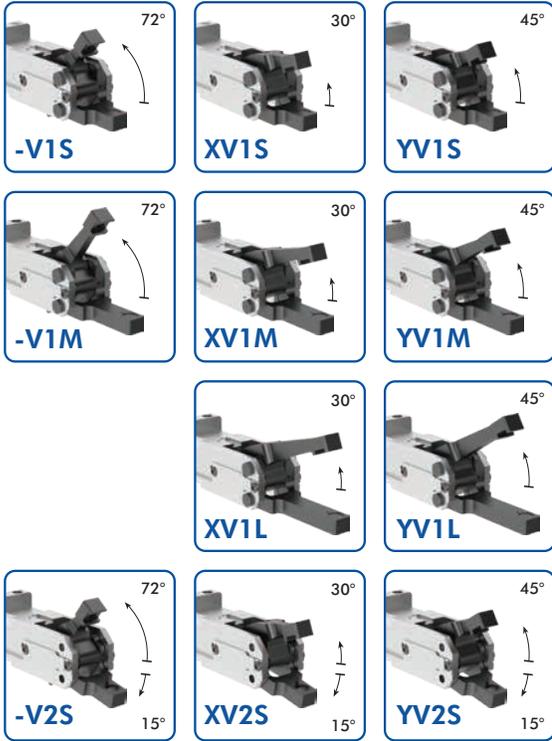


84AF2 SERIES (FIXED/MOVEABLE LOWER JAW)

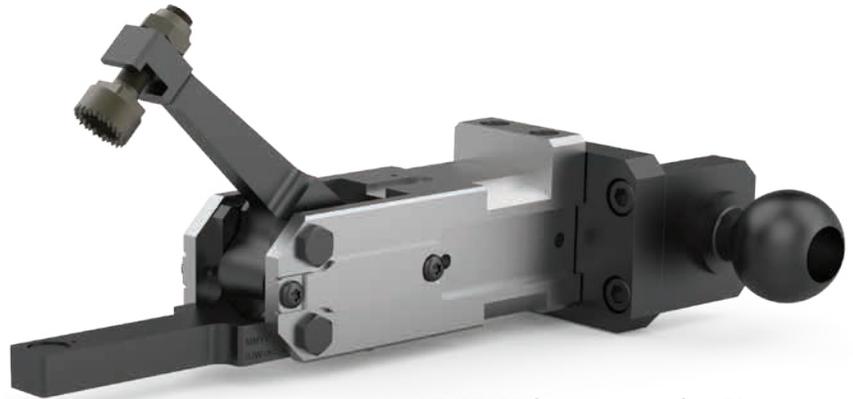
Cam Type Sheet Metal Grippers | Ordering Information

84AF2 -V1S D9 V 00 02

Jaw Type/Opening Angle Options



| | Upper Jaw | Lower Jaw | Jaw Type |
|------|-----------|-----------|----------|
| -V1S | 72° | | Short |
| XV1S | 30° | 0° | |
| YV1S | 45° | | |
| -V1M | 72° | | Medium |
| XV1M | 30° | 0° | |
| YV1M | 45° | | |
| XV1L | 30° | 0° | Long |
| YV1L | 45° | | |
| -V2S | 72° | | Short |
| XV2S | 30° | 15° | |
| YV2S | 45° | | |



84AF2YV1L long jaw with 45° opening angle/ fixed lower jaw shown with GT-BGA-A mount.



84AF2XV2S short jaw with 30° upper/15° lower opening angle shown with 82ZB-131-1 mount.

| Specifications | Unit | |
|--|------|------|
| Piston | mm | 25 |
| Actuation Time (open/close) | sec | <0,1 |
| Air Consumption per Double Stroke at 6 bar | L | 0,13 |

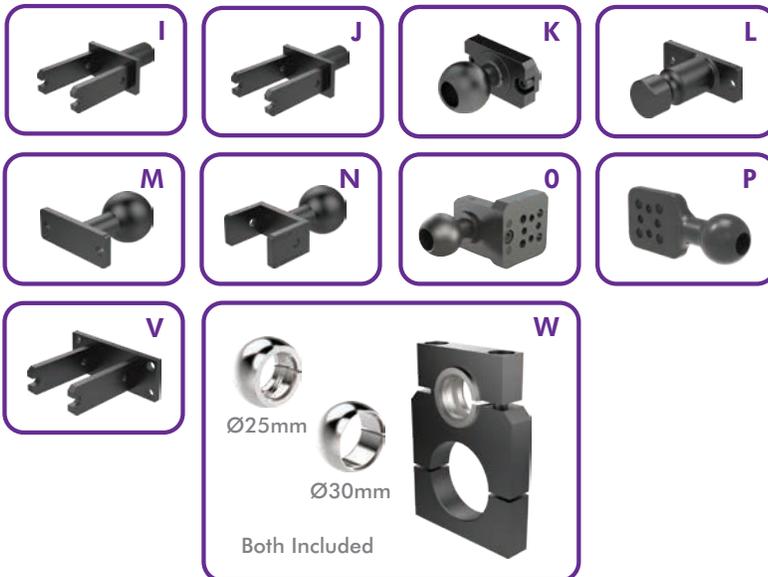
84AF2 SERIES (FIXED/MOVEABLE LOWER JAW)

Cam Type Sheet Metal Grippers | Ordering Information

Mounting Options

| Description | |
|-------------|--------------------------------------|
| 0 | None |
| I | Ø20mm Rear Rod 8MA-165-1 |
| J | Ø25mm Rear Rod 8MA-166-1 |
| K | Ø32mm Ball Adapter* 82ZB-131-1 |
| L | Ø20mm Apple Core* GT-20M-84A2-L-R |
| M | Ø32mm Side Ball* GT-32B-84A2-L-R |
| N | Ø32mm Rear Ball GT-32B-84A2-B |
| O | Ø32mm 90° Ball* GT-BGA-A |
| P | Ø32mm Ball Paddle GT-BGA-32B |
| V | Rear Flange 8MA-147-1 |
| W | On-Body Swivel Ball 82ZB-025-2 |

*Mounted on left as standard.



Gripper Tips, Teeth (for Upper Jaw only)

| Description | |
|-------------|------------------------------|
| 00 | None |
| 02 | Gripper Tip 8JD-1004-1 |
| 06 | Neoprene Tip 8JD-062-1 |
| 18 | 18mm Gripper Teeth 8JZ-125-1 |
| 20 | 20mm Gripper Teeth 8JZ-124-1 |



Shims for gripper teeth available
Order Separately **8SB-091-1**
Dimensions: 15 x 10 x 0,1 mm

Sensor Options (not suitable for High Temperature applications)

| Description | |
|-------------|--|
| D9 | PNP Part Presence Sensor, M12X1 Plug - 8EA-1024-1 (Standard on all models) |
| GS | 1X D9 Part Presence Sensor, M12X1 Plug - 8EA-1024-1 1X D5 Double Sheet Control Sensor, M12x1 Plug - 8EA-087-1 |
| GT | 1X D9 Part Presence Sensor, M12X1 Plug - 8EA-1024-1 2X D5 Double Sheet Control Sensor, M12x1 Plug - 8EA-087-1 |



Cover for Sensing Systems **GS, GT**
Order Separately **82ZB-185-1**



T-Coupler M12x1 for Sensing System **GS**
Order Separately **7000-41161-0000000**

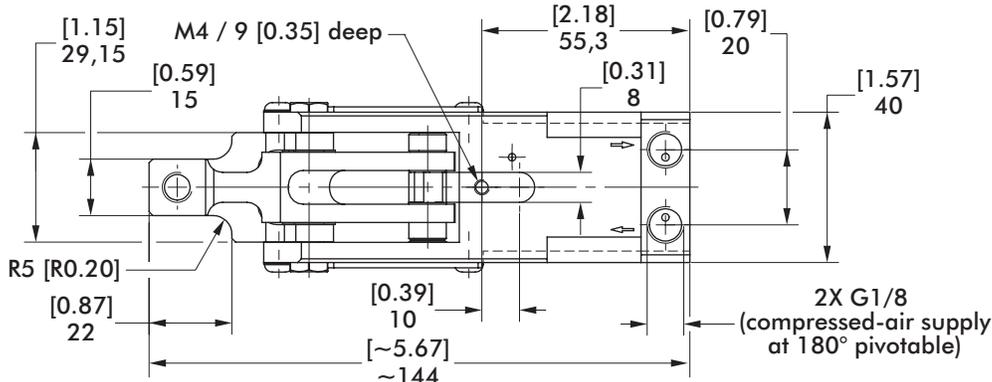


Sheet Stops/Guards Kit available
(For Jaw Arrangement
Options **V1S, V1M, V1L** only)
Order Separately - **84A2-00001**

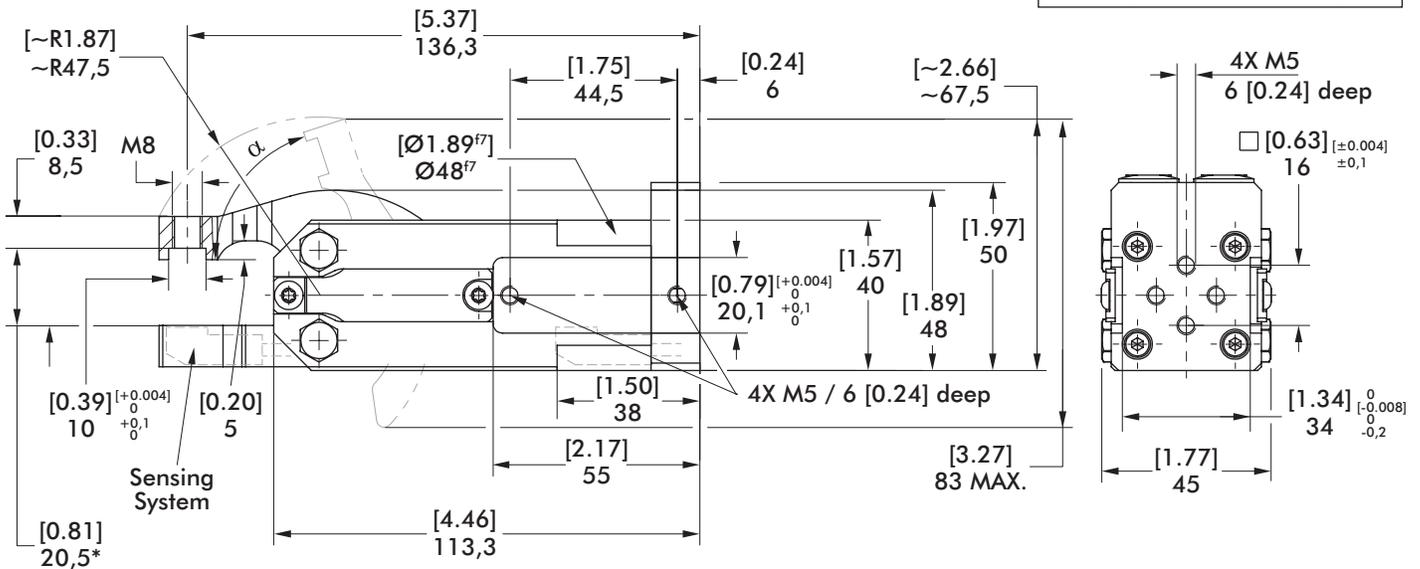
84AF2.V.S SHORT LENGTH FIXED/MOVEABLE LOWER JAW

Cam Type Sheet Metal Grippers | Dimensions and Technical Specifications

84AF2.V1S Fixed Lower Jaw



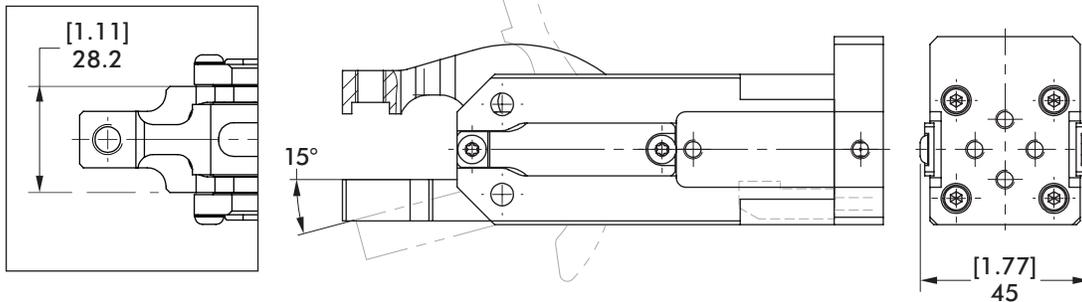
NOTE! Any extension of the moveable or fixed gripper jaws as well as the additional attachment of weights will void warranty.



* Note! Addition of gripper teeth height and thickness of the clamped plate must be 20,5 [0.81]. It might be necessary to use shim plates or to grind off the gripper teeth.

Medium air, min. 3 bar, max. 6 bar.
Operation with oil-free air is permissible.

84AF2.V2S Moveable Lower Jaw



| Model 84AF2.V1S / 84AF2.V2S | Opening Angle α | | Clamping force at 6 bar ~N [lbf] | Weight Kg [lbs] |
|--------------------------------|------------------------|-------------|-------------------------------------|--------------------|
| | Upper | Upper/Lower | | |
| - | 72° | 72°/15° | V1S: 820 [184] V2S: 475 [107] | 0,6 [1.32] |
| X | 30° | 30°/15° | | |
| Y | 45° | 45°/15° | | |

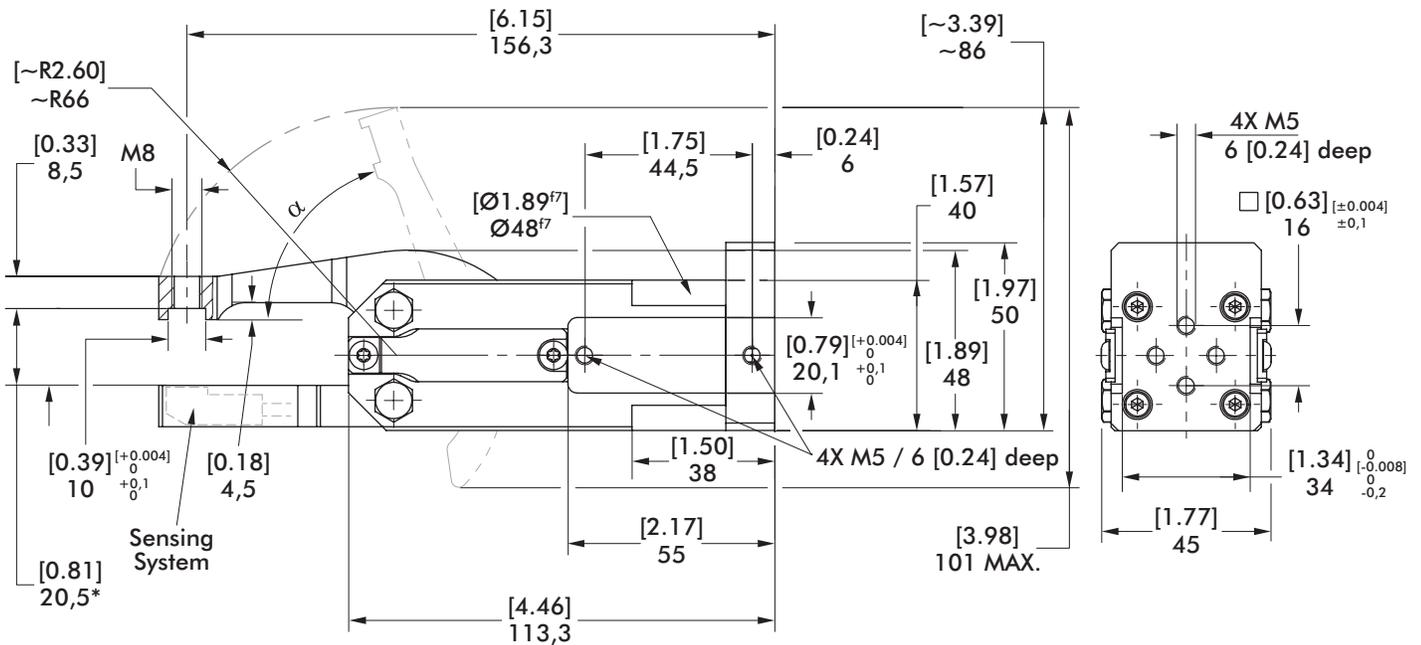
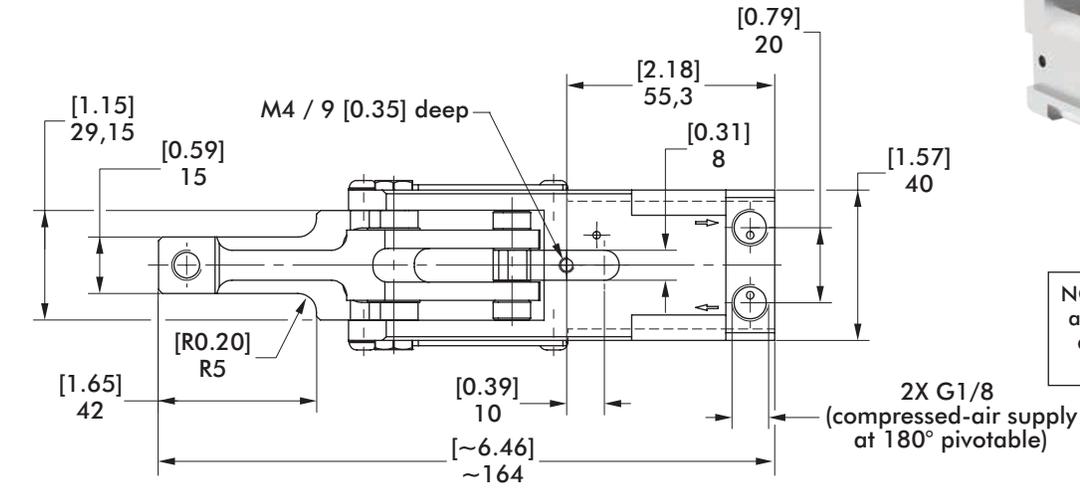
84AF2.V1M MEDIUM LENGTH, FIXED LOWER JAW

Cam Type Sheet Metal Grippers | Dimensions and Technical Specifications

84AF2.V1M



NOTE! Any extension of the moveable or fixed gripper jaws as well as the additional attachment of weights will void warranty.



* Note! Addition of gripper teeth height and thickness of the clamped plate must be 20,5 [0.81]. It might be necessary to use shim plates or to grind off the gripper teeth.

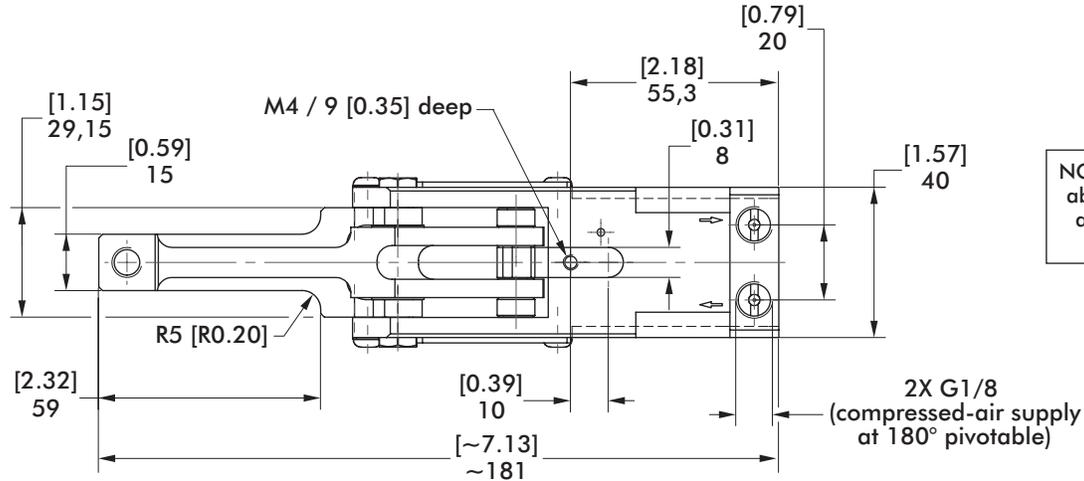
Medium air, min. 3 bar, max. 6 bar.
Operation with oil-free air is permissible.

| Model 84AF2.V1M | Opening Angle α | Clamping force at 6 bar ~N [lbf] | Weight Kg [lbs] |
|--------------------|------------------------|-------------------------------------|--------------------|
| - | 72° | 560 [126] | 0,62 [1.37] |
| X | 30° | | |
| Y | 45° | | |

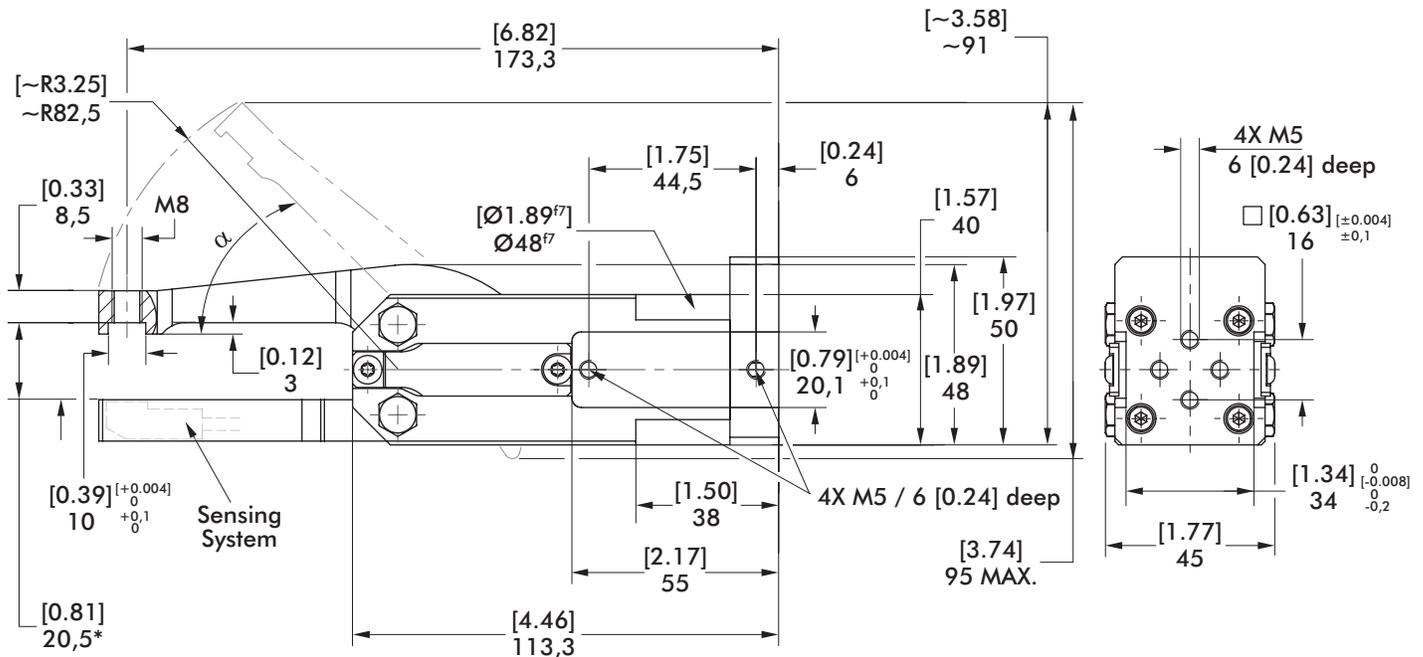
84AF2.V1L LONG LENGTH, FIXED LOWER JAW

Cam Type Sheet Metal Grippers | Dimensions and Technical Specifications

84AF2.V1L



NOTE! Any extension of the moveable or fixed gripper jaws as well as the additional attachment of weights will void warranty.



* Note! Addition of gripper teeth height and thickness of the clamped plate must be 20,5 [0.81]. It might be necessary to use shim plates or to grind off the gripper teeth.

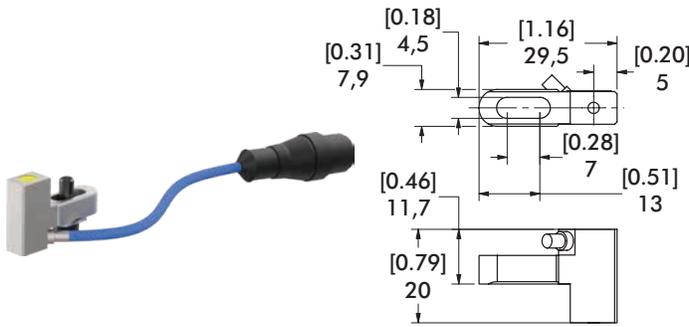
Medium air, min. 3 bar, max. 6 bar. Operation with oil-free air is permissible.

| Model 84AF2.V1L | Opening Angle α | Clamping force at 6 bar ~N [lbf] | Weight Kg [lbs] |
|--------------------|------------------------|-------------------------------------|--------------------|
| X | 30° | 300 [67.4] | 0,65 [1.43] |
| Y | 45° | | |

84A2, 84AF2 SERIES ACCESSORIES

Cam Type Sheet Metal Grippers | Dimensions and Technical Specifications

Sensors

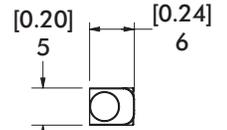
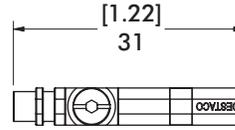


Double Sheet Control Sensor

Part

1.5mm Sensing Distance, M12x1 Plug

8EA-087-1

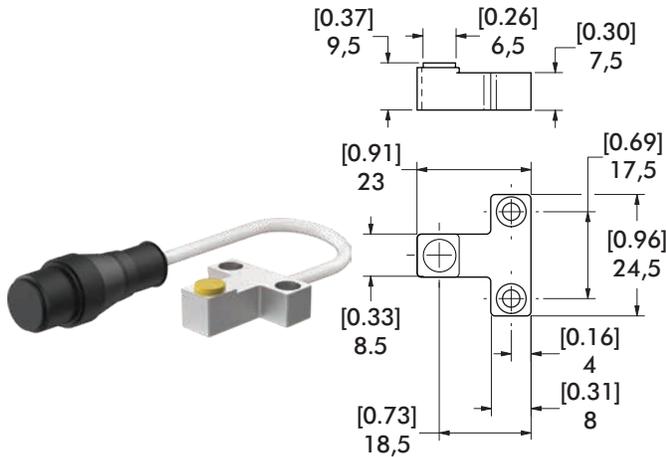


Proximity Switch (84AT2 only)

Part

T-Slot, M8x1 Plug

8EA-109-1



Part Present Sensor

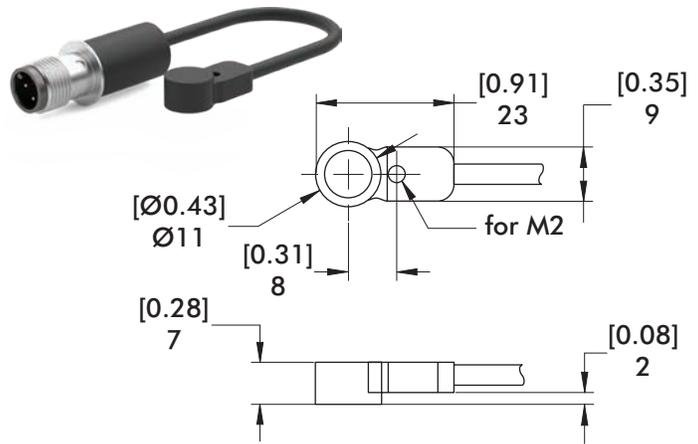
Part

1,9mm Sensing Distance, 2m Cable

8EA-164-1

1,9mm Sensing Distance, M12x1 Plug

8EA-165-1



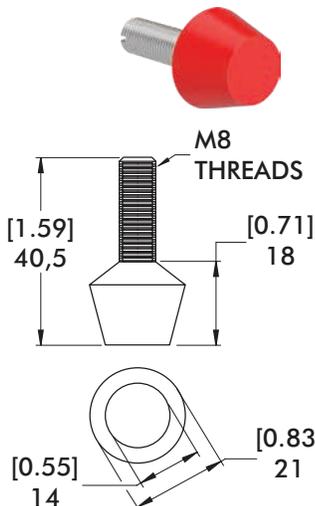
Jaw Part Present Sensor (84AF2 only)

Part

3mm Sensing Distance, M12x1 Plug

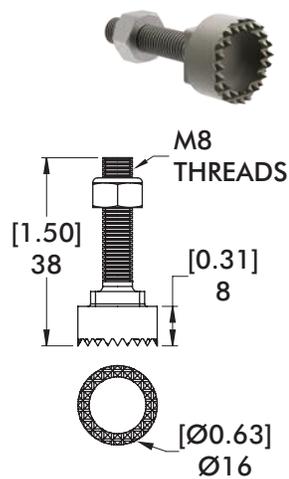
8EA-1024-1

Tips/Teeth (84AF2 only)



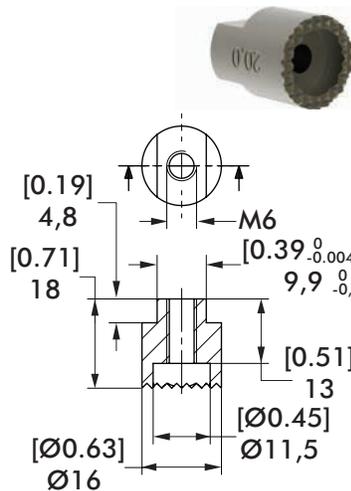
Part

8JD-062-1



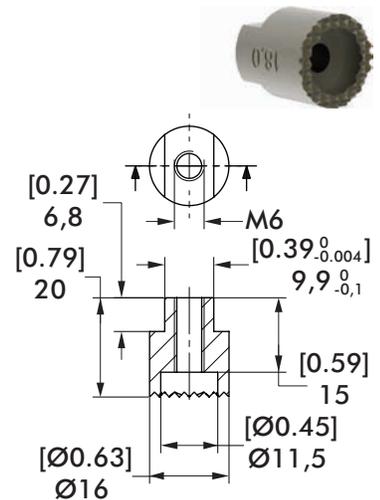
Part

8JD-1004-1



Part

8JZ-124-1



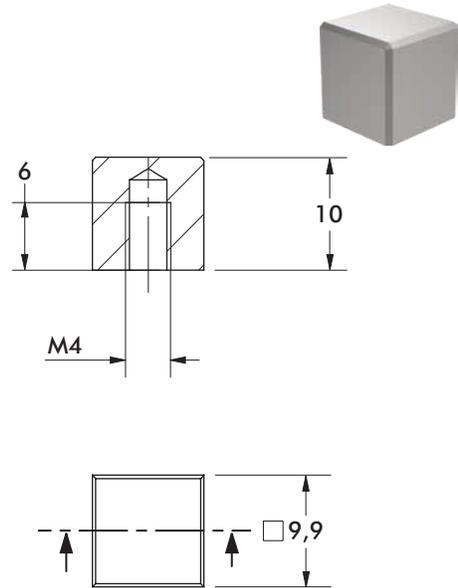
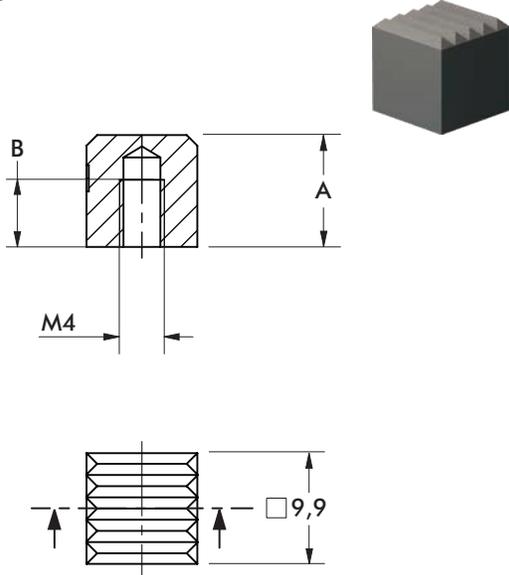
Part

8JZ-125-1

84A2 SERIES ACCESSORIES

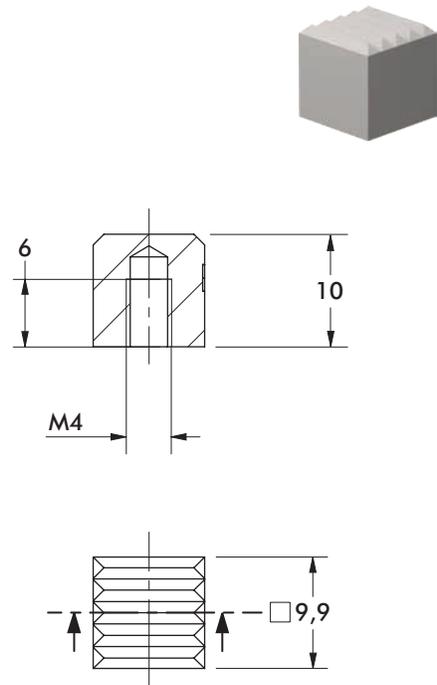
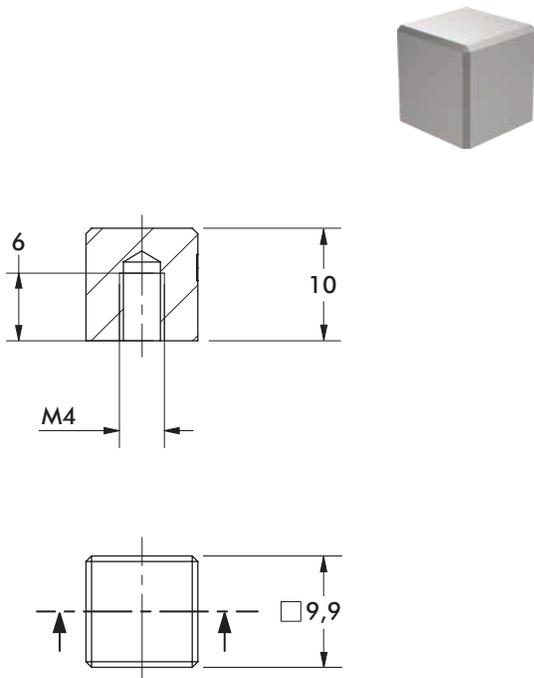
Cam Type Sheet Metal Grippers | Dimensions and Ordering Information

Steel Teeth



| Hardened Steel Teeth | Part # | A | B |
|----------------------|------------------|----|---|
| Serrated | 8JZ-049-1 | 9 | 5 |
| Serrated | 8JZ-027-1 | 10 | 6 |

| Soft Steel Teeth | Part # |
|------------------|------------------|
| Non-Serrated | 8JZ-028-1 |



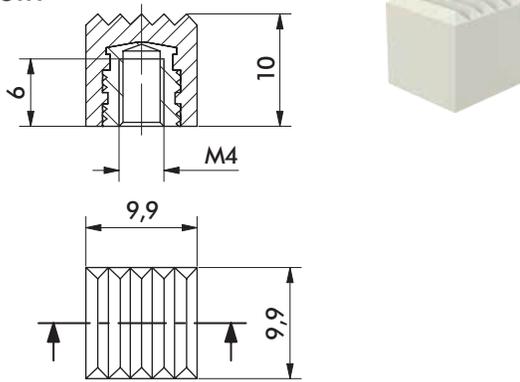
| Hi-Temp Stainless Steel Teeth | Part # |
|-------------------------------|------------------|
| Non-Serrated | 8JZ-085-1 |

| Hi-Temp Stainless Steel Teeth | Part # |
|-------------------------------|------------------|
| Serrated | 8JZ-092-1 |

84A2 SERIES ACCESSORIES

Cam Type Sheet Metal Grippers | Dimensions and Ordering Information

Plastic Teeth



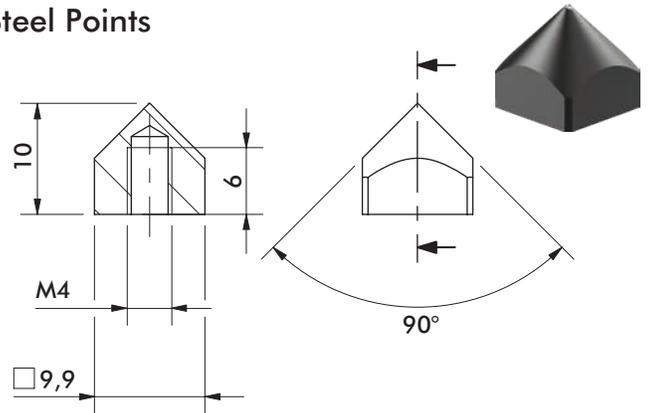
Plastic Teeth

90 Shore, Serrated

Part

8JZ-045-2

Steel Points



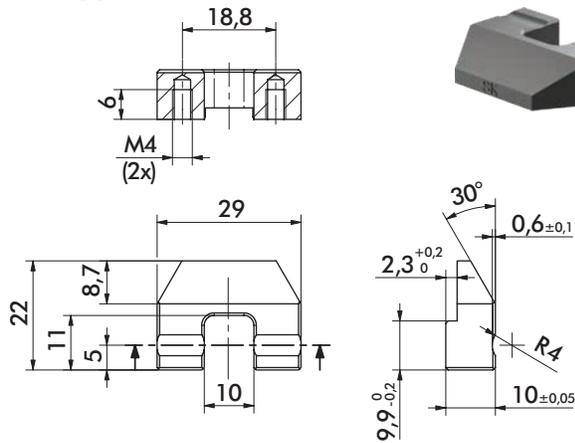
Hardened Steel Point

Pointed

Part

8JZ-029-1

Crown Teeth

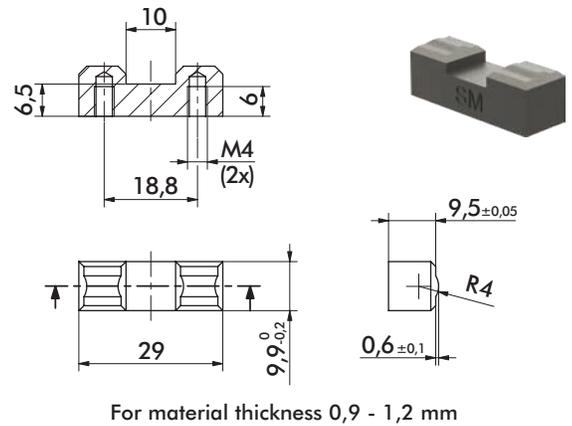


Hardened Steel Teeth

Crown Lower

Part

8JZ-036-2



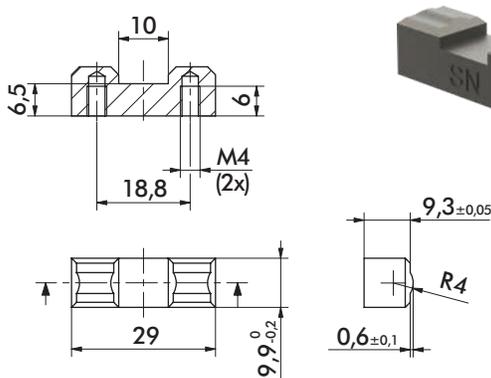
For material thickness 0,9 - 1,2 mm

Hardened Steel Teeth

Crown Upper

Part

8JZ-038-1



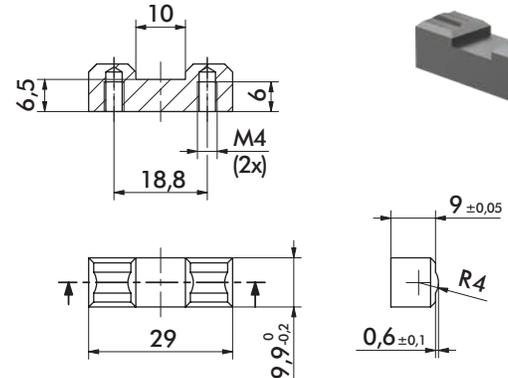
For material thickness 1,3 - 1,6 mm

Hardened Steel Teeth

Crown Upper

Part

8JZ-039-1



For material thickness 1,7 - 2,1 mm

Hardened Steel Teeth

Crown Upper

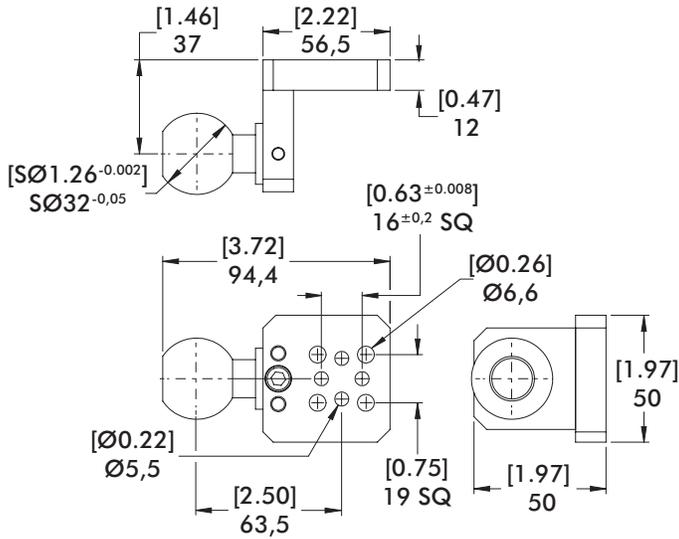
Part

8JZ-040-1

84A2, 84AF2 SERIES ACCESSORIES

Cam Type Sheet Metal Grippers | Dimensions and Ordering Information

Mounts

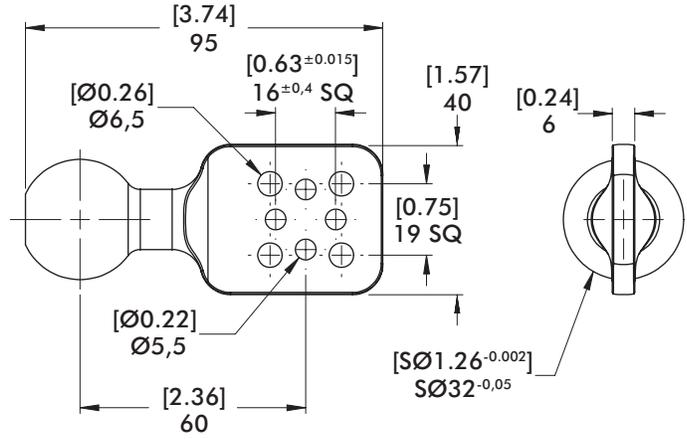


Mount

Part #

90° Ball

GT-BGA-A

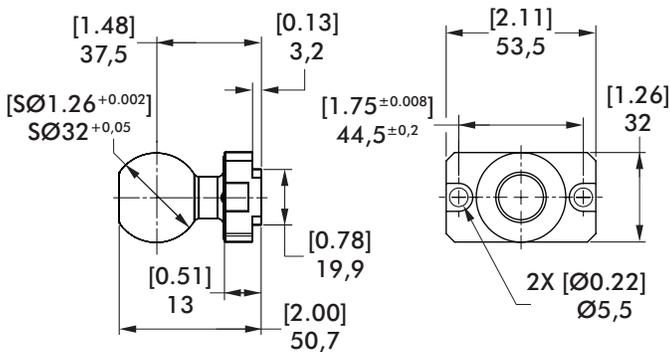


Mount

Part #

Ball Paddle

GT-BGA-32B

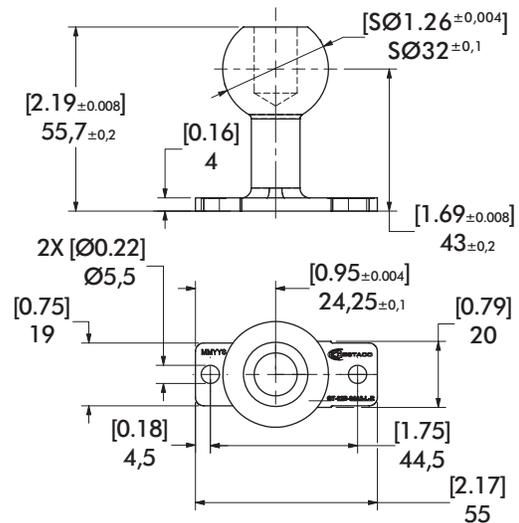


Mount

Part #

Ball Adapter

82ZB-131-1



Mount

Part #

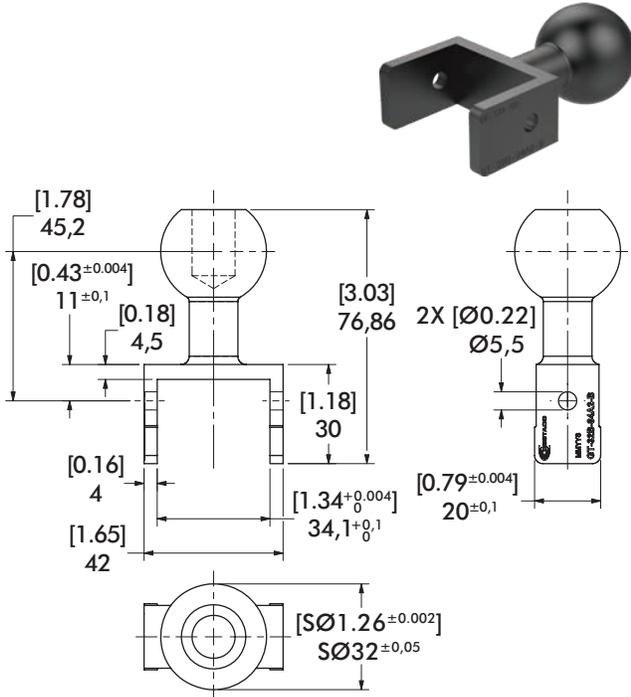
Ø32mm Side Ball

GT-32B-84A2-L-R

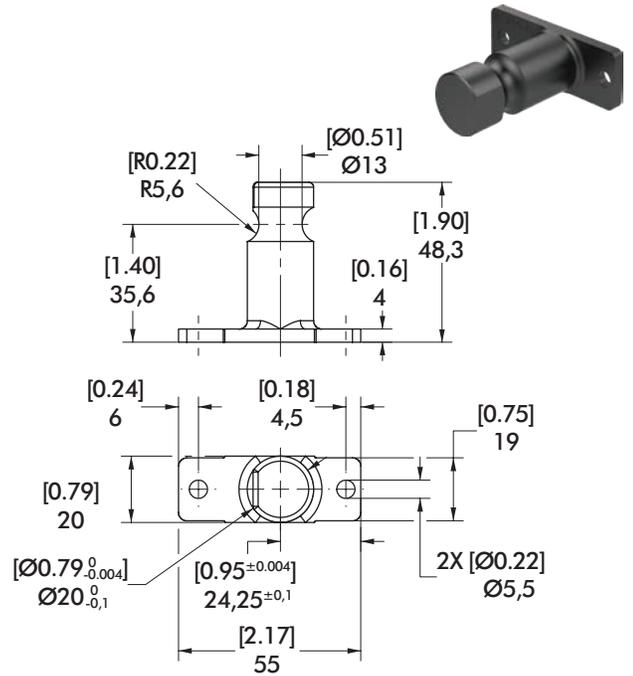
84A2, 84AF2 SERIES ACCESSORIES

Cam Type Sheet Metal Grippers | Dimensions and Ordering Information

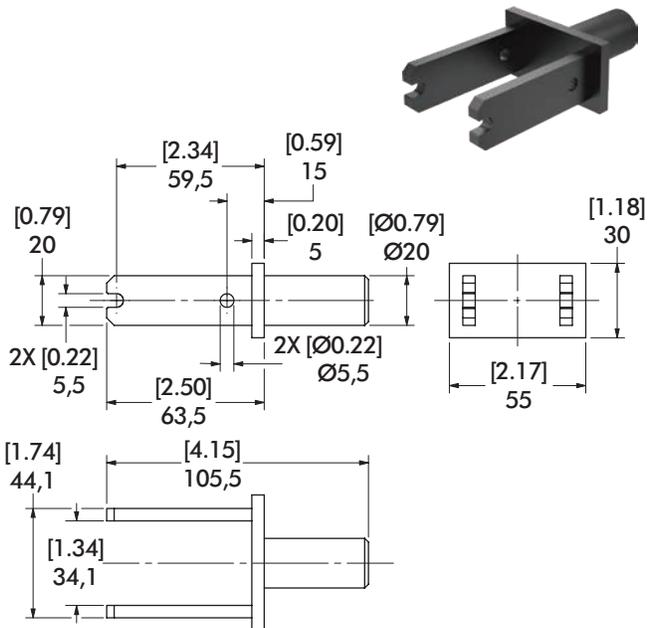
Mounts



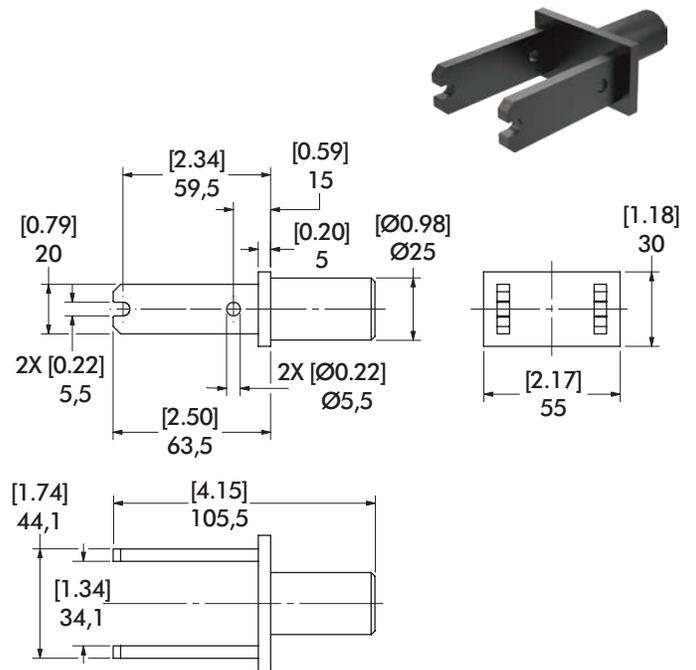
| Mount | Part # |
|-----------------|---------------|
| Ø32mm Rear Ball | GT-32B-84A2-B |



| Mount | Part # |
|------------------|-----------------|
| Ø20mm Apple Core | GT-20M-84A2-L-R |



| Mount | Part # |
|----------------|-----------|
| Ø20mm Rear Rod | 8MA-165-1 |

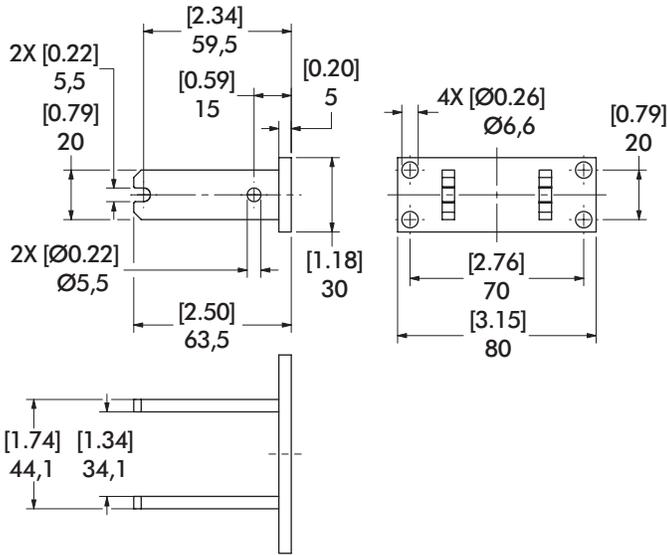


| Mount | Part # |
|----------------|-----------|
| Ø25mm Rear Rod | 8MA-166-1 |

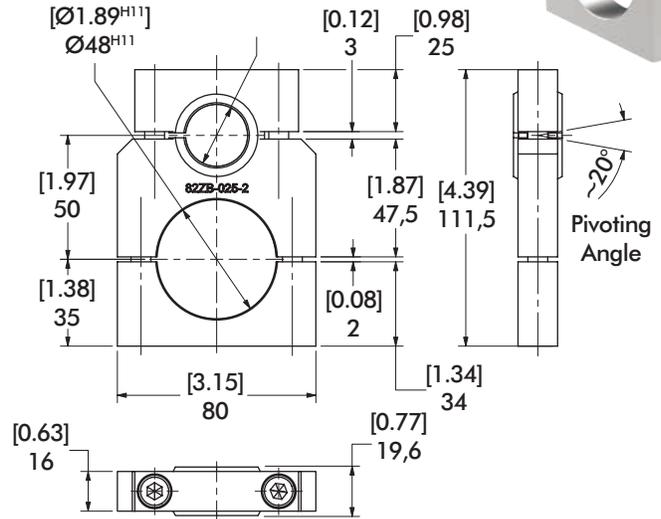
84A2, 84AF2 SERIES ACCESSORIES

Cam Type Sheet Metal Grippers | Dimensions and Ordering Information

Mounts

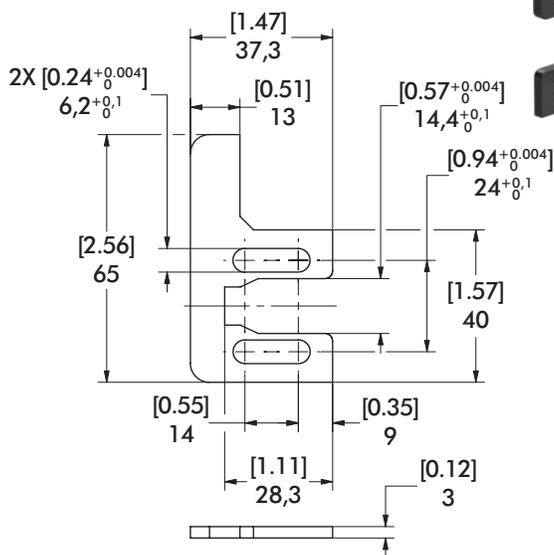


| Mount | Part # |
|-------------|-----------|
| Rear Flange | 8MA-147-1 |



| Mount | Part # |
|---------------------|------------|
| On-Body Swivel Ball | 82ZB-025-2 |

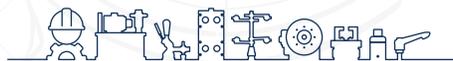
Sheet Stops/Guards Kit



Fasteners included.

| Part # |
|------------|
| 84A2-00001 |

Sheet Stops/Guards Kit



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