MEETING YOUR DEMANDS



Process know-how

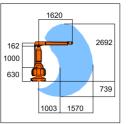
Consistently achieving an even glaze is difficult even for the most experienced worker. With an ABB glazing solution, you will get a perfect film build every time. Based on customer needs, we have developed standard packages designed for increased quality and consistency.

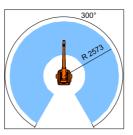
Tailored solutions

ABB Flexible Automation provides flexible tailored solutions within focused application areas. Based on function packages and standardised components, our systems utilize high performance coating robots. Supported by a special dosing device for glazing, our systems ensure accuracy and productivity.

Expertise and service always on your doorstep

No matter where in the world you operate, there will be an ABB Flexible Automation Centre nearby. offering engineering expertise, service excellence and manufacturing know-how. Our range of standard and customized services are designed to increase uptime and improve productivity, enabling you to concentrate on your core activities. We aim to be a key resource.





IRB 540

TECHNICAL DATA

P	E	C	П	FΙ	C	A	Т	10	N	R B	540

6				
3.5" MS-DOS format				
g range Max. speed				
0° 120°/s				
5° 120°/s				
5° 120°/s				
6° 360°/s				
76° 360°/s				
10° 700°/s				

ELECTRICAL CONNECTIONS

Supply voltage	3 ph, 200-600 V, 50/60 Hz			
Power consumption				
max.	4kVA			
with motors off	0.3 kVA			
Electrical safety	According to international standards			

PHYSICAL

Robot u	nit mounting	Floor				
Dimensions						
	Robot base	W 780, D 800				
	Cabinet	H 1280, W 800, D 550				
Weight						
	Robot unit	570 kg				
	Robot controller	240 kg				
ENVI	RONMENT					
Explosio	on protected	North America: Class 1, Div. 1, Group C& Japan: IIGT4, Europe: IIBT4 - pending				

Explosion protected	North America: Class 1, Div. 1, Group C& Japan: IIGT4, Europe: IIBT4 - pending				
EMC	Electro Magnetic Compatibility certificate				
Ambient temperature					
Robot unit	5-45°C				
Robot controller	5-52°C				
Relative humidity	Max. 95 %				

Degree of protection

Robot Unit IP 67 Controller IP 54

USER INTERFACES

Operator panel In cabinet or external Programming unit Portable, Joystick and Keypad Display 16 lines x 40 characters Graphical 240 x 320 pixels Distributed intelligence Configurable «On screen menus» Enable device, general mode stop, Auto mode stop, Test mode stop, Cabin interlock

MACHINE INTERFACES

512/512 Digital inputs/outputs Analogue inputs/outputs InterBus-S 64 / 64. Allen Bradley RIO Remote I/O 128 / 128. ProfiBus 128 / 128 RS-232, RS-422, RS-485 Serial channels Network (Ethernet) Robot Application Protocol (RAP) DDE Server

RASEWARE

BaseWare OS Robot Operating System with multitasking capability RAPID Application programming language, powerful with more than a hundred different instructions. Conveyor Tracking Accurate synchronising of moving objects during paint process. Linear or circular tracking in any direction.

PROCESSWARE

Analog Paint Regulating of spray gun. Fluid, Air and Electrostatic control.

DESKWARE

ProgramMaker Off-line program editing in Windows. ConfigEdit Easy configuration of robots. IPS ConfigEdit Easy-to-use Windows editor for the IPS system.

FACTORYWARE

RobView RobLog/Trend DDE-Server RobComm

Robot status, control, and file transfer on a PC. Logging and display of robot processing data. Robot DDE communication for InTouch, etc. Communication Toolkit for VB, VC++, etc.



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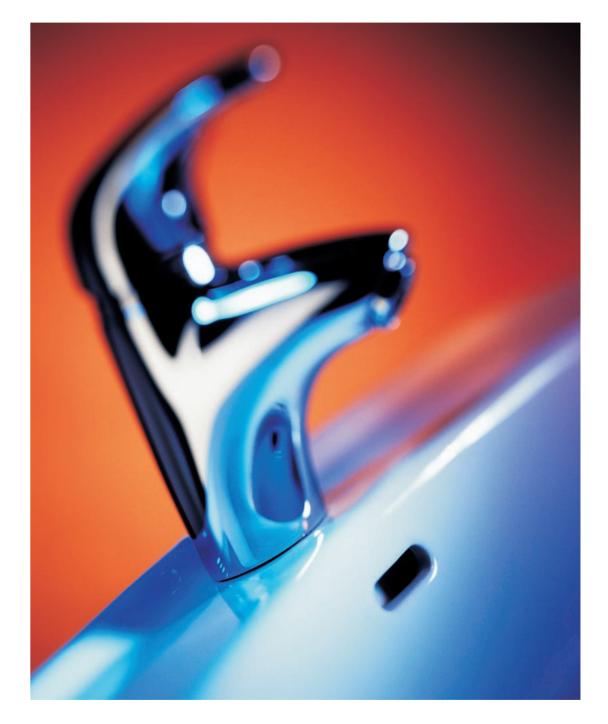
IRB 540 - Solutions for manufacturers of sanitary ware

Based on proven technology

Flexible

Automation

RB







Gain an edge on the competition

Our standardised and dedicated solutions draw on thirty years of paint process know-how and experience to address your requirements for lower costs, higher finish quality and reduced emissions.



ABB robots, the IRB 540 will require less training, engineering, programming, spare

"After the initial setup and training, the flexible S4P controller simplifies programming and provides great adaptability to my specific needs. It's a superior and reliable performer, and combined with the high quality of the ABB robots I have endless possibilities."

This is John Bjerrum Nielsen's impression of our S4P controller. He is the president of the family-owned company Bjerrum Nielsen, which among other things delivers plastic parts to Bang & Olufsen. Bjerrum Nielsen has over 15 years' experience of programming robots, now he is a S4P user.



S4P Controller - Features & Benefits

The S4P Industrial Robot Controller is a highly configurable modular system that will deliver superior performance in your applications. Plain language communication reduces the risk of misunderstanding and errors.

RobotWare software products

RobotWare is a family of software products designed to increase your productivity and lower your total cost of owning and operating robots. These products represent the most powerful set of robot tools available - tools you can depend on to help you, no matter what job you are doing and regardless of your level of experience.

A fully adaptable system for different needs
The system is easy to use for the operator,
powerful for the programmer and accessible
for maintenance personnel thanks to the
powerful RAPID™ robot language and
the extensive functionality available in the
PaintWare™ software.

Extensive communication capability for integration and control

The controller contains fieldbus and serial channels for PLC and PC connection. Using the distributed I/O system, I/O devices can be placed separately, e.g. in a pneumatic cabinet. Robot control from a PC is possible using Ethernet, and a number of alternative fieldbuses are available for distributed devices.

Superior reliability

The S4P is designed to the highest level of operational reliability. The electronics and drives are mounted in a shielded ventilated cabinet with the drives fully protected against dust and dirt. Error recovery procedures and low energy consumption secure a high reliability.

User safety

User safety is designed into the S4P with multiple safety interlocks, easily accessible emergency stop, circuit status signals, 3-position enable device and plain language text messages on the programming unit. The operator can also be directed about appropriate recovery actions. ABB intends to maintain its strong focus on personnel safety, which has a high priority in our development work.

Total Support

As with all ABB Flexible Automation products the S4P is supported by a worldwide organisation, round the clock. Never more than a phone call away, the local team is your guarantee that you get maximum availability from your robot systems.





New Dosing for Glaze and Enamel

Our dosing unit secures a high quality finish with a consistent film build. Accurate volumetric dosing, optimised spray patterns and brush changes in the programme will reduce your material consumption. High capacity regarding flow at high viscosity and low demands on fluid supply pressure provide flexibility. The unit is based on proven technology consisting of a peristaltic pump solution, standard robot servo drive, tested design, and fast commissioning on site. There is one controller for motion and dosing, and the process is synchronised with the path. The brushes are user-optimised, and there is no need for separate calibration. Rugged design and well-proven components contribute to a high uptime. Minor clogging is handled without rejected products, and little monitoring is needed during production. There is no risk of fluid overflow and the system is easy to clean and maintain. Long intervals are permitted between preventive maintenance jobs.