AROBOTECH® SYSTEMS | Grinding AUTO REST®

# TOOL GRINDING




## WORLD LEADER IN STEADY REST TECHNOLOGY

www.arobotech.com

# Grinding AUTO REST®

## About us

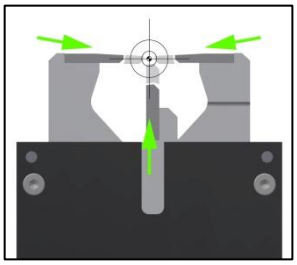
Arobotech Systems is the world leader in providing steady rests for use on grinding machines. Grinding AUTO REST® is recognized as the industry standard.

Sales and service are provided from our World Headquarters in Madison Heights, Michigan with additional sales and/or service locations in Germany, Japan, China, India and Korea.



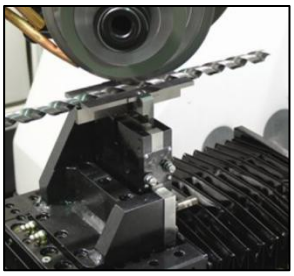

## How it works

Accuracy
Arobotech Systems offers the original sliding wedge design with unsurpassed clamping accuracy. Each Grinding AUTO REST® must repeat within .001mm during testing to pass our rigorous certification criteria.



Self-Centering
The straight-line motion produced by the sliding wedge design gives Grinding AUTO REST® its unique self-centering capability. This feature automatically centers any size within each model's clamping range.

Follow Down Operation
Models with this feature allow the Grinding AUTO REST® to support the part at the point of grind. The dynamic self-centering ability compensates for the changing part size to keep the workpiece on center throughout the grind cycle.



## Benefits of use

**Quality improvements**

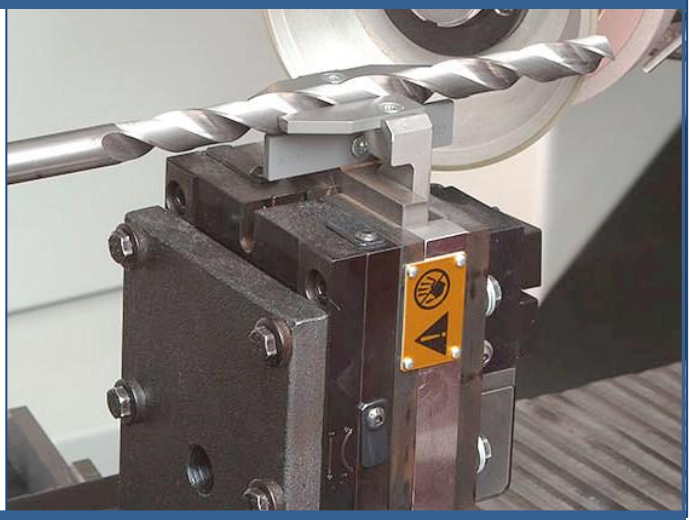
- Improve drill point accuracy
- Improve flute depth and position
- Improve consistency

**Other benefits**

- Reduce scrap by reliably holding the workpiece accurately in place every time
- Improve cycle time with more aggressive grinding
- Accurately support workpiece without using a tailstock
- Models available for most machines
- Quick change-over

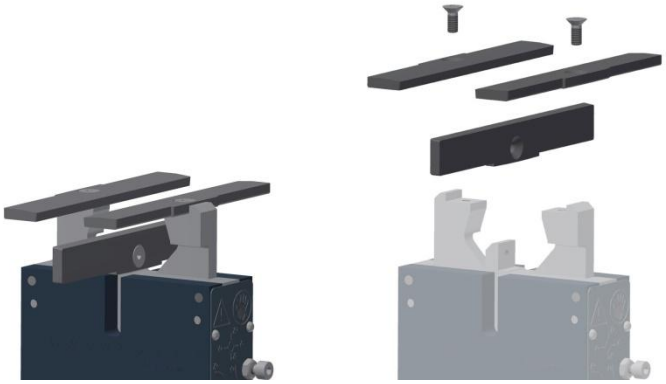
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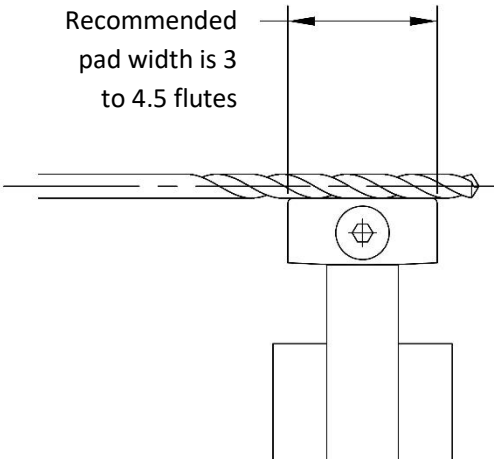
## Tooling

Each Grinding AUTO REST® must be fitted with wear pads suitable to the tools being ground. Data sheets show sizes available for each model.

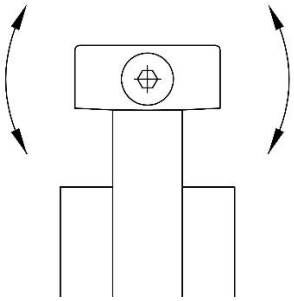


**Wear Pad Selection**

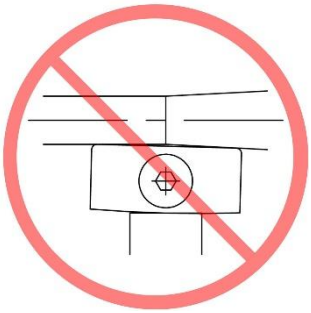
Recommended pad width is 3 to 4.5 flutes



Wear pads can be aligned to match cylindricity or back taper

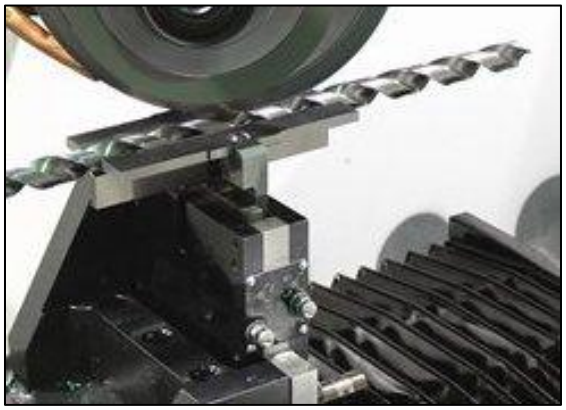


Never allow pads to span straight and back tapered sections at the same time. This will result in damage to the workpiece, tooling and the Grinding AUTO REST®



## Product Overview – Tool Grinding Models

Grinding AUTO REST® is an automatic, self-centering, three-point steady rest used to support and stabilize tools during manufacturing. Low profile over-center wear pads hold the part securely while providing wheel clearance for flute grinding. Automatic arm retraction draws the arms into the body when opened for easy part loading.



Tool grinding models are offered with a variety of features to ease installation / alignment and improve performance. Available Features include:

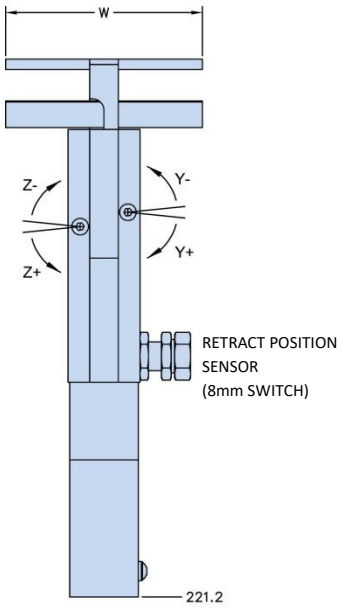
* .001mm Repeatability
* Arm Retraction for Part Loading
* 2-Axis Centerline Adjustment
* Position Feedback Sensors
* Clamp Size Down to 1mm
* Side Mount Cylinder
* Hydraulic Operation
* Pneumatic Operation

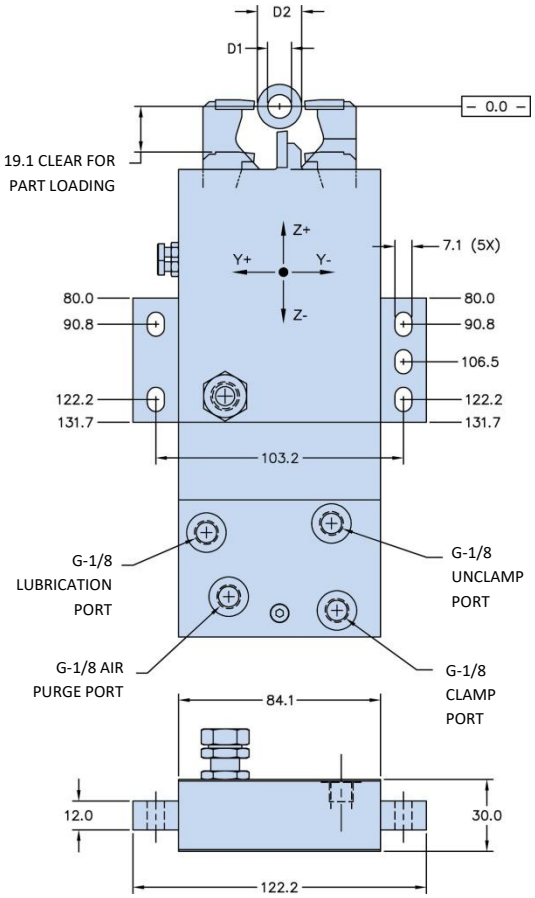
Many models are for specific machine manufacturers. Contact sales@arobotech.com for assistance identifying the correct model.

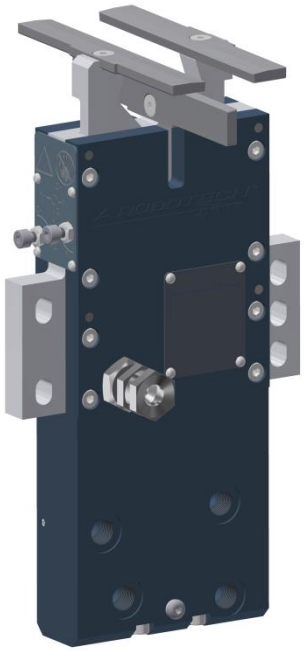
We also offer free technical support for all products. Contact sales@arobotech.com for free assistance with:

| | | | |
|---|---|---|---|
| * Model Selection | * Modifications | * 3D Models | * Accessories |
| * Machine integration | * Special models | * Mounting Bases | * Spare Parts |

# GC32907A | Grinding AUTO REST®



| Pad Set | | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Minimum Clamp Diameter | D1 | mm | 2 | 3 | 3 | 3 | 3 | 3 | 10 | 10 | 10 | 18.5 |
| Maximum Clamp Diameter | D2 | mm | 4 | 10 | 10 | 10 | 10 | 10 | 18.5 | 18.5 | 18.5 | 26.5 |
| Width | W | mm | 50 | 10 | 15 | 25 | 45 | 82 | 40 | 70 | 108 | 170 |

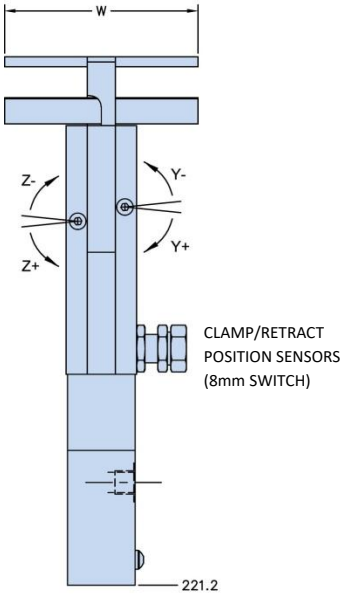
| | | |
|---|---|---|
| Z-Axis Adjustment Range | mm | ±0.13 |
| Y-Axis Adjustment Range | mm | ±0.08 |
| Piston Area | cm2 | 2.8 |
| Cylinder Stroke | mm | 29 |
| Operating Pressure | bar | 10 – 27 |
| Maximum Pressure | bar | 32 |
| Air Purge Pressure | bar | 0.3 – 0.5 |
| Lubrication Volume | cm3 | 0.02 – 0.03 |
| Lubrication Frequency | | Working Cycle (or every 6 minutes) |
| Repeatability | mm | ±0.001 |
| Mass | kg | 4 |

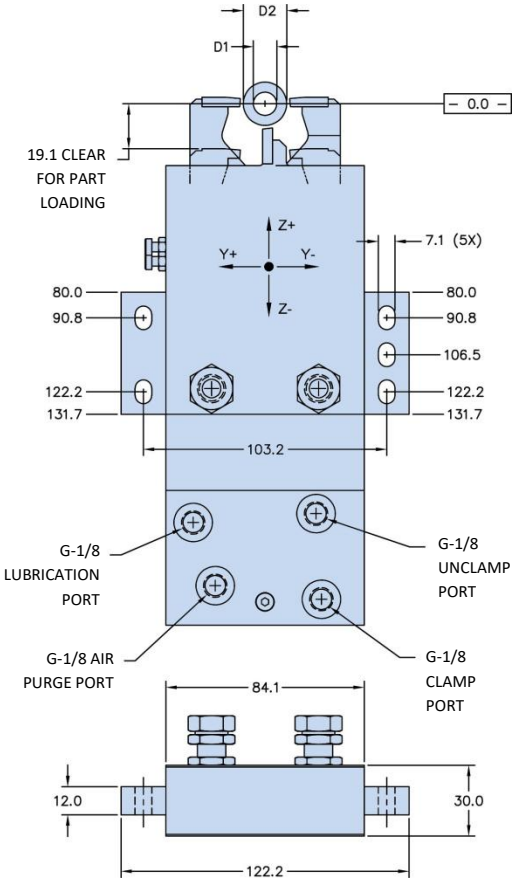
** Contact sales@arobotech.com for pads not listed above

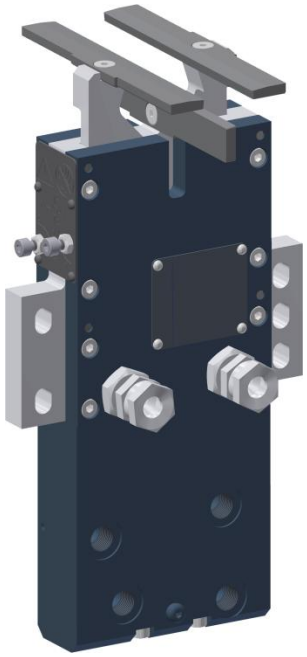
Included Features
* Arm Retraction For Part Loading
* 2-Axis Centerline Adjustment
* Retract Position Feedback Sensor
* Air Purge Port

Items Required To Use This Product:
* Set of Wear Pads
* Mounting Base

# Grinding AUTO REST® | GC32907C



| Pad Set | | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Minimum Clamp Diameter | D1 | mm | 2 | 3 | 3 | 3 | 3 | 3 | 10 | 10 | 10 | 18.5 |
| Maximum Clamp Diameter | D2 | mm | 4 | 10 | 10 | 10 | 10 | 10 | 18.5 | 18.5 | 18.5 | 26.5 |
| Width | W | mm | 50 | 10 | 15 | 25 | 45 | 82 | 40 | 70 | 108 | 170 |

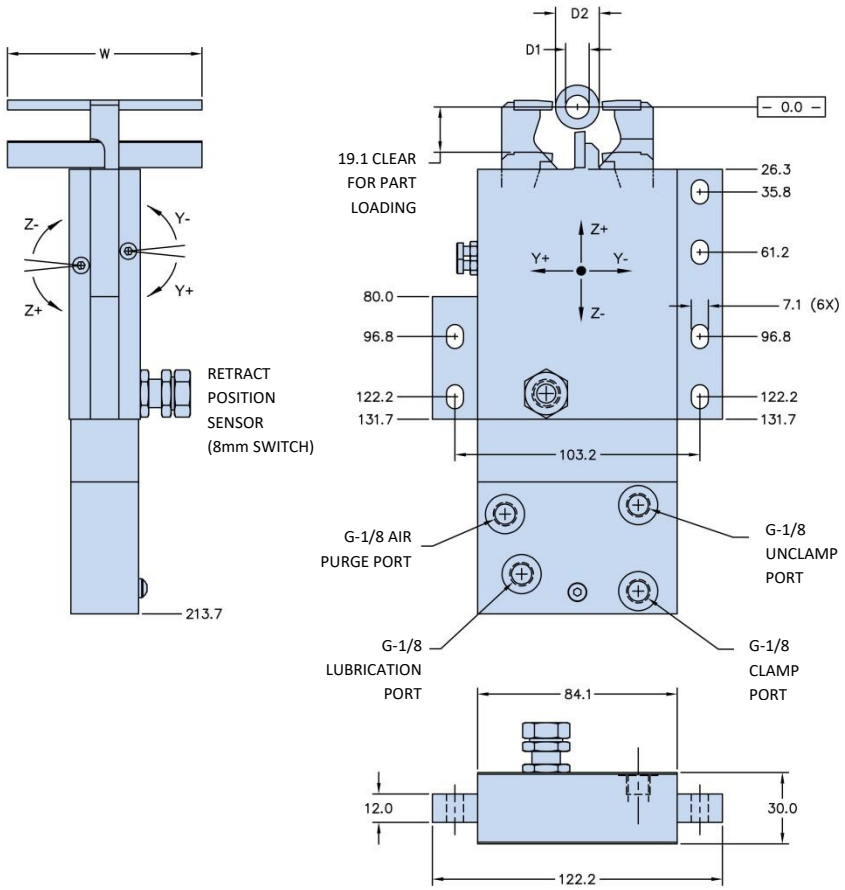
| | | |
|---|---|---|
| Z-Axis Adjustment Range | mm | ±0.13 |
| Y-Axis Adjustment Range | mm | ±0.08 |
| Piston Area | cm2 | 2.8 |
| Cylinder Stroke | mm | 29 |
| Operating Pressure | bar | 10 – 27 |
| Maximum Pressure | bar | 32 |
| Air Purge Pressure | bar | 0.3 – 0.5 |
| Lubrication Volume | cm3 | 0.02 – 0.03 |
| Lubrication Frequency | | Working Cycle (or every 6 minutes) |
| Repeatability | mm | ±0.001 |
| Mass | kg | 4 |

** Contact sales@arobotech.com for pads not listed above

Included Features
* Arm Retraction For Part Loading
* 2-Axis Centerline Adjustment
* Position Feedback Sensors
* Air Purge Port

Items Required To Use This Product:
* Set of Wear Pads
* Mounting Base

# GC29372A | Grinding AUTO REST®






| Pad Set | | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Minimum Clamp Diameter | D1 | mm | 2 | 3 | 3 | 3 | 3 | 3 | 10 | 10 | 10 | 18.5 |
| Maximum Clamp Diameter | D2 | mm | 4 | 10 | 10 | 10 | 10 | 10 | 18.5 | 18.5 | 18.5 | 26.5 |
| Width | W | mm | 50 | 10 | 15 | 25 | 45 | 82 | 40 | 70 | 108 | 170 |

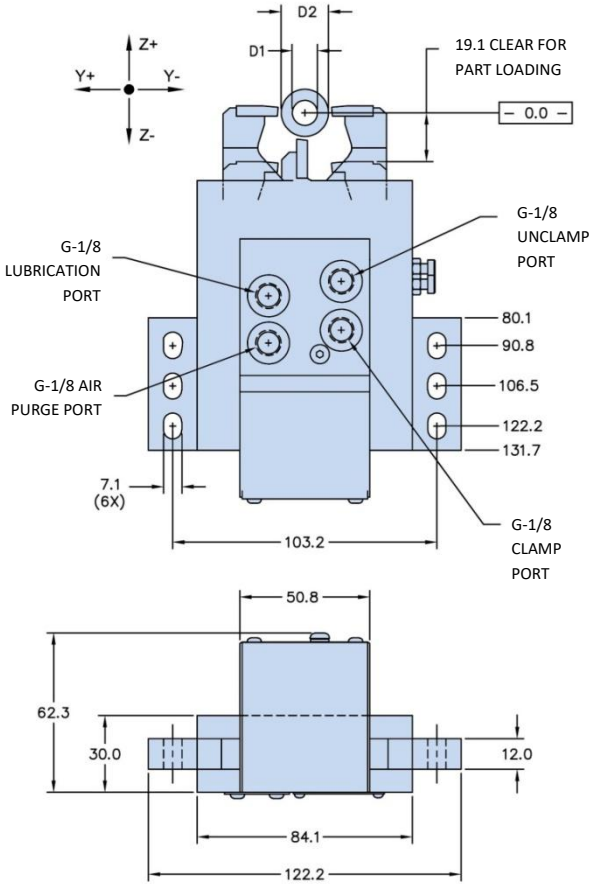
| | | |
|---|---|---|
| Z-Axis Adjustment Range | mm | ±0.13 |
| Y-Axis Adjustment Range | mm | ±0.08 |
| Piston Area | cm2 | 2.8 |
| Cylinder Stroke | mm | 29 |
| Operating Pressure | bar | 10 – 27 |
| Maximum Pressure | bar | 32 |
| Air Purge Pressure | bar | 0.3 – 0.5 |
| Lubrication Volume | cm3 | 0.02 – 0.03 |
| Lubrication Frequency | | Working Cycle (or every 6 minutes) |
| Repeatability | mm | ±0.001 |
| Mass | kg | 4 |

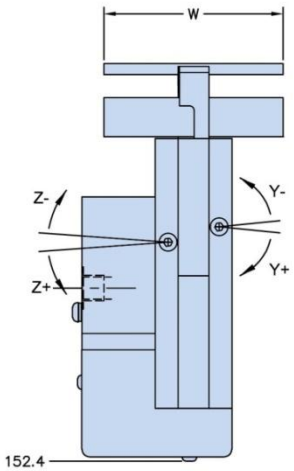
** Contact sales@arobotech.com for pads not listed above

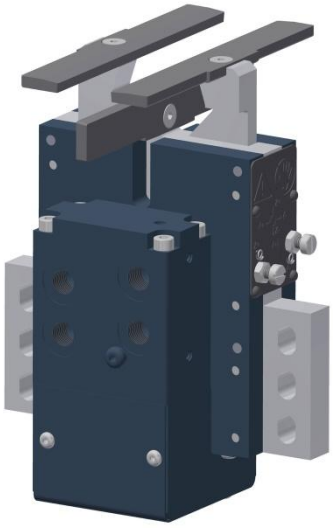
Included Features
* Arm Retraction For Part Loading
* 2-Axis Centerline Adjustment
* Retract Position Feedback Sensor
* Air Purge Port

Items Required To Use This Product:
* Set of Wear Pads
* Mounting Base

# Grinding AUTO REST® | GC021042A






| Pad Set | | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Minimum Clamp Diameter | D1 | mm | 2 | 3 | 3 | 3 | 3 | 3 | 10 | 10 | 10 | 18.5 |
| Maximum Clamp Diameter | D2 | mm | 4 | 10 | 10 | 10 | 10 | 10 | 18.5 | 18.5 | 18.5 | 26.5 |
| Width | W | mm | 50 | 10 | 15 | 25 | 45 | 82 | 40 | 70 | 108 | 170 |

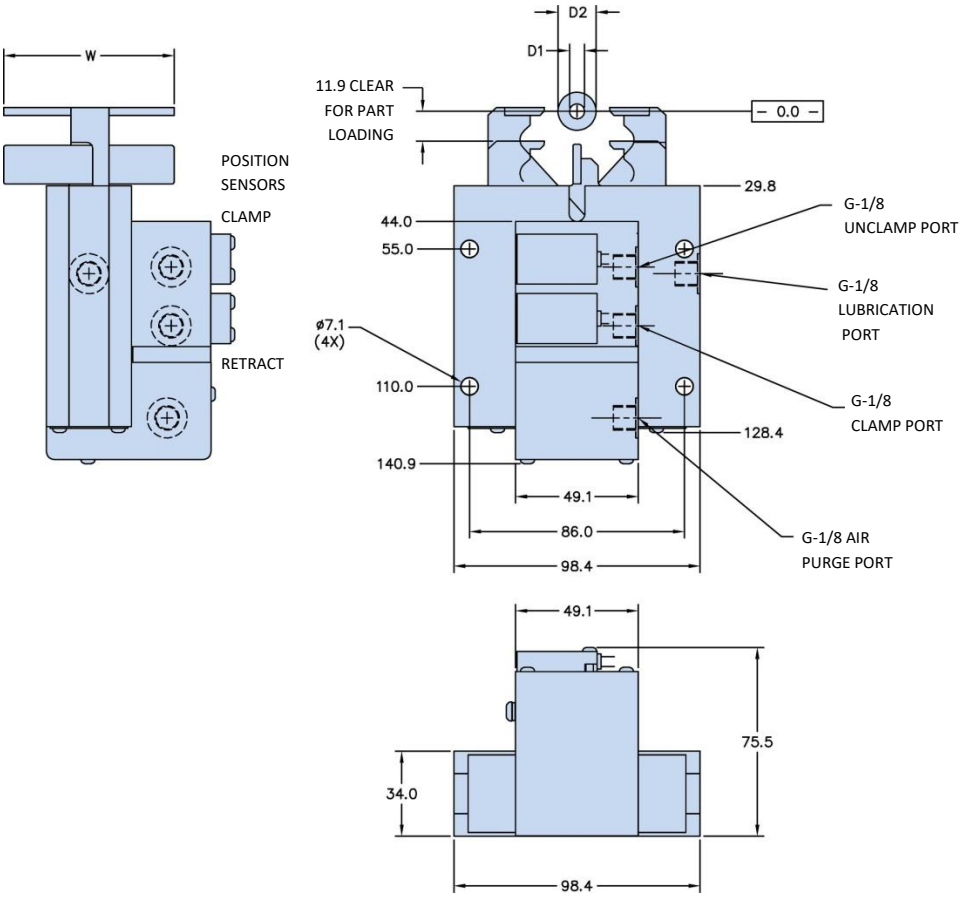
| | | |
|---|---|---|
| Z-Axis Adjustment Range | mm | ±0.13 |
| Y-Axis Adjustment Range | mm | ±0.08 |
| Piston Area | cm2 | 2.4 |
| Cylinder Stroke | mm | 29 |
| Operating Pressure | bar | 10 – 27 |
| Maximum Pressure | bar | 32 |
| Air Purge Pressure | bar | 0.3 – 0.5 |
| Lubrication Volume | cm3 | 0.02 – 0.03 |
| Lubrication Frequency | | Working Cycle (or every 6 minutes) |
| Repeatability | mm | ±0.001 |
| Mass | kg | 4 |

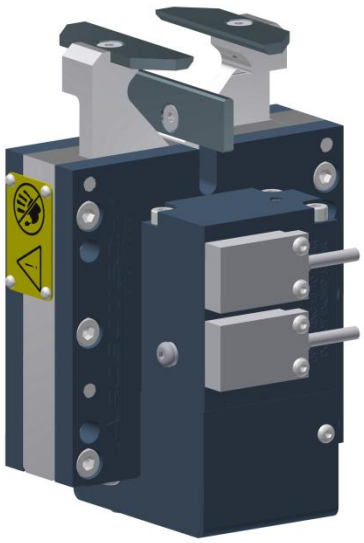
** Contact sales@arobotech.com for pads not listed above

Included Features
* Arm Retraction For Part Loading
* 2-Axis Centerline Adjustment
* Air Purge Port
* Side Mount Cylinder

Items Required To Use This Product:
* Set of Wear Pads
* Mounting Base

# GC32790A | Grinding AUTO REST®



| Pad Set | | | 1 | 2 | 3 |
|---|---|---|---|---|---|
| Minimum Clamp Diameter | D1 | mm | 1 | 2.35 | 6 |
| Maximum Clamp Diameter | D2 | mm | 3 | 13 | 16 |
| Width | W | mm | 50 | 55 | 70 |

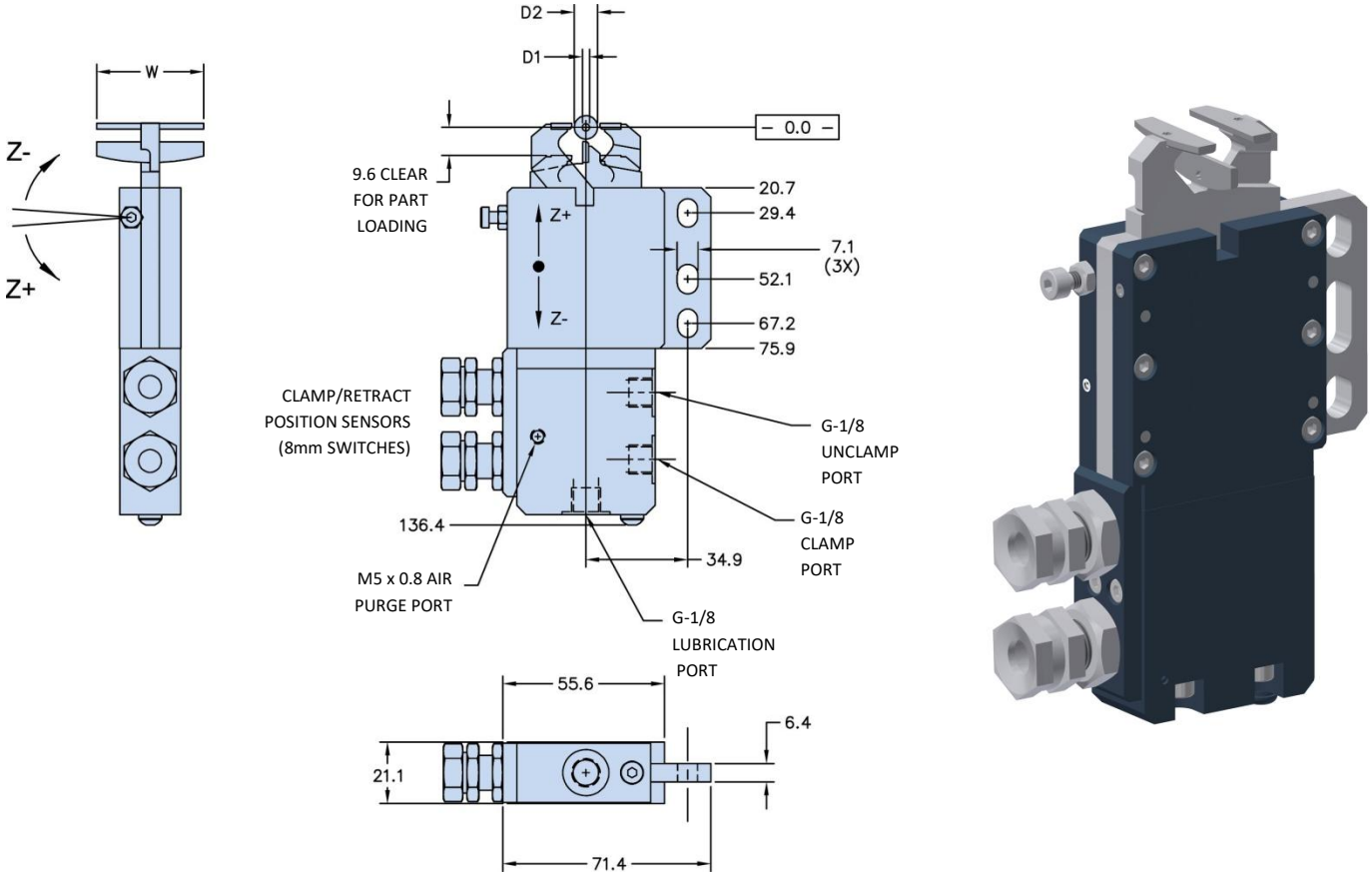
** Contact sales@arobotech.com for pads not listed above

| | | |
|---|---|---|
| Z-Axis Adjustment Range | mm | N/A |
| Y-Axis Adjustment Range | mm | N/A |
| Piston Area | cm2 | 2.4 |
| Cylinder Stroke | mm | 25.4 |
| Operating Pressure | bar | 10 – 27 |
| Maximum Pressure | bar | 32 |
| Air Purge Pressure | bar | 0.3 – 0.5 |
| Lubrication Volume | cm3 | 0.02 – 0.03 |
| Lubrication Frequency | | Working Cycle (or every 5 minutes) |
| Repeatability | mm | ±0.001 |
| Mass | kg | 4 |

Included Features
* Arm Retraction For Part Loading
* Position Feedback Sensor
* Air Purge Port

Items Required To Use This Product:
* Set of Wear Pads
* Mounting Base

# Grinding AUTO REST® | GR-081




| Pad Set | | | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|
| Minimum Clamp Diameter | D1 | mm | 1 | 2.5 | 2.5 | 2.5 |
| Maximum Clamp Diameter | D2 | mm | 3 | 8 | 8 | 8 |
| Width | W | mm | 20 | 15 | 25 | 35 |

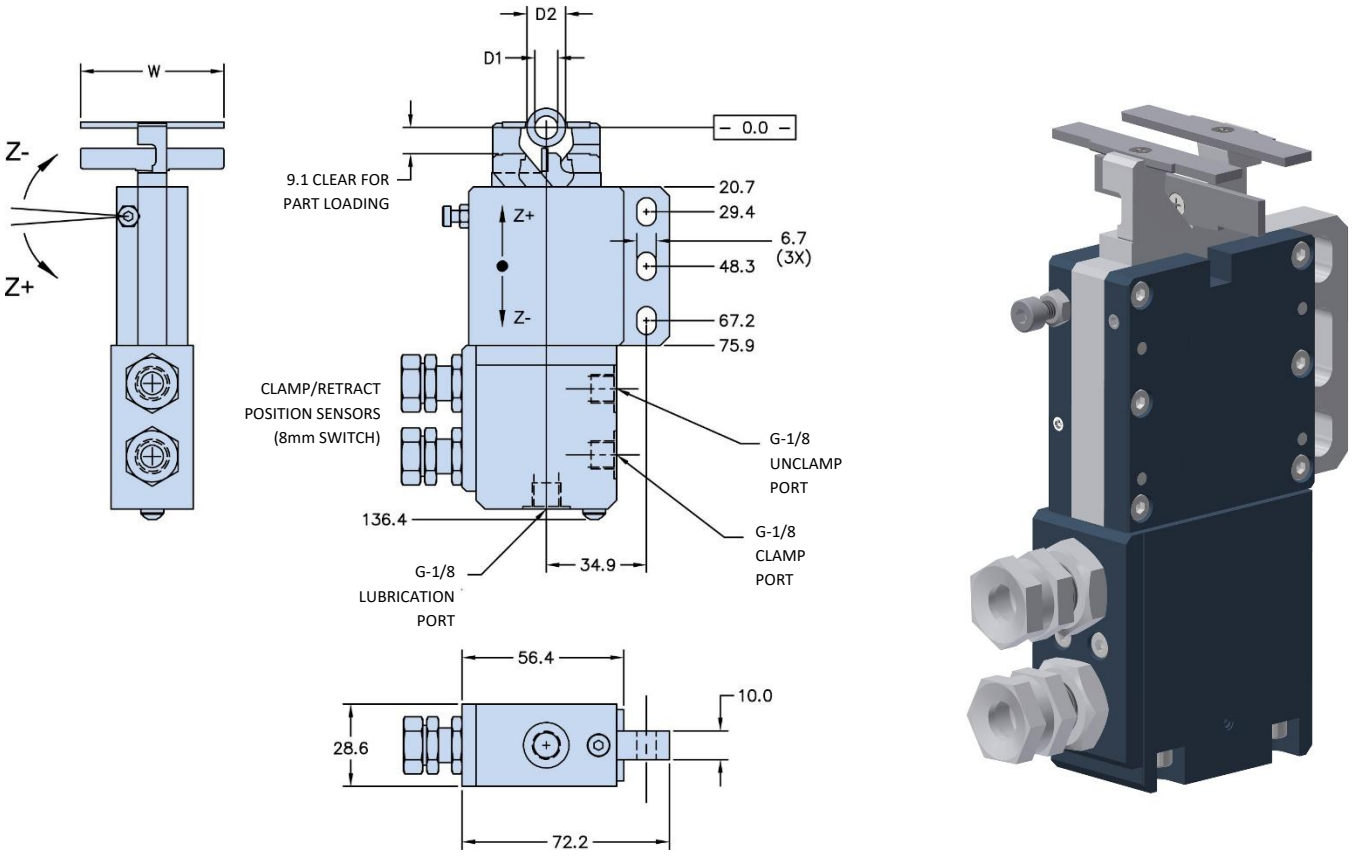
| | | |
|---|---|---|
| Z-Axis Adjustment Range | mm | ±0.06 |
| Y-Axis Adjustment Range | mm | N/A |
| Piston Area | cm2 | 1.9 |
| Cylinder Stroke | mm | 15 |
| Operating Pressure | bar | 10 – 27 |
| Maximum Pressure | bar | 32 |
| Air Purge Pressure | bar | 0.3 – 0.5 |
| Lubrication Volume | cm3 | 0.02 – 0.03 |
| Lubrication Frequency | | Working Cycle (or every 6 minutes) |
| Repeatability | mm | ±0.001 |
| Mass | kg | 1 |

** Contact sales@arobotech.com for pads not listed above

Included Features
* Arm Retraction For Part Loading
* Single Axis Centerline Adjustment
* Position Feedback Sensors
* Air Purge Port

Items Required To Use This Product:
* Set of Wear Pads
* Mounting Base

# GC28601A | Grinding AUTO REST®



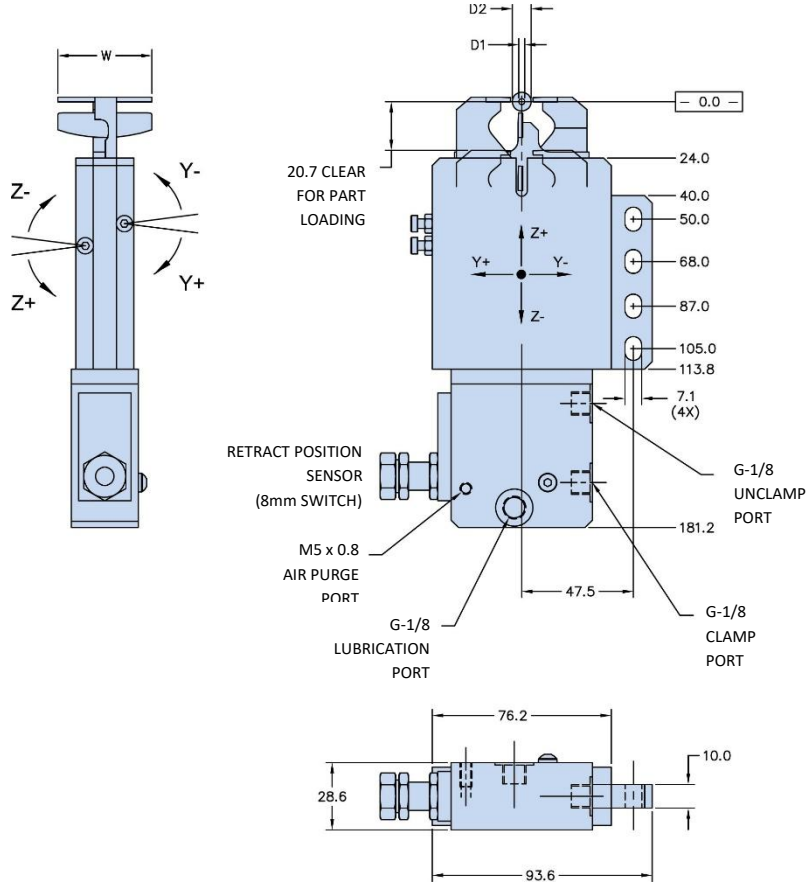

| Pad Set | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Minimum Clamp Diameter | D1 | mm | 1 | 2.5 | 2.5 | 2.5 | 2.5 | 5 | 5 | 5 | 5 | 9.5 | 10.5 | 10.5 |
| Maximum Clamp Diameter | D2 | mm | 3 | 8 | 8 | 8 | 8 | 10.5 | 10.5 | 10.5 | 10.5 | 15 | 16 | 16 |
| Width | W | mm | 30 | 25 | 30 | 40 | 50 | 50 | 60 | 70 | 80 | 70 | 80 | 90 |

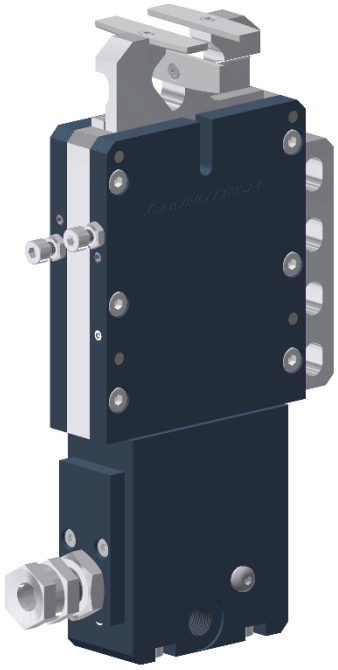
| | | |
|---|---|---|
| Z-Axis Adjustment Range | mm | ±0.056 |
| Y-Axis Adjustment Range | mm | N/A |
| Piston Area | cm2 | 2.8 |
| Cylinder Stroke | mm | 15 |
| Operating Pressure | bar | 10 – 27 |
| Maximum Pressure | bar | 32 |
| Air Purge Pressure | bar | N/A |
| Lubrication Volume | cm3 | 0.02 – 0.03 |
| Lubrication Frequency | | Working Cycle (or every 6 minutes) |
| Repeatability | mm | ±0.001 |
| Mass | kg | 1.5 |

Included Features
* Arm Retraction For Part Loading
* Z-Axis Centerline Adjustment
* Position Feedback Sensors

Items Required To Use This Product:
* Set of Wear Pads
* Mounting Base

# Grinding AUTO REST® | GC023632A



| Pad Set | | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Minimum Clamp Diameter | D1 | mm | 2.5 | 2.5 | 2.5 | 2.5 | 5 | 5 | 5 | 5 | 9.5 | 10.5 | 10.5 |
| Maximum Clamp Diameter | D2 | mm | 8 | 8 | 8 | 8 | 10.5 | 10.5 | 10.5 | 10.5 | 15 | 16 | 16 |
| Width | W | mm | 25 | 30 | 40 | 50 | 50 | 60 | 70 | 80 | 70 | 80 | 90 |

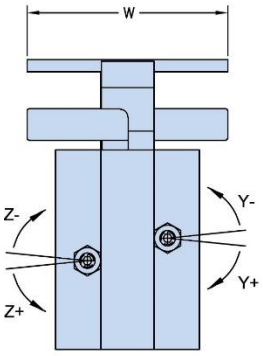
| | | |
|---|---|---|
| Z-Axis Adjustment Range | mm | ±0.12 |
| Y-Axis Adjustment Range | mm | ±0.04 |
| Piston Area | cm2 | 1.9 |
| Cylinder Stroke | mm | 26.4 |
| Operating Pressure | bar | 10 – 27 |
| Maximum Pressure | bar | 32 |
| Air Purge Pressure | bar | 0.3 – 0.5 |
| Lubrication Volume | cm3 | 0.02 – 0.03 |
| Lubrication Frequency | | Working Cycle (or every 6 minutes) |
| Repeatability | mm | ±0.001 |
| Mass | kg | 2.5 |

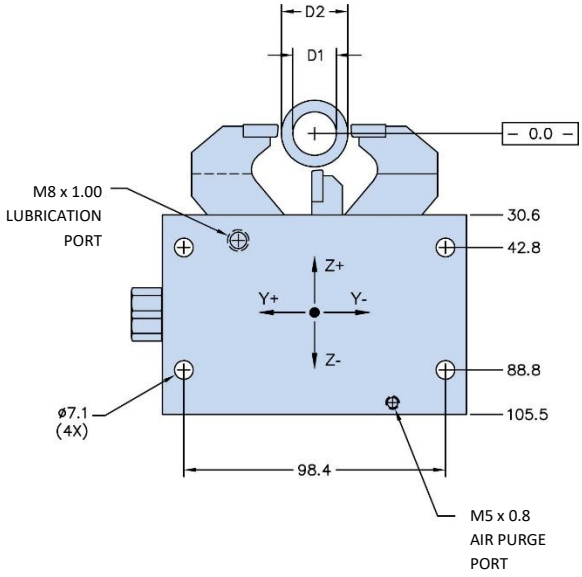
** Contact sales@arobotech.com for pads not listed above

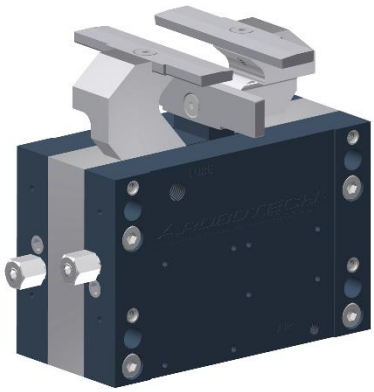
Included Features
* Arm Retraction For Part Loading
* 2-Axis Centerline Adjustment
* Retract Position Feedback Sensor
* Air Purge Port

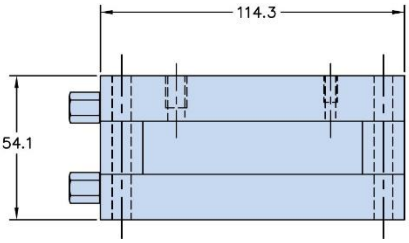
Items Required To Use This Product:
* Set of Wear Pads
* Mounting Base

# GC19722A | Grinding AUTO REST®






| Pad Set | | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Minimum Clamp Diameter | D1 | mm | 2 | 3 | 3 | 3 | 3 | 3 | 10 | 10 | 10 | 18.5 |
| Maximum Clamp Diameter | D2 | mm | 4 | 10 | 10 | 10 | 10 | 10 | 18.5 | 18.5 | 18.5 | 26.5 |
| Width | W | mm | 50 | 10 | 15 | 25 | 45 | 82 | 40 | 70 | 108 | 170 |

| | | |
|---|---|---|
| Z-Axis Adjustment Range | mm | ±0.13 |
| Y-Axis Adjustment Range | mm | ±0.08 |
| Piston Area | cm2 | N/A |
| Cylinder Stroke | mm | N/A |
| Operating Pressure | bar | N/A |
| Maximum Pressure | bar | N/A |
| Air Purge Pressure | bar | 0.3 – 0.5 |
| Lubrication Volume | cm3 | 0.02 – 0.03 |
| Lubrication Frequency | | Working Cycle (or every 6 minutes) |
| Repeatability | mm | ±0.001 |
| Mass | kg | 4.6 |

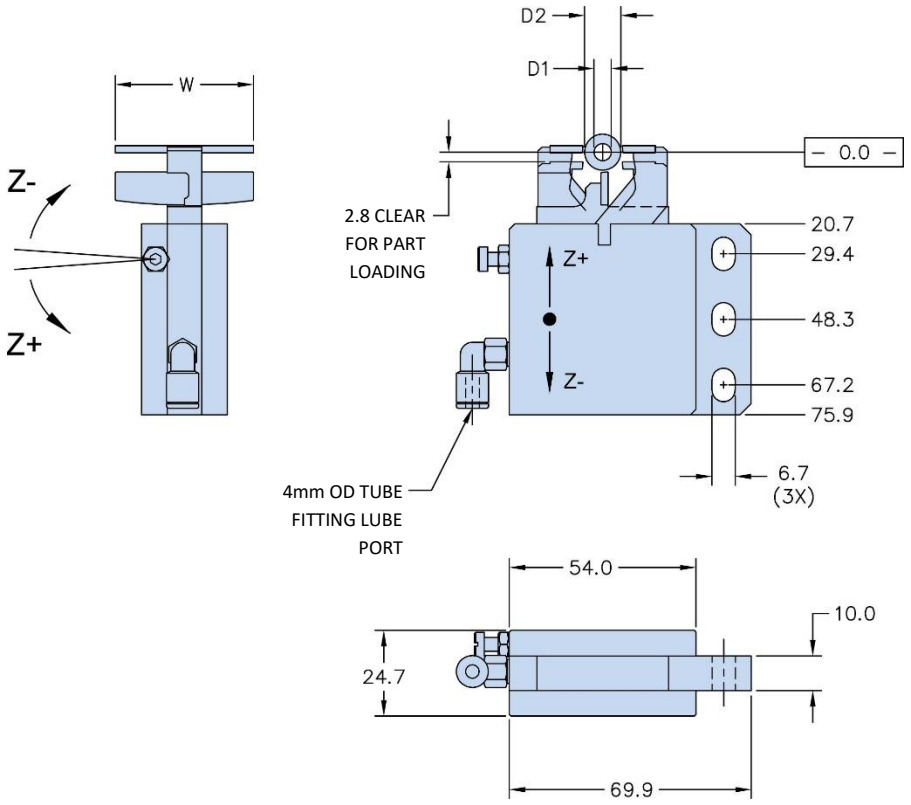
** Contact sales@arobotech.com for pads not listed above

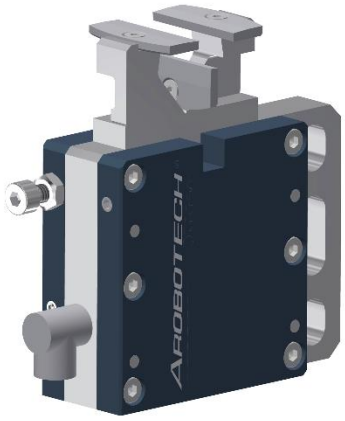
Included Features
* 2-Axis Centerline Adjustment
* Air Purge Port

Items Required To Use This Product:
* Set of Wear Pads
* Mounting Base
* Drive Mechanism

**Note**
**This Model Requires OEM Supplied Drive Mechanism**

# Grinding AUTO REST® | GC36551B




| Pad Set | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Minimum Clamp Diameter | D1 | mm | 1 | 2.5 | 2.5 | 2.5 | 2.5 | 5 | 5 | 5 | 5 | 9.5 | 10.5 | 10.5 |
| Maximum Clamp Diameter | D2 | mm | 3 | 8 | 8 | 8 | 8 | 10.5 | 10.5 | 10.5 | 10.5 | 15 | 16 | 16 |
| Width | W | mm | 30 | 25 | 30 | 40 | 50 | 50 | 60 | 70 | 80 | 70 | 80 | 90 |

| | | |
|---|---|---|
| Z-Axis Adjustment Range | mm | ±0.056 |
| Y-Axis Adjustment Range | mm | N/A |
| Piston Area | cm2 | N/A |
| Cylinder Stroke | mm | N/A |
| Operating Pressure | bar | N/A |
| Maximum Pressure | bar | N/A |
| Air Purge Pressure | bar | N/A |
| Lubrication Volume | cm3 | 0.02 – 0.03 |
| Lubrication Frequency | | Working Cycle (or every 6 minutes) |
| Repeatability | mm | ±0.001 |
| Mass | kg | 1.5 |

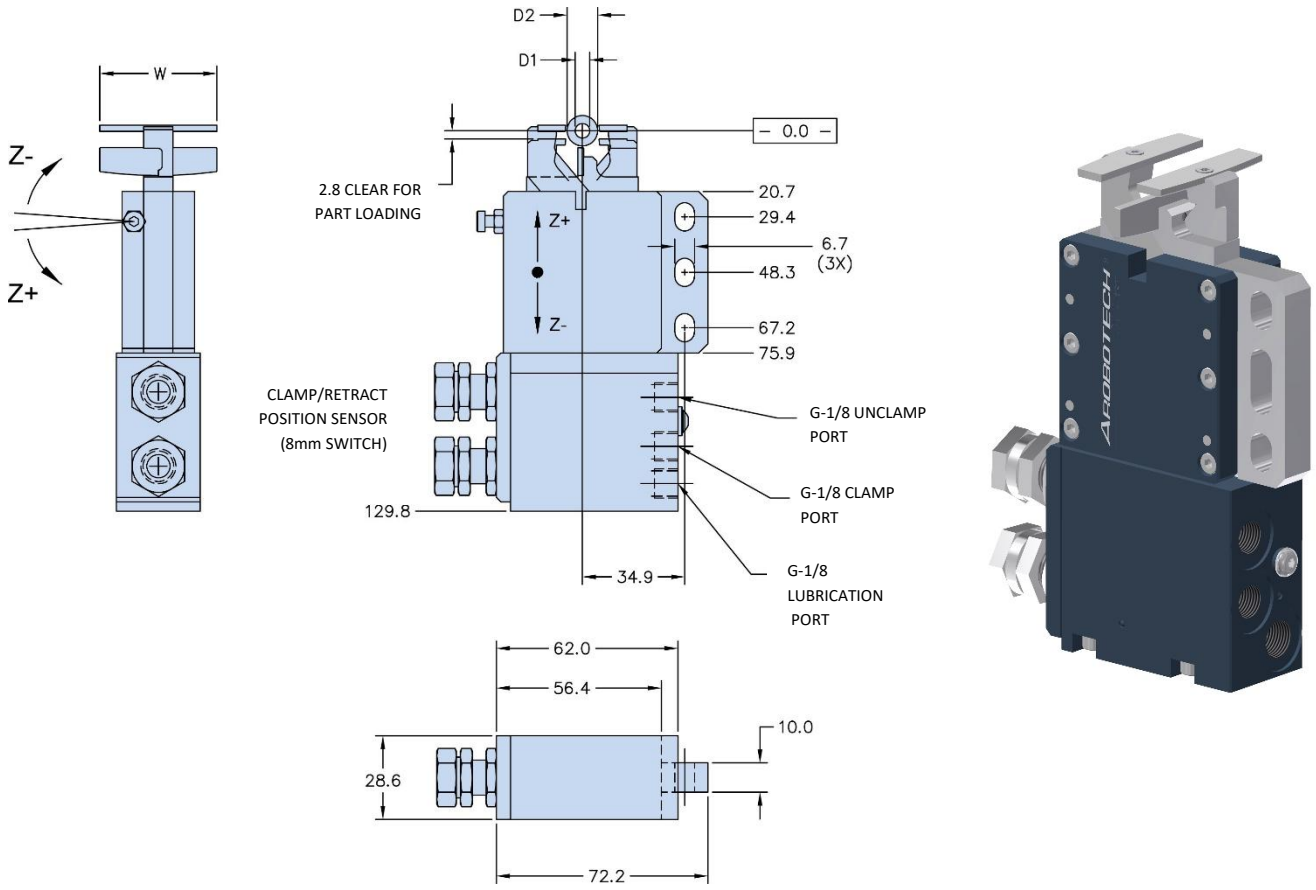
** Contact sales@arobotech.com for pads not listed above

Included Features
* Arm Retraction For Part Loading
* Z-Axis Centerline Adjustment

Items Required To Use This Product:
* Set of Wear Pads
* Mounting Base
* Drive Mechanism

**Note**
**This Model Requires OEM Supplied Drive Mechanism**

# GC32676A | Grinding AUTO REST®




| Pad Set | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Minimum Clamp Diameter | D1 | mm | 1 | 2.5 | 2.5 | 2.5 | 2.5 | 5 | 5 | 5 | 5 | 9.5 | 10.5 | 10.5 |
| Maximum Clamp Diameter | D2 | mm | 3 | 8 | 8 | 8 | 8 | 10.5 | 10.5 | 10.5 | 10.5 | 15 | 16 | 16 |
| Width | W | mm | 30 | 25 | 30 | 40 | 50 | 50 | 60 | 70 | 80 | 70 | 80 | 90 |

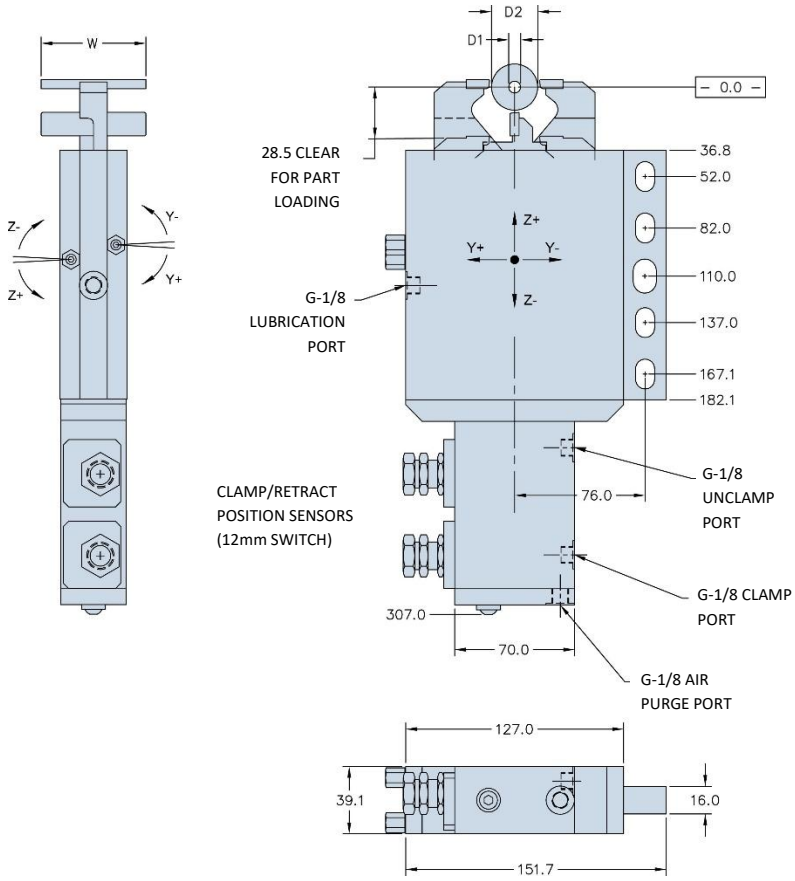
| | | |
|---|---|---|
| Z-Axis Adjustment Range | mm | ±0.056 |
| Y-Axis Adjustment Range | mm | N/A |
| Piston Area | cm2 | 2.8 |
| Cylinder Stroke | mm | 8.6 |
| Operating Pressure | bar | 10 – 27 |
| Maximum Pressure | bar | 32 |
| Air Purge Pressure | bar | N/A |
| Lubrication Volume | cm3 | 0.02 – 0.03 |
| Lubrication Frequency | | Working Cycle (or every 6 minutes) |
| Repeatability | mm | ±0.001 |
| Mass | kg | 1.5 |

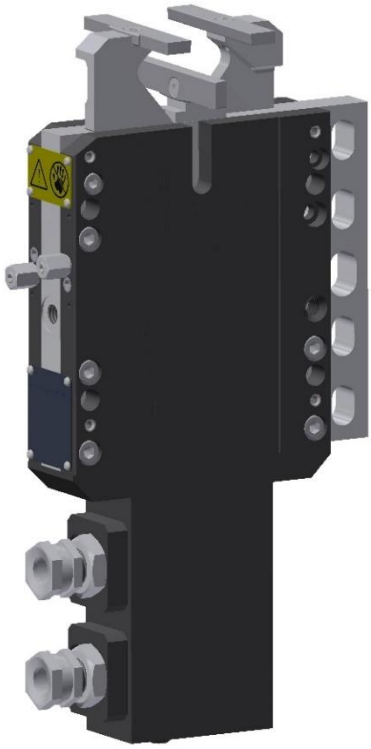
** Contact sales@arobotech.com for pads not listed above

Included Features
* Arm Retraction For Part Loading
* Z-Axis Centerline Adjustment
* Position Feedback Sensors

Items Required To Use This Product:
* Set of Wear Pads
* Mounting Base

# Grinding AUTO REST® | GC292222Y-MOD



| Pad Set | | | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|---|
| Minimum Clamp Diameter | D1 | mm | 3 | 3 | 3 | 7 | 7 | 7 |
| Maximum Clamp Diameter | D2 | mm | 10 | 10 | 10 | 27 | 27 | 27 |
| Width | W | mm | 15 | 25 | 40 | 20 | 50 | 70 |

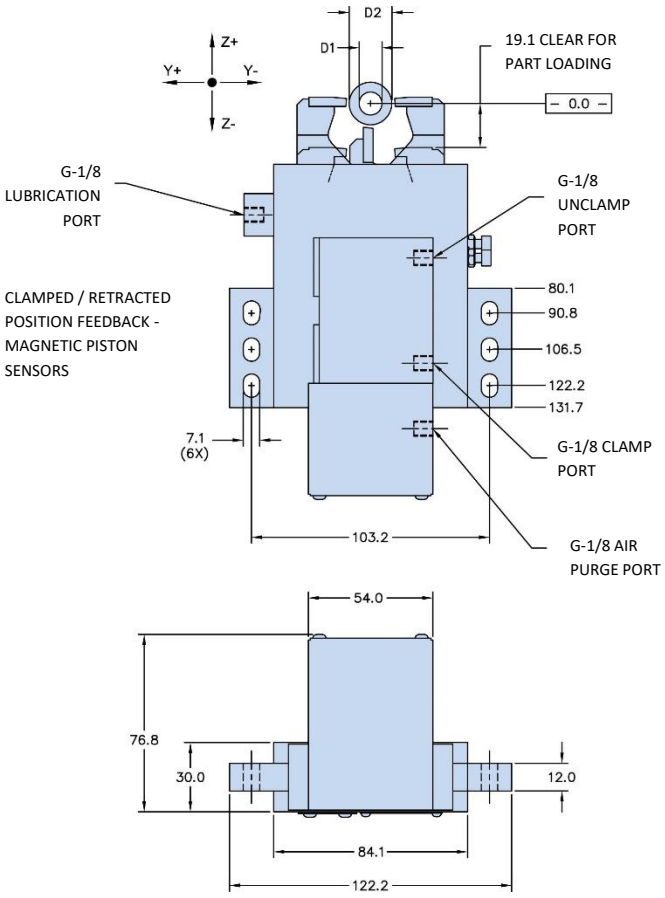
** Contact sales@arobotech.com for pads not listed

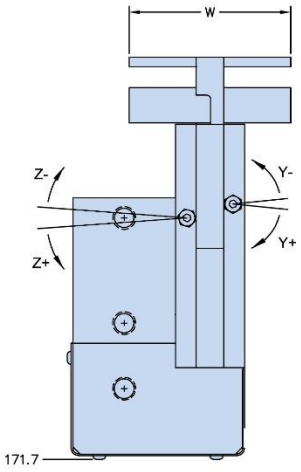
| | | |
|---|---|---|
| Z-Axis Adjustment Range | mm | ±0.22 |
| Y-Axis Adjustment Range | mm | ±0.07 |
| Piston Area | cm2 | 6.12 |
| Cylinder Stroke | mm | 60 |
| Operating Pressure | bar | 15 – 30 |
| Maximum Pressure | bar | 45 |
| Air Purge Pressure | bar | 0.3 – 0.5 |
| Lubrication Volume | cm3 | 0.03 – 0.04 |
| Lubrication Frequency | | Working Cycle (or every 6 minutes) |
| Repeatability | mm | ±0.001 |
| Mass | kg | 5 |

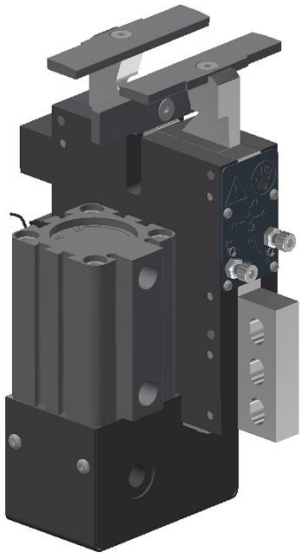
Included Features
* Arm Retraction for Part Loading
* 2-Axis Centerline Adjustment
* Position Feedback Sensors
* Air Purge Port

Items Required To Use This Product:
* Set of Wear Pads
* Mounting Base

# GC03972A | Grinding AUTO REST®






| Tool Grinding Pad Set | | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Minimum Clamp Diameter | D1 | mm | 2 | 3 | 3 | 3 | 3 | 3 | 10 | 10 | 10 | 18.5 |
| Maximum Clamp Diameter | D2 | mm | 4 | 10 | 10 | 10 | 10 | 10 | 18.5 | 18.5 | 18.5 | 26.5 |
| Width | W | mm | 50 | 10 | 15 | 25 | 45 | 82 | 40 | 70 | 108 | 170 |

| OD Grinding Pad Set | | | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|
| Minimum Clamp Diameter | D1 | mm | 2 | 3 | 10 | 18.5 |
| Maximum Clamp Diameter | D2 | mm | 4 | 10 | 18.5 | 26.5 |

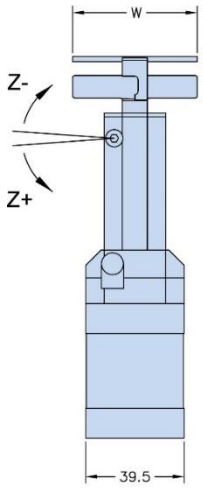
** Contact sales@arobotech.com for pads not listed above

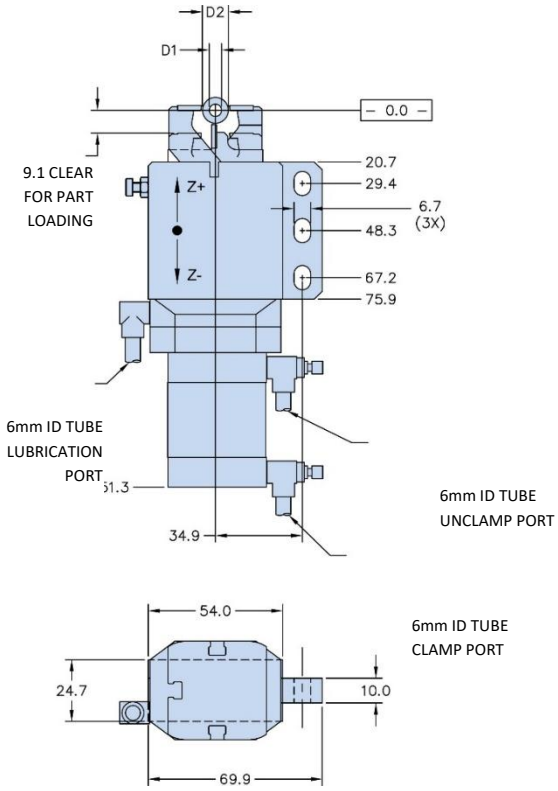
| | | |
|---|---|---|
| Z-Axis Adjustment Range | mm | ±0.13 |
| Y-Axis Adjustment Range | mm | ±0.08 |
| Piston Area | cm2 | 2.8 |
| Cylinder Stroke | mm | 29 |
| Operating Pressure | bar | 10 – 27 |
| Maximum Pressure | bar | 32 |
| Air Purge Pressure | bar | 0.3 – 0.5 |
| Lubrication Volume | cm3 | 0.02 – 0.03 |
| Lubrication Frequency | | Working Cycle (or every 6 minutes) |
| Repeatability | mm | ±0.001 |
| Mass | kg | 4 |

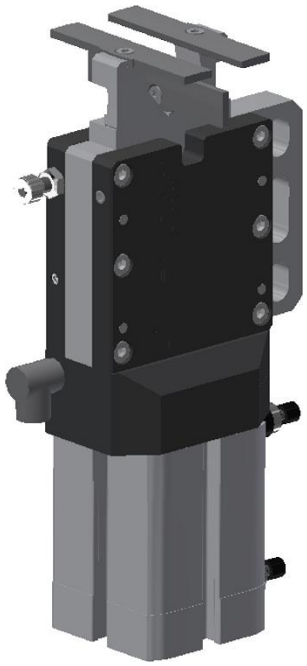
Included Features
* Arm Retraction For Part Loading
* 2-Axis Centerline Adjustment
* Position Feedback Sensors
* Air Purge Port

Items Required To Use This Product:
* Set of Wear Pads
* Mounting Base

# Grinding AUTO REST® | GC38341A



| Tool Grinding Pad Set | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Minimum Clamp Diameter | D1 | mm | 1 | 2.5 | 2.5 | 2.5 | 2.5 | 5 | 5 | 5 | 5 | 9.5 | 10.5 | 10.5 |
| Maximum Clamp Diameter | D2 | mm | 3 | 8 | 8 | 8 | 8 | 10.5 | 10.5 | 10.5 | 10.5 | 15 | 16 | 16 |
| Width | W | mm | 30 | 25 | 30 | 40 | 50 | 50 | 60 | 70 | 80 | 70 | 80 | 90 |

| **OD Grinding Pad Set** | | | 21 | 22 | 23 |
|---|---|---|---|---|---|
| Minimum Clamp Diameter | D1 | mm | 2.8 | 5 | 9.5 |
| Maximum Clamp Diameter | D2 | mm | 8 | 10.5 | 15 |

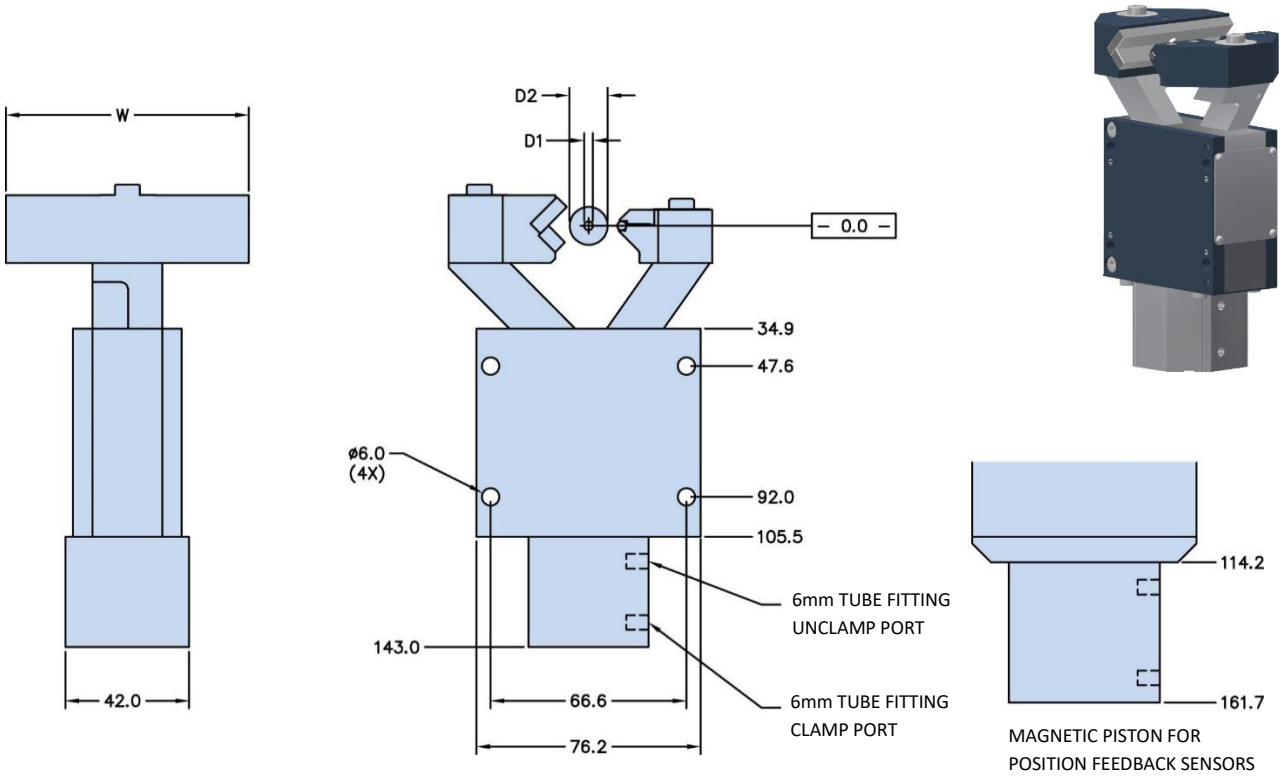
** Contact sales@arobotech.com
for pads not listed above

| | | |
|---|---|---|
| Z-Axis Adjustment Range | mm | ±0.056 |
| Y-Axis Adjustment Range | mm | N/A |
| Piston Area | cm2 | 4.9 |
| Cylinder Stroke | mm | 15 |
| Operating Pressure | bar | 5 – 10 |
| Maximum Pressure | bar | 10 |
| Air Purge Pressure | bar | N/A |
| Lubrication Volume | cm3 | 0.02 – 0.03 |
| Lubrication Frequency | | Working Cycle (or every 6 minutes) |
| Repeatability | mm | ±0.003 |
| Mass | kg | 1 |

Included Features
* Air Operation
* Arm Retraction For Part Loading
* Z-Axis Centerline Adjustment

Items Required To Use This Product:
* Set of Wear Pads
* Mounting Base

# DP-090 | AUTO POINT™




| Pad Set | | | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|
| Minimum Clamp Diameter | D1 | mm | 3 | 3 | 3 | 3 |
| Maximum Clamp Diameter | D2 | mm | 13 | 13 | 13 | 13 |
| Width | W | mm | 25 | 33 | 63.5 | 82.6 |

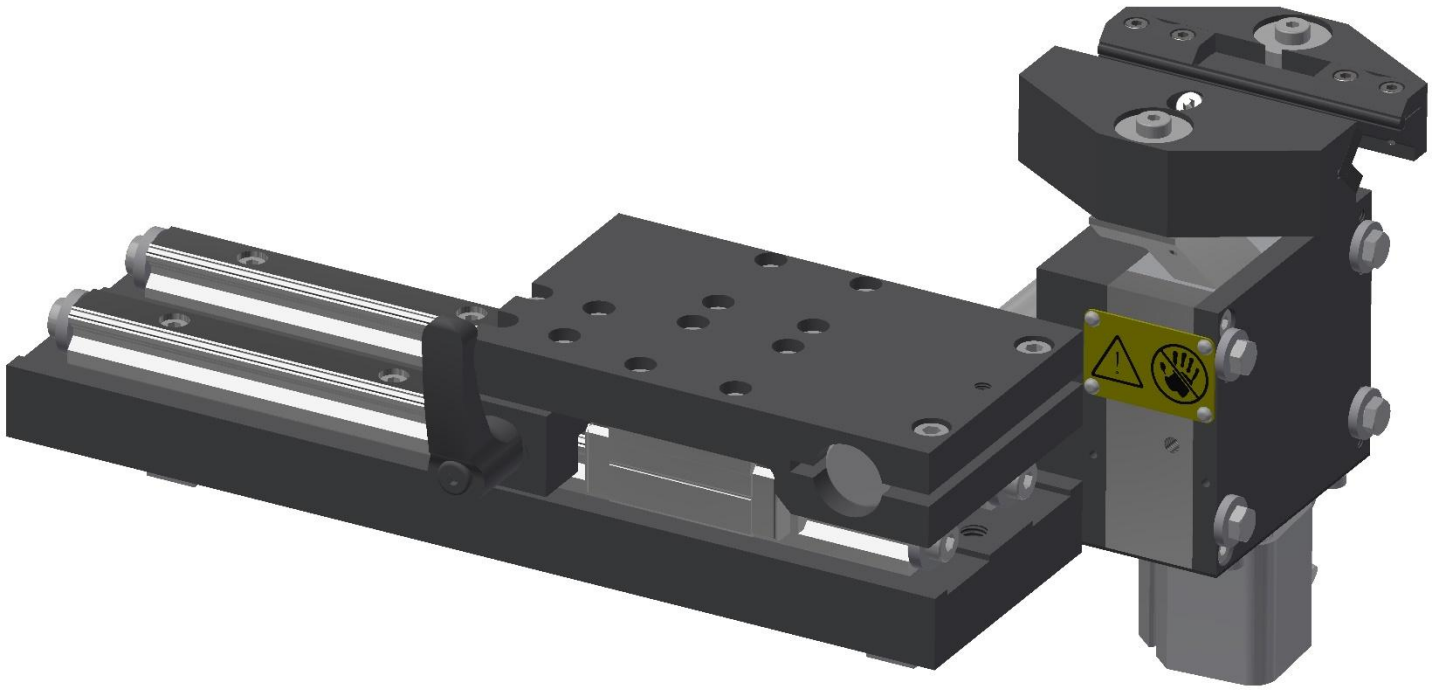
** Contact sales@arobotech.com for pads not listed above

| | | |
|---|---|---|
| Z-Axis Adjustment Range | mm | N/A |
| Y-Axis Adjustment Range | mm | N/A |
| Piston Area | cm2 | 4.8 |
| Cylinder Stroke | mm | 12.7 |
| Operating Pressure (Air) | bar | 4 - 8 |
| Maximum Pressure (Air) | bar | 8 |
| Air Purge Pressure | bar | N/A |
| Lubrication Volume | cm3 | N/A |
| Lubrication Frequency | | N/A |
| Repeatability | mm | ±0.003 |
| Mass | kg | 2 |

Included Features:
* Automatic Centering
* Pivoting Tooling for Back Taper Alignment
* Renewable Wear Pads for Long Service Life
* Lubricated With Ambient Oil
  (no separate lubrication required)
* Air Operated

**Note**
**This product typically used with Arobotech Quick-Change base for fastest change-over time. Contact us with machine information for details.**

# AUTO POINT™ | DP-090 Mounting



**Model DP-090 is offered with a Quick-Change mounting base for fast change-over**

Our Quick-Change mounting base features 2 linear guideways aligned to wheelhead axial movement. This allows lateral re-positioning of the DP-090 without re-alignment. The manual locking handle allows DP-090 to be firmly locked in place after each move.

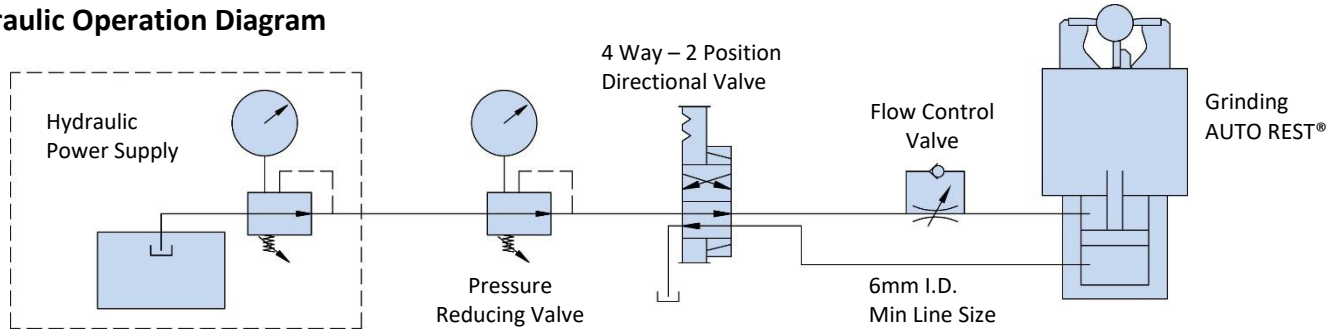
The Quick-Change mounting base can be adapted to most machine tables. Contact sales@arobotech.com with your machine details for more information.

# Machine Prep | Grinding AUTO REST®

Warning! Grinding AUTO REST®s are hydraulically operated. Care must be taken at all times to avoid injury or damage to equipment

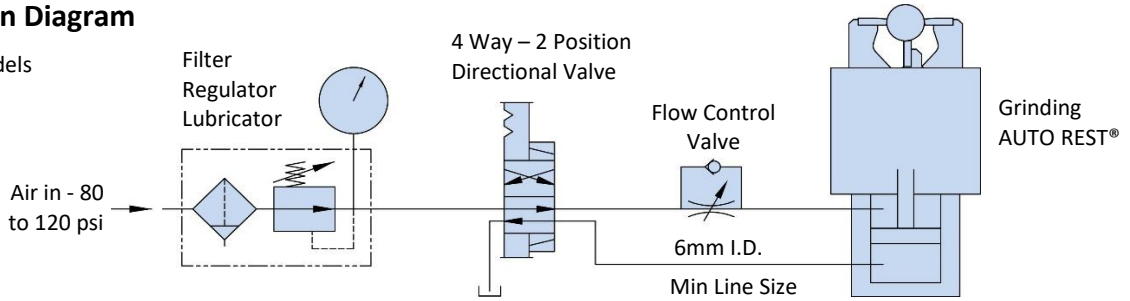
Under no circumstances will this document take precedent over the machine builder operating and safety guidelines

## Hydraulic Operation Diagram




## Pneumatic Operation Diagram

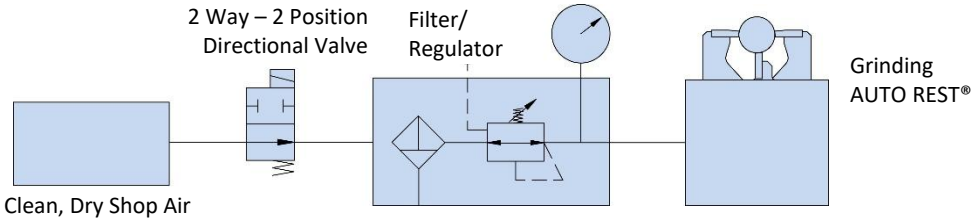
Only use air to operate models designated "Air Operation"




## Air Purge

Grinding AUTO REST® uses Air Purge port to pressurize inside the body for maximum service life

5 to 7 psi recommended pressure




## Hydraulic Operation

- Recommended Hydraulic Power Supply = 3GPM (11 LPM) @ 500 psi (34 bar) minimum. See operator's manual for specific model recommended operating pressure. Hydraulic pump must maintain pressure to the rest when clamped and unclamped
- 4 way – 2 position solenoid valve with a pressure reducing valve.
- Flow control valve - 1 second minimum recommended clamping time.
- 6mm (.25") minimum hydraulic line size.

## Air Operation

- Recommended Air Pressure = 6 to 8.3 Bar (90 to 120 psi). Pressure should be isolated and remain constant to avoid changes in clamping pressure.
- 4 way – 2 position solenoid valve with a pressure reducing valve.
- Flow control valve - 1 second minimum recommended clamping time.
- 6mm (.25") minimum hydraulic line size.

## Electrical

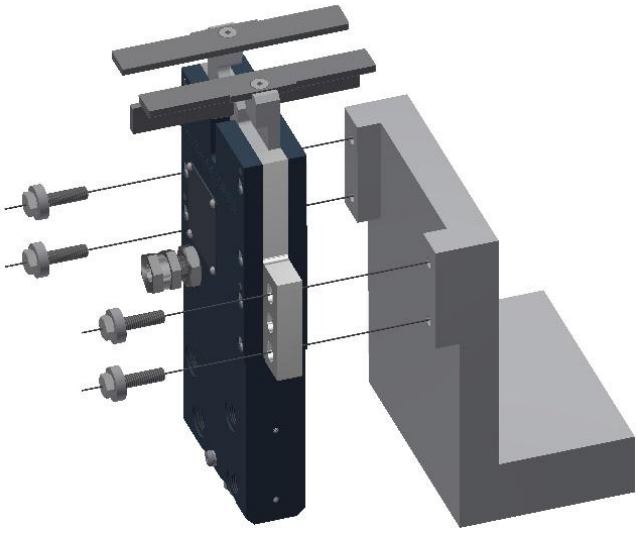
- Interface to machine control is the customer's responsibility. Arobotech does not supply a machine control interfaces
- Position sensors are available for most models – see engineering files for specific sensor type and size
- Machine door should be prepared so that the steady rest can be operated in manual model with the door open. Always follow valid safety regulations.

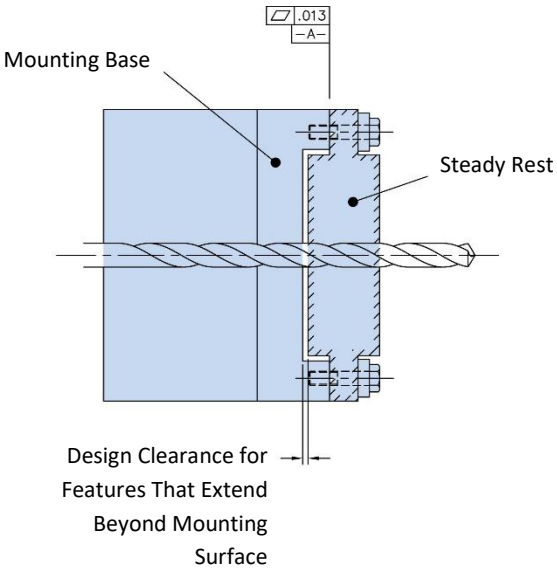
## Lubrication

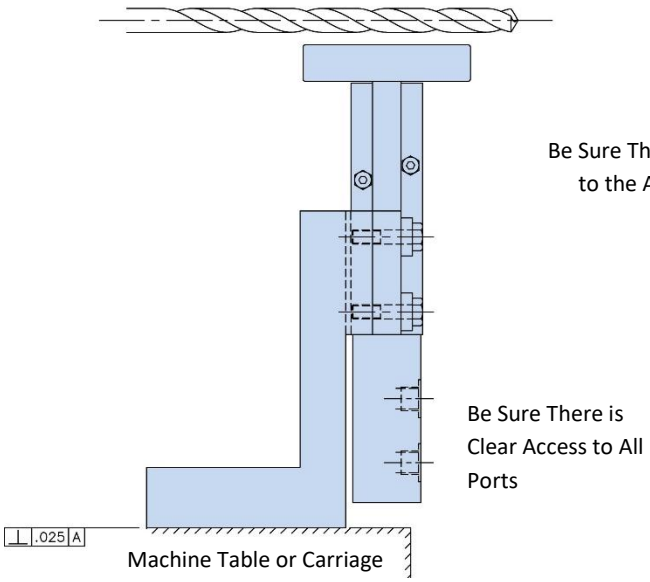
Machine must be capable of delivering lubrication oil to each Grinding AUTO REST® every 6 minutes or each working cycle (whichever is more frequent. See engineering files for specific model volume recommendations.

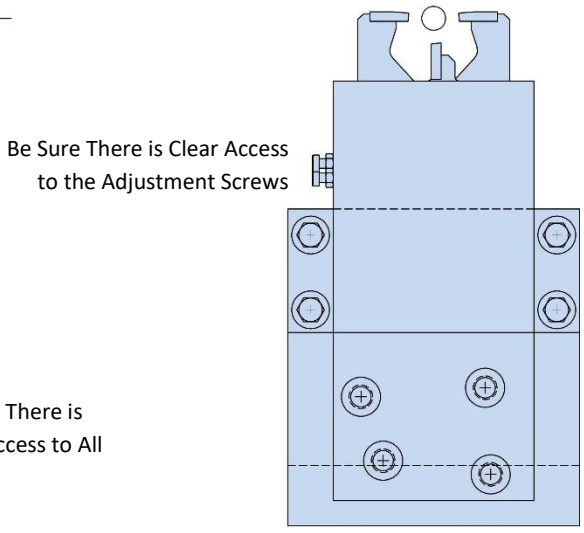
Take care to keep mounting surfaces flat and square as shown for best performance

See data sheet or engineering files for mounting dimensions of each model





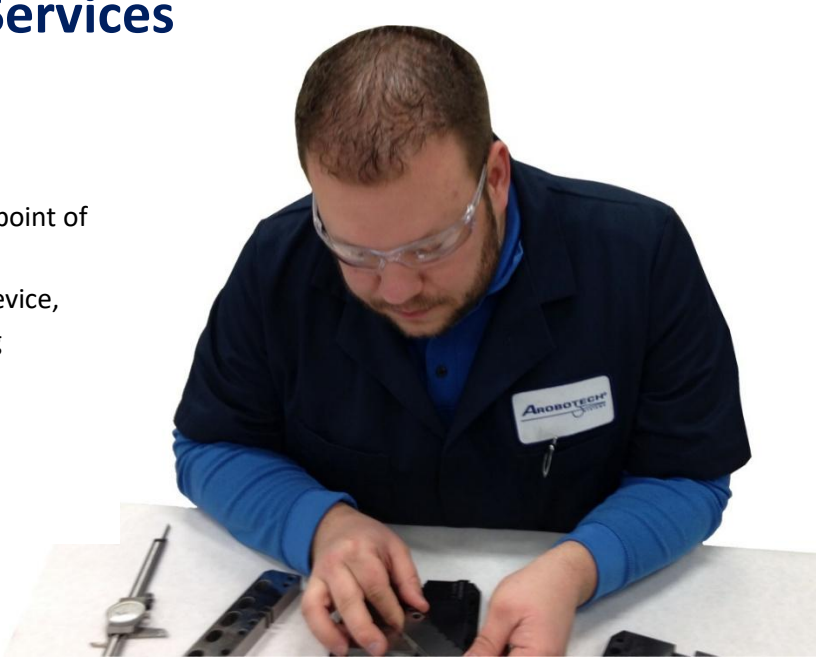



# Services

## Our commitment

Arobotech Systems is a full service company. Our relationship with the customer does not end at the point of sale and delivery. When you purchase an Arobotech product you gain not only a superior workholding device, but also many years of experience with workholding solutions.

Arobotech offers full support of all of our products for their entire service life.



## Available Services

- **Installation**
  - Arobotech has experienced personnel to assist with Grinding AUTO REST® and accessories
- **Training**
  - Our staff offers experienced on-site training for your engineering and production staff
- **Troubleshooting**
  - We bring many years of experience to troubleshooting your Grinding AUTO REST® and grinding process. Contact service@arobotech.com for support. On site troubleshooting is available.
- **Repair and Reconditioning**

**service@arobotech.com**

# Accessories

Arobotech offers a full complement of accessories for use with our Grinding AUTO REST® products

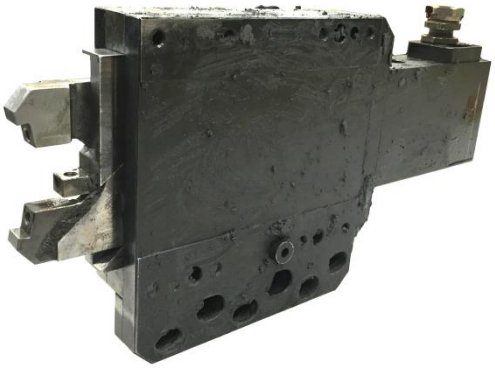
- Mounting Bracket
- Pre-Position Vee Cradles
- Specialty Tooling



## Repair and Reconditioning Service

Arobotech offers complete repair and reconditioning service. Damaged or worn units can be returned for a free-of-charge performance / condition evaluation

**Old Unit**



**Repaired / Reconditioned Unit**




**Return for Evaluation**

All Returns Require an RMA Number - Contact us at to request an RMA number
www.arobotech.com/service/
+001 248-588-9080
service@arobotech.com

Authorized products may be returned to Arobotech for a performance / condition evaluation at no charge with the following conditions:

- Include RMA number on outside of the shipping container and all shipping documents
- Label “Return for Evaluation”
- Include a description of the symptom or failure that prompted the return (as described on the RMA)
- Include contact information (as listed on the RMA)
- Packaging should be sufficient to prevent damage during transit
- Customer is responsible for all shipping charges

Ship subject unit(s) to:
**Arobotech Systems**
**1524 E. Avis Drive**
**Madison Heights, MI 48071**
**USA**

Shipments from outside the United states also must have noted on all paperwork: **“These goods were manufactured in the United States and are being returned for repair”**

Shipping terms must be DDP

Contact us with any questions:
+001 248-588-9080
sales@arobotech.com

Notify us at sales@arobotech.com when shipment is made so we can track and prepare our evaluation team

**Evaluation Report**

Our team will perform a full evaluation and issue a report (including cost to repair / recondition). Please allow 2 weeks for the evaluation report after receipt at our facility.

Once the evaluation report is complete, we require one of the following actions within the 90 day evaluation period:

- Purchase order to begin repairs
- Return unit as is with no repair
- Scrap at our facility (written direction required)

# Grinding AUTO REST®


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## WORLD LEADER IN STEADY REST TECHNOLOGY

## www.arobotech.com

10-2026