Robotic Pneumatic Gripper

Universal
- Applies to ALL Major Robots
- Right- or Left-Hand Extraction
- Heavy-Duty Welded Construction
- Equipped With Feedback Controls:
  - Jaw Open
  - Jaw Close

Powerful
- Total Clamping Pressure Exceeds 300 lb
- Biscuit Size: 2.88" to 4.62" Diameter With Over 50-lb Capacity (Total Shot Weight)

Rugged
- Designed for a Harsh Die Cast Environment - All Internal Utilities (electric and pneumatic are physically contained)

Lightweight
- Aluminum and Steel Construction

Epitome of Simplicity
- Bolts Quickly and Easily to Robot Wrist
Specifications

Bolt Circle

Locking Boss

Locating Pin Hole

Adapter plate is specific to robots. Consult ADVANCE for adapters available.

3-1/4"

18-1/8"

5-15/16"

Max Gripper Opening

Specifications are subject to change without notice.

Industrial Innovations, Inc. - 2936 Dormax Street SW - Grandville, Michigan 49418
Phone: 616-249-1525 - Fax: 616-249-0983

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ADVANCE combines unmatched engineering technology with practicality for the die cast industry. ADVANCE's Die Casting Extractor, Model K 45 was designed and engineered by a highly experienced staff of skilled automation and assembly design engineers with many successful automation projects to their credit. The extractor features a standard two linear and one rotary axis configuration when the availability of a fourth and fifth servo wrist axis Each axis is powered by its own AC motor and is monitored by its own servo feedback device. This system provides an optimum linear repeat ability of .008 inch (.2 mm). When drive power is OFF, brakes hold the arm in position.

The microprocessor-based system has been engineered by ADVANCE specifically to satisfy the needs of die cast part extracting. Your operators will learn to use it in minutes. They need only to know the job to be performed, not computers.

Turn key Die Cast Automation
ADVANCE provides the following services to the die cast industry.

- Turn key system design fabrication and installation.
- Choice of new or robots.
- Supply of all die cast peripherals such as ladles, shot monitors, extractors, conveyors, trim presses, spray reciprocators, etc.
- Complete spare parts and field service support with 24 hour parts and service hot line.
Note: All illustrations contained in this literature are based on the latest product information available at the time of publication. The right is reserved to make changes at any time without notice in prices, materials, equipment, specifications and models, and to discontinue models.

### Specifications

- **Load capacity**: 110 # (75 # 4th axis)
- **Number of servo axes**: 3
- **Configuration**: Cylindrical
- **Drive System**: A C Motor
- **Position feedback**: Incremental Encoder
- **Power Amplifiers**: P W M
- **Control Type**: Simultaneous Point-to-Point
- **Positioning repeat ability in cycle**: .020 in

### Floor space and approximate net weight

- **Robot**: 4.5’ 2,000#
- **Robot Control**: 7.6’ 950 "
- **Ambient Temperature**: 40° to 105° F
- **Air conditioner option**: 40° to 120° F

### Range of Motion

- **Base**: 300° 900° / sec
- **Vertical**: 24 in. 20 ips.
- **Horizontal**: 45 in. 40 ips.
  (Optional 55 in.)

### Reach

- **Horizontal**: 76°
  (Optional 86 in.)
- **Power requirements**: 230 / 460 Volts, 1Ø, 60 Hz

* Other voltages and 50 HZ available

### Options

- Standard grippers
- Die lubricator
- Absolute positioning
- 4th Axis (Pneumatic)
- I/O expansion
- Protective booting
- Air conditioner
- Human Machine Interface

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