

84A3-3 SERIES (FIXED LOWER JAW)

Cam Type Sheet Metal Grippers | Ordering Information

Fixed Lower & 90° Jaw

Sensors, Gripper Teeth & Mounting (See next page)

84A3

-

31

D5

3

(Lower)SE

(Upper)SB

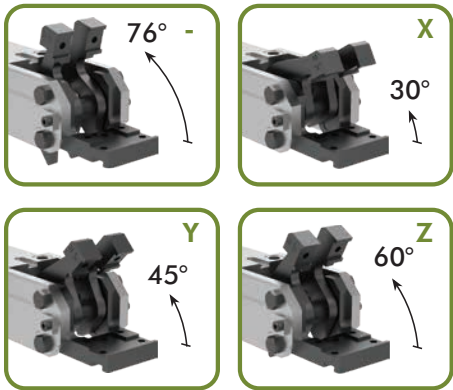
-

T

High Temperature

Jaw Opening Options

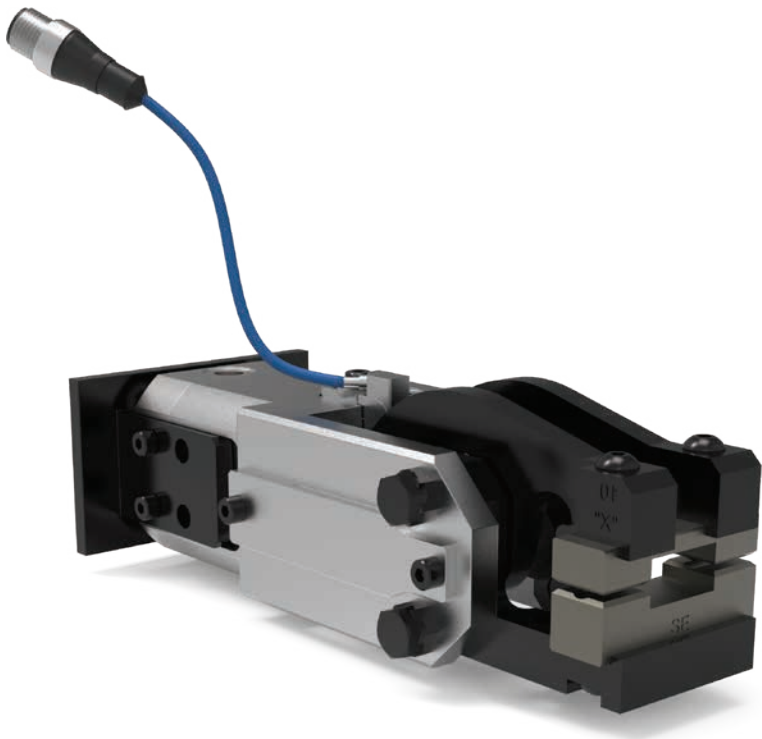
- Description
- 76° Jaw Opening (Standard)
 - X 30° Jaw Opening
 - Y 45° Jaw Opening
 - Z 60° Jaw Opening



For Moveable Lower Jaw versions see page 41

Jaw Arrangement Options

- Description
- 30 Double Upper, Straight Design, Drop Jaw
 - 31 Double Upper, Straight Design
 - 32 Double Upper, 90° Design
 - 35 Double Upper, Narrow Jaw, Straight Design
 - 36 Double Upper, Extended Jaw, Straight Design
 - 38 Double Upper, Narrow Jaw, 90° Design



Specifications	Unit	
Piston	mm	32
Actuation Time (open/close)	sec	0,2
Air Consumption per Double Stroke at 5 bar	L	0,2

84A3-3 SERIES (FIXED LOWER JAW)

Cam Type Sheet Metal Grippers | Ordering Information

Gripper Teeth, Points and Crown Options (Upper and Lower)

Steel Teeth - Hardened

- 00** None
- AA** 14,9x21x12mm - 8JZ-014-3
- AH** 14,9x14x14mm - 8JZ-001-1
- AL** 14,9x14x9,8mm - 8JZ-003-1
- AC** 14,9x14x12mm - 8JZ-043-1
- BK** 14,9x21x11mm - 8JZ-066-1



Steel Teeth - Soft

- AG** 14,9x14x12mm - 8JZ-050-1

Stainless Steel Teeth - High Temp.

- AS** 8JZ-094-1



Shims for gripper teeth available
Order Separately **8SB-003-1**
Dimensions: 14,8 x 13 x 0,15 mm

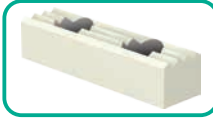
Plastic Teeth - 90 Shore*

- 00** None
- KA** 8JZ-021-1



Plastic Teeth - 90 Shore* (Upper Only)

- 00** None
- KC** 8JZ-023-1



*Not suitable for High Temperature applications

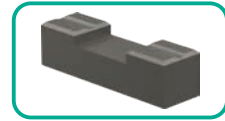
Steel Points - Hardened (Upper Only)

- 00** None
- PA** 8MJ-1001-1
- PC** 8MJ-1003-1



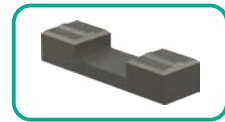
Crown Teeth, Concave - Hardened (Lower Only)

- 00** None
- SE** 8JZ-019-1
(cannot be used in model 84A3-35/-38 and in combination with Sensor A8)



Crown Teeth, Convex - Hardened (Upper Only)

- 00** None
- SB** 8JZ-016-2 (for Mat. Thickness 0,5-1mm)



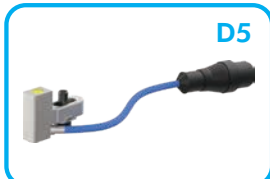
Sheet Stops/Guards Kit available
(Excludes Jaw Arrangement Options **32, 38**)
(Not Available with Sensor Options **KL, KR**)
Order Separately - **8400-00001**

When choosing the teeth pay attention to the following points:
Teeth height plus thickness must be the dimension defined on the data sheet. When using Sensor Option A8 pay attention to the sensing distance of 8mm. The upper teeth will reach into the detection area of the sensor if lower teeth are too low. This will lead to an error signal.

Sensor Options (not suitable for High Temperature applications)

Description

- 00** None
- KL** Position Control Set, Left for 76° Opening Angle - 8EA-022-4
- KR** Position Control Set, Right for 76° Opening Angle - 8EA-022-4
- A8** Part Present Sensor, 8mm Sensing Distance
8EA-092-1 (for 84A3-30/31/32/36)
- D5** Double Sheet Control Sensor, M12x1 Plug - 8EA-087-1



Shims for Sensor A8 available
Order Separately **8MB-003-1**
Dimensions: 32 x 20 x 0,7 mm



Cover for Sensing Systems **D5**
Order Separately **82ZB-185-1**

Mounting Options

Description

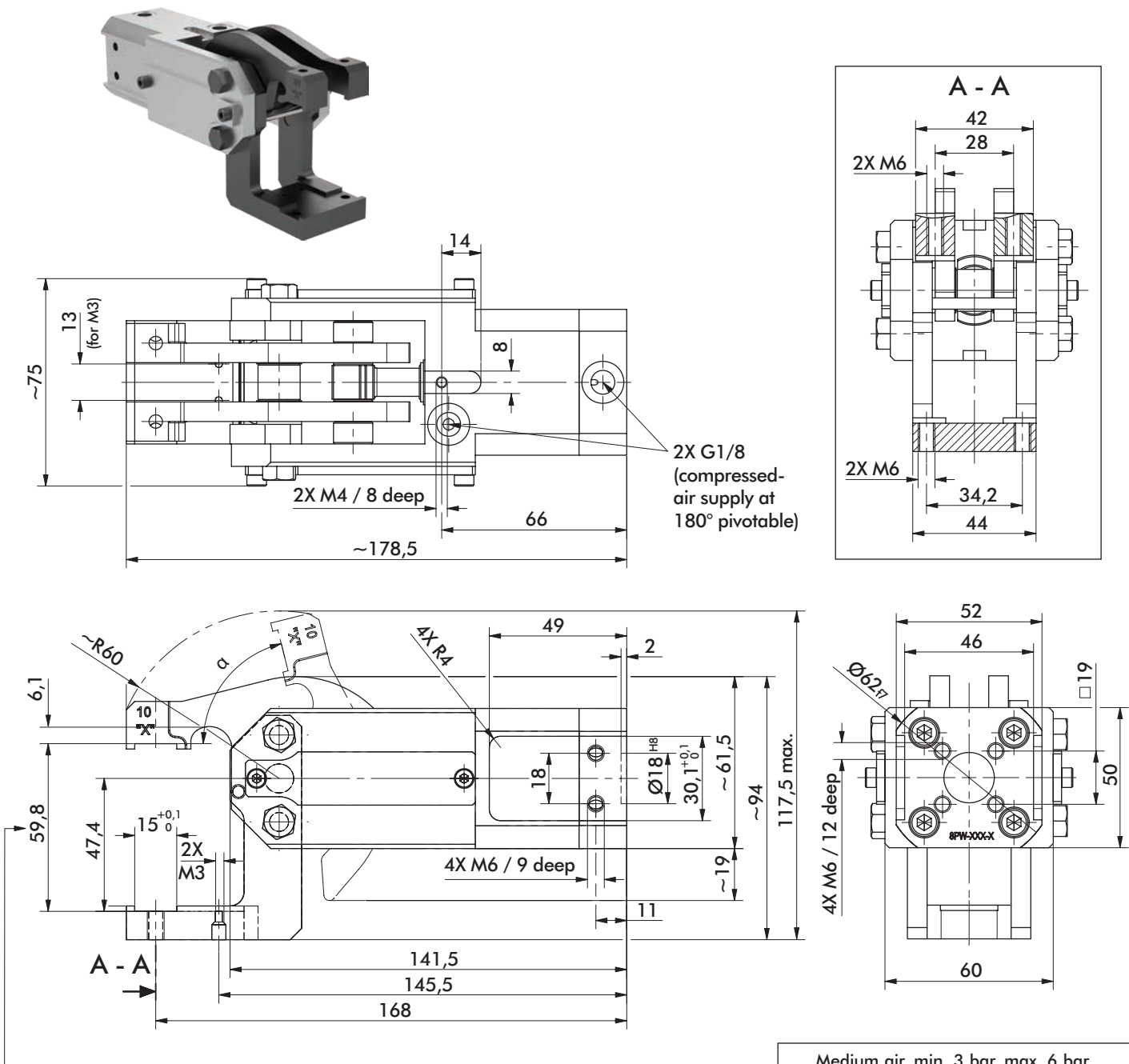
- 0** None
- 3** Rear Flange - 8MA-273-1
- X** On-Body Swivel Ball - 82ZB-033-2



84A3.30 SERIES (FIXED LOWER JAW)

Cam Type Sheet Metal Grippers | Dimensions and Technical Specifications

84A3.30



Addition of gripper teeth height and thickness of the clamped plate must be 59,8 mm. 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.

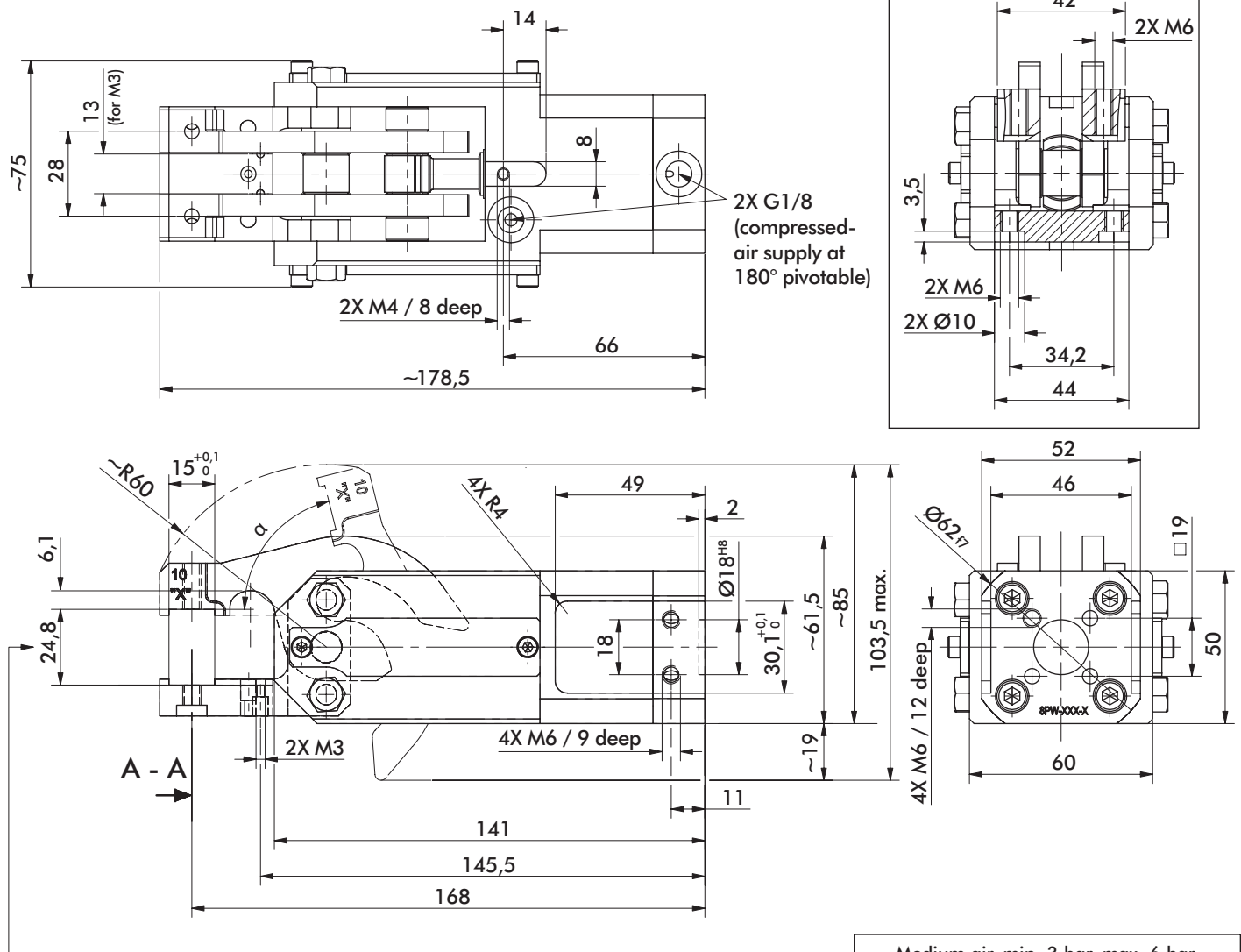
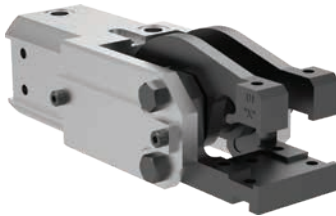
NOTE! Any extension of the moveable or fixed gripper jaws as well as the additional attachment of weights will void warranty.

Model 84A3.30	Opening Angle α	Clamping force at 5 bar ~N [lbf]	Weight Kg [lbs]
-	76°	1550 [348]	1,4 [3.09]
X	30°		
Y	45°		
Z	60°		

84A3.31 SERIES (FIXED LOWER JAW)

Cam Type Sheet Metal Grippers | Dimensions and Technical Specifications

84A3.31



Addition of gripper teeth height and thickness of the clamped plate must be 24,8 mm. 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.

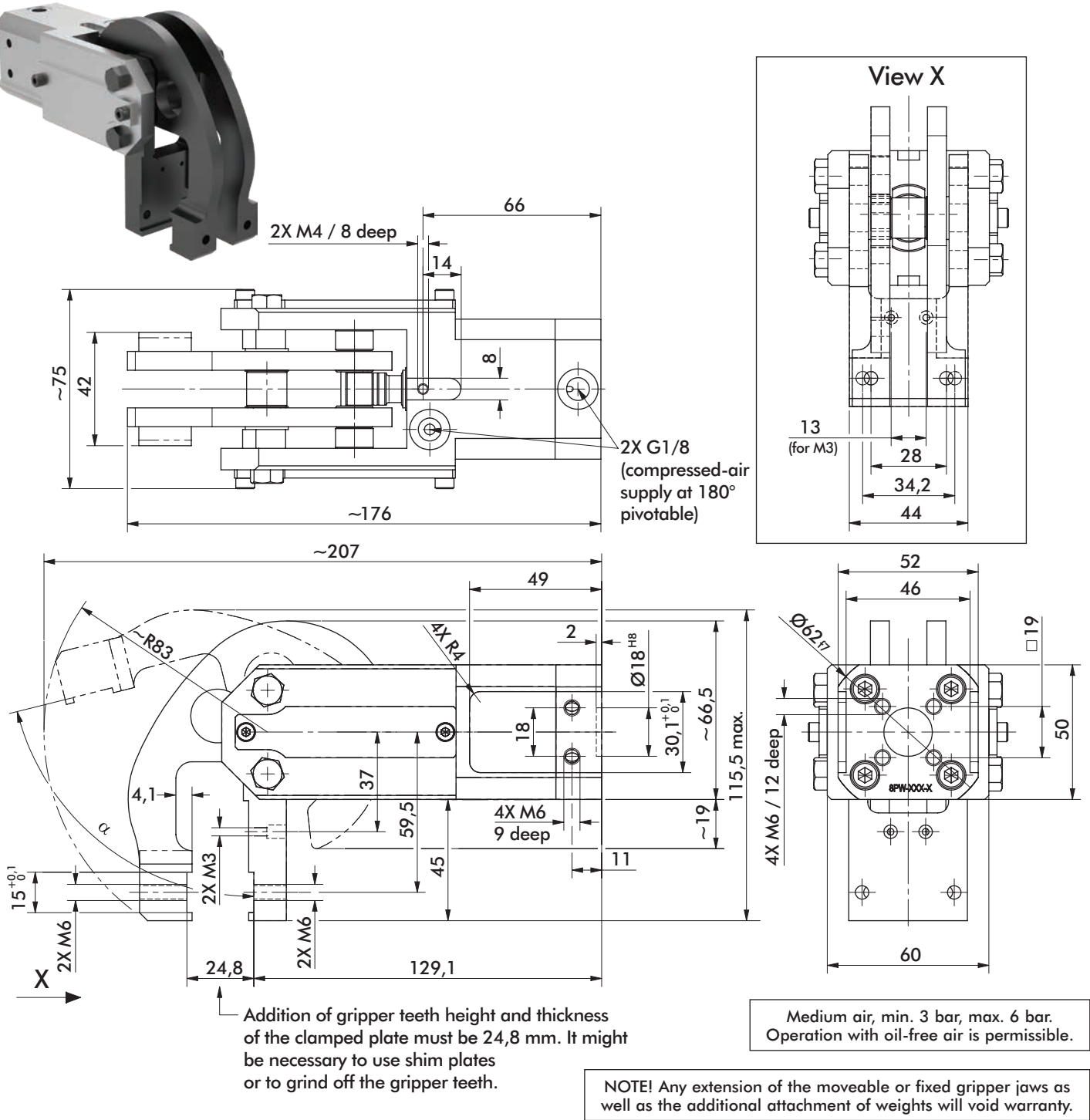
NOTE! Any extension of the moveable or fixed gripper jaws as well as the additional attachment of weights will void warranty.

Model 84A3.31	Opening Angle α	Clamping force at 5 bar ~N [lbf]	Weight Kg [lbs]
-	76°	1550 [348]	1,3 [2.87]
X	30°		
Y	45°		
Z	60°		

84A3.32 SERIES (FIXED LOWER JAW)

Cam Type Sheet Metal Grippers | Dimensions and Technical Specifications

84A3.32

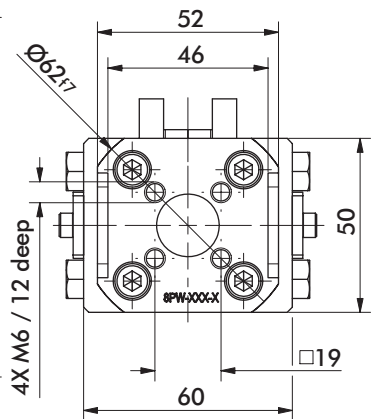
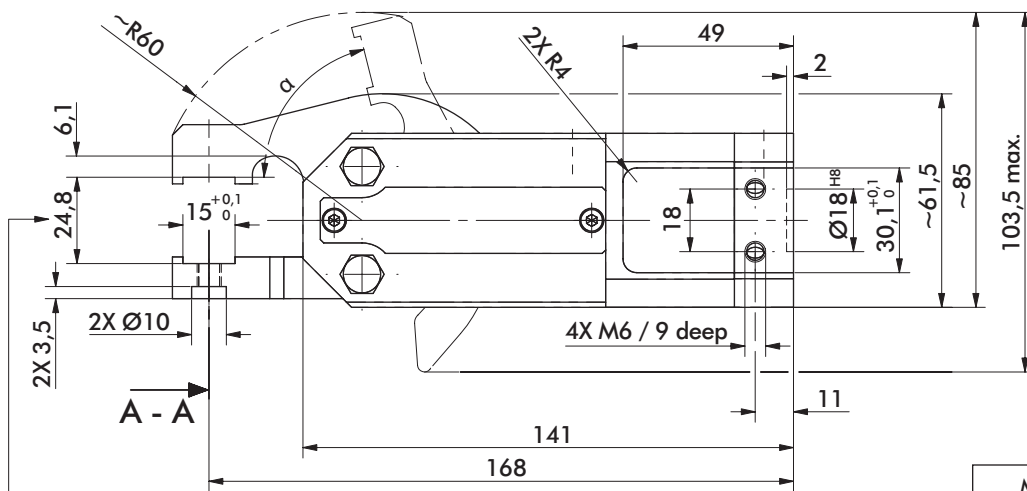
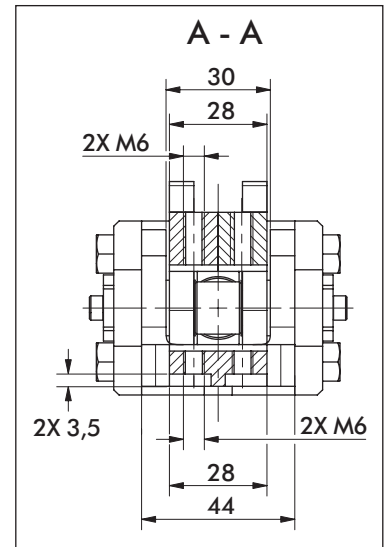
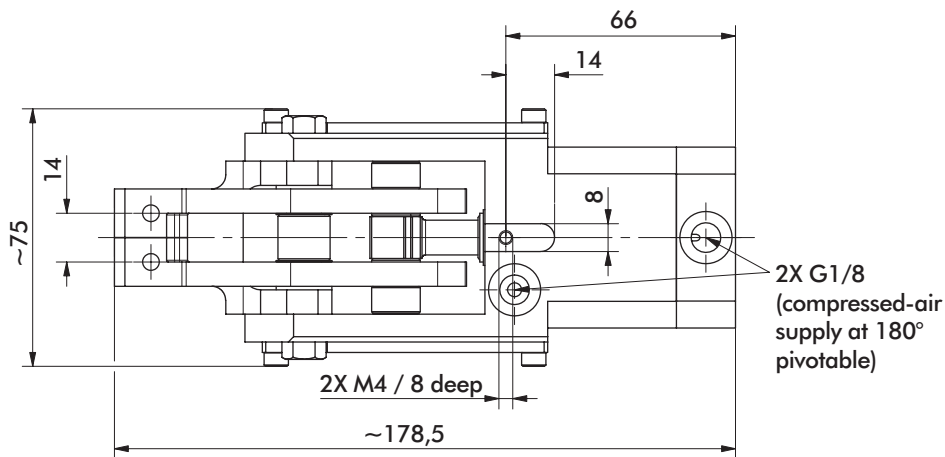
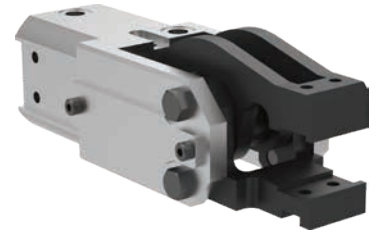


Model 84A3.32	Opening Angle α	Clamping force at 5 bar ~N [lbf]	Weight Kg [lbs]
-	76°	975 [219]	1,5 [3.31]
X	30°		
Y	45°		
Z	60°		

84A3.35 SERIES (FIXED LOWER JAW)

Cam Type Sheet Metal Grippers | Dimensions and Technical Specifications

84A3.35



Addition of gripper teeth height and thickness of the clamped plate must be 24,8 mm. 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.

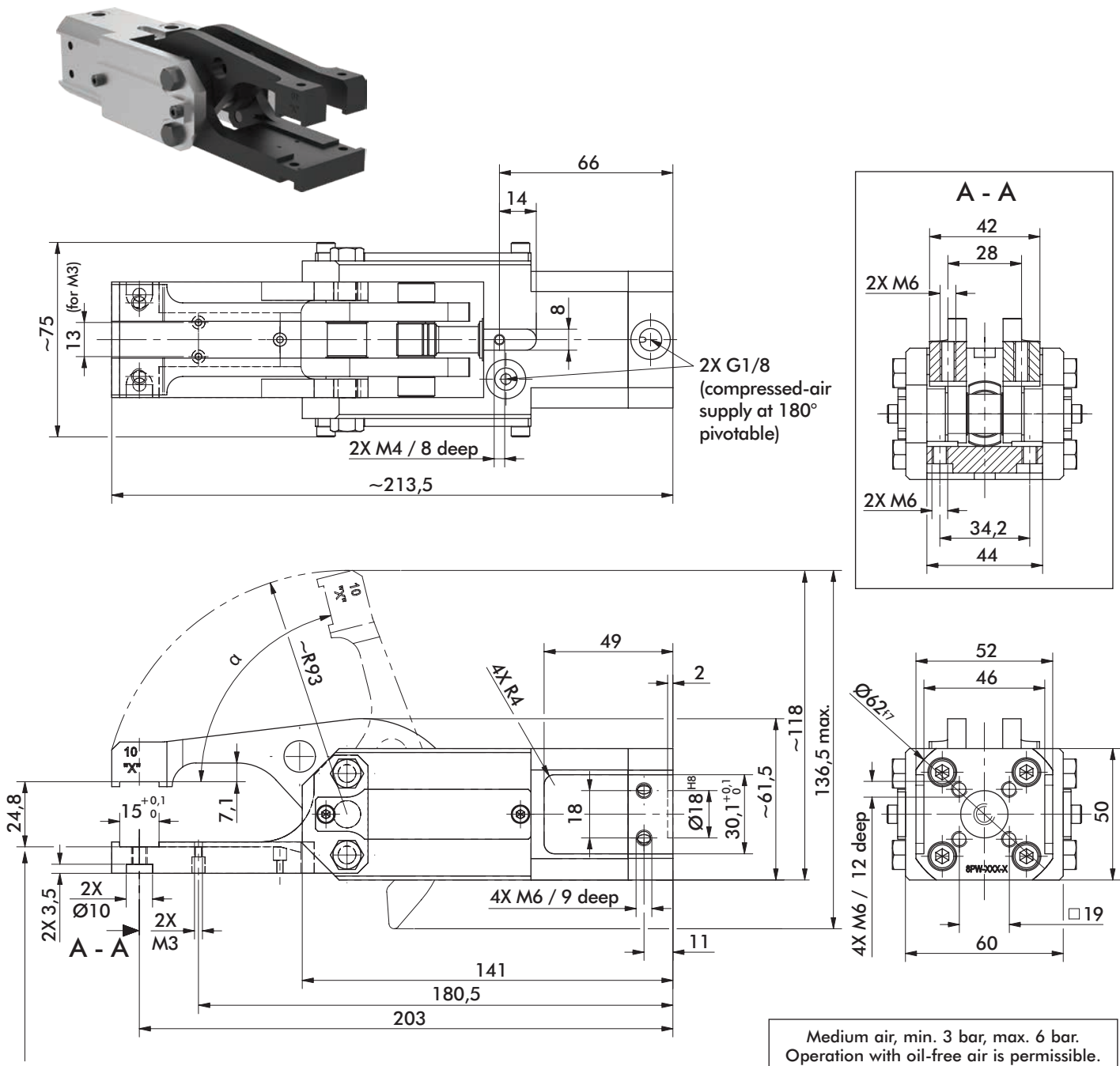
NOTE! Any extension of the moveable or fixed gripper jaws as well as the additional attachment of weights will void warranty.

Model 84A3.35	Opening Angle α	Clamping force at 5 bar ~N [lbf]	Weight Kg [lbs]
-	76°	1550 [348]	1,3 [2.87]
X	30°		
Y	45°		
Z	60°		

84A3.36 SERIES (FIXED LOWER JAW)

Cam Type Sheet Metal Grippers | Dimensions and Technical Specifications

84A3.36



Addition of gripper teeth height and thickness of the clamped plate must be 24,8 mm. It might be necessary to use shim plates or to grind off the gripper teeth.

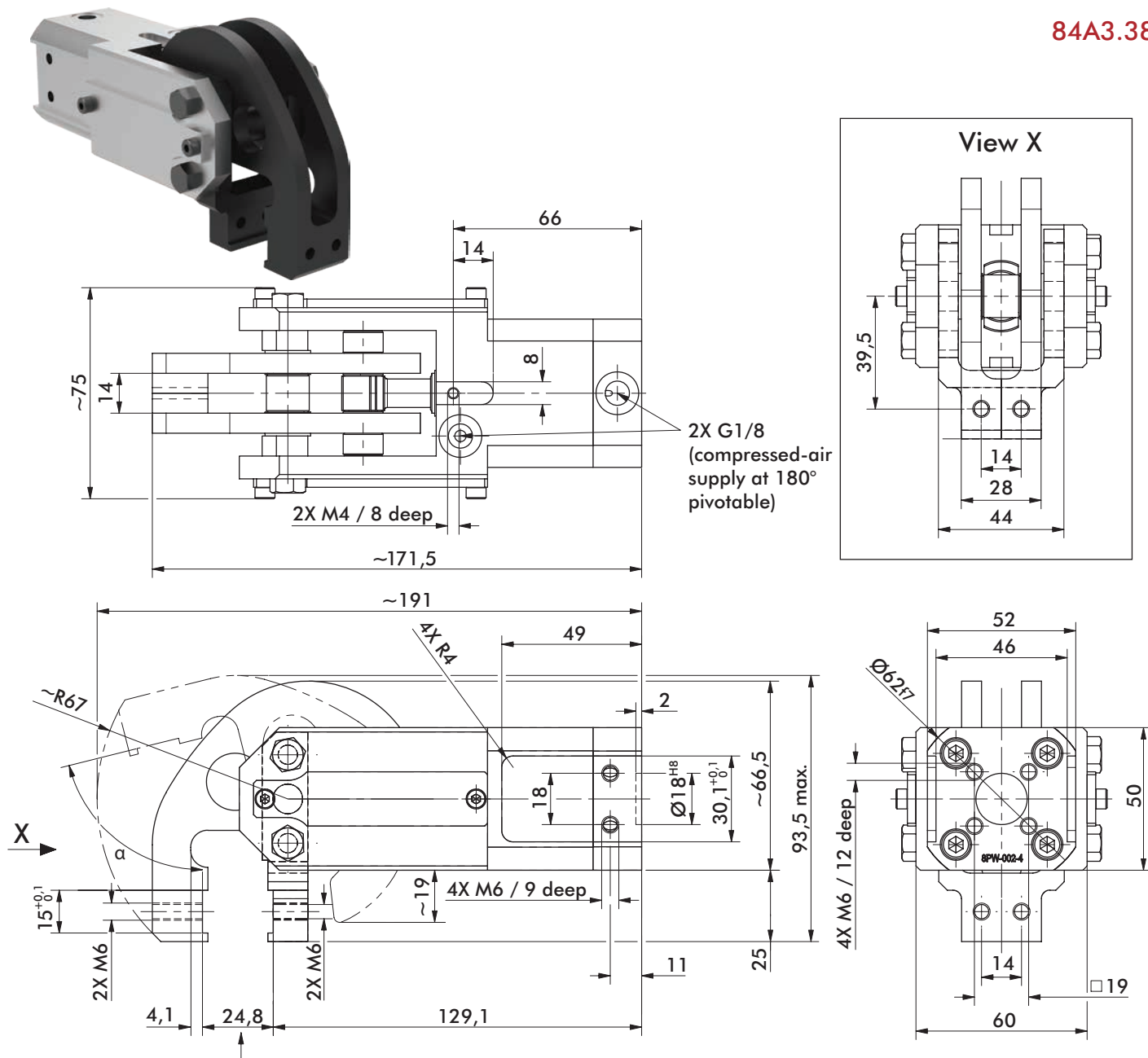
Medium air, min. 3 bar, max. 6 bar.
Operation with oil-free air is permissible.

Model 84A3.36	Opening Angle α	Clamping force at 5 bar ~N [lbf]	Weight Kg [lbs]
-	76°	570 [128]	1,5 [3.31]
X	30°		
Y	45°		
Z	60°		

84A3.38 SERIES (FIXED LOWER JAW)

Cam Type Sheet Metal Grippers | Dimensions and Technical Specifications

84A3.38



Addition of gripper teeth height and thickness of the clamped plate must be 24,8 mm. It might be necessary to use shim plates or to grind off the gripper teeth.

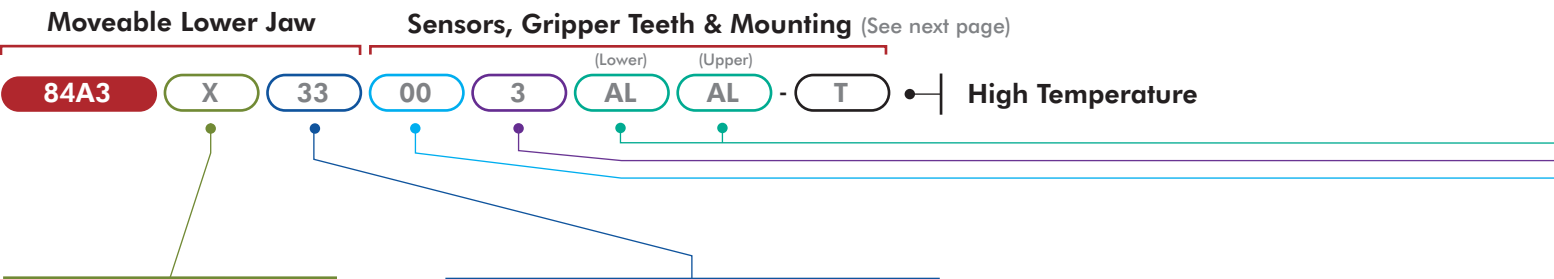
Medium air, min. 3 bar, max. 6 bar.
Operation with oil-free air is permissible.

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

Model 84A3.38	Opening Angle α	Clamping force at 5 bar ~N [lbf]	Weight Kg [lbs]
-	76°	1675 [377]	1,4 [3.09]
X	30°		
Y	45°		
Z	60°		

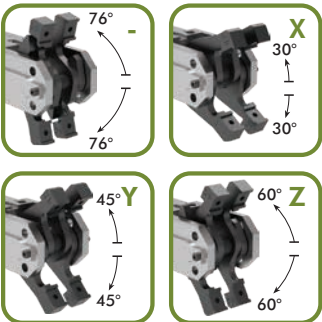
84A3-3 SERIES (MOVEABLE LOWER JAWS)

Cam Type Sheet Metal Grippers | Ordering Information



Jaw Opening Options

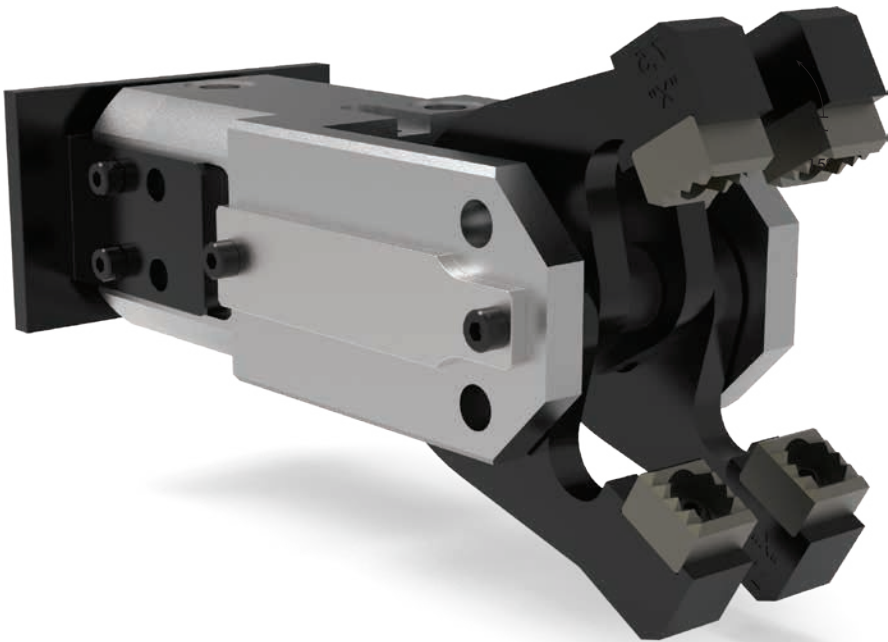
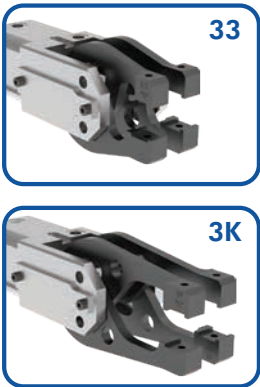
- Description
- 76° Jaw Opening (Symmetrical)
 - X** 30° Jaw Opening (Symmetrical)
 - Y** 45° Jaw Opening (Symmetrical)
 - Z** 60° Jaw Opening (Symmetrical)



For Fixed Lower Jaw versions see page 33

Jaw Arrangement Options

- Description
- 33** Double - 2 Upper/2 Lower Jaws, Straight Design
 - 3K** Double - 2 Upper/2 Lower Jaws, Straight Extended Design



Specifications	Unit	
Piston	mm	32
Actuation Time (open/close)	sec	0,2
Air Consumption per Double Stroke at 5 bar	L	0,2

84A3-3 SERIES (MOVEABLE LOWER JAWS)

Cam Type Sheet Metal Grippers | Ordering Information

Gripper Teeth, Points and Crown Options (Upper and Lower)

Steel Teeth - Hardened

- 00 None
- AA 14,9x21x12mm - 8JZ-014-3
- AH 14,9x14x14mm - 8JZ-001-1
- AL 14,9x14x9,8mm - 8JZ-003-1
- AC 14,9x14x12mm - 8JZ-043-1
- BK 14,9x21x11mm - 8JZ-066-1



Steel Teeth - Soft

- AG 14,9x14x12mm - 8JZ-050-1

Stainless Steel Teeth - High Temp.

- AS 8JZ-094-1



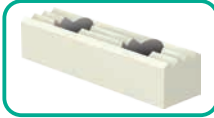
Plastic Teeth - 90 Shore*

- 00 None
- KA 8JZ-021-1



Plastic Teeth - 90 Shore* (Upper Only)

- 00 None
- KC 8JZ-023-1



*Not suitable for High Temperature applications

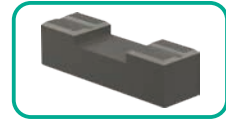
Steel Points - Hardened (Upper Only)

- 00 None
- PA 8MJ-1001-1
- PC 8MJ-1003-1



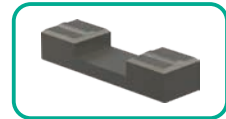
Crown Teeth, Concave - Hardened (Lower Only)

- 00 None
- SE 8JZ-019-1



Crown Teeth, Convex - Hardened (Upper Only)

- 00 None
- SB 8JZ-016-2 (for Mat. Thickness 0,5-1mm)



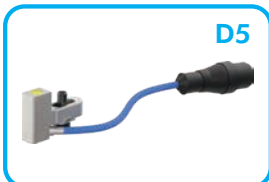
Shims for gripper teeth available
Order Separately **8SB-003-1**
Dimensions: 14,8 x 13 x 0,15 mm



Sensor Options (not suitable for High Temperature applications)

Description

- 00 None
- KL Position Control Set, Left for 76° Opening Angle - 8EA-022-4
- KR Position Control Set, Right for 76° Opening Angle - 8EA-022-4
- D5 Double Sheet Control Sensor, M12x1 Plug - 8EA-087-1



Cover for Sensing Systems D5
Order Separately **82ZB-185-1**

Mounting Options

Description

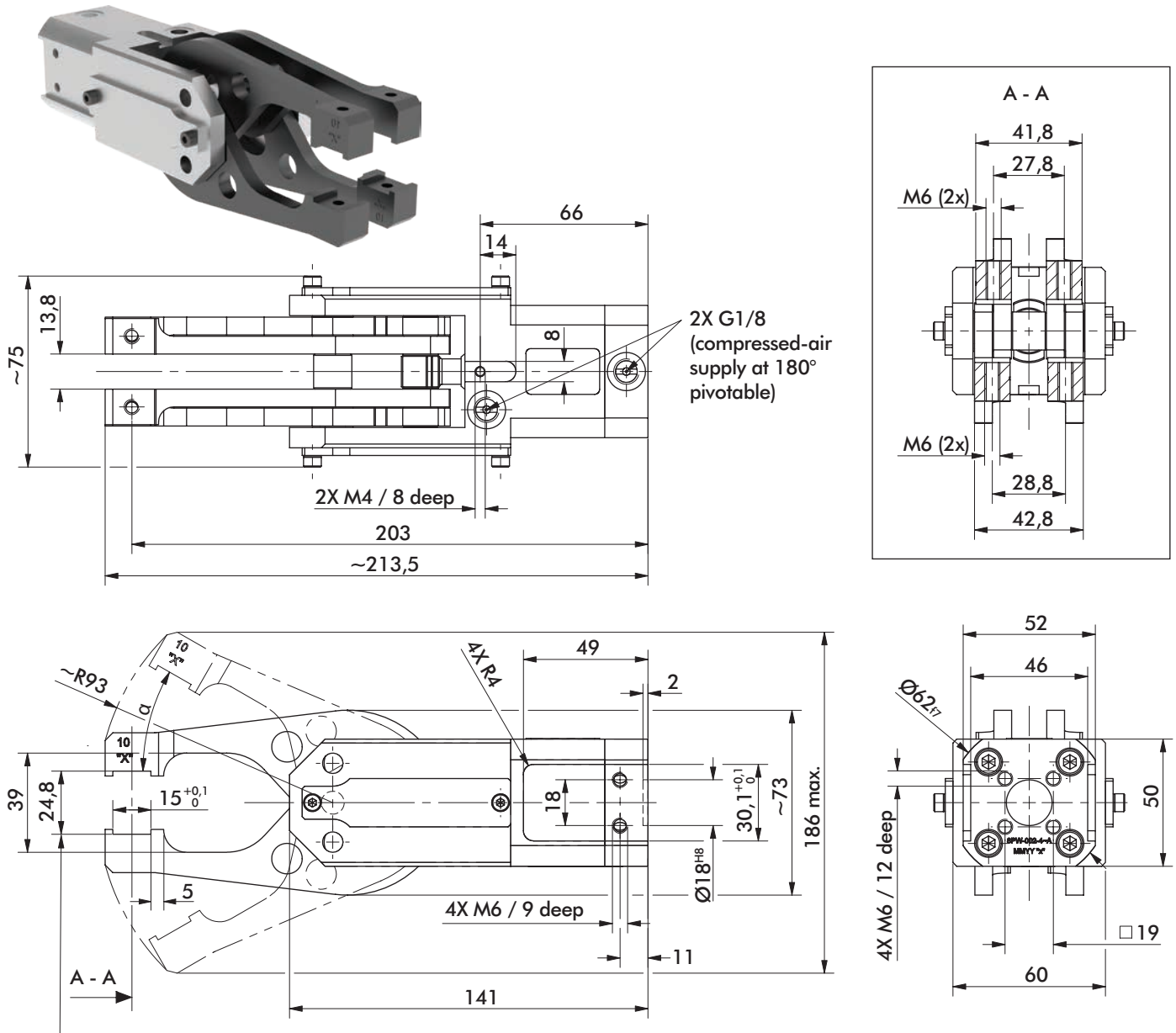
- 0 None
- 3 Rear Flange - 8MA-273-1
- X On-Body Swivel Ball - 82ZB-033-2



84A3.3K SERIES [DOUBLE SYMMETRICAL MOVEABLE JAWS]

Cam Type Sheet Metal Grippers | Dimensions and Technical Specifications

84A3.3K



Addition of gripper teeth height and thickness of the clamped plate must be 24,8 mm. 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.

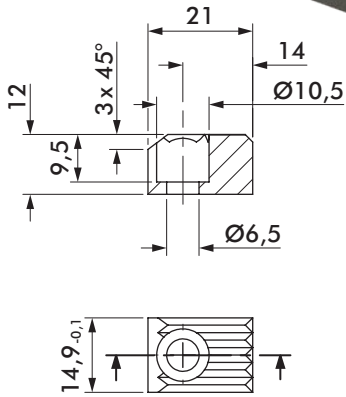
NOTE! Any extension of the moveable or fixed gripper jaws as well as the additional attachment of weights will void warranty.

Model 84A3.3K	Opening Angle α Symmetrical	Clamping force at 5 bar ~N [lbf]	Weight Kg [lbs]
-	76°	520 [117]	1,4 [3.07]
X	30°		
Y	45°		
Z	60°		

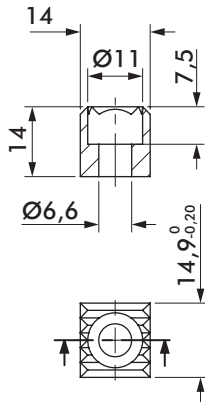
84A3 SERIES ACCESSORIES

Cam Type Sheet Metal Grippers | Dimensions and Ordering Information

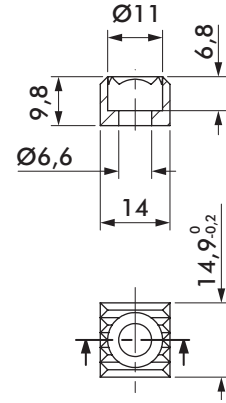
Steel Teeth



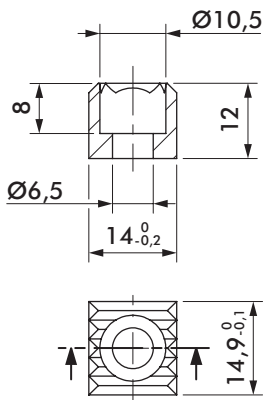
Hardened Steel Teeth Part #
Serrated **8JZ-014-3**



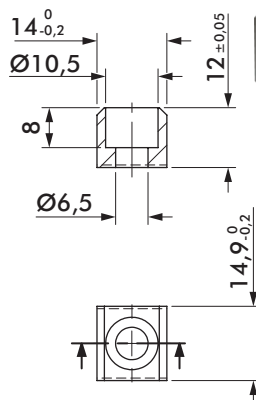
Hardened Steel Teeth Part #
Serrated **8JZ-001-1**



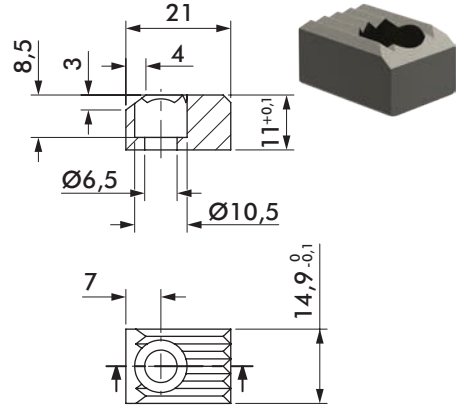
Hardened Steel Teeth Part #
Serrated **8JZ-003-1**



Hardened Steel Teeth Part #
Serrated **8JZ-043-1**

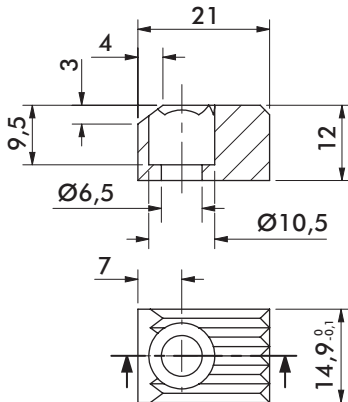


Soft Steel Teeth Part #
Non-Serrated **8JZ-050-1**



Hardened Steel Teeth Part #
Serrated **8JZ-066-1**

High Temperature Stainless Steel Teeth

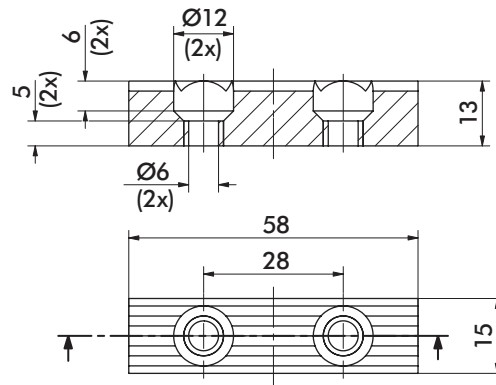
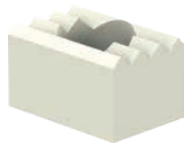
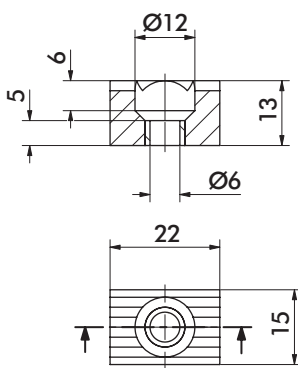


Hi-Temp Stainless Steel Teeth Part #
Serrated **8JZ-094-1**

84A3 SERIES ACCESSORIES

Cam Type Sheet Metal Grippers | Dimensions and Ordering Information

Plastic Teeth



Plastic Teeth

90 Shore, Serrated

Part

8JZ-021-1

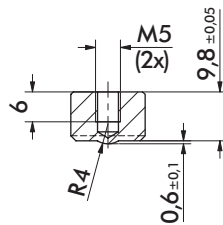
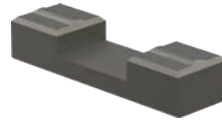
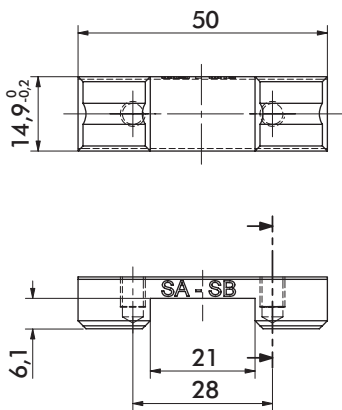
Plastic Teeth

90 Shore, Serrated (Upper)

Part

8JZ-023-1

Crown Teeth - Upper



For material thickness 0,5 - 1,0 mm

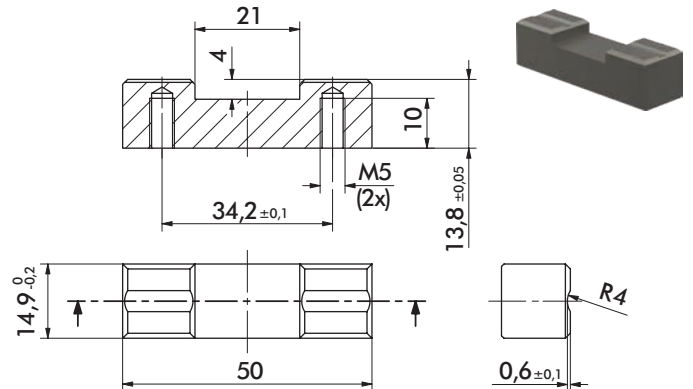
Hardened Steel Teeth

Crown Upper

Part

8JZ-016-2

Crown Teeth - Lower



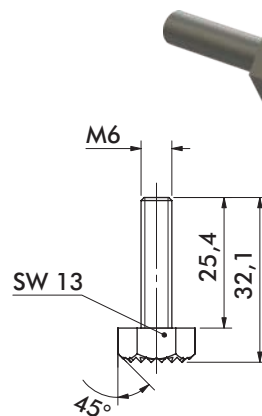
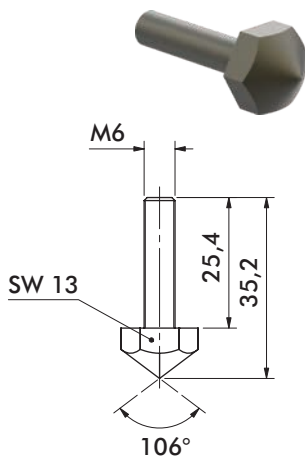
Hardened Steel Teeth

Crown Lower

Part

8JZ-019-1

Steel Points



Hardened Steel Point

Pointed

Part

8MJ-1001-1

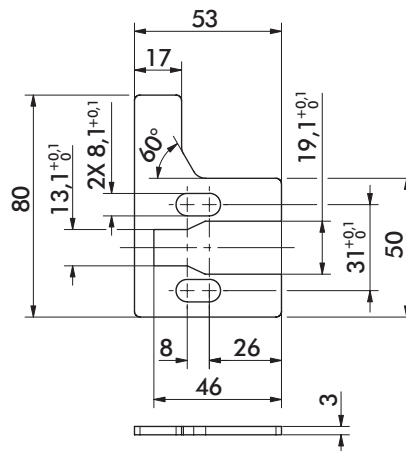
Hardened Steel Point

Serrated

Part

8MJ-1003-1

Sheet Stops/Guards Kit



Fasteners and washers included.

Sheet Stops/Guards Kit

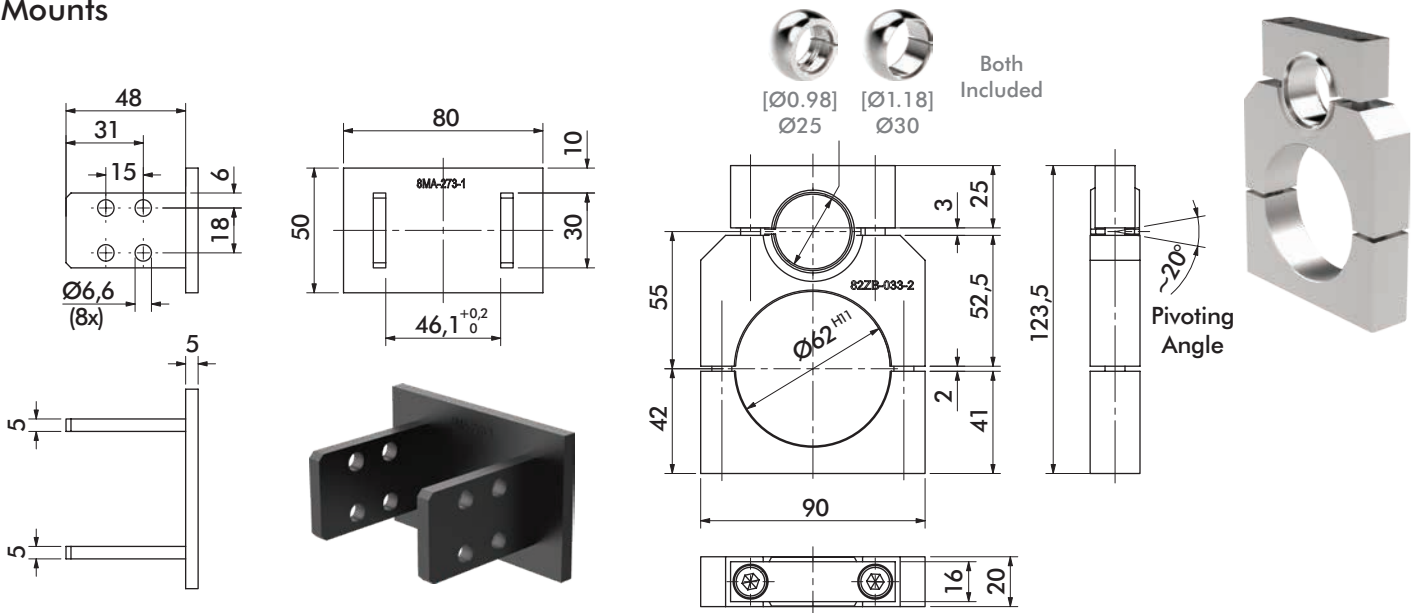
Part

8400-00001

84A3 SERIES ACCESSORIES

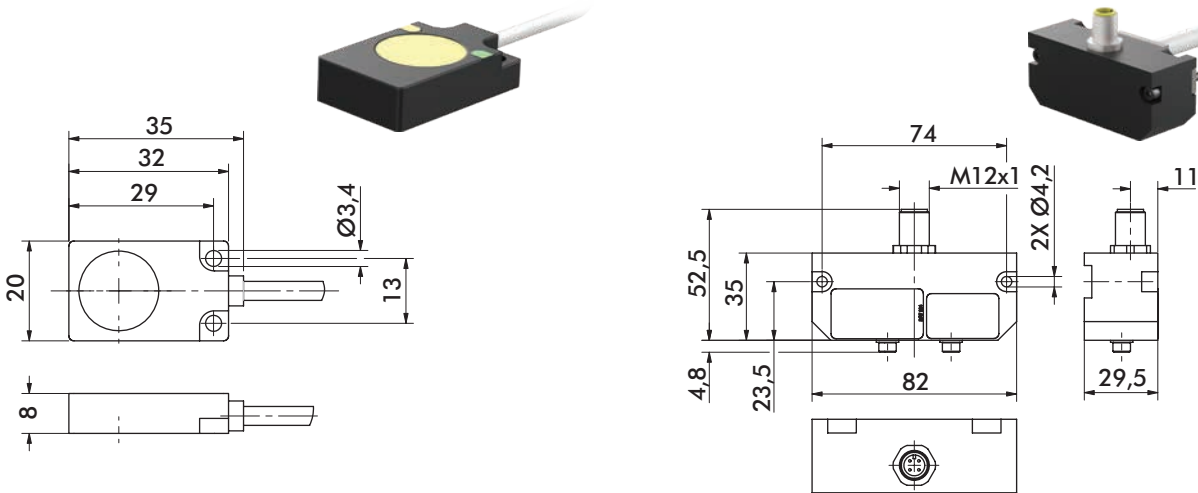
Cam Type Sheet Metal Grippers | Dimensions and Ordering Information

Mounts

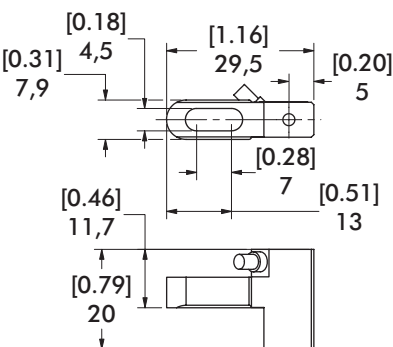


Mount	Part #	Mount	Part #
Rear Flange	8MA-273-1	On-Body Swivel Ball	82ZB-033-2

Sensors



Part Present Sensor	Part #	Position Control Set Sensor	Part #
8mm Sensing Distance, 2m Cable	8EA-092-1	For 76° Opening Angle Only	8EA-022-4



Double Sheet Control Sensor	Part #
1.5mm Sensing Distance, M12x1 Plug	8EA-087-1

