

ASP

ADVANCED SYSTEMS OF PROTECTION

PROTECTION COVERS
FOR INDUSTRIAL ROBOTS

OVERCOME — YOUR CONSTRAINTS —



www.asp-protection.eu





ASP
ADVANCED SYSTEMS OF PROTECTION

Specialist in manufacturing protective covers for industrial robots.

After 37 years of expertise, ASP offers protection solutions for over 1,000 models of robots from more than 90 brands, including Kuka, Fanuc, ABB, Yaskawa, Kawasaki... across Europe. Our unparalleled know-how and technical expertise in designing, manufacturing, and installing protective covers for industrial robots and welding clamps make ASP the specialist in the field.

Our expertise

An innovative answer to the needs of industry



Made-to-measure-cover
Robot and associated equipment



Suitable technical textile



Optimised installation
Fitted hoops and fastener systems

unrivalled technical expertise to protect your robot, tailored to your industrial sector



Automotive Industry



Aerospace industry



Food processing industry



Forging



Home appliances industry



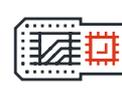
Defense industry



Building and civil engineering industry



shipbuilding industry



Atex (potentially explosive atmosphere)



Ceramic industry



Our specificity

. Tailor-made creation

ASP identifies physical, mechanical, and environmental constraints

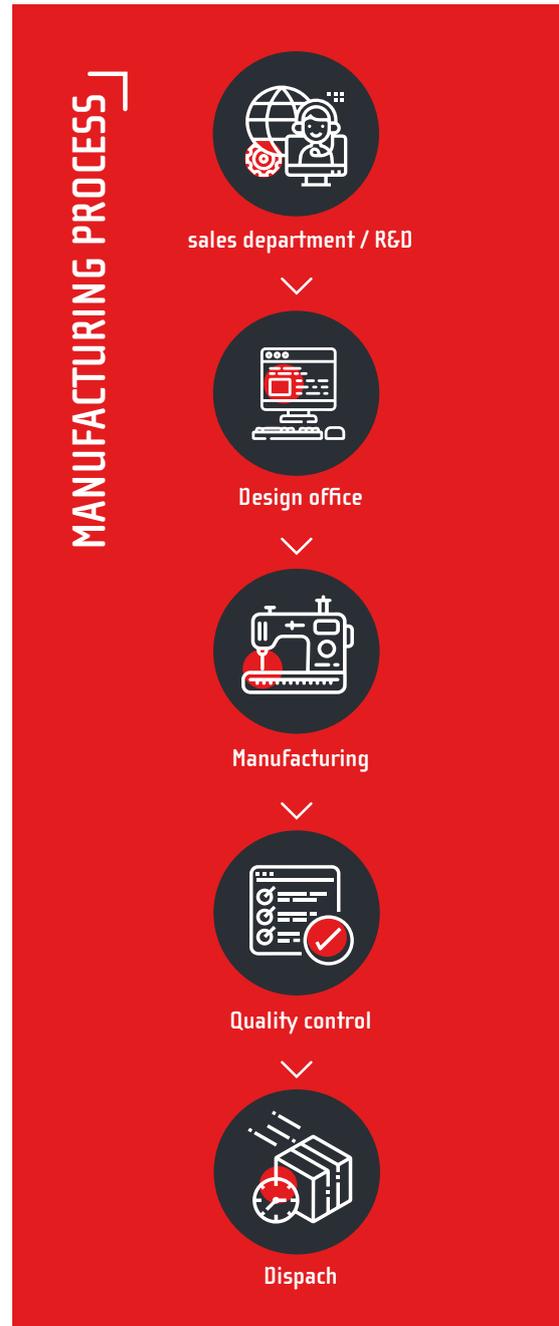
Such as robot model, onboard equipment, and analysis of your robot's cycles. Our technicians travel to identify dimensional constraints and provide personalized advice. Our design office incorporates environmental constraints (extreme temperatures, water, sand, molten metal, ATEX, painting, etc.) to offer you a custom protective cover perfectly tailored to your needs.



Our commitment to quality

ISO 9001 Certification

From the protection of several axes, to the integration of auxiliary axes, the solutions developed by ASP are modular. Sealed protection for washing booths, they can be pressurized for perfect robot protection. Throughout the manufacturing process and in compliance with standard ISO 9001: 2015; ASP applies extremely thorough raw materials inspection, traceability and production tool follow-up procedures inhouse. ASP is therefore in a position to adapt its production tool to the technical complexity and specific needs each request



From the customer's expression of requirements to the on-site installation of your covers, our technical-salesforce remains your single, key point of contact

Our services

. Research & Development

Analyse & design

Our departments develop textiles, as well as mechanical parts suited to the most hostile environments. Perpetually developing, ASP never ceases to broaden its range of high-performance technical fabrics in order to meet industrial constraints (RoHS, REACH, etc...) and the present-day safety requirements.

Our teams strive to simplify the installation and removal of our covers as much as possible to propose optimized solutions and cut your maintenance costs.

It is through multidisciplinary that our engineers and technicians invent the solutions of tomorrow.

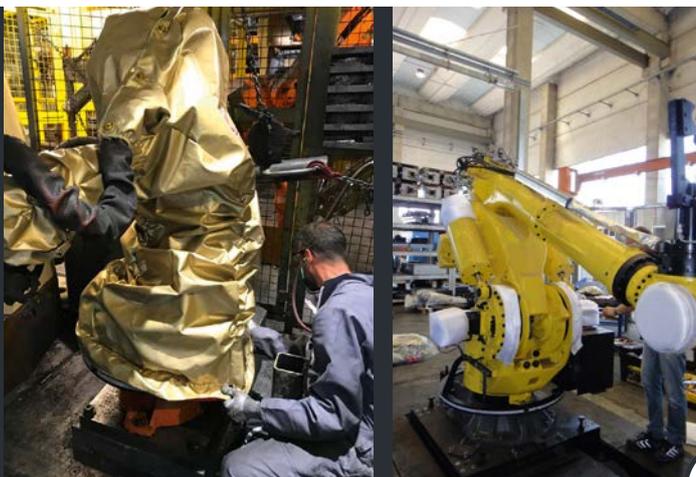


Testing and Prototyping

Our laboratory makes it possible to try out cutting-edge solutions to meet specific needs: prototyping, compliance with specifications, resistance to chemicals, compliance with the standards that apply for the customer, ventilation system sizing

Examples of specific technical fabrics guaranteeing perfect compatibility with all industrial processes:

- . **Halogen-free jacket**
TEXALIS / CARDEL / TIFFON GREEN
- . **Silicone free**
TELUPRO 22 / TORTOP B+ / TORCAL B+ / FPB
- . **ATEX paint certification**
TTY / TELUPRO 22 / TORTOP B+ / TORCAL B+ / TATEX
- . **Agri-food certification**
TEXPRAL B+ / T1A / FPB



. Optimised installation

Assembly

Our assembly service is provided by our qualified and specially trained assembly technician who is experienced in installing the jacket on the roof. This expert possesses in-depth knowledge of the specific elements of each robot brand, which means they can achieve a perfectly tailored installation.



We strongly recommend using our assembly service for the Protect + and integral ranges.

. After-sales service



95% reparability of covers
Savings of 70 to 90% compared with buying new



New order, identical and/or with adjustments
Possibility of upgrading your existing protection systems



Can be used on covers without ASP logo

ASP

ADVANCED SYSTEMS OF PROTECTION

PRESSOIL

The ASP solutions
to protect your robots

OUR RANGES

EASY

6

PROTECT +

7

INTEGRAL

8

ONESEAM

9

AUTOMOTIVE INDUSTRY

10



EASY

The Easy range proposes robust and effective solutions to prevent the premature wear of robots. These covers facilitate maintenance and make it possible to ensure equipment availability.

▶ YOUR CONSTRAINTS

- . Simple protection
- . Easy to install
- . Optimum effectiveness

▶ ENVIRONMENT

- . Occasional spattering
- . Filings / dust / cutting oil
- . Ambient temperature

Also available:
protection covers
for sheaths
and teach
pendants

▶ FORGING / CASTING



THE PLUSES

- . M1 class fire-retardant fabric
- . Seams protected if necessary
- . Withstands temperatures comprised temperatures comprised between 250°C and 1 200°C (depending on the exposure time)

▶ COLD CASTING



THE PLUSES

- . High-resistance multi-purpose fabric
- . Protected seams
- . Fast installation and removal

▶ MACHINING / CUTTING



THE PLUSES

- . Simple and fast solution
- . Good resistance to lubricants
- . Seams protected if necessary

▶ ALUMINIUM CASTING



THE PLUSES

- . High resistance to tearing
- . M1 class fire-retardant fabric
- . Aluminium, brass, magnesium resistant



Waterproof



Repairable



Washable



REACH



RoHS 2



In addition to the advantages of the Easy range, the Protect + range makes it possible to integrate the robot in a hostile process and facilitate its maintenance

▶ YOUR CONSTRAINTS

- . Installation without any special tools
- . Prevent infiltrations into the mechanism, notably for robots with a complex trajectory

▶ ENVIRONMENT

- . Aggressive process for the robot's mechanism
- . Intense spattering
- . Confined space

PROTECT +

▶ SANDING / SHOT PEENING



THE PLUSES

- . Specifically for shot peening
- . Assembly by cold-curing or heat-sealing
- . Tailored, special cover shapes
- . Covers that can be repaired and pressurized
- . Excellent abrasion-resistance, covers that can be ventilated and pressurized / special repair kit

▶ FST SOLUTION / HP DEBURRING



THE PLUSES

- . Solution for Ecoclean booths
- . Adapts to all robot cycles
- . Length adjustment during the first cycle
- . Patented

▶ MACHINING CUTTING



THE PLUSES

- . Resistant to cutting oils
- . Seams sealed with heat-sealed strips
- . Suitable for high pressures



Waterproof



Repairable



Washable



Double side coating



Waterproof with welded seams



REACH



RoHS 2



The complete Integral range offers solutions making it possible to robotize a process without a specific robot. The robot is completely isolated from its working environment.



recommended installation service

▶ YOUR CONSTRAINTS

- . A perfectly watertight solution
- . Ensure that the robot is working properly
- . Isolate the robot from the process

▶ ENVIRONMENT

- . Extreme temperature and/or hygrometry levels
- . Aggressive detergent and disinfectant products
- . ATEX requirements
- . ISO 3 or 5 clean rooms

▶ HP DEBURRING



THE PLUSES

- . Excellent resistance to cutting oils
- . Protected / sealed seams
- . High-pressure processes up to 20,000 Bars

▶ FOOD



THE PLUSES

- . Fabrics certified for food contact (FDA)
- . Cover washable on the robot
- . Covers that can be pressurized / ventilated

▶ CLIM – 40°C / +90°C



THE PLUSES

- . Multiple-layer insulating cover limiting heat transfers
- . Reinforced sealing
- . Axis 1 to 4 rotating bushings with built-in air flow
- . Specific air processing system with integrated dehydrator
- . Temperature information transmitted for the PLC

▶ ATEX



THE PLUSES

- . Zone 1 or 21 certifiable solution
- . Group 2 and 3 (A, B and C)- compatible conductive fabric
- . Sealed/protected seams

The OneSeam range is the simplest solution for protecting robots in aggressive environments. Its standard and adjustable design allows for optimal protection of the integrity of your production tools.

Available for the following models :

Universal Robot / Fanuc Crx / Doosan / Kuka / Yaskawa / Omron / Comau

▶ YOUR CONSTRAINTS

- . High mobility robots
- . Avoiding downtime
- . Infiltration in the axes of rotation

▶ ENVIRONMENT

- . Chips/ paint / welding spatter
- . Confined spaces
- . Standard cobots with few accessories.

▶ PAINTING

THE PLUSES

- . Single seam for extra waterproofness
- . Flexible fabric with close fit
- . One reference per cobot model
- . Atex paint compatible fabric

▶ WELDING

THE PLUSES

- . M1 classified fireproof fabric
- . Easy and quick installation
- . 70° rotations allowed from axis 2 to axis 5

▶ MACHINING

THE PLUSES

- . Available in Basic or Performance versions
- . "Slider" option to reduce friction on the axes
- . Attractive pricing
- . Available in stock depending on the model

▶ 2 FABRIC REFERENCES AVAILABLE



ATEX painting

BASIC COVER

Resists splashes at room temperature or when wet
(dust, cutting oil, cold chips, filings, etc.)



Fire class M1

PERFORMANCE COVER

Spark-resistant



VELCRO OPENING

For fast assembly and flexible output

SLIM FIT

For functional integration in a cramped environment



Waterproof



Washable



1 sided coating



Flexible



REACH



RoHS 2



ASP offers specific ranges related to the automotive industry, especially with solutions dedicated to welding and framing or guaranteed silicone-free for paint and body workshops.

▶ **YOUR CONSTRAINTS**

- . Complex cleaning
- . Limited intervention time
- . Silicone and fibre-free

▶ **ENVIRONMENT**

- . ATEX zone
- . Proximity to robots / vehicles
- . Sticky products (varnish, putty, etc.)

ROBOTIC PROCESS

▶ **MASTIC SOLUTIONS**



DISPOSABLE MASTIC COVER

- . Quick
- . Soft fabric
- . Fitting of flexible outputs



WASHABLE MASTIC COVER

- . Sealed seams
- . Cleaning possible with the cover on the robot
- . Repairable

▶ **PAINT SOLUTIONS**



DISPOSABLE PAINT COVER

- . Paint-resistant cover
- . Insulating or antistatic as required
- . 100% recyclable PE



WASHABLE PAINT COVER

- . Cleaning possible with solvent
- . Sealed seams
- . Several materials possible depending on size of robot



STRIPPING

- . Sealed cover with heat-sealed seams
- . Ventilated / pressurized solution
- . Cover in 1, 2 or 3 parts

▶ **ABSORBENTS SOLUTIONS**



ABSORBENTE PAINT COVER

- . Absorbent complex, no dripping
- . Sealed internal protection film
- . Several possible densities



SHEATH

- . Several possible widths
- . Delivered cut or in reels
- . Mist absorption
- . Reference / installation direction marking





▶ YOUR CONSTRAINTS

- . Fast access to the equipment
- . Spatter-resistant
- . Fire-resistant materials
- . Complex maintenance

▶ ENVIRONMENT

- . Confined space / Proximity of the equipment
- . Heavy spattering
- . High production rates

SPECIFIC PROCESS

▶ WELDING / BODY ASSEMBLY



CMC

- . M1 class fire retardant fabric
- . Halogen-free
- . High resistance to tearing
- . Excellent spatter resistance
- . Reinforced front face
- . Patented solution
- . Interchangeable panels



ARC WELDING

- . M1 class fire-retardant fabric
- . High resistance to tearing
- . Excellent spatter resistance

▶ VEHICLE COVER



CONFIDENTIALITY COVER

- . Plant car park storage
- . High-speed confidentiality
- . Low-speed confidentiality

▶ TOOL PROTECTION



PROTECTION

- . Tooling
- . Partial protection of the vehicle

The advantages of a well-protected robot...

Preservation of Investment

Protective covers act as a shield, safeguarding your robot from environmental damage and prolonging its lifespan. By avoiding high repair or spare parts replacement costs, you maximize the return on your machine investment.

Reducing of Maintenance Costs

- . A well-protected robot is less likely to break down.
- . Improved MTBF and MTTR.
- . Robot accessibility preserved for easier maintenance.
- . Durable and repairable protections to contribute to the longevity of the robot.



. 37 years of expertise

. Solutions available for more than 1 000 robot models

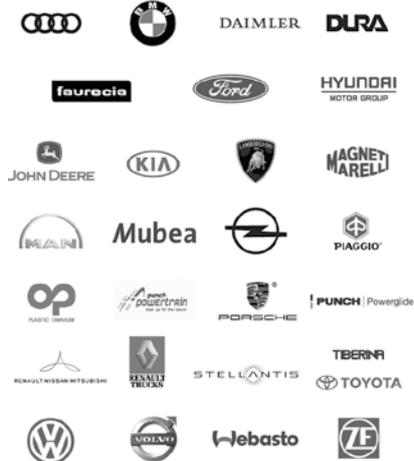
. 3 500 covers made every month

. 25 000 article meeting the most stringent requirements.

. 3 000 satisfied customers worldwide

Our references

AUTOMOTIVE



SURFACE TREATMENT



FOOD INDUSTRY



AERONAUTIC INDUSTRY



AUTOMATION



WELDING SECTOR



MISCELLANEOUS

