AXIONCAM

CNC REVOLUTION

Product catalogue

Milling machines · Furnaces · Vacuum cleaners · Scanner



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AXIONCAM

Axioncam is a range of CNC solutions for the digital dental laboratory: eight 5-axis milling machines, three sintering furnaces, three vacuum cleaners and one 3D scanner.

On all milling machines: 5 axes, servo motors on the XYZ axes, ±0.005 mm positioning accuracy and 90° vertical milling.

5-AXIS MILLING MACHINES

Wet

V41 · V42

4 kW water-cooled spindle, 40,000 rpm, 28-tool magazine. Titanium, PEEK, PMMA, wax, glass ceramic.

Wet and dry

V31 · V32 · K30

3 kW water-cooled spindle, 60,000 rpm, 28 to 36 tools. Titanium, zirconia, PEEK, PMMA, wax, glass ceramic.

Dry

D80 · D51 · D50

0.5 or 0.8 kW air-cooled spindle, 60,000 rpm, 6-tool magazine. Zirconia, PEEK, PMMA, wax.

PERIPHERALS

Sintering furnaces

S16 · S17 · S18

Up to 1600 °C (S16, S17), ±1 °C accuracy.

Vacuum cleaners

A30 · A36 · A120

From 300 to 1200 W, Ø50 mm suction port.

3D scanner

B1

Structured blue light, < 0.010 mm accuracy, STL output.

THE RANGE


V41


V42


V31


V32


K30


D80


D51


D50


S16


S17


S18


A30


A36


A120


B1

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5-AXIS MILLING MACHINES · WET


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5-AXIS MILLING MACHINES · DRY


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MILLING MACHINES COMPARED

Technical specifications	V41	V42	V31	V32	K30	D80	D51	D50
Number of axes	5-axis	5-axis	5-axis	5-axis	5-axis	5-axis	5-axis	5-axis
Milling type	Wet milling	Wet milling	Wet and dry dual use	Wet and dry dual use	Wet and dry dual use	Dry milling	Dry milling	Dry milling
Spindle power	4 kW	4 kW	3 kW	3 kW	3 kW	800 W	500 W	500 W
Spindle speed	40,000 rpm	40,000 rpm	60,000 rpm	60,000 rpm	60,000 rpm	60,000 rpm	60,000 rpm	60,000 rpm
Spindle cooling	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Air-cooled	Air-cooled	Air-cooled
Tool magazine capacity	28 pcs	28 pcs	28 pcs	30 pcs	36 pcs	6 pcs	6 pcs	6 pcs
XYZ axis motors	Servo motors	Servo motors	Servo motors	Servo motors	Servo motors	Servo motors	Servo motors	Servo motors
Dimensions L×W×H (mm)	760×840×1750	760×840×1750	700×940×1680	800×1000×1600	750×680×1600	500×650×620	500×650×620	500×650×620
Net weight	640 kg	640 kg	566 kg	435 kg	220 kg	110 kg	110 kg	110 kg
Positioning accuracy	±0.005 mm	±0.005 mm	±0.005 mm	±0.005 mm	±0.005 mm	±0.005 mm	±0.005 mm	±0.005 mm
Rotation angle	A ±360°, B ±35°	A ±360°, B ±35°	A ±360°, B ±35°	A ±360°, B ±30°	A ±360°, B −90° to +40°	A ±360°, B −100° to +30°	A ±360°, B −100° to +30°	A ±360°, B −100° to +30°
PROCESSABLE MATERIALS								
Titanium square plate	•	•	–	–	–	–	–	–
Titanium discs	•	•	•	•	•	–	–	–
Zirconia	–	–	•	•	•	•	•	•
PEEK	•	•	•	•	•	•	•	•
PMMA	•	•	•	•	•	•	•	•
Wax	•	•	•	•	•	•	•	•
Glass ceramic	•	•	•	•	•	–	–	–
Titanium premill	•	•	•	•	•	–	–	–

• = listed in the catalogue · – = not listed in the catalogue for this model. K30: whole-machine dimensions with cabinet.

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FURNACES

	S16	S17	S18
Chamber	Ø100 × 100 × 100 mm	Ø100 × 100 × 100 mm	–
Dimensions	420 × 570 × 825 mm	410 × 380 × 610 mm	42 × 46.5 × 80 cm
Weight	80 kg	65 kg	44 kg
Working temperature	1600 °C	1600 °C	–
Power	220 V, 1.5 kW	220 V, 1.5 kW	2500 W
Voltage	–	–	AC 220 V ±10%
Frequency	–	–	50 Hz
Protection	–	–	IP21
Temperature accuracy	±1 °C	±1 °C	–
Temperature uniformity	±5 °C	±5 °C	–

VACUUM CLEANERS

	A30	A36	A120
Power	300 W	360 W	1200 W
Voltage	220 V	–	220 V
Negative pressure	1.02 kPa (Ø50 mm)	13 kPa	3.05 kPa (Ø50 mm)
Air flow	1.56 m³/min (Ø50 mm)	2350 L/min	14.82 m³/min (Ø50 mm)
Suction port	–	50 mm	–
Noise	< 65 dB	≤ 60 dB	< 65 dB
Dimensions	420 × 400 × 600 mm	440 × 262 × 456 mm	460 × 430 × 665 mm
Weight	29.5 kg	18.8 kg	39 kg

Values are reported as in the catalogue; measurement conditions are not stated, so flow and pressure values of different vacuum cleaners should not be compared directly.

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AXIONCAM
CNC REVOLUTION

TECHNICAL DATASHEET
5-AXIS MILLING MACHINE · WET

AXIONCAM

V41

Implant solutions · 4 kW powerful spindle

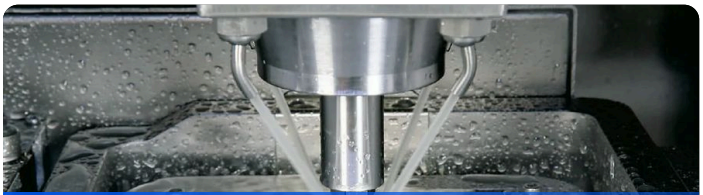


5 axes	4 kW	40,000 rpm	28 pcs	±0.005 mm
5-AXIS MILLING	SPINDLE POWER	SPINDLE SPEED	TOOL MAGAZINE	POSITIONING ACCURACY

5-axis wet milling machine, 4 kW spindle, servo motors on the XYZ axes, 28-position tool magazine, positioning accuracy ±0.005 mm.

TECHNICAL SPECIFICATIONS

Number of axes	**5-axis**
Milling type	**Wet milling**
Spindle power	**4 kW**
Spindle speed	**40,000 rpm**
Spindle cooling	**Water-cooled**
Tool magazine capacity	**28 pcs**
XYZ axis motors	**Servo motors**
Dimensions (L×W×H)	**760 × 840 × 1750 mm**
Net weight	**640 kg**
Positioning accuracy	**±0.005 mm**
Rotation angle	**A ±360°, B ±35°**


5-axis · wet milling · water-cooled 4 kW spindle

ADVANTAGES

Integrated cast-iron structure + servo motors



90° vertical milling
Vertical occlusal milling: eliminates undercuts and restores anterior tooth morphology.



Automatic calibration
Intelligent one-touch calibration ensures sustained high-precision machining.



Square plate milling
Enhances material utilization and processing efficiency.



3D printing & milling hybrid technology
Metal 3D printing & milling: offers higher material utilization than pure cutting, while saving more time.

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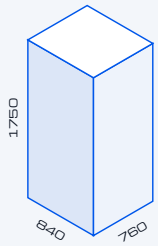
PROCESSABLE MATERIALS

- Titanium square plate
- Titanium discs
- PEEK
- PMMA
- Wax
- Glass ceramic
- Titanium premill

INDICATIONS

- Coping
- Coping bridge
- Crown
- Abutment
- Premill abutment
- Implant bar
- Veneer
- Onlay
- Hybrid
- Telescope
- Full denture
- Orthodontic braces
- Wax RPD framework
- Model
- Implant bridge
- Implant Malone bridge
- Inlay
- Surgical guide

DIMENSIONS AND WEIGHT



Machine
760 × 840 × 1750 mm

Net weight: 640 kg

HOLDERS

- Glass ceramic holder
- Titanium square plate holder
- Titanium disc holder
- PEEK disc holder

Burs, discs and blocks: see the Consumables page of the Axioncam Catalogue.

APPLICATIONS AND WORKFLOW



Scan
3D capture of the clinical situation

CAD design
Design of the restoration

CAM
Toolpath calculation

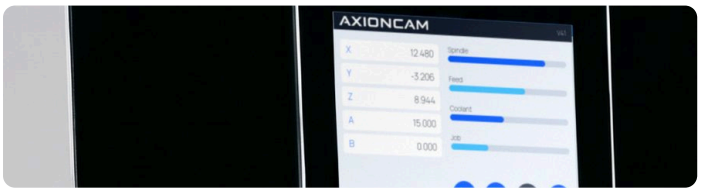
Milling
Machining on the mill

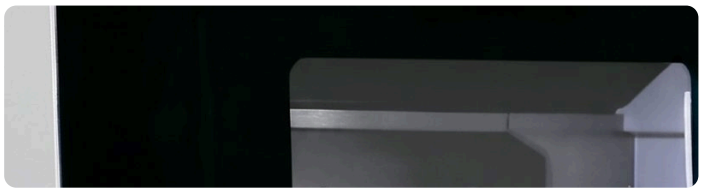
Finishing
Finishing; sintering for zirconia

TECHNICAL NOTE With five axes the workpiece can be tilted and rotated (A and B axes) relative to the tool, reaching surfaces that are hard to machine with fewer axes.

TECHNICAL NOTE In wet milling the tool works with cooling liquid, which limits heat on the material: the typical mode for titanium and glass ceramic.

TECHNICAL NOTE Typical digital-lab workflow: scanning, CAD design, CAM toolpath calculation, milling, finishing (and sintering for zirconia).





AXIONCAM RANGE PERIPHERALS



B1 · S16 · S17 · S18 · A30 · A36 · A120

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AXIONCAM
CNC REVOLUTION

TECHNICAL DATASHEET
5-AXIS MILLING MACHINE · WET

AXIONCAM

V42

Implant solutions · 4 kW powerful spindle

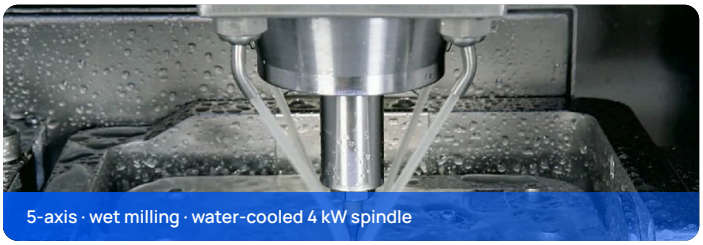


5 axes	4 kW	40,000 rpm	28 pcs	±0.005 mm
5-AXIS MILLING	SPINDLE POWER	SPINDLE SPEED	TOOL MAGAZINE	POSITIONING ACCURACY

5-axis wet milling machine, 4 kW spindle, servo motors on the XYZ axes, 28-position tool magazine, positioning accuracy ±0.005 mm.

TECHNICAL SPECIFICATIONS

Number of axes	**5-axis**
Milling type	**Wet milling**
Spindle power	**4 kW**
Spindle speed	**40,000 rpm**
Spindle cooling	**Water-cooled**
Tool magazine capacity	**28 pcs**
XYZ axis motors	**Servo motors**
Dimensions (L×W×H)	**760 × 840 × 1750 mm**
Net weight	**640 kg**
Positioning accuracy	**±0.005 mm**
Rotation angle	**A ±360°, B ±35°**


5-axis · wet milling · water-cooled 4 kW spindle

ADVANTAGES

Integrated cast-iron structure + servo motors



90° vertical milling
Vertical occlusal milling: eliminates undercuts and restores anterior tooth morphology.



Automatic calibration
Intelligent one-touch calibration ensures sustained high-precision machining.



Square plate milling
Enhances material utilization and processing efficiency.



3D printing & milling hybrid technology
Metal 3D printing & milling: offers higher material utilization than pure cutting, while saving more time.

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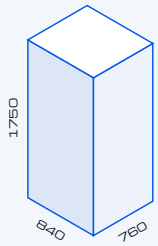
PROCESSABLE MATERIALS

- Titanium square plate
- Titanium discs
- PEEK
- PMMA
- Wax
- Glass ceramic
- Titanium premill

INDICATIONS

- Coping
- Coping bridge
- Crown
- Abutment
- Premill abutment
- Implant bar
- Veneer
- Onlay
- Hybrid
- Telescope
- Full denture
- Orthodontic braces
- Wax RPD framework
- Model
- Implant bridge
- Implant Malone bridge
- Inlay
- Surgical guide

DIMENSIONS AND WEIGHT



Machine
760 × 840 × 1750 mm

Net weight: 640 kg

HOLDERS

- Glass ceramic holder
- Titanium square plate holder
- Titanium disc holder
- PEEK disc holder

Burs, discs and blocks: see the Consumables page of the Axioncam Catalogue.

APPLICATIONS AND WORKFLOW



Scan
3D capture of the clinical situation

CAD design
Design of the restoration

CAM
Toolpath calculation

Milling
Machining on the mill

Finishing
Finishing; sintering for zirconia

TECHNICAL NOTE With five axes the workpiece can be tilted and rotated (A and B axes) relative to the tool, reaching surfaces that are hard to machine with fewer axes.

TECHNICAL NOTE In wet milling the tool works with cooling liquid, which limits heat on the material: the typical mode for titanium and glass ceramic.

TECHNICAL NOTE Typical digital-lab workflow: scanning, CAD design, CAM toolpath calculation, milling, finishing (and sintering for zirconia).

AXIONCAM RANGE PERIPHERALS



B1 · S16 · S17 · S18 · A30 · A36 · A120

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AXIONCAM
CNC REVOLUTION

TECHNICAL DATASHEET
5-AXIS MILLING MACHINE · WET AND DRY

AXIONCAM

V31

5-axis metal milling machine



5 axes	3 kW	60,000 rpm	28 pcs	±0.005 mm
5-AXIS MILLING	SPINDLE POWER	SPINDLE SPEED	TOOL MAGAZINE	POSITIONING ACCURACY

5-axis wet and dry milling machine, 3 kW spindle, servo motors on the XYZ axes, 28-position tool magazine, positioning accuracy ±0.005 mm.

TECHNICAL SPECIFICATIONS

Number of axes	**5-axis**
Cutting type	**Wet and dry dual use**
Spindle power	**3 kW**
Spindle speed	**60,000 rpm**
Spindle cooling	**Water-cooled**
Tool magazine capacity	**28 pcs**
XYZ axis motors	**Servo motors**
Dimensions (L×W×H)	**700 × 940 × 1680 mm**
Net weight	**566 kg**
Positioning accuracy	**±0.005 mm**
Rotation angle	**A ±360°, B ±35°**



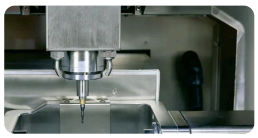
5-axis · dry and wet dual milling · water-cooled 3 kW spindle · multi-material compatibility

ADVANTAGES

Integrated cast-iron structure + servo motors

90° vertical milling
Vertical occlusal milling: eliminates undercuts and restores anterior tooth morphology.

Automatic calibration
Intelligent one-touch calibration ensures sustained high-precision machining.



High-speed ATC spindle
Balances machining throughput and prosthetic accuracy.



Multi-material compatibility
Covers comprehensive dental prosthesis workflows.

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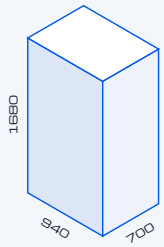
PROCESSABLE MATERIALS

- Titanium discs
- Zirconia
- PEEK
- PMMA
- Wax
- Glass ceramic
- Titanium premill

INDICATIONS

- Coping
- Coping bridge
- Crown
- Abutment
- Premill abutment
- Implant bar
- Veneer
- Onlay
- Hybrid
- Telescope
- Full denture
- Orthodontic braces
- Wax RPD framework
- Model
- Implant bridge
- Implant Malone bridge
- Inlay
- Surgical guide

DIMENSIONS AND WEIGHT



Machine
700 × 940 × 1680 mm

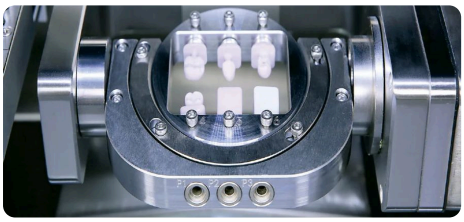
Net weight: 566 kg

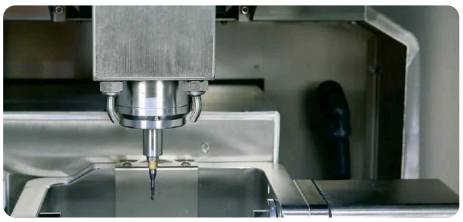
HOLDERS

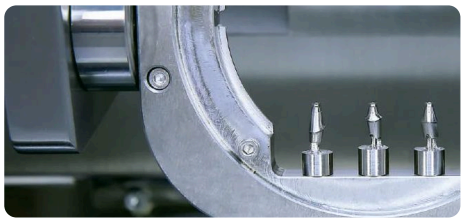
- Glass ceramic holder
- Titanium disc holder
- Zirconia disc holder
- PEEK disc holder

Burs, discs and blocks: see the Consumables page of the Axioncam Catalogue.

APPLICATIONS AND WORKFLOW







Scan
3D capture of the clinical situation

CAD design
Design of the restoration

CAM
Toolpath calculation

Milling
Machining on the mill

Finishing
Finishing; sintering for zirconia

TECHNICAL NOTE With five axes the workpiece can be tilted and rotated (A and B axes) relative to the tool, reaching surfaces that are hard to machine with fewer axes.

TECHNICAL NOTE In wet milling the tool works with cooling liquid, which limits heat on the material: the typical mode for titanium and glass ceramic. Dry milling uses no liquid: it is the typical mode for zirconia, PMMA, PEEK and wax.

TECHNICAL NOTE Typical digital-lab workflow: scanning, CAD design, CAM toolpath calculation, milling, finishing (and sintering for zirconia).

AXIONCAM RANGE PERIPHERALS


B1


S16


S17


S18


A30


A36


A120

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AXIONCAM
CNC REVOLUTION

TECHNICAL DATASHEET
5-AXIS MILLING MACHINE · WET AND DRY

AXIONCAM

V32

5-axis all-in-one milling machine

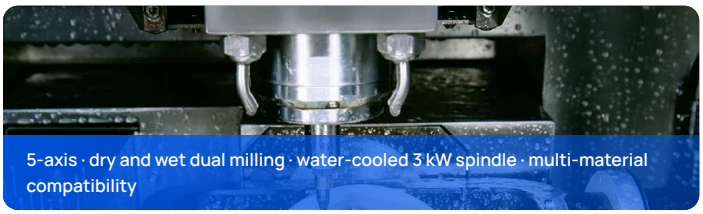


5 axes	3 kW	60,000 rpm	30 pcs	±0.005 mm
5-AXIS MILLING	SPINDLE POWER	SPINDLE SPEED	TOOL MAGAZINE	POSITIONING ACCURACY

5-axis wet and dry milling machine, 3 kW spindle, servo motors on the XYZ axes, 30-position tool magazine, positioning accuracy ±0.005 mm.

TECHNICAL SPECIFICATIONS

Number of axes	**5-axis**
Cutting type	**Wet and dry dual use**
Spindle power	**3 kW**
Spindle speed	**60,000 rpm**
Spindle cooling	**Water-cooled**
Tool magazine capacity	**30 pcs**
XYZ axis motors	**Servo motors**
Dimensions (L×W×H)	**800 × 1000 × 1600 mm**
Net weight	**435 kg**
Positioning accuracy	**±0.005 mm**
Rotation angle	**A ±360°, B ±30°**



5-axis · dry and wet dual milling · water-cooled 3 kW spindle · multi-material compatibility

ADVANTAGES

All-casting structure (iron) + servo motors



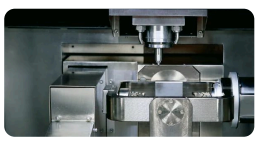
90° vertical milling
Vertical occlusal milling: eliminates undercuts and restores anterior tooth morphology.



Auto-calibration
Intelligent calibration to maintain high-precision machining of the equipment.



High-speed ATC spindle
Balances machining efficiency and denture precision.



A+B axis dual support
Ensures high precision and stability.

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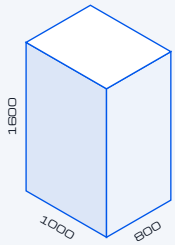
PROCESSABLE MATERIALS

- Titanium discs
- Zirconia
- PEEK
- PMMA
- Wax
- Glass ceramic
- Titanium premill

INDICATIONS

- Coping
- Coping bridge
- Crown
- Abutment
- Premill abutment
- Implant bar
- Veneer
- Onlay
- Hybrid
- Telescope
- Full denture
- Orthodontic braces
- Wax RPD framework
- Model
- Implant bridge
- Implant Malone bridge
- Inlay
- Surgical guide

DIMENSIONS AND WEIGHT



Machine
800 × 1000 × 1600 mm

Net weight: 435 kg

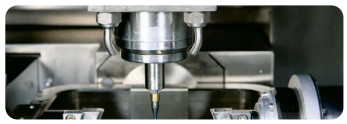
HOLDERS

- Glass ceramic holder
- Titanium disc holder
- Zirconia disc holder
- PEEK disc holder

Burs, discs and blocks: see the Consumables page of the Axioncam Catalogue.

APPLICATIONS AND WORKFLOW



Scan
3D capture of the clinical situation

CAD design
Design of the restoration

CAM
Toolpath calculation

Milling
Machining on the mill

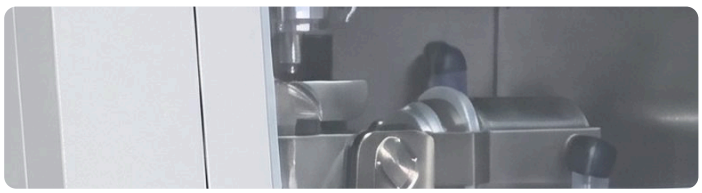
Finishing
Finishing; sintering for zirconia

TECHNICAL NOTE With five axes the workpiece can be tilted and rotated (A and B axes) relative to the tool, reaching surfaces that are hard to machine with fewer axes.

TECHNICAL NOTE In wet milling the tool works with cooling liquid, which limits heat on the material: the typical mode for titanium and glass ceramic. Dry milling uses no liquid: it is the typical mode for zirconia, PMMA, PEEK and wax.

TECHNICAL NOTE Typical digital-lab workflow: scanning, CAD design, CAM toolpath calculation, milling, finishing (and sintering for zirconia).





AXIONCAM RANGE PERIPHERALS


B1


S16


S17


S18


A30


A36


A120

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AXIONCAM
CNC REVOLUTION

TECHNICAL DATASHEET
5-AXIS MILLING MACHINE · WET AND DRY

AXIONCAM

K30

Compact dry and wet milling machine



5 axes	3 kW	60,000 rpm	36 pcs	±0.005 mm
5-AXIS MILLING	SPINDLE POWER	SPINDLE SPEED	TOOL MAGAZINE	POSITIONING ACCURACY

5-axis wet and dry milling machine, 3 kW spindle, servo motors on the XYZ axes, 36-position tool magazine, positioning accuracy ±0.005 mm.

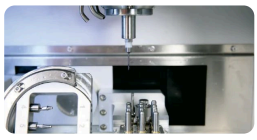
TECHNICAL SPECIFICATIONS

Number of axes	5-axis
Cutting type	Wet and dry dual use
Spindle power	3 kW
Spindle speed	60,000 rpm
Spindle cooling	Water-cooled
Tool magazine capacity	36 pcs
XYZ axis motors	Servo motors
Machine dimensions (L×W×H)	550 × 550 × 750 mm
Cabinet dimensions (L×W×H)	As per catalogue
Whole machine dimensions (L×W×H)	750 × 680 × 1600 mm
Net weight	220 kg
Positioning accuracy	±0.005 mm
Rotation angle	A ±360°, B −90° to +40°

5-axis · dry and wet dual milling · water-cooled 3 kW spindle · multi-material compatibility

ADVANTAGES

Compact design saves space + servo motors



90° vertical milling
Vertical occlusal milling: eliminates undercuts and restores anterior tooth morphology.



Automatic calibration
Intelligent one-touch calibration ensures sustained high-precision machining.

Automatic tool changing
Automatic tool changing for uninterrupted production.

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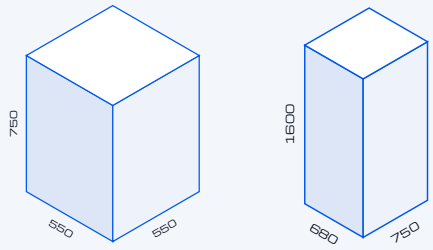
PROCESSABLE MATERIALS

Titanium discs · Zirconia · PEEK · PMMA · Wax · Glass ceramic · Titanium premill

INDICATIONS

- Coping
- Coping bridge
- Crown
- Abutment
- Premill abutment
- Implant bar
- Veneer
- Onlay
- Hybrid
- Telescope
- Full denture
- Orthodontic braces
- Wax RPD framework
- Model
- Implant bridge
- Implant Malone bridge
- Inlay
- Surgical guide

DIMENSIONS AND WEIGHT



Machine
550 × 550 × 750 mm
Whole machine with cabinet
750 × 680 × 1600 mm

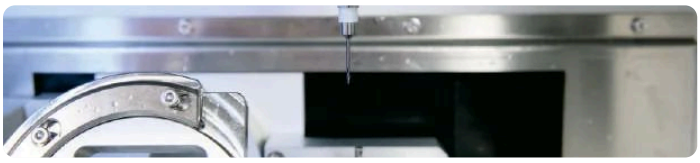
Net weight: 220 kg

HOLDERS

- Glass ceramic holder
- Titanium disc holder
- Zirconia disc holder
- PEEK disc holder

Burs, discs and blocks: see the Consumables page of the Axioncam Catalogue.

APPLICATIONS AND WORKFLOW





Scan
3D capture of the clinical situation

CAD design
Design of the restoration

CAM
Toolpath calculation

Milling
Machining on the mill

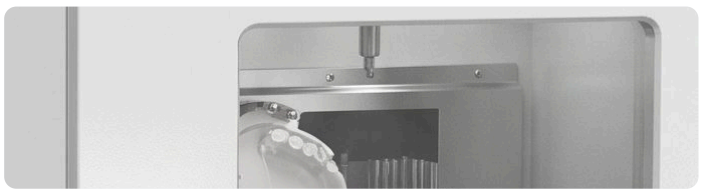
Finishing
Finishing; sintering for zirconia

TECHNICAL NOTE With five axes the workpiece can be tilted and rotated (A and B axes) relative to the tool, reaching surfaces that are hard to machine with fewer axes.

TECHNICAL NOTE In wet milling the tool works with cooling liquid, which limits heat on the material: the typical mode for titanium and glass ceramic. Dry milling uses no liquid: it is the typical mode for zirconia, PMMA, PEEK and wax.

TECHNICAL NOTE Typical digital-lab workflow: scanning, CAD design, CAM toolpath calculation, milling, finishing (and sintering for zirconia).





AXIONCAM RANGE PERIPHERALS


B1


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AXIONCAM
CNC REVOLUTION

TECHNICAL DATASHEET
5-AXIS MILLING MACHINE · DRY



AXIONCAM

D80

5-axis dry milling machine · no air compressor required

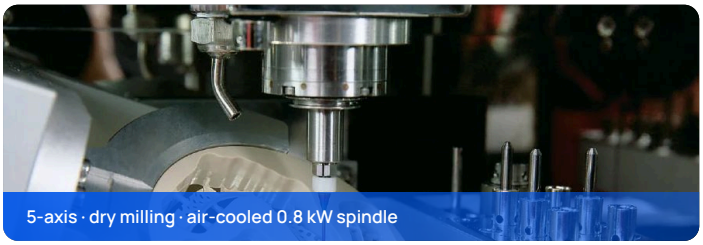
NO AIR COMPRESSOR REQUIRED

5 axes	800 W	60,000 rpm	6 pcs	±0.005 mm
5-AXIS MILLING	SPINDLE POWER	SPINDLE SPEED	TOOL MAGAZINE	POSITIONING ACCURACY

5-axis dry milling machine, 800 W spindle, servo motors on the XYZ axes, 6-position tool magazine, positioning accuracy ±0.005 mm.

TECHNICAL SPECIFICATIONS

Number of axes	5-axis
Cutting type	Dry milling
Spindle power	800 W
Spindle speed	60,000 rpm
Spindle cooling	Air-cooled
Tool magazine capacity	6 pcs
XYZ axis motors	Servo motors
Dimensions (L×W×H)	500 × 650 × 620 mm
Net weight	110 kg
Positioning accuracy	±0.005 mm
Rotation angle	A ±360°, B −100° to +30°


5-axis · dry milling · air-cooled 0.8 kW spindle

ADVANTAGES

All-casting structure (aluminium) + servo motors

90° vertical milling
Vertical occlusal milling: eliminates undercuts and restores anterior tooth morphology.



Automated tool changing
Automatic tool changing with integrated life calculation.

Electric spindle
Eliminates the need for an air compressor and offers significantly reduced noise levels.

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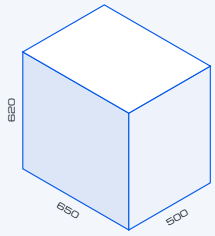
PROCESSABLE MATERIALS

Zirconia · PEEK · PMMA · Wax

INDICATIONS

- Bridges and crowns
- Occlusal splint
- Perforation template
- Abutment
- Inlay, onlay, veneer
- Complete arch
- Model mold
- Bridges of more than 3 units
- Model
- Telescope

DIMENSIONS AND WEIGHT



Machine
500 × 650 × 620 mm

Net weight: 110 kg

HOLDERS

- Zirconia disc holder
- PEEK disc holder
- PMMA disc holder

Burs, discs and blocks: see the Consumables page of the Axioncam Catalogue.

APPLICATIONS AND WORKFLOW





Scan
3D capture of the clinical situation

CAD design
Design of the restoration

CAM
Toolpath calculation

Milling
Machining on the mill

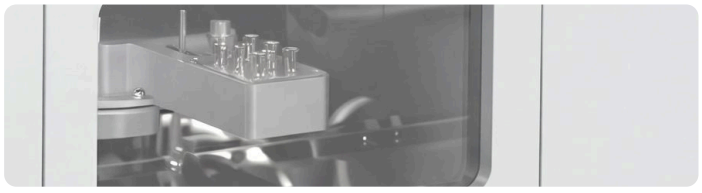
Finishing
Finishing; sintering for zirconia

TECHNICAL NOTE With five axes the workpiece can be tilted and rotated (A and B axes) relative to the tool, reaching surfaces that are hard to machine with fewer axes.

TECHNICAL NOTE Dry milling uses no liquid: it is the typical mode for zirconia, PMMA, PEEK and wax.

TECHNICAL NOTE Typical digital-lab workflow: scanning, CAD design, CAM toolpath calculation, milling, finishing (and sintering for zirconia).





AXIONCAM RANGE PERIPHERALS


B1


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AXIONCAM
CNC REVOLUTION

TECHNICAL DATASHEET
5-AXIS MILLING MACHINE · DRY

AXIONCAM

D51

5-axis dry milling machine

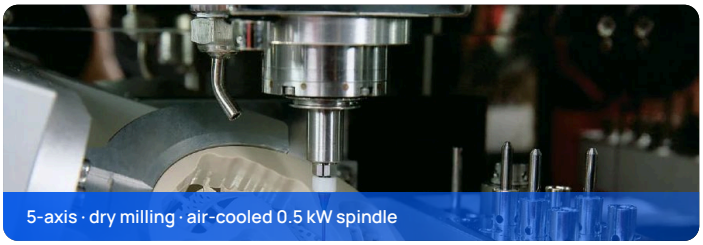


5 axes	500 W	60,000 rpm	6 pcs	±0.005 mm
5-AXIS MILLING	SPINDLE POWER	SPINDLE SPEED	TOOL MAGAZINE	POSITIONING ACCURACY

5-axis dry milling machine, 500 W spindle, servo motors on the XYZ axes, 6-position tool magazine, positioning accuracy ±0.005 mm.

TECHNICAL SPECIFICATIONS

Number of axes	5-axis
Cutting type	Dry milling
Spindle power	500 W
Spindle speed	60,000 rpm
Spindle cooling	Air-cooled
Tool magazine capacity	6 pcs
XYZ axis motors	Servo motors
Dimensions (L×W×H)	500 × 650 × 620 mm
Net weight	110 kg
Positioning accuracy	±0.005 mm
Rotation angle	A ±360°, B −100° to +30°


5-axis · dry milling · air-cooled 0.5 kW spindle

ADVANTAGES

All-casting structure (aluminium) + servo motors

90° vertical milling
Vertical occlusal milling: eliminates undercuts and restores anterior tooth morphology.



Automated tool changing
Automatic tool changing with integrated life calculation.

500 W spindle
500 W spindle balancing machining efficiency and denture precision.

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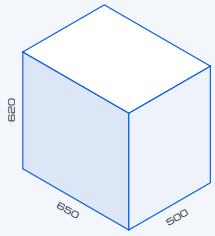
PROCESSABLE MATERIALS

Zirconia · PEEK · PMMA · Wax

INDICATIONS

- Bridges and crowns
- Occlusal splint
- Perforation template
- Abutment
- Inlay, onlay, veneer
- Complete arch
- Model mold
- Bridges of more than 3 units
- Model
- Telescope

DIMENSIONS AND WEIGHT



Machine
500 × 650 × 620 mm

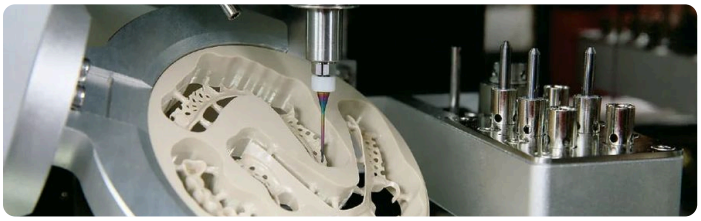
Net weight: 110 kg

HOLDERS

- Zirconia disc holder
- PEEK disc holder
- PMMA disc holder

Burs, discs and blocks: see the Consumables page of the Axioncam Catalogue.

APPLICATIONS AND WORKFLOW





Scan — 3D capture of the clinical situation

CAD design — Design of the restoration

CAM — Toolpath calculation

Milling — Machining on the mill

Finishing — Finishing; sintering for zirconia

TECHNICAL NOTE With five axes the workpiece can be tilted and rotated (A and B axes) relative to the tool, reaching surfaces that are hard to machine with fewer axes.

TECHNICAL NOTE Dry milling uses no liquid: it is the typical mode for zirconia, PMMA, PEEK and wax.

TECHNICAL NOTE Typical digital-lab workflow: scanning, CAD design, CAM toolpath calculation, milling, finishing (and sintering for zirconia).

AXIONCAM RANGE PERIPHERALS


B1


S16


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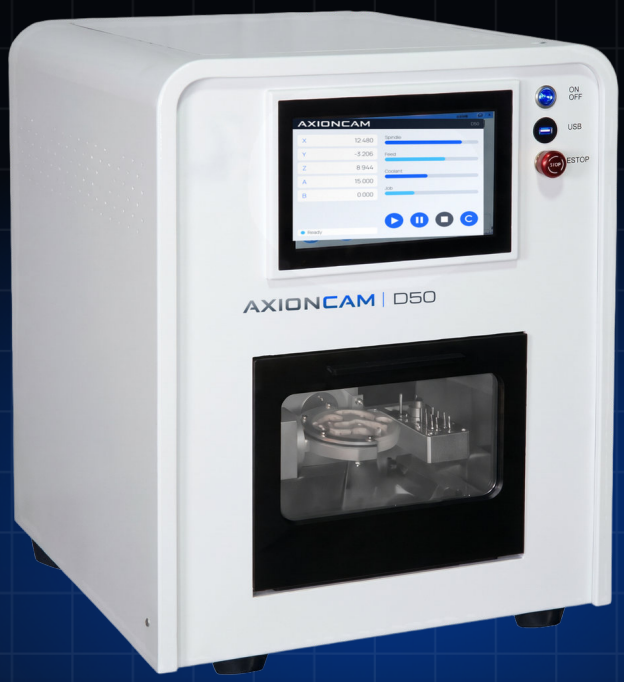
AXIONCAM
CNC REVOLUTION

TECHNICAL DATASHEET
5-AXIS MILLING MACHINE · DRY

AXIONCAM

D50

5-axis dry milling machine

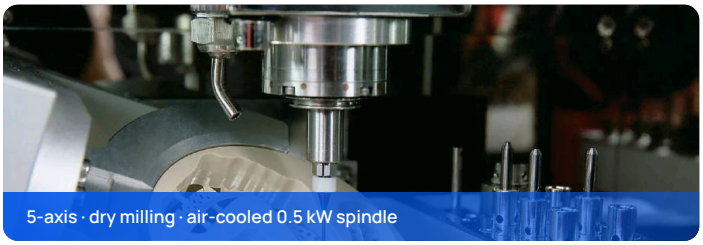


5 axes	500 W	60,000 rpm	6 pcs	±0.005 mm
5-AXIS MILLING	SPINDLE POWER	SPINDLE SPEED	TOOL MAGAZINE	POSITIONING ACCURACY

5-axis dry milling machine, 500 W spindle, servo motors on the XYZ axes, 6-position tool magazine, positioning accuracy ±0.005 mm.

TECHNICAL SPECIFICATIONS

Number of axes	5-axis
Cutting type	Dry milling
Spindle power	500 W
Spindle speed	60,000 rpm
Spindle cooling	Air-cooled
Tool magazine capacity	6 pcs
XYZ axis motors	Servo motors
Dimensions (L×W×H)	500 × 650 × 620 mm
Net weight	110 kg
Positioning accuracy	±0.005 mm
Rotation angle	A ±360°, B −100° to +30°


5-axis · dry milling · air-cooled 0.5 kW spindle

ADVANTAGES

All-casting structure (aluminium) + servo motors

90° vertical milling
Vertical occlusal milling: eliminates undercuts and restores anterior tooth morphology.



Silicone cushion tool magazine
Provides superior protection for burs and boosts their service life significantly.

500 W spindle
500 W spindle balancing machining efficiency and denture precision.

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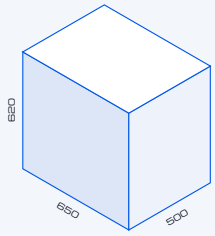
PROCESSABLE MATERIALS

Zirconia · PEEK · PMMA · Wax

INDICATIONS

- Bridges and crowns
- Occlusal splint
- Perforation template
- Abutment
- Inlay, onlay, veneer
- Complete arch
- Model mold
- Bridges of more than 3 units
- Model
- Telescope

DIMENSIONS AND WEIGHT



Machine
500 × 650 × 620 mm

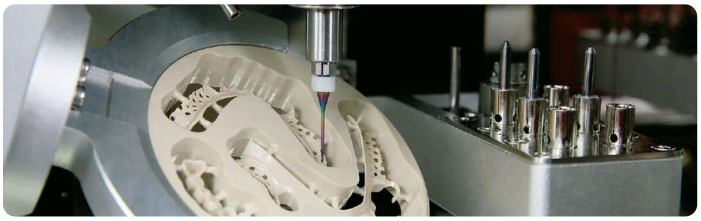
Net weight: 110 kg

HOLDERS

- Zirconia disc holder
- PEEK disc holder
- PMMA disc holder

Burs, discs and blocks: see the Consumables page of the Axioncam Catalogue.

APPLICATIONS AND WORKFLOW





Scan — 3D capture of the clinical situation

CAD design — Design of the restoration

CAM — Toolpath calculation

Milling — Machining on the mill

Finishing — Finishing; sintering for zirconia

TECHNICAL NOTE With five axes the workpiece can be tilted and rotated (A and B axes) relative to the tool, reaching surfaces that are hard to machine with fewer axes.

TECHNICAL NOTE Dry milling uses no liquid: it is the typical mode for zirconia, PMMA, PEEK and wax.

TECHNICAL NOTE Typical digital-lab workflow: scanning, CAD design, CAM toolpath calculation, milling, finishing (and sintering for zirconia).

AXIONCAM RANGE PERIPHERALS


B1


S16


S17


S18


A30


A36


A120

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AXIONCAM
CNC REVOLUTION

TECHNICAL DATASHEET
SINTERING FURNACE



AXIONCAM

S16

Sintering furnace

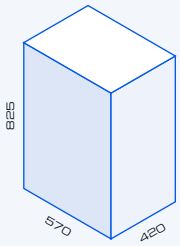
1600 °C	±1 °C	±5 °C	1.5 kW	80 kg
WORKING TEMPERATURE	TEMPERATURE ACCURACY	TEMPERATURE UNIFORMITY	MAX POWER AT 220 V	WEIGHT

Sintering furnace with a working temperature of 1600 °C, Ø100 × 100 × 100 mm chamber, temperature accuracy ±1 °C and uniformity ±5 °C.

TECHNICAL SPECIFICATIONS

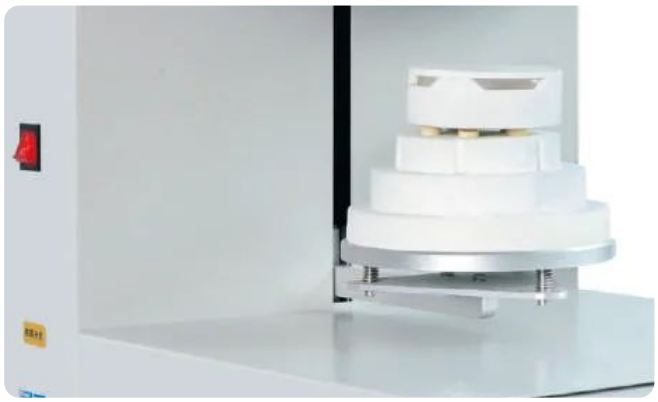
Chamber size	**Ø100 × 100 × 100 mm**
Dimensions	**420 × 570 × 825 mm**
Weight	**80 kg**
Working temperature	**1600 °C**
Working voltage and max. power	**220 V, 1.5 kW**
Temperature accuracy	**±1 °C**
Temperature uniformity	**±5 °C**

DIMENSIONS AND WEIGHT



Furnace
420 × 570 × 825 mm

Weight: 80 kg



TECHNICAL NOTE Zirconia milled in its pre-sintered state is brought to the furnace for sintering: the material densifies and shrinks, which the design takes into account.

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AXIONCAM
CNC REVOLUTION

TECHNICAL DATASHEET
SINTERING FURNACE



AXIONCAM

S17

Sintering furnace

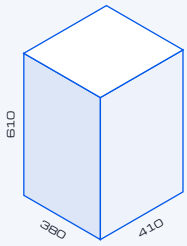
1600 °C	±1 °C	±5 °C	1.5 kW	65 kg
WORKING TEMPERATURE	TEMPERATURE ACCURACY	TEMPERATURE UNIFORMITY	MAX POWER AT 220 V	WEIGHT

Sintering furnace with a working temperature of 1600 °C, Ø100 × 100 × 100 mm chamber, temperature accuracy ±1 °C and uniformity ±5 °C.

TECHNICAL SPECIFICATIONS

Chamber size	**Ø100 × 100 × 100 mm**
Dimensions	**410 × 380 × 610 mm**
Weight	**65 kg**
Working temperature	**1600 °C**
Working voltage and max. power	**220 V, 1.5 kW**
Temperature accuracy	**±1 °C**
Temperature uniformity	**±5 °C**

DIMENSIONS AND WEIGHT



Furnace
410 × 380 × 610 mm

Weight: 65 kg



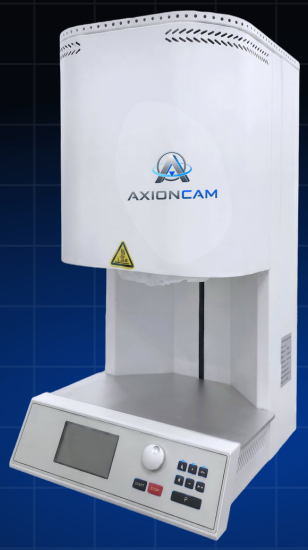
TECHNICAL NOTE Zirconia milled in its pre-sintered state is brought to the furnace for sintering: the material densifies and shrinks, which the design takes into account.

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AXIONCAM
CNC REVOLUTION

TECHNICAL DATASHEET
SINTERING FURNACE



AXIONCAM

S18

Fast and slow sintering furnace

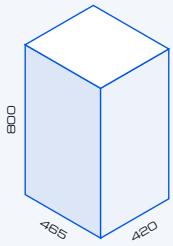
2500 W	220 V ±10%	50 Hz	IP21	44 kg
POWER	AC VOLTAGE	FREQUENCY	LEVEL OF PROTECTION	WEIGHT

Fast and slow sintering furnace, AC 220 V ±10% supply, 50 Hz, 2500 W power, IP21 protection level.

TECHNICAL SPECIFICATIONS

Voltage	**AC 220 V ±10%**
Frequency	**50 Hz**
Power	**2500 W**
Level of protection	**IP21**
Dimensions	**42 × 46.5 × 80 cm**
Weight	**44 kg**

DIMENSIONS AND WEIGHT



Furnace
420 × 465 × 800 mm

Weight: 44 kg

TECHNICAL NOTE Zirconia milled in its pre-sintered state is brought to the furnace for sintering: the material densifies and shrinks, which the design takes into account.

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AXIONCAM
CNC REVOLUTION

TECHNICAL DATASHEET
VACUUM CLEANER

AXIONCAM

A30

Vacuum cleaner



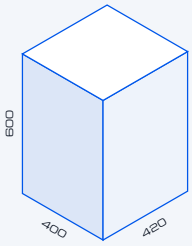
300 W	1.02 kPa	1.56 m³/min	< 65 dB	29.5 kg
POWER	NEGATIVE PRESSURE	AIR FLOW	NOISE	WEIGHT

220 V, 300 W vacuum cleaner, 1.02 kPa negative pressure and 1.56 m³/min air flow (Ø50 mm), noise below 65 dB.

TECHNICAL SPECIFICATIONS

Working voltage	**220 V**
Power	**300 W**
Weight	**29.5 kg**
Dimensions	**420 × 400 × 600 mm**
Negative pressure	**1.02 kPa (Ø50 mm)**
Rate of air flow	**1.56 m³/min (Ø50 mm)**
Noise	**< 65 dB**

DIMENSIONS AND WEIGHT



Vacuum cleaner
420 × 400 × 600 mm

Weight: 29.5 kg



TECHNICAL NOTE Dry milling produces fine dust: extraction at the source helps keep the working chamber and the room clean.

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AXIONCAM
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TECHNICAL DATASHEET
VACUUM CLEANER



AXIONCAM

A36

Vacuum cleaner

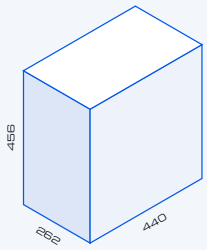
360 W	13 kPa	2350 L/min	≤ 60 dB	18.8 kg
RATED POWER	NEGATIVE PRESSURE	MAX AIR VOLUME	NOISE	WEIGHT (WITH PACKAGE)

360 W vacuum cleaner, 13 kPa negative pressure, 2350 L/min maximum air volume, Ø50 mm suction port, noise up to 60 dB.

TECHNICAL SPECIFICATIONS

Rated power	**360 W**
Negative pressure	**13 kPa**
Suction port diameter	**50 mm**
Maximum air volume	**2350 L/min**
Noise	**≤ 60 dB**
Dimensions (L × W × H)	**440 × 262 × 456 mm**
Weight (including package)	**18.8 kg**

DIMENSIONS AND WEIGHT



Vacuum cleaner
440 × 262 × 456 mm

Weight (with package): 18.8 kg

TECHNICAL NOTE Dry milling produces fine dust: extraction at the source helps keep the working chamber and the room clean.

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TECHNICAL DATASHEET
VACUUM CLEANER



AXIONCAM

A120

Vacuum cleaner

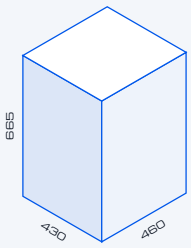
1200 W	3.05 kPa	14.82 m³/min	< 65 dB	39 kg
POWER	NEGATIVE PRESSURE	AIR FLOW	NOISE	WEIGHT

220 V, 1200 W vacuum cleaner, 3.05 kPa negative pressure and 14.82 m³/min air flow (Ø50 mm), noise below 65 dB.

TECHNICAL SPECIFICATIONS

Working voltage	**220 V**
Power	**1200 W**
Weight	**39 kg**
Dimensions	**460 × 430 × 665 mm**
Negative pressure	**3.05 kPa (Ø50 mm)**
Rate of air flow	**14.82 m³/min (Ø50 mm)**
Noise	**< 65 dB**

DIMENSIONS AND WEIGHT



Vacuum cleaner
460 × 430 × 665 mm

Weight: 39 kg



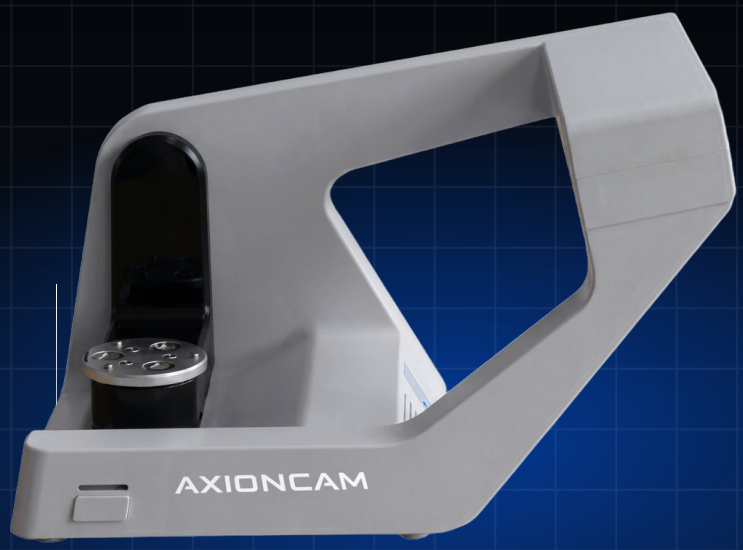
TECHNICAL NOTE Dry milling produces fine dust: extraction at the source helps keep the working chamber and the room clean.

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TECHNICAL DATASHEET
3D SCANNER



AXIONCAM

B1

Structured blue light 3D scanner

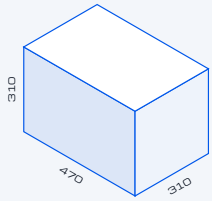
< 0.010 mm	6 s	2×1.3 Mpx	100×100×75 mm	STL
ACCURACY	FULL ARCH	CAMERA	SCANNING RANGE	OUTPUT FORMAT

Structured blue light 3D scanner with two 1.3-megapixel cameras, 100 × 100 × 75 mm scanning range, accuracy below 0.010 mm, STL output.

TECHNICAL SPECIFICATIONS

Scanning principle	**Structured blue light 3D scanning**
Camera	**2 × 1.3 million pixels**
Scanning range	**100 × 100 × 75 mm**
Accuracy	**< 0.010 mm**
Scanning time · full arch	**6 s**
Scanning time · upper jaw / lower jaw	**9 s**
Scanning time · 1-8 teeth	**13 s**
Scanning time · impression	**50 s**
Output format	**STL**
Working temperature	**10-30 °C**
Dimensions	**310 × 470 × 310 mm**
Power	**24 V DC**
Weight	**11.5 kg**

DIMENSIONS AND WEIGHT



Scanner
310 × 470 × 310 mm

Weight: 11.5 kg



TECHNICAL NOTE Structured-light scanning projects a light pattern on the object and reconstructs its 3D surface. The resulting STL file is an open format that CAD software can import.

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BURS

Metal milling burs (shank Ø6 mm)	T01 · T02 · T03 · T04 · T05 · T06 · T07 · T08 · T09 · T10 · T11 · T12 · T13
T-type burs (shank Ø6 mm)	D1.7 · D1.5 · D2.0
PMMA milling burs (shank Ø6 mm)	D1.0F · D0.6 · D1.0 · D2.5
Threaded milling burs (shank Ø6 mm)	M1.4 · M1.6 · M1.8 · M2.0
Glass-ceramic milling burs (shank Ø4 mm)	BM2.5 · BM1.0 · BM0.6
Glass-ceramic milling burs (shank Ø6 mm)	BM2.5 · BM1.0 · BM0.6
Zirconia milling burs DC/DLC/RC (shank Ø4 mm)	D2.0 · D1.0F · D1.0 · D0.6
Zirconia milling burs DC/DLC/RC (shank Ø6 mm)	D0.3 · D0.6 · D1.0F · D1.0 · D1.5F · D2.0
Zirconia milling burs, series B (shank Ø4 mm)	D2.5 · D1.0F · D1.0 · D0.6
Zirconia milling burs, series C (shank Ø4 mm)	D0.6 · D1.0 · D1.5F · D2.0





DISCS AND BLOCKS

Titanium	Discs and square plates
PEEK	Discs and plates
PMMA	Discs
Wax	Discs
Glass ceramic	Blocks
Zirconia	Discs






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CONTACTS

Axioncam

www.axioncam.it

info@axioncam.it

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