

TECHNICAL SOLUTIONS

Aspiration

Dust capturing

Air cleaning

 **SovPlym**



30 YEARS OF KNOWLEDGE



... We are 30

We were the first in the USSR to start the production of local exhaust ventilation systems for industrial companies. At the outset, most of our team consisted of young employees from the Occupational Health and Safety Institute.

We had to overcome many obstacles, including the collapse of the USSR, financial crises, market instability, and bureaucratic roadblocks. The company put its soul and efforts in the training of qualified personnel. We improved processes, expanded our production facilities, and opened new offices in Russia and abroad.

This helped us become leaders in this market segment in Russia. Over the years we have grown manifold in a professional, technological, industrial, and geographic sense. Today, our capabilities allow us to solve almost any problem in the area of industrial ventilation and air purification at the modern level and in compliance with international quality standards.

We achieved success in cooperation with many foreign partners, leaders of the global market, because initially our company had been established as a joint venture with an excellent Swedish company. We learned a lot from them, and we tried to adapt their experience and knowledge to the Russian environment. I would like to extend our special gratitude to our customers who have trusted us to handle their environmental and OH&S issues at their companies, and we did so, with their cooperation.

The result of 30 years of hard work is tens of thousands of successfully implemented projects, vast experience, professional knowledge, and high qualifications of our large team. These results multiply our strengths and make our progress natural and meaningful!

Director General of
SovPlym Ltd.

A. M. Khanin

A handwritten signature in black ink, appearing to be 'AM Khanin', is written over a light grey background.

WWW.SOVPLYM.CO.IL

Yesterday... 1989



SovPlym Ltd. production team



Production launch



Signing a cooperation agreement

FOUNDED IN 1989

SovPlym was the first company in Russia to start a series production of local exhaust ventilation systems for various production processes.

SovPlym was one of the first joint ventures with foreign investments in Leningrad.

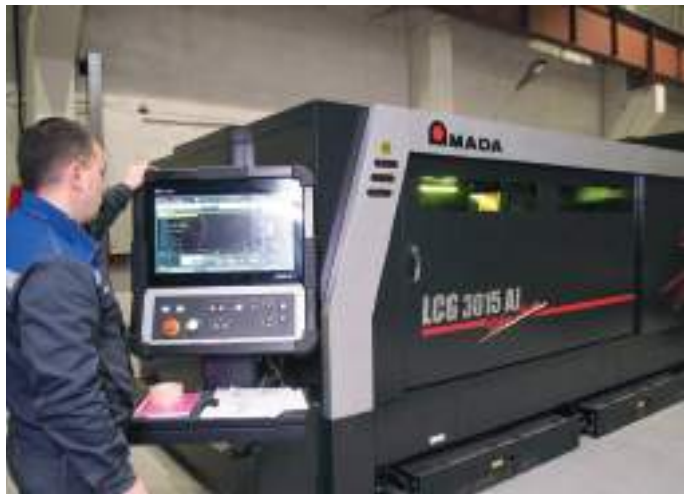
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30 YEARS OF KNOWLEDGE

Today... 2019



SovPlym Ltd. production team



Blank section



Paint section



Mechanical assembly section



Warehouse

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Product development



Products are being developed in **SolidWorks** 3D design framework using aerodynamic flow calculation module **Flow Simulation**.

Each product undergoes the following stages:

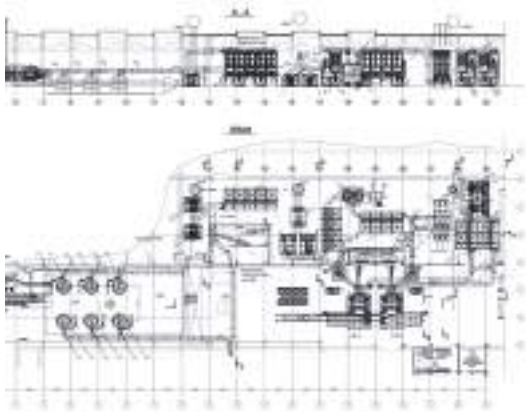
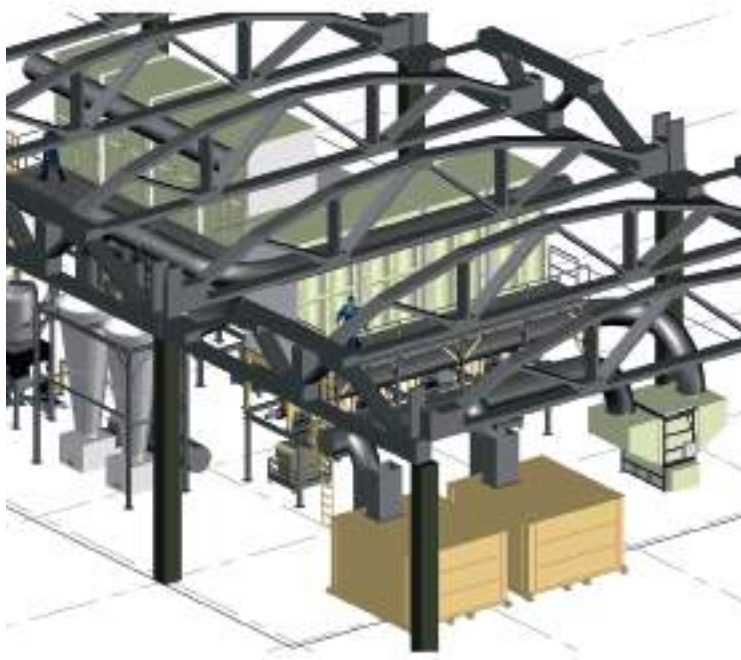
- 3D modeling;
- calculations of strength and aerodynamics;
- release of work design documentation;
- issuance of operational documentation;
- laboratory testing.



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30 YEARS OF KNOWLEDGE

Facility design



SOVPLYM LTD. PERFORMS ALL SYSTEM DESIGN WORKS:

- ventilation;
- aspiration;
- dust extraction;
- dust and gas treatment.

1. PRE-DESIGN AUDIT

- inspecting a facility;
- collecting input data;
- drafting a technical assignment

2. DESIGN:

- development of design documentation outlining basic technical solutions.
- development of work documentation with basic sets of drawings and specifications of equipment, products and materials required for construction and installation works.

We use the following modeling software:



AUTODESK
AUTOCAD



3DS MAX®

3. OBTAINING APPROVALS TO PASS EXPERT ASSESSMENT.

4. DESIGNER'S SUPER.

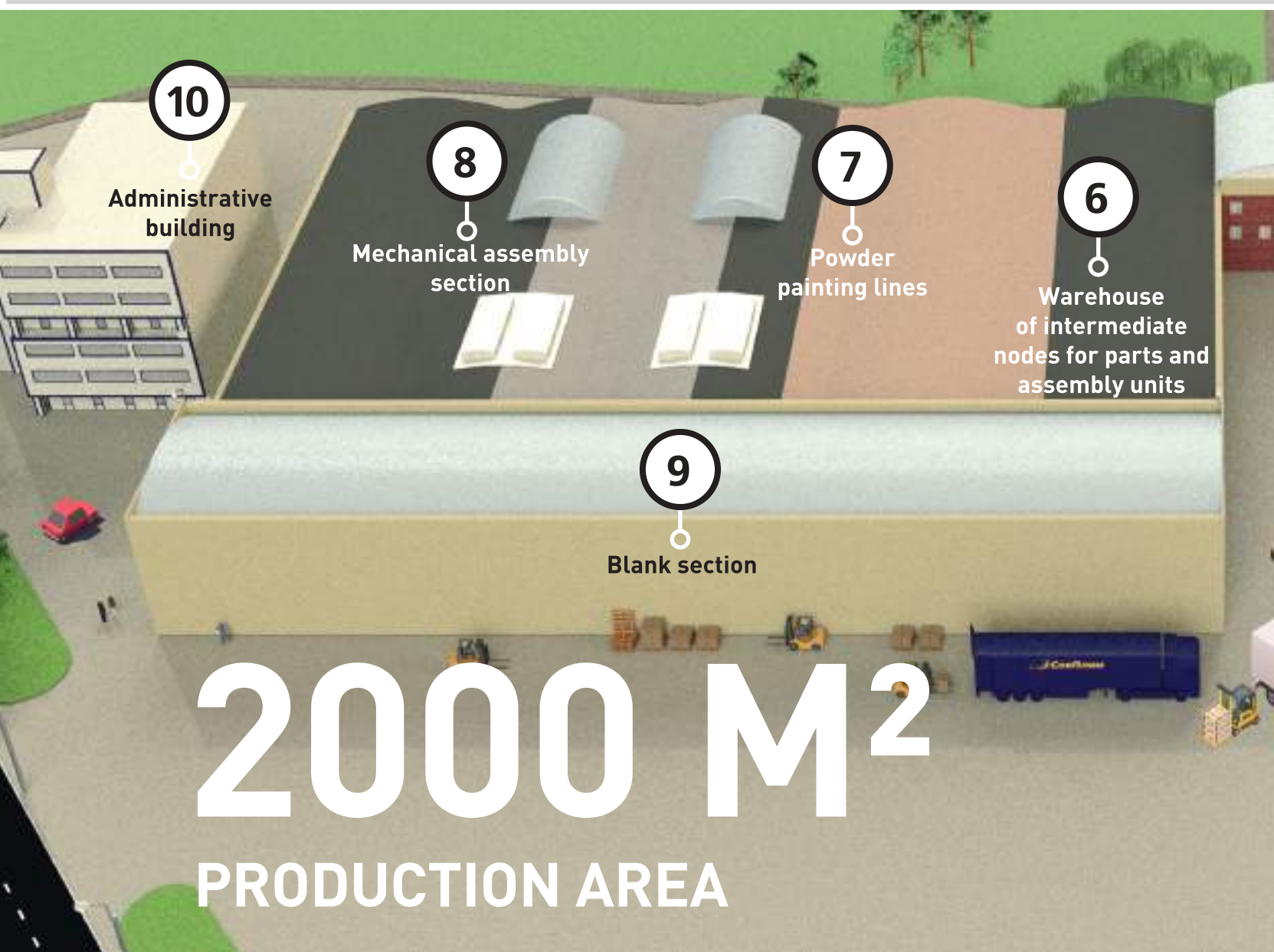
SovPlym Ltd. is a SRO member.

SovPlym Ltd. specialists are listed in the national registry of the National Association of Researchers and Designers (NOPRIZ).



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Manufacturing capacities



The blank production is based on machines made by Japanese company **AMADA**, the world-known leader in equipment manufacture for sheet metal processing. Laser cutting machines and a coordinate turntable press are used to make parts of a sheet up to 16 mm thick, with a processing precision of ± 0.1 mm, and high-quality surface. Highprecision machines of well-known companies such as **Haco**, **Deka** and **Finn Poower** are used to chip, bend and cut metal.

Welding equipment made by such companies as **Air Liquide Welding**, **WECO** and **Kemppi** is used for welding, providing firstclass weld joints, and only certified Western consumables are applied.

Three semi-automatic powder painting lines use paints of wellknown Finnish company **Teknos** and Dutch company **AkzoNobel**, which provide reliable polymer coating, long-term service life and good appearance of products.

30 YEARS OF KNOWLEDGE



Paint is sprayed by electrostatic method ensuring top-quality coating of basic parts. Coating pistols of Swiss company **Gemma** are used for spraying. These lines allow to paint products any color up to 7 m long.

There is strict incoming inspection of assemblies ordered and consumables used in the production. All manufactured products undergo regulatory tests for compliance with quality standards in own test laboratory.

Production is based on international standards, the quality management system is certified for compliance with ISO 9001:2015.

MAIN PRODUCT GROUPS



Local extraction ventilation systems and air cleaning filters



Plug-n-play solutions for educational facilities



Oil mist filters



Various types of industrial hoses



Exhaust gas removal systems for emergency and rescue team garages



Exhaust systems for vehicle service center, workshops and garages



Workplace protection



Gas, plasma and laser cutting machines



Noise reduction cabin at sheet metal stamping work place



Air cleaning systems for gaseous pollutants



Aspiration systems



Gas turbine filters

SOLUTIONS FOR WELDING PROCESSES



- Removal of welding aerosols directly from the point of allocation
- Cleaning and returning the air back into premises
- Ensuring MAC of hazardous pollutants in working area
- Decreasing the expenses for air conditioning during hot and cold seasons
- Decreasing the environmental pollution



Extraction system with centralised fan for one or two welding work places



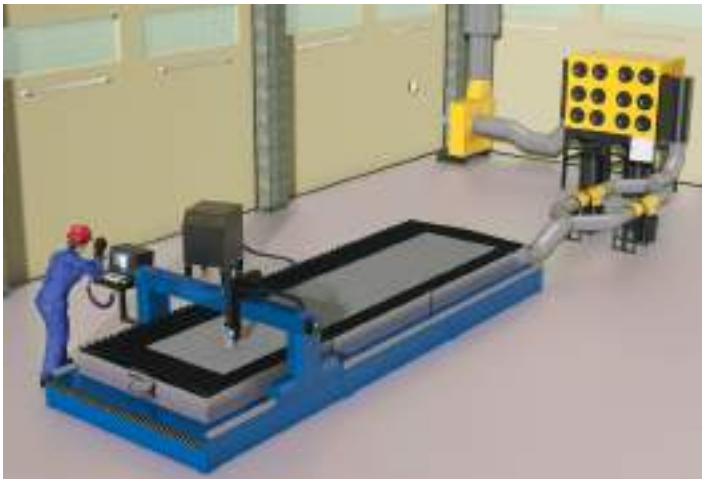
Extraction system for long scaled work



Extraction system with centralised fan, filtration and returning the clean air back into premises



Non standard solution for removal of welding fumes



Plasma and laser cutting solutions



Extraction system for welding in confined spaces

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WELDING SOLUTIONS FOR EDUCATIONAL CENTERS



- Ready made sets of equipment for training – extraction arms with air cleaning filters
- Welding tables with integrated system of removing of welding aerosols for students
- Demo table for teacher, covered with toned glass walls on the perimeter, with self cleaning system of capturing of welding aerosol
- Turn key project on equipping of welding labs, classes, schools etc with filtration and extraction equipment, welding booths made of noise reduction panels or mobile protective screens



Set of extraction arms with air cleaning filter for welding classes



Sample of installation of local extraction equipment in training center



Welding table with screen made of matted glass for the teacher



Educational center, equipped with welding tables with integrated air cleaning system, installed in special noise reduction cabins



Work place equipped with welding table with integrated air cleaning system and set of protective noise reduction panels

BASIC SOLUTIONS FOR NON-STATIONARY WORK PLACES



Fast equipment of non stationary work places with mobile filters.

Large variety of models for different tasks:

- Self-cleaning filters for welding aerosols and dust
- Filters with accumulative cartridges for cleaning the air from low concentrations of soldering fumes and dust
- Electrostatic filters for welding fumes from oily metals
- Extraction arms and flexible hoses for all mobile units



Mobile self-cleaning unit DCSC-M-2 with high capacity for large concentrations of fumes



Mobile unit EMK-1600c with extension hose and magnetic nozzle



Mobile mechanical unit DCA-M-1200 with replaceable cartridges on soldering work place



Mobile units DCSC-M-1 and DCSC-M-2 on temporary welding work places



Mobile unit DCA-M-1200 with replaceable cartridge in renovation workshop



Mobile electrostatic units 2EMK-1600c with two extraction arms in training facility

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SOLUTIONS FOR LARGE SCALE WELDING APPLICATIONS



Push-PullTM© and **Diluter** systems were developed for decreasing the overall concentration of pollutants in the total volume of welding work shop, preventing accumulation of welding fumes in work zone.



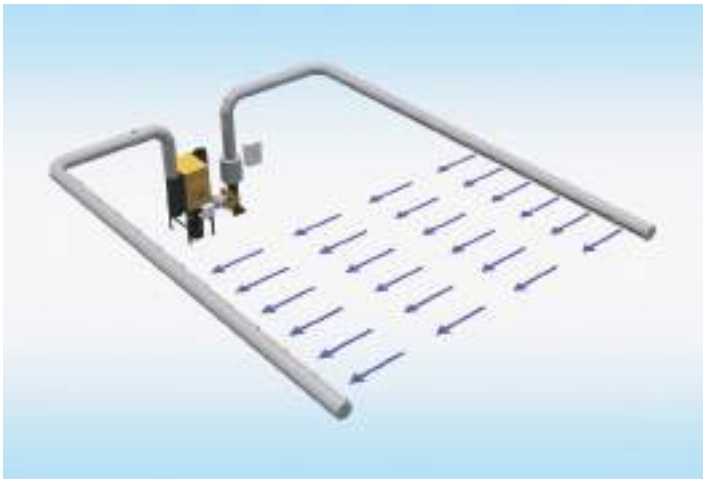
Diluter system



Modified Diluter system



Sample of parallel Push-Pull system with DCSC-S filter

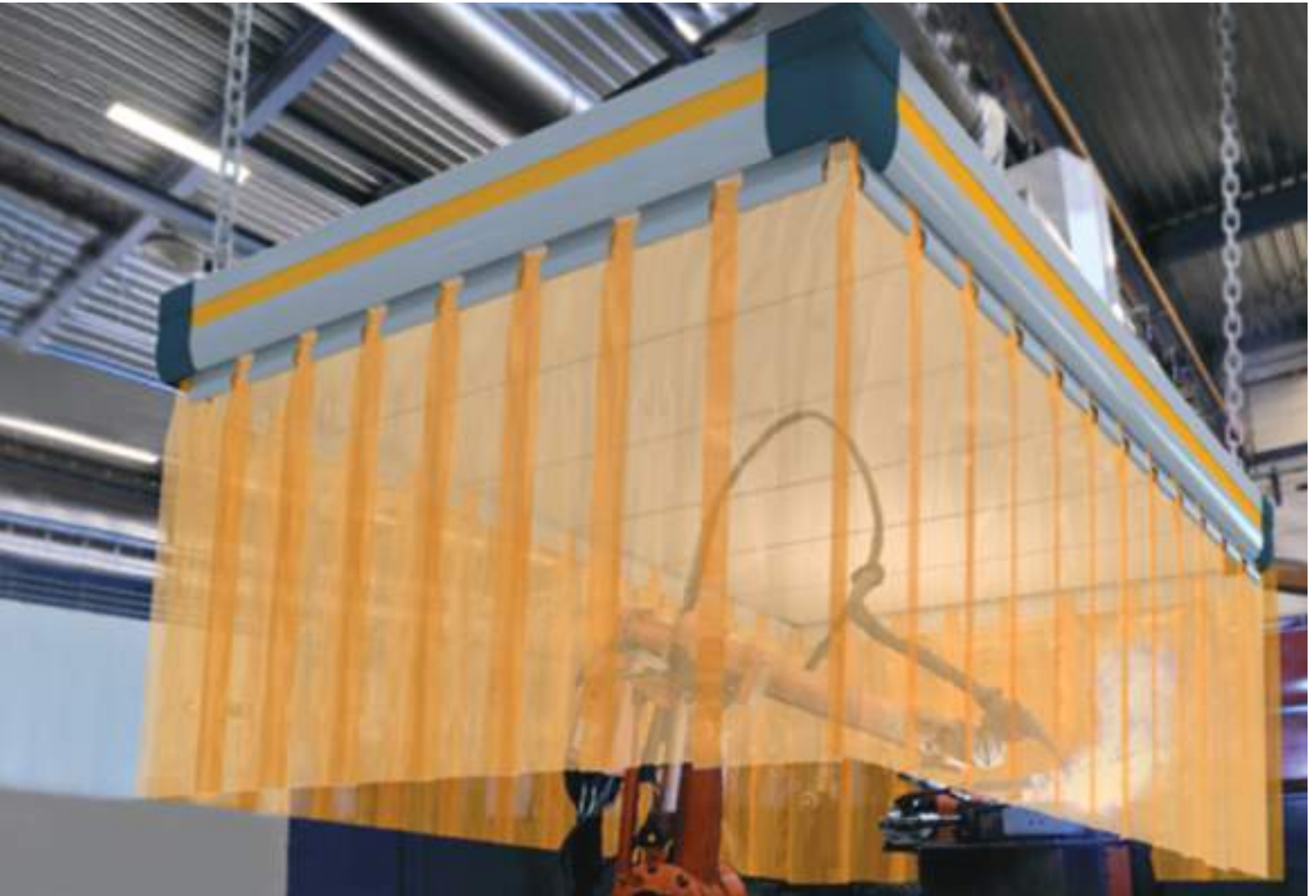


U-shaped Push-Pull system

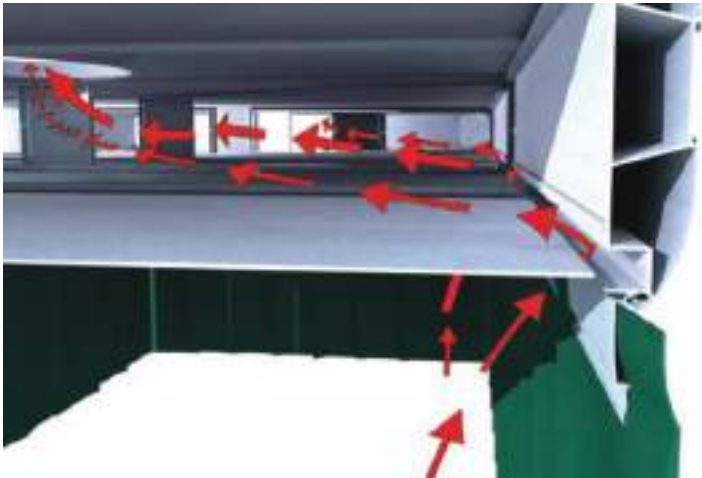


Parallel Push-Pull system in welding workshop

SOLUTIONS FOR ROBOTIC AND MANUAL WELDING AND CUTTING



- Specially developed for robotic welding and cutting workplaces
- Modular hood is well suitable for localization of dust and smoke at manual and semi-automatic welding and cutting
- Modular design of hoods allows covering large working areas
- Hoods are being supplied with colored or transparent protective stripes, which can be easily cut to necessary length and fixed into the hood with special clamps, which are easy to detach for maintenance
- Hoods are being connected to an external fan and filtration unit with top connection ducts
- Modular hood may be installed on special support legs or hanged to the ceiling with integrated corner hooks



Air capturing through side slot around the perimeter of the hood



Ceiling and roof of the hood are being assembled from special 0.5 m wide panels



Hood for welding work place installed on floor supports



Hanged hood for welding work place



Samples of installation of extraction modular slotted hoods for wedling robots

SOLDERING SOLUTIONS



- Removing of soldering fumes and various chemical vapors in laboratories
- Wide variety of compact table top extraction arms:
 - various diameters, reach radius and capacity
 - various colors and material, including plastic and stainless steel
- Large variety of stationary filters
- Mobile filtration units with low noise level for one or two work places



Sample of connection of table top extraction arms to extraction system



Table top extraction arms connected to DCA-P-300 filters with low noise level



Soldering work place with table top extraction arms, connected to wall mounted mechanical filter



Soldering work shop, equipped with large number of table top extraction arms



Short extraction arms, painted in white



Sample of a single soldering work place

SOLUTIONS FOR GRINDING, POLISHING AND ABRASIVE PROCESSING



- Removing of dust directly from the source of its formation
- Providing comfortable working conditions
- Cleaning of air and returning it to the premises



Welding-grinding table with vertical suction panel



Welding-grinding table, connected to a filtration unit



Dust removal from a polishing machine



Removing of duct from CNC machine



Welding-grinding workshop, equipped with centralized system of removal and cleaning of polluted air



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METAL PROCESSING SOLUTIONS



Removing of oil mist and liquid coolant directly from the machine:

- Providing MAC in the working zone
- Providing safe working conditions and lowering risk of injuries
- Preventing possible fires and breakdowns of air conditioning systems
- Saving resources due to collection and returning of cooling emulsion back into the working process
- Prolonging of service life of technological equipment



Individual MM filters for CNC machines



Modular oil mist filter



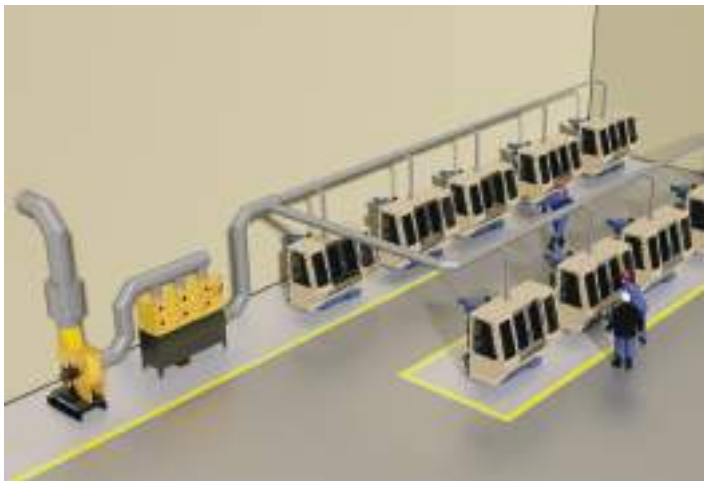
Removing of oil mist from metal processing center



Workplace equipped with electrostatic ESP filter and extraction arm



CNC centers, connected to individual oil mist filters



CNC centers, connected to centralized air cleaning system

THERMAL CUTTING OF METALS



- 30 years of experience in thermal cutting
- Global brands of the equipment
- Turn key projects
- Modern programmed control centers
- Engineering and service support
- 24 months warranty period



Vanad Kompakt laser cutting complex with fiber IPG laser and two replaceable automatic tables



Vanad Kompakt Laser with filtration unit



Vanad Bluester with Kjelberg plasma and filtration unit



Vanad Kompakt with Hypertherm plasma and filtration unit



Gas cutting system Vanad Arena with Hypertherm plasma and filtration unit



Vanad Mira with Hypertherm plasma and filtration unit

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VEHICLE EXHAUST GAS REMOVAL SYSTEMS



- 100% removal of exhaust gases directly from the exhaust pipe
- Health protection for workers
- Protection of sensitive equipment and computer systems from soot and chemicals
- Savings due to reducing the capacity of heating and ventilation systems
- Providing correspondence to legal norms and standards
- Comfortable working conditions



Example of using ARST straight rail system for stationary workplaces in car workshop



Using ARST straight rail system for following the vehicles during movement



Straight rail systems ARST for long parking and servicing bays for bus garage



Example of installation of motorized hose reels ARM with centralized fan and automatics system



Solution for large car service stations with big number of workplaces



Installation of exhaust reels ARS for garages and parkings of special trucks

EXHAUST GAS REMOVAL SYSTEMS FOR FIRE AND EMERGENCY VEHICLES



- Automatic systems, providing self disconnection of gaz intake nozzle from the exhaust pipe of the vehicle when leaving the garage
- Removing of exhaust gases when vehicle is moving withing the garage
- Correspondence to rules of labor protection for fire fighting brigades
- Simple installation, minimum maintenance and low maintenance costs
- Preventing professional diseases due to presence of exhaust gases inside the premises



Automatic ARSR systems for fire fighting vehicles parked one behind another



Automatic ARSL systems for fire fighting vehicles with single parking slots



Installation of ARSL systems in fire depo with 4 vehicles



Special pneumatic gas intake nozzle with automatic disconnection when vehicle is leaving the garage



Installation of electrically driven exhaust reels ARM with exhaust nozzles, designed for military vehicles



Solution with rail systems for military vehicle garage

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AIR CLEANING SOLUTIONS FOR VARIOUS INDUSTRIES



- Complex solutions for air cleaning systems for forging industry
- Development of dust capturing systems for preparation stages of various industrial manufacturings
- Aspiration systems for dropping, crushing, drying of bulk materials
- Mobile and stationary systems of vacuum dust cleaning for various industries
- Centralized vacuum systems for collecting of bulk materials in different premises



Aspiration systems for coal dust from wagon flipping station and drop places of coal conveyors with explosions protection



Material aspiration in mixing and dosing units

Conveyor's aspiration



Aspiration systems for drying ovens, forging e.t.c.

SOLUTIONS FOR DUST CLEANING AND TRANSPORTATION OF BULK MATERIALS



Stationary systems for vacuum dust cleaning are the most modern way for cleaning industrial facilities and have a number of advantages:

- No secondary dust during dust collection process
- Cleaning operator does not manage transportation of collected material to storage or back into the technological process
- Vacuum system provides maximum possible speed of cleaning, which is not possible to reach at other alternative ways of cleaning
- Vacuum equipment is very simple and reliable.
- Maintenance (1-2 times per year) can be done by any technician



Explosion protected filter-separator for stone coal



Filter-preseparator for metal abrasive dust



Manual cleaning of premises



High vacuum



Dust removing from hand held tools at polishing process on the basis of stationary vacuum system



General factory cleaning on the basis of stationary vacuum system

COMPLEX SOLUTIONS FOR SAFE WORKING ZONES

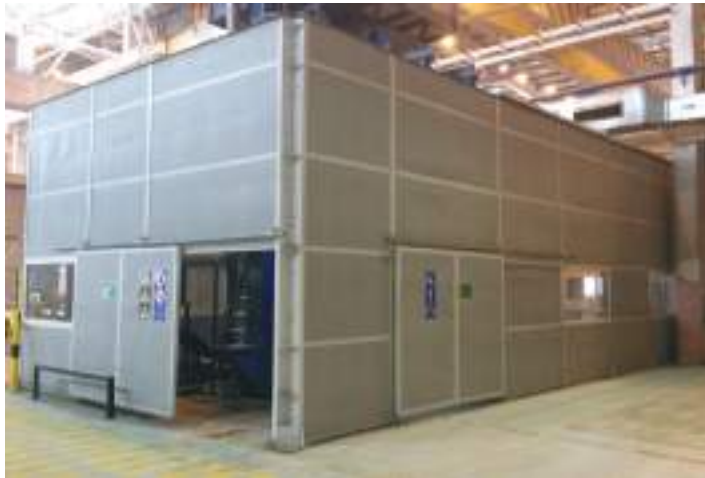


Organizing working zones with protection of staff from dust, noise, radiation, welding splashes with following equipment:

- Noise reduction panels, hoods, cabins
- Welding curtains, stripes, screens
- Transparent curtains and stripes for grinding and polishing
- Thermal resistant blankets



Covering the welding work area



Noise reduction panel at sandblasting workplace



UV protective curtains for welder's workplace



Robotic welding work place with covered with UV-protective curtains and Push-Pull system



Protective curtains with Push-Pull system



Grinding and polishing workplace

SOLUTIONS FOR AIR CLEANING FROM GAZEOUS POLLUTANTS



- Protection of electronics from corrosive gases
- Preventing of toxic spillages
- Protection from unpleasant smells
- Protection of museum collections

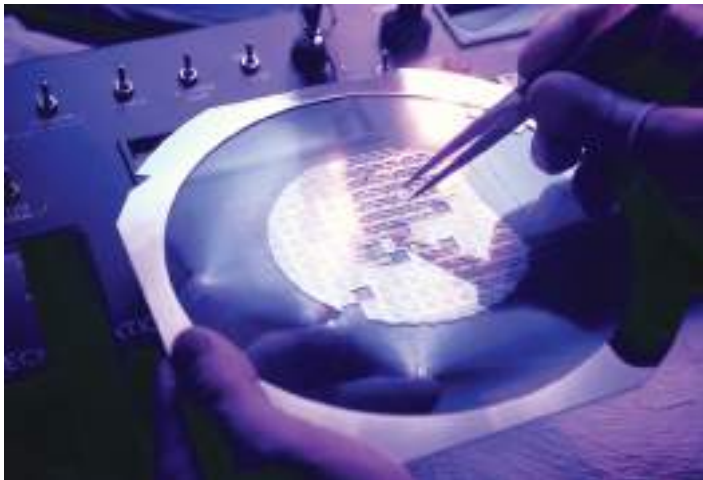




Protection of electronic equipment from corrosion. Standard ISA S71.04-1085



Environmental control systems



Providing clean air for "clean rooms"



Protection of compressor equipment



Cleaning of gases



Preventing of toxic spillages

CERTIFICATES




Management systems of SovPlym corresponds and is confirmed by the international certificate ISO 9001:2008



SovPlym products are certified with customs alliance



SovPlym products have European certification 



SovPlym Ltd has permissions for project, installation and construction works



Test laboratory of SovPlym is among registered ones of the Federal verification agency

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○ Branches

● Dealers



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