

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% w/out condensation
. Maximum altitude (meters)	: 2000 m
. Electromagnetic compatibility as per IEC 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

. Travel (millimeters)	: 2500 mm
. Motorization	: Servocontrolled brushless
. Instantaneous linear speed (meters per second)	: 4 m/s
. Control	: PTP linear numerical
. Display resolution (millimeter)	: 0.1 mm
. Positioning precision ΔLx (millimeter)	: ±0.5 mm
. Placement repeatability rx (millimeter)	: ±0.1 mm
. Unloading side	: Operator side
. Spacer between robot and mounting platen	: fixed under beam

HORIZONTAL MOULD RELEASE MOVEMENT: Y

. Travel (millimeters)	: 700 mm
. Motorization	: Servocontrolled brushless
. Instantaneous linear speed (meters per second)	: 3 m/s
. Stop control	: PTP linear numerical control
. Display resolution (millimeter)	: 0.1 mm
. Positioning precision ΔLy (millimeter)	: ±0.5 mm
. Placement repeatability ry (millimeter)	: ±0.1 mm

VERTICAL MOVEMENT: Z

. Travel (millimeters)	: 1400 mm
. Motorization	: Servocontrolled brushless
. Instantaneous linear speed (meters per second)	: 4 m/s
. Stop control	: PTP linear numerical control
. Display resolution (millimeter)	: 0.1 mm
. Positioning precision ΔLz (millimeter)	: ±0.5 mm
. Placement repeatability rz (millimeter)	: ±0.1 mm

WRIST ROTATIONS

. Standard R1 pneumatic rotation (degrees)	: 0 – 90°
. Pneumatic R2 rotation mounted on R1 (degrees)	: 0 – 180° or 0 – 90°
. Removable intermediate stop on R2	: 0 – 180° and 0 – 90°
. Loosely accompanied movement along axes	: Y and Z

PNEUMATIC EQUIPMENT

. Removing from platen side	: fixed and mobile through manual configuration
. Control System:	
. Vacuum and pressure	: 2
. Bistable pressure	: 2

Manufacturer :

SEPRO ROBOTIQUE
44 Bd des Etats-Unis
BP 65
F85002 La Roche sur Yon Cedex
Tel. : (33) 51.44.34.34 Production Division
Tel. : (33) 51.44.34.24 After-Sales Service

Distributor :

SEPRO ROBOTIQUE Distribution
44 Bd des Etats-Unis
BP 65
F85002 La Roche sur yon Cedex
Tel. : (33) 51.44.34.34 Marketing Division

Import company :

SEPRO ROBOTIQUE Ltd
2, Fitzhamon Court
Featherstone Road
MILTON KEYNES MK12 6LB
(ENGLAND)

EQUIPMENT CHARACTERISTICS

ROBOT MODEL : **3031 BZ S900**

Serial Number : **PIP 3372**



STANDARD VERSION

- * **Application** : Load handling
- * **Mechanical Structure** : Cartesien (See File D)
- * **Mechanical Model** : **3031 BZ**
 - . Robot weight (kilograms) : 440 kg
 - . Nominal load (kilograms) : 6 kg
 - . Overall dimensions with Y carriage and Z arm retracted (millimètres) ... : 3760 x1645 x2321 mm
 - . Pneumatic operating pressure (bars) : 6 bars ± 10 %
 - . Maximum admissible pneumatic pressure (bars) : 7 bars
 - . Nominal compressed air consumption (liters per minute) : 150 l/mn
 - . Max. instant compressed air consumption (liters per minute) : 300 l/mn
- * **Control Function Electronic Model** : **S900**
 - . Weight of control cabinet (kilograms) : 200kg
 - . Outer dimensions (millimeters) : 750 x700 x2300 mm
 - . Operating power supply voltage (volts) : 3 x 415 V ± 10 %, three-phase w/out neutral
 - . Operating frequency (Hertz) : 50/60 Hz
 - . Nominal power (kilovolt Amperes) : 3 kVA
 - . Maximum power consumption : depends on robot cycle
 - . Programming : Manual data entry
 - . EEPROM internal program storage (kilobytes) : 64 kb
 - . RAM internal program storage (kilobytes) : 512 kb
 - . External program storage (kilobytes) : 16 Kb EEPROM modules
 - . Input interface (digital optocoupled input, 24 VDC 10mA) : Modulo 32 inputs x1
 - . Output interface (digital static output, 6 to 35 VDC 500 mA) : Modulo 32 outputs x1
 - . Printer link interface : Centronics® Standard
 - . Press link interface (real-time and digital) : Connects to EUROMAP 12 standard
 - . PC® link interface : RS 232 series link for program editor
 - . Press link interface (dialog function) : RS 232 / RS 485 series link, EUROMAP 17

1 BILLION