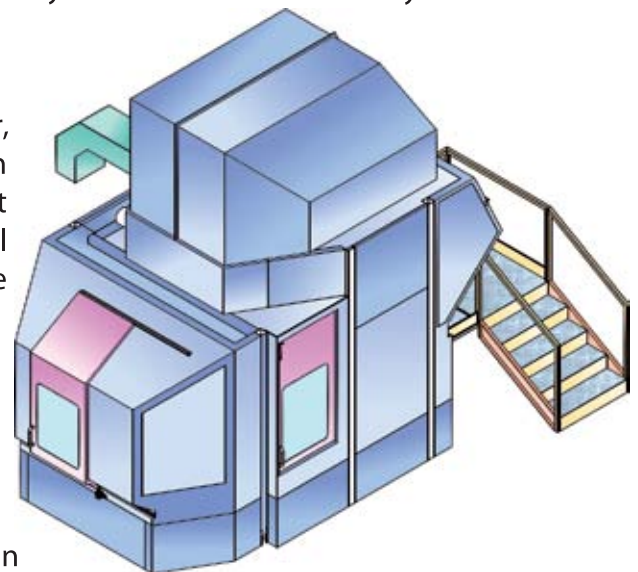
nr. 2 EUCNER electrical
safety switches



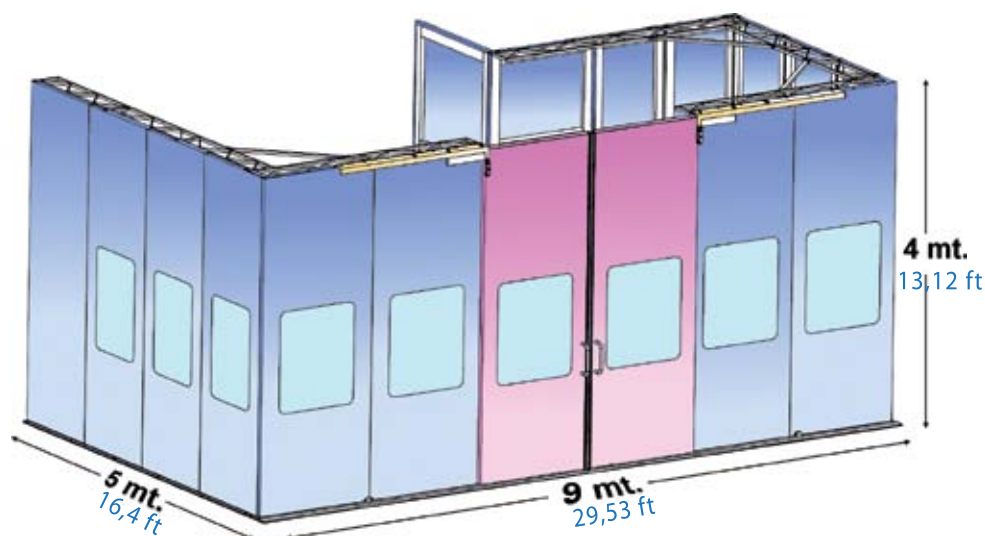
detail of electrical
safety switch

INTEGRAL HOUSING FOR MACHINING CENTER

Integral safety housing, with one front sliding door, one side sliding door, two rear sliding doors and an external back stairway. Complete with Visarm Saint Gobain shatter-proof glass windows and electrical safety switches for door safety. Preset for smoke extraction.

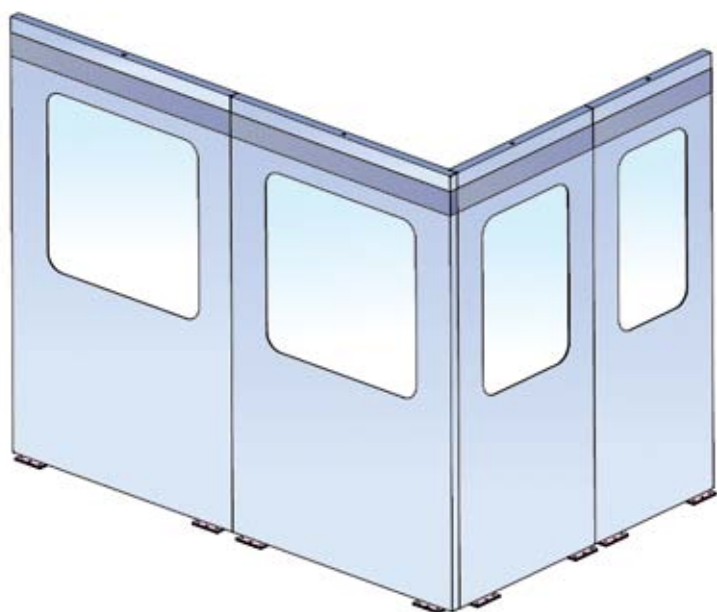
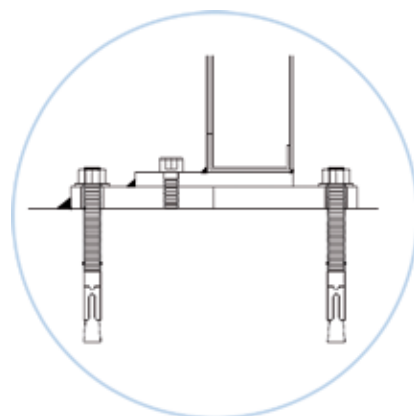


EXTERNAL HOUSING FOR BORING MACHINE



Large-size safety housing made of sheet metal (Fe360 DD11 hot-pickled min thickness 2mm 0,08'), with two front sliding doors and one rear sliding door. Complete with two electrical safety switches for sliding door safety. Panels and sliding doors with thirteen Visarm Saint Gobain multi-layered reinforced glass windows.

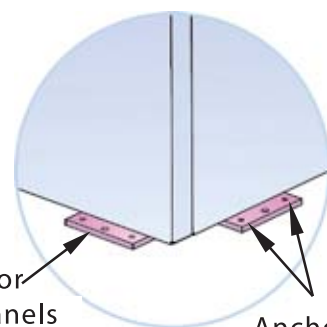
When the housing is very large, it is fixed to the floor by means of a drawn flat bar anchored in the floor. This solves the problems caused by an uneven floor. The housing is then mounted in one piece on this "platform". This also prevents liquids leaking out from under the external housing.



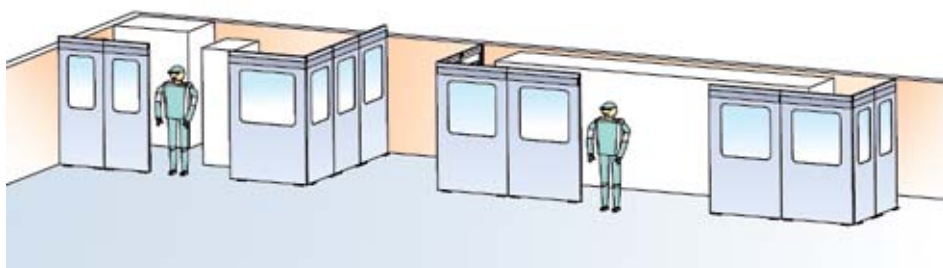
STANDARD EXTERNAL HOUSING

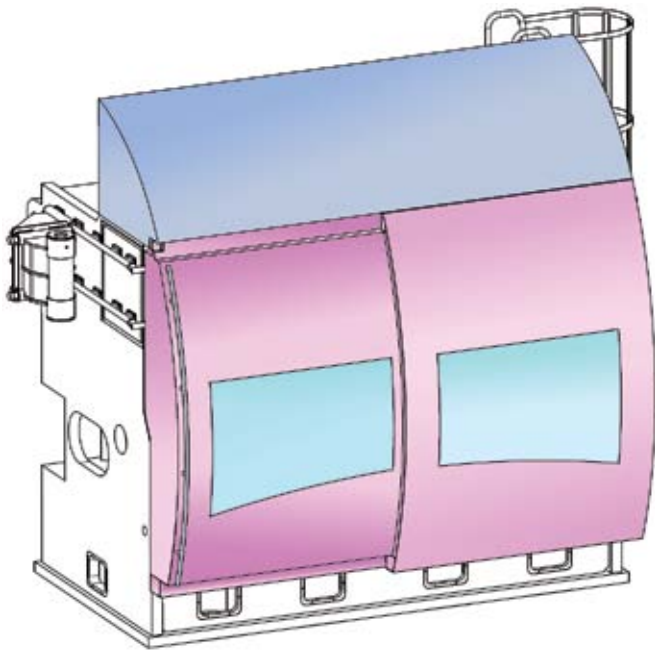
The standard external housings are fixed to the floor by means of anchors and two grub screws are used to level out the panels. We usually use 5mm-thick 0,2' Lexan. The panels are fixed to each other with M6 screws or M6 self-threading screws. Water tightness is NOT guaranteed.

Grub screw for
levelling out panels



Anchors for
floor fixing





FRONT HOUSING FOR STRAIGHTENER MACHINE

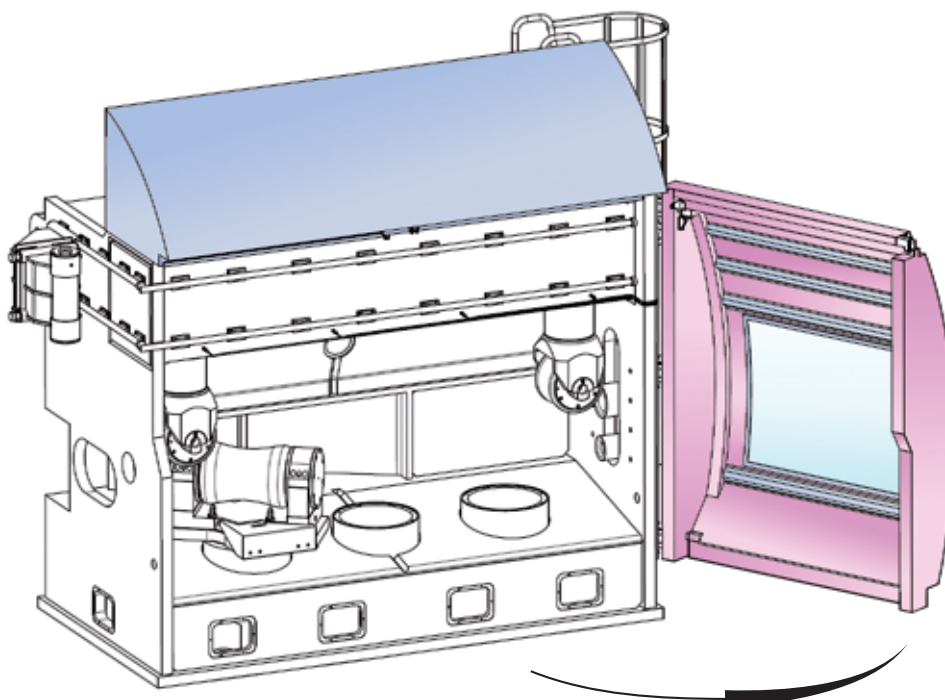
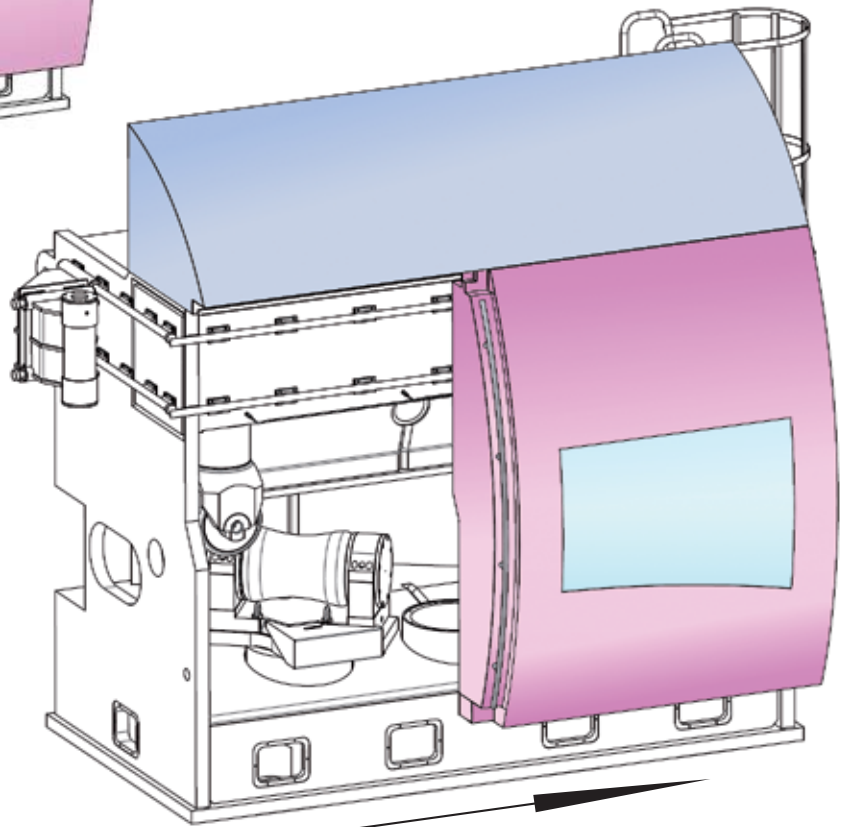
Front housing for straightener machine provided with n. 1 sliding panel that during the opening slides inside a door. The panel and the door become a single element and turn of 120°.

The sliding panel is equipped with:

- safety electrical switch to avoid accidental openings
- special guides for horizontal sliding

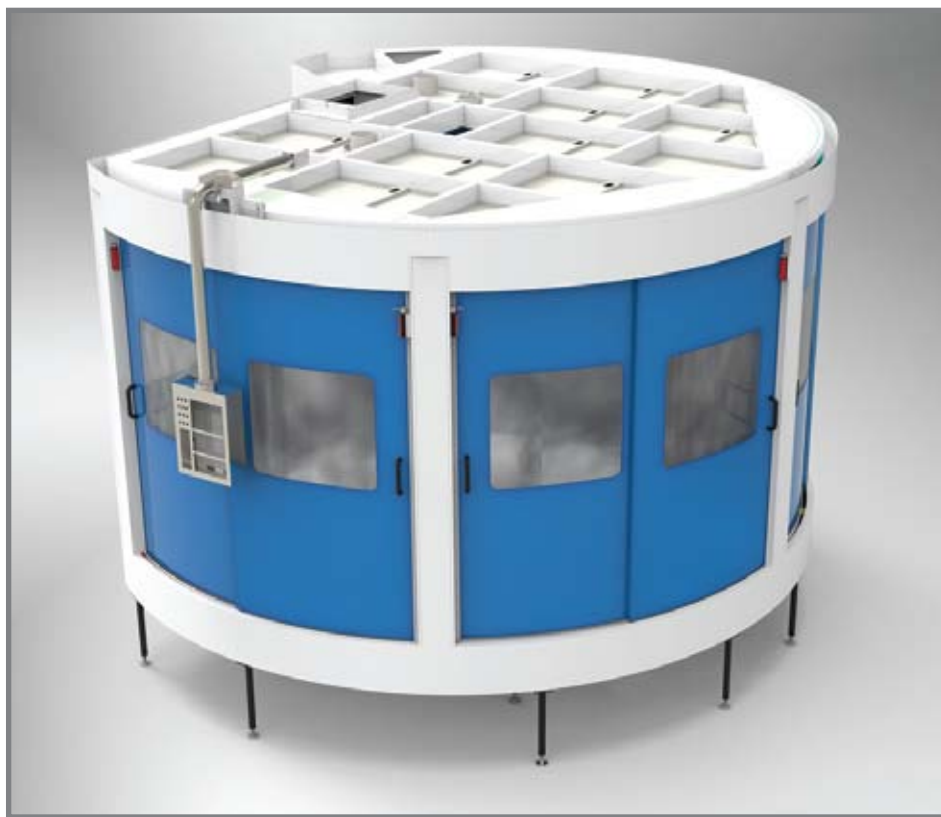
Both doors are equipped with Lexan windows

The housing is also provided with a removable roof.



Carenatura per centro di lavoro Transfer

Housing for Transfer machine



Carenatura integrale per centro di fresatura verticale 3 assi

Integral housing for 3 axes vertical milling center

