

Manufacturer :
SEPRO ROBOTIQUE
Rue Bessemer
Z.I Les Ajoncs
F85002 La Roche-sur-Yon Cedex

Distributor :
SEPRO ROBOTIQUE Distribution
Rue Bessemer
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F85002 La Roche-sur-Yon Cedex

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Import company :
SEPRO ROBOTIQUE UK
2, Fitzhamon Court Featherstone Road
WOLVERTON MILL
MILTON KEYNES MK12 6LB (ENGLAND)

<p style="text-align: center;">EQUIPMENT CHARACTERISTICS</p> <p style="text-align: center;">ROBOT MODEL : 3021 AZ S900-II Serial number : PIP 8468</p> <p style="text-align: center;">CE</p>
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STANDARD VERSION

- * **Application**..... : Load handling
- * **Mechanical Structure** : Cartesian (See File D)
- * **Mechanical Model**..... : **3021 AZ**
 - . Robot weight (kilograms)..... : 425 kg
 - . Nominal load (kilograms)..... : 6 kg
 - . Outer dimensions, Y carriage and Z arm retracted (millimetres)..... : 2900 x 1950 x 1420 mm
 - . Pneumatic operating pressure (bars)..... : 6 bars \pm 10%
 - . Maximum admissible pneumatic pressure (bars)..... : 7 bars
 - . Nominal compressed air consumption (litres per minute)..... : 125 l/min
 - . Max. instant compressed air consumption (litres per minute) : 250 l/min
- * **Electronic control system Model**..... : **S900-II**
 - . Weight of control cabinet (kilograms)..... : 200 kg
 - . Outer dimensions (millimetres)..... : 750 x 700 x 2300mm
 - . Operating power supply voltage (volts)..... : 415 V \pm 10% three-phase w/out neutral
 - . Operating frequency (Hertz)..... : 50/60 Hz
 - . Nominal power (kilovolt Amperes)..... : 4.2 kVA
 - . Maximum power consumption : depends on robot cycle
 - . Programming..... : Manual data entry
 - . RAM internal program memory storage..... : 128 kb
 - . Input / Output interface : 32 inputs / 24 outputs modulo x 2 (digital optocoupled input, 24 VDC 10mA/ digital static output, 6 to 35 VDC 500mA)
 - . Printer link interface..... : Centronics ® Standard
 - . IMM link interface (real-time and digital) : Connection to EUROMAP 12 standard

ENVIRONMENT (See file H)

- . Storage temperature / transport (degrees Celsius)..... : -25°C to + 55°C
- . Operating temperature (degrees Celsius)..... : +5°C to + 40°C
- . Relative humidity (percentage)..... : 30 to 95% without condensation
- . Maximum altitude (metres)..... : 2000m
- . Electromagnetic compatibility as per CEI 801 :
 - . Electrostatic discharges (kilovolts)..... : 12 kV
 - . Rapid transients on power supply (kilovolts)..... : 4 kV
 - . Rapid transients on inputs/outputs by coupling (kilovolts)..... : 2 kV
 - . Symmetrical high-energy pulses (kilovolts)..... : 1 kV
 - . Asymmetrical high-energy pulses (kilovolts)..... : 2.7 kV
 - . Power transients at 1 Hz (milliseconds)..... : 50 ms
 - . Slow voltage variations of 1 volt per second..... : -15% to + 10%
- . Sound level (See file X) :
 - . Acoustic pressure level (weighted continuous decibel A)..... : 70 dbA

HORIZONTAL MOVEMENT OF CARRIAGE ON BEAM : X

- . Stroke (millimetres)..... : 1750 mm
- . Motorization..... : Asynchronous
- . Instantaneous linear speed (metres per second)..... : 1.4 m/s
- . Stop control..... : PTP linear numerical
- . Display resolution (millimetres)..... : 0.1 mm
- . Positioning precision ΔL_x (millimetres)..... : ± 1 mm
- . Placing repeatability rx (millimetres)..... : ± 0.5 mm
- . Unloading side..... : Opposite
- . Spacer between robot and platen..... : fixed under beam

HORIZONTAL DEMOULDING MOVEMENT : Y

- . Stroke (millimetres)..... : 520 mm
- . Motorization..... : Asynchronous
- . Instantaneous linear speed (metres per second)..... : 1.2 m/s
- . Stop control..... : PTP linear numerical
- . Display resolution (millimetres)..... : 0.1 mm
- . Positioning precision ΔL_y (millimetres)..... : ± 1 mm
- . Placing repeatability ry (millimetres)..... : ± 0.5 mm

VERTICAL MOVEMENT : Z

- . Stroke (millimetres)..... : 1100 mm
- . Motorization..... : Servo-controlled brushless
- . Instantaneous linear speed (metres per second)..... : 5 m/s
- . Stop control..... : PTP linear numerical
- . Display resolution (millimetres)..... : 0.1 mm
- . Positioning precision ΔL_z (millimetres)..... : ± 0.5 mm
- . Placing repeatability rz (millimetres)..... : ± 0.1 mm

WRIST ROTATIONS

- . Standard R1 pneumatic rotation (degrees)..... : 0 - 90°
- . Pneumatic R2 rotation mounted on R1 (degrees)..... : 0 - 180° or 0 - 90°

PNEUMATIC EQUIPMENT

- . Removal from platen side..... : fixed and mobile through manual configuration
- . Control system :
 - . Vacuum and pressure..... : 2
 - . Bistable pressure..... : 1