Auto Sub Function Package for Bumper and Fascia Painting

Clear Coat:2K, Solvent Based IRB 5400-02:ABB Robobell

Plug and Spray

The ABB Function Packages provide costeffective, standardised painting solutions with clearly specified functionality, performance and interfaces. It is the safest and easiest way to take your painting process closer to perfect precision.

ABB Function Package advantages

- Optimised for high quality paint finishing operations on specified objects under predefined operating conditions
- Saving valuable installation and configuration time
- Thoroughly proven solutions and quality components
- Top reliability, high up-time
- Minimised paint and solvent consumption.

Pre-configured and optimised IPS

All Function Packages include IPS, ABB's unique Integrated Process System with all IPS parameters fully tuned and tested for maximum finish quality and up-time.

Pre-configured are also the Teach Pendant (TPU) with special Operator interface functions, and two utility programs: The Colour Change program and the Pot-life program

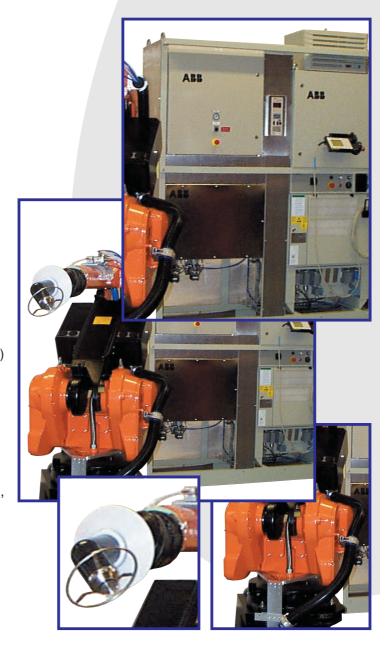
Characteristics

IRB 5400 robot with pumps and ABB's Robobell, complete with integrated hose routing and all paint handling equipment. The cabinets are premounted in a frame and all interconnections are done and tested, ready to put into the factory. Everything is fully documented, including process-, circuit- and interconnection diagrams.

Paint Handling equipment

Applicator Type: ABB's Robobel 30 T Pump: ABB's non flushable stainless steel pump. Alternatives: 2, 3 or 4 pumps and three different pump combinations depending on flow and mixing ratio.

Mixer: ABB's with plastic tube (easy to change). Prepared for up to 2 materials and 2 hardeners. Bell purging box (option) integrated on the raiser.





Interface

Electricity: same as the robot.

Air dynamic pressure: min: 6 bar; max: 8 bar, filtered at 5µm. Connection: by flexible hose 15mm ID.

Air consumption, maximum: 1000 NI/m.

Paint supply pressure: min: 3 bar, max: 7 bar. Connection: 6x8 nylon for base, PTFE for

hardener.

Solvent supply pressure: min: 5 bar, max: 7 bar.

Connection: 6x8 nylon.

Performance

Max shaping air: 720 NI/min at 6 bar

Air regulation accuracy: ± 2,5%

Shaping air response time: 60 ms Pump system response time: 40ms

Pump alternatives: 6ccm/3ccm, 6ccm/1.2ccm,

3ccm/1.2ccm

Max paint flow 2): 500cc/min

Colour change time: 11 sec 3)

Paint Waste: 40 cc 3) Solvent waste: 90 cc 3)

Typical installation time: 2 days (out of box till start programming).

²⁾ Max paint flow is dependent on mixing ratio.

Measured under the following conditions:

Air pressure: 6 bar

Solvent pressure: 6 bar Paint pressure: 6 bar

50mm shaping air ring

Paint: Herberts, viscosity 20 sec DIN-cup4

(20°C).

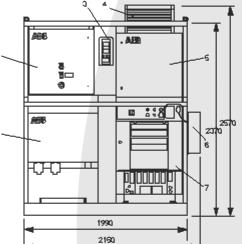
3) Measured when changing from Red to White

colour.

Dimensions

Axis Movement:same as for robot apart from

axis 1 with 200working range.



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