

training systems for

MILITARY and SPECIAL FORCES





MILITARY

Efficient training for special forces and military sports team.



LISEPRO is the most experienced vertical wind tunnel manufacturer for the army. We have been working with military clients for more than 15 years. Our unique product range includes open-air, wall-to-wall, and recirculation tunnels, which allows meeting different training and budget requirements



ARMY DEVELOPMENT

Professional paratroopers are an essential part of every army. So far, the field training of qualified paratrooper units has been high-risk, complex, time-consuming, and expensive.

A vertical wind tunnel provides free-fall conditions in a controlled environment. The use of a wind tunnel significantly improves the safety of training, skill advancement, time and cost-efficiency.



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MENTAL SKILLS

In most cases, skydiving is more about mental than physical capabilities. From managing fear of jumping from airplanes to focusing on very specific tasks, it requires strong and specific mental skills. These skills can be efficiently trained in wind tunnels.

- * Fear management and stress resistance.
- * Plane exit training with LISEPRO B.A.S.E. jump chamber.
- * Training of extreme scenarios during day or night time.
- * Time management training for HALO & HAHO jumps.
- * Decision making under stress.





PHYSICAL SKILLS

The more you progress on the path of skydiving, the bigger the importance of physical skills. Workouts in vertical wind tunnels can be performed for unlimited flight time in a safe environment and any weather conditions.

- * Basic and advanced free-fall skills training.
- * Advanced physical coordination, vestibular system, and reaction time.
- * Team synergy and communication in free-fall.
- * Full-gear skydive simulation



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EFFICIENT COACHING

LISEPRO tunnels are equipped with cuttingedge airflow and video management systems. This allows learning from mistakes and improving overall skills in a time-efficient manner.

Multiple cameras from different angles are filming every flyer. It is possible to analyse performance instantaneously, as the video capturing system ensures flyer identification, tracking, and playback options.

WE OFFER



Vertical wind tunnel

Vertical wind tunnel technology (existing model or custom built tunnel), and its installation outdoors or indoors.

Special training for instructors

Full instructor training course to ensure safe and professional tunnel operation.

IT system

Our specially designed IT system for the military includes flyer flow management, video recording, and video analysis.

Flight equipment

Full range of flight equipment for flyers including flight suits, helmets, and goggles.

Technical training

Technical manager training for independent operation and maintenance of the wind tunnel.



LINEUP





Туре	Recirculating Double	Recirculating Single
Infrustructure c	ost 1,5 - 2,5 million €	1- 2 million €
Sizes	14+,17 or 21 feet	14+, 17 or 21 feet
Outright Ventila	tion YES	YES
Active Cooling	Optional	Optional
Noise level	50 - 55 dB	50 - 55 dB
Wind Speed	270 - 300 km/h	270 - 300 km/h
Speed Reduction	on up to 2,15	up to 2.15
Glass height	8 - 18 m	8 - 18 m



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Tunnel maintenance and monitoring

Optional on-site/online operational and technical support as well as regular maintenance visits.



Flight Chamber



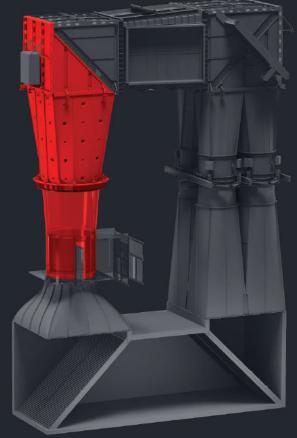
Wind tunnel's Flight Chamber is what visitors think of as a wind tunnel itself, a space where people fly. Striving to deliver highest levels of safety and comfort to fliers we rethought every part of the flight chamber

Revolutionary safety net made of low-drag steel cables absorbs the impact force where it's needed the most - at the outer edge of the flight chamber Padded entrance prevents traumatic injuries even during high-speed collisions and maintains even airflow in the chamber.

TT signature conical glass frameless section, allowing for twice as much visible flying space with no compromise on safe speed reduction*

Perfectly round multilayer noise-absorbing glass chambers and noise-free experience for spectato

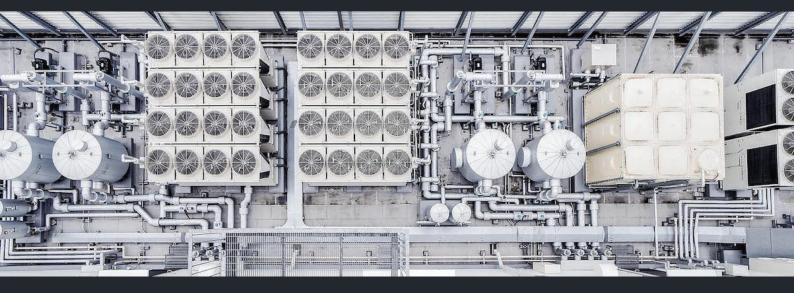
Chamber height 24 m 79'
Glass height 8 m 26'
Minimum diameter 4.5 m 14'9"
Airspeed reduction * 2.12×



^{*} Critical safety feature eliminating high-speed accidents possibility. Speed difference between the levels of Safety net and below 1-st turning vane

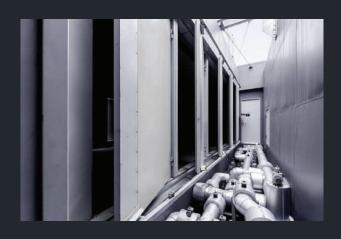


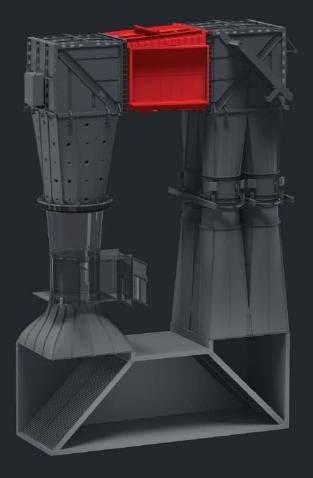
Climate Control



Ventilation

Our wind tunnels are equipped with outright ventilation that provides effective air exchange and airflow cooling without additional costs associated with HVAC appliance. Ventilation louvers replace up to 20% of circulating airflow volume with fresh air efficiently cooling the system in outside temperatures below 30°C leading to total energy consumption reduced by up to 30%.ne





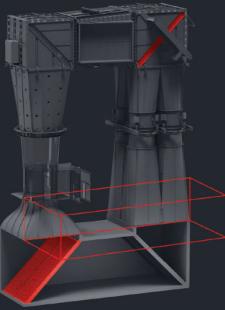


Active Cooling System



LISEPRO cooling system relies on uniform airflow cooling via turning vanes assembly. Unlike other wind tunnel technologies in our tunnels cooling fluid is supplied from centralised HVAC systems directly in to the hollow turning vanes acting as heat exchangers. This approach eliminates turbulence occurring if cooled air is injected in the airflow with conventional style systems.

Wind tunnel with cooling system can be operated in any extreme climates and virtually inaudible from the outside making it possible for the facility to be located in close proximity to residential areas or any others where outside noise emissions are undesirable.

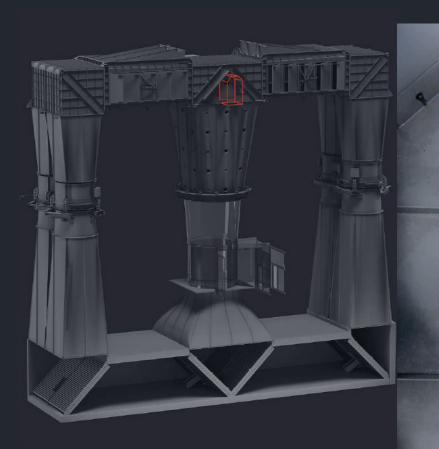




For special purpose and extensive psychological training LISEPRO's wind tunnels may be equipped with severe weather simulation system, introducing heavy rain, low visibility, humidity and lightning within the flight chamber. In combination with advanced cooling system and aircraft hull installed at the BASE-chamber these systems will prepare flyers for extreme weather conditions.



Additional Options



BASE Jumping Chamber

Located at the top of a wind tunnel so-called BASE-chamber is an essential tool for professional skydiving training, technically it is another entrance to the flight chamber making it possible to practice controlled aircraft exit. Due to 2x windspeed reduction at the door

LISEPRO's BASE-chamber is the only one suitable for training with stabilising parachute significantly improving safety of such training. On demand, base chamber may be decorated with aircraft interior and equipped with comprehensive set of automations and safety systems



The future is in the skies!







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