



04301-00



04301-10

New



04302-20

Cole-Parmer Analytical Mill

Grind sample down to 125 µm particle size in seconds

- Automatic shutoff protects against overheating and overloading

This high-speed blade operates at 20,000 rpm to grind up to 3 cu in. volume sample down to 125-µm particle size in seconds. The fan-cooled, universal-type 1/4-hp motor is completely sealed from the grinding chamber by a dust-tight seal to protect your sample. Internal heat exchanger surrounds grinding chamber to maintain a precise temperature; connect chamber to recirculating bath or tap water via two 3/8" OD nozzles at rear of mill. The mill is constructed of heavy-duty cast aluminum with enameled finish; the cutting blade is stainless steel.

Note: Using liquids in the chamber may damage motor. Unit is for intermittent use only.

What's included: a 6-ft three-wire cord, 115 VAC model has a plug.

Specifications & Ordering Information

Catalog number	Dimensions	Power	Shpg wt	Price
K-04301-00 K-04301-02	5"W x 9"H x 4"D	115 VAC, 50/60 Hz 230 VAC, 50/60 Hz	7 lb (3.2 kg)	

Accessories

K-04300-20 Tungsten-carbide blade

for grinding materials with a hardness factor of up to 9 Mohs

K-04300-22 Stainless steel blade

for grinding fibrous materials

Heavy-Duty Analytical Mill

High-speed blade grinds samples in seconds

- Grind dry and brittle sample volumes up to 250 mL
- Cool samples with a recirculating bath or tap water

Mill is ideal for dried vegetation, soil samples, plastic granulates, frozen food samples, and more. Keep samples cool by circulating tap water or using a recirculating bath—the water-jacketed chamber accepts 3/8" ID tubing via two barbed fittings. Run mill continuously or set the adjustable timer from 0 to 15 minutes.

Automatic shut-off protection safeguards mill against overheating and overloading. Fan-cooled, universal-type 2/3-hp motor is completely isolated from the grinding chamber by a dust-tight seal. Mill is constructed of heavy-duty cast aluminum with enameled finish; cutting blade and internal chamber are 304 SS. Order an additional grinding chamber to run back-to-back tests—use one while cleaning and prepping the other. **Note:** Using liquids in the chamber may damage motor.

What's included: stainless steel cutting blade (04300-52) and a 6-ft power cord (115 VAC model includes plug).

Specifications & Ordering Information

Speed: 20,000 rpm **Motor:** 2/3 hp **Timer:** 0 to 15 minutes **Dimensions:** 6 3/4"W x 13 3/4"H x 6 3/4"D

Catalog number	Sample capacity	Feed particle size	Final particle size	Power (VAC, Hz)	Price
K-04301-10 K-04301-15	250 mL	20 mm maximum	< 1 µm	115, 50/60 230, 50/60	

Accessories

K-04300-24 Tungsten-carbide blade for grinding materials with a hardness factor up to 9 Mohs

K-04300-26 Star-shaped 301 SS blade for grinding fibrous materials such as paper and vegetation

K-04300-28 Additional grinding chamber, 304 SS. Order blade separately

K-04300-52 Replacement blade, 304 SS for grinding materials with a hardness factor up to 5 Mohs

Micro-Grinder Mill

Easily pulverize small samples

- Safe to use—no sharp edges. Provides isolated homogenous samples

Specifications & Ordering Information

Dimensions: Cutting head: 5/8" diameter
Overall: 1 1/2"H x 2" diameter

Catalog number	Description	Price
K-04302-20	Micro-grinder mill	

Use this general-purpose mill to crush and grind small samples. Place a sample in the mill cavity, then press the mill halves together and rotate—mill pulverizes the sample easily. Clearance between cutting heads is adjustable to customize for samples; cutting head measures 5/8" diameter. All stainless steel construction is autoclavable for sterile sample preparation.