



DECIBEL

DECIBEL ENCLOSURE SYSTEM

RUGGED NOISE CONTROL STRUCTURES USING ACOUSTICALLY
RATED & FIELD PROVEN DEMOUNTABLE COMPONENTS

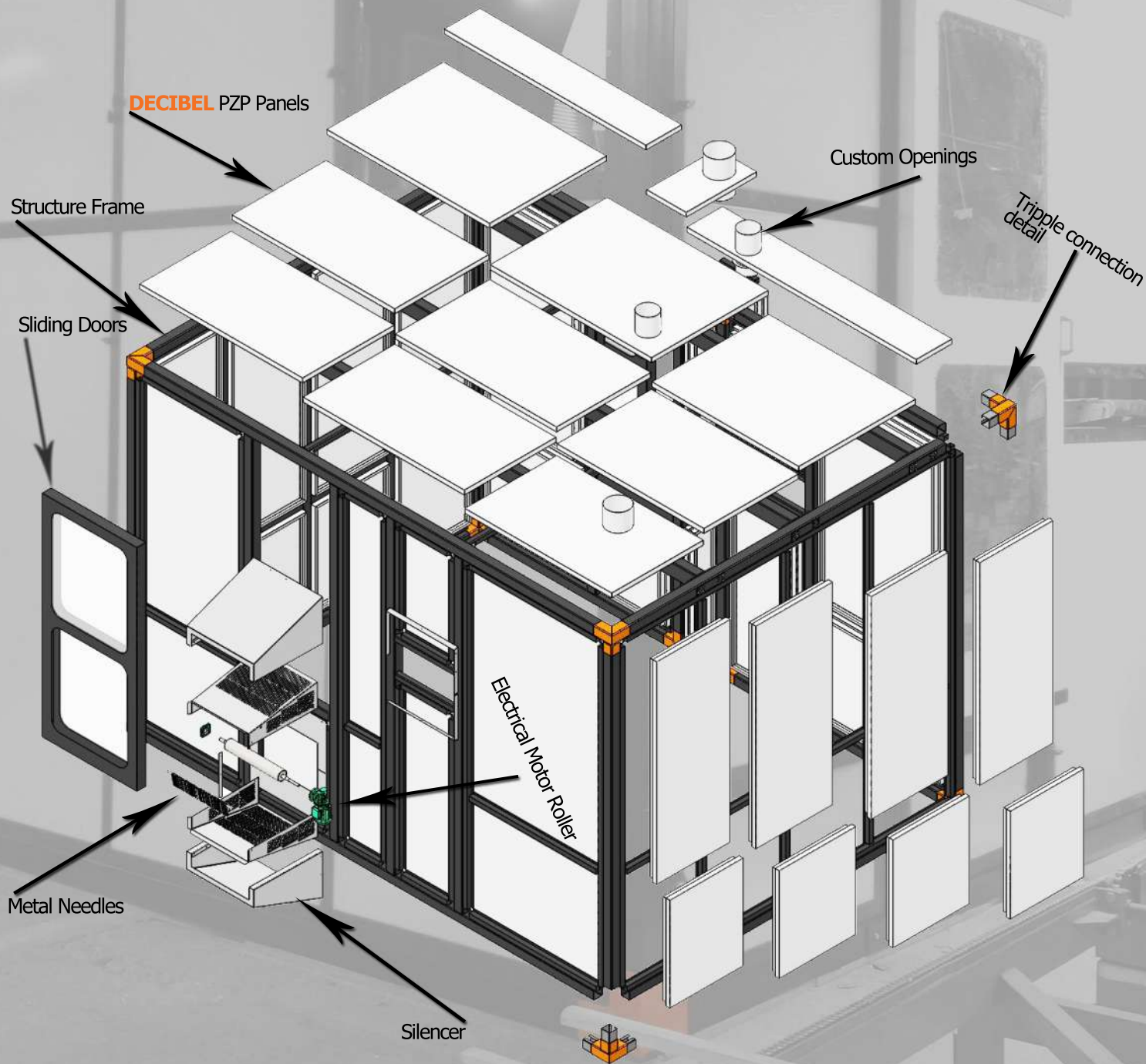
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DECIBEL Dbox[®] enclosures protect workers from noise generated during manufacturing. In industrial settings, noise from equipment frequently exceeds limits for hearing safety, while also impeding communication. Without noise control remediation, local noise ordinances at plant property lines may be exceeded.

DECIBEL Dbox[®] enclosures are an effective and efficient way to address these problems. **DECIBEL** offers options for silencer for entrance and exit of the cabin, lightning, electrical and mechanical system components as well as the ability to fully customize the enclosure for unique customer requirements. When desired, electrical services can be integrated into the construction of the panel at the plant for a superior aesthetic and an unobstructed interior.

When you choose **DECIBEL Dbox[®]**, you can count on **DECIBEL** as the single point of responsibility for all the different components that affect the acoustic performance of the enclosure, including wall and roof panels, doors, windows and ventilation systems.

DECIBEL professionals will work with you to identify and design the right solution to effectively mitigate your noise problem. We guarantee the performance of our products and continue to support our customers long after the job is completed.



SOUNDPROOFING PANELS FOR WALL AND CEILING

- ✓ Enclosure panel sound absorption system reduces reverberant build-up within existing "hard" structures
- ✓ Completely dismountable panels for walls and ceilings



Sound reduction index Rw panels					
f [Hz]	dB	f [Hz]	dB	f [Hz]	dB
50	15.0	250	25.0	1250	40.0
63	16.0	315	27.0	1600	42.0
80	17.0	400	29.0	2000	44.0
100	19.0	500	31.0	2500	46.0
125	20.0	630	34.0	3150	48.0
160	22.0	800	36.0	4000	50.0
200	23.0	1000	38.0	5000	52.0

DOORS AND WINDOWS

- ✓ Single and double-leaf doors. Special designs for larger openings available.
- ✓ Manual and automated single and double-leaf sliding doors
- ✓ Elastic and rigid polycarbonate windows



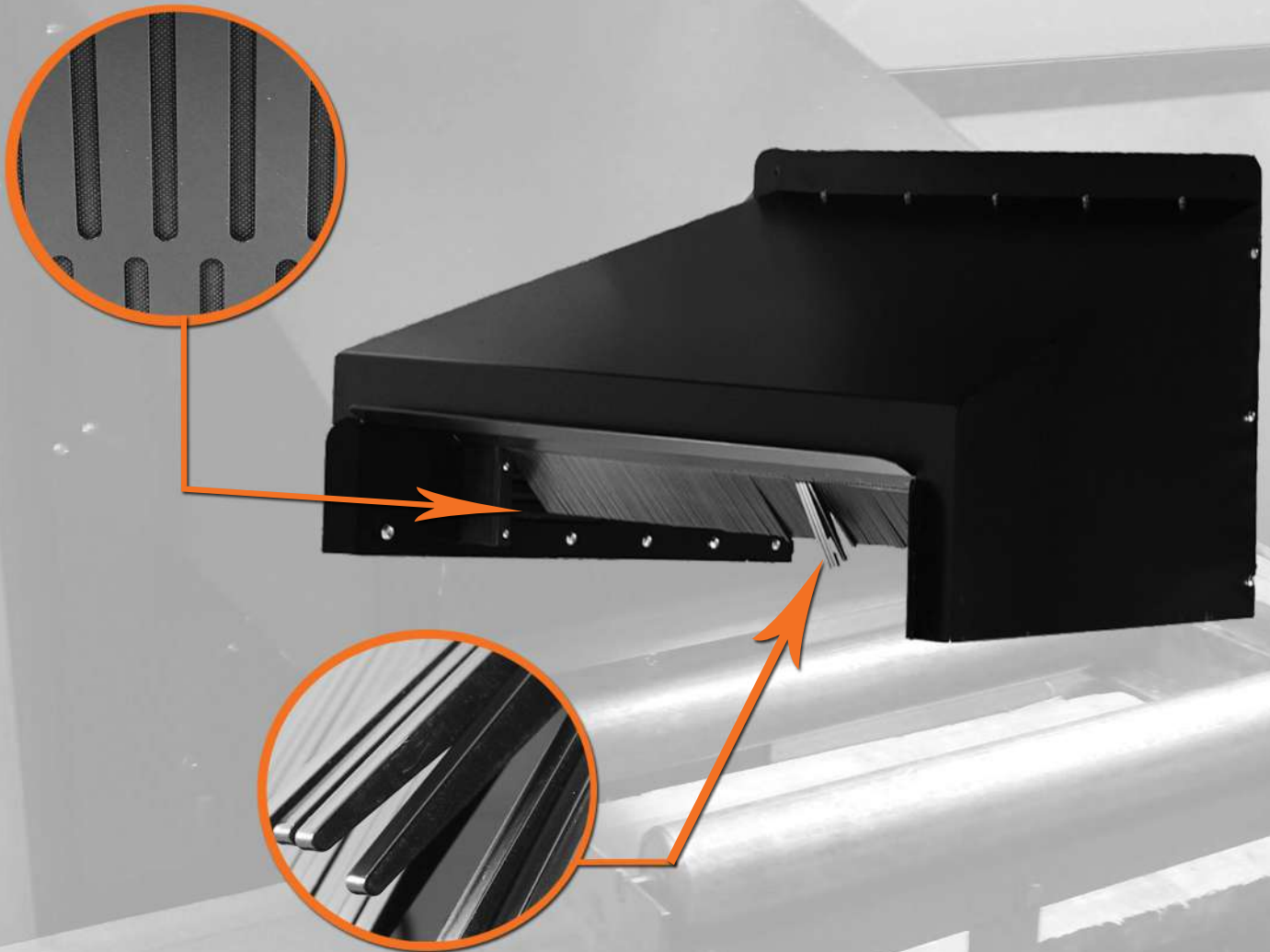
// WHY CHOOSE DECIBEL ENCLOSURES?

- ✓ High quality and durability
- ✓ Modern and appealing design
- ✓ Broad range of performance levels
- ✓ Versatile modular constructions
- ✓ Simple to install, disassemble and reconfigure



THE CHOFF-KA[®] SILENCER

The acoustic silencers are implemented in the design of our industrial enclosures in order to reduce the noises transmitted via the openings required for the normal operational work of the machinery and to achieve an acceptable noise level within industrial premises.

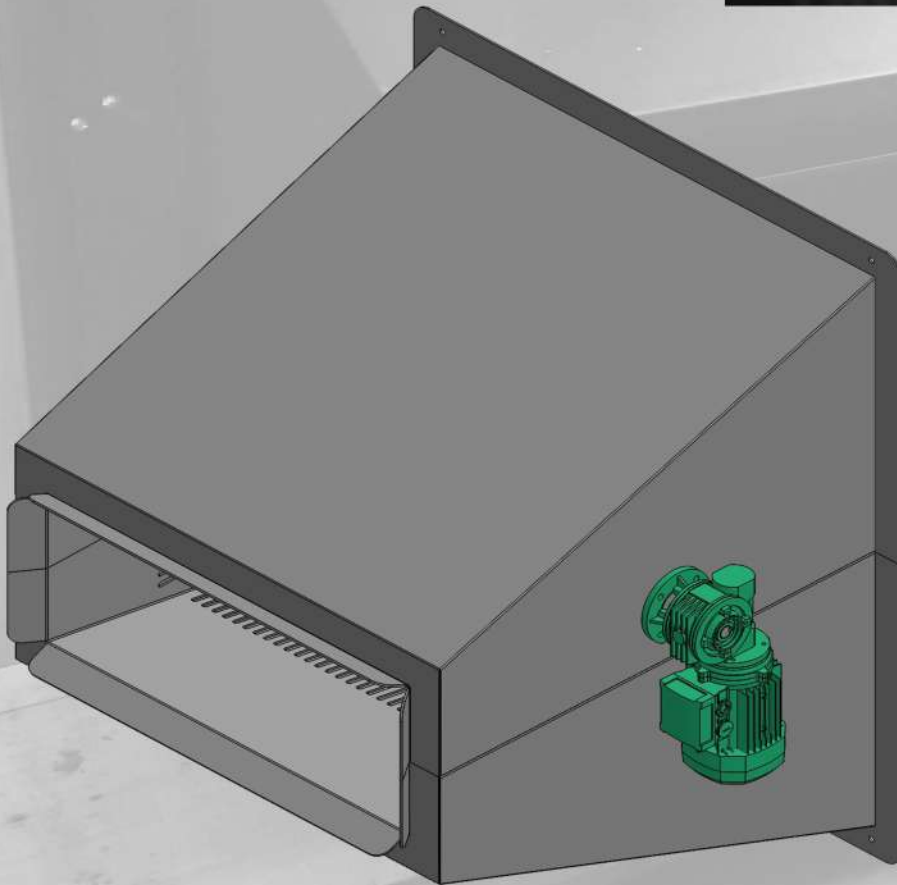


It is often the case that for every enclosure a different type of silencer is required, not only in terms of acoustical treatment of specific critical frequencies, but also to cover the needs of the client, so that the usual working practices with the machinery are not disturbed. Additionally, the design of the silencers takes into consideration factors like air volume flow and back pressure to avoid causing an adverse effect of the industrial process. Our custom-work opportunities in the range of insulation, absorption, shape, dimension and finish are broad.

This allows **DECIBEL** to offer a good solution to practically any noise pollution for existing as well as new installations. Generally, a noise reduction of 15 to 25 dB is easily achievable depending on the type of silencer and distance to the receiver.

THE NEEDLES

In the interest of achieving supreme noise reduction from the silencer's openings, **DECIBEL** has developed a steel mechanism on the beginning of the silencer as a means to eliminate the open area and therefore the noise transmission, but at the same time still offering access to the enclosed machine. The main idea of choosing steel instead of the conventional rubber is providing better noise reduction thanks to the bigger mass and the much greater wear resistance of the material.



THE ELECTRICAL MOTOR ROLLER

Our latest successful design implementation, which is now applicable as an option to any of our custom silencers, is a motor-powered roller positioned in the silencers, taking over the supplies coming from the assembly line and automatically redirecting them to the machinery intake. The roller is typically made of steel with a wide range of surface finishes according to the client needs and type of supplies incoming. The type of electrical motor also vary in a wide range, based on the power needed to run the line. Motor powered conveyors are widely used in many fields to help finish the auto-production, making it easier and fluently save labor cost.