

ShakIR and Super ShakIR – For Optimized Sample Grinding



Standard ShakIR



Super ShakIR

FEATURES OF THE SHAKIR SAMPLE GRINDERS

- Produce finely powdered mix of sample and diluent – ideal for clear pellets and excellent diffuse reflectance spectra
- Minimize exposure of sample to atmospheric moisture – a chief cause of cloudy pellets
- Options for grinding ordinary and difficult samples
- Quiet operation and built-in safety features

ShakIR accessories provide a fast and simple method of mixing and grinding samples for diffuse reflectance sampling and in preparation for making KBr pellets. A small amount of sample and the IR transparent diluent (typically KBr) are simply scooped into a vial with mixing ball. The accessory thoroughly mixes and pulverizes the sample within seconds.

The standard ShakIR uses reciprocating motion of the vial holder that follows a “figure 8” path. The vial is swung through a 5 degree arc at high RPMs, causing the ball to strike the end of the vial, which is sufficient to grind most materials into a powder.

The accessory provides electronic control for precise and reproducible setting of grinding time up to 95 seconds. The protective shield provides security to grinder operation. The ShakIR construction and weight offer long-term, reliable operation and minimized vibration and noise. The ShakIR features a small footprint. The base is 14.4 cm x 17.2 cm with a height of 27.3 cm.

The Super ShakIR also uses “figure 8” reciprocating motion for sample grinding, plus it offers more control over grinding speed and time intervals – specifically, 6 RPM levels, from 2500 to 4600 are available and samples can be ground from 5 to 60 seconds. This provides a wide range of settings for bringing even very difficult samples to fine powder consistency quickly.

The Super ShakIR features a heavy duty metal body with a chemically resistant stainless steel grinding chamber. The unit operates quietly, regardless of RPM settings. The grinding chamber is protected by the door with a viewing window. For safety, the accessory will not operate until the door is fully closed. The Super ShakIR footprint is 17.5 cm x 28 cm and its height is 16 cm.

ORDERING INFORMATION

ShakIR

PART NUMBER	DESCRIPTION
161-1070	ShakIR, Heavy Duty Sample Grinder, 110/220V Includes mount for 1" vials

ShakIR Vials (required)

PART NUMBER	DESCRIPTION
161-1035	Stainless Steel Vial with Ball, 1" long x 0.5"

Options and Replacement Parts for ShakIR

PART NUMBER	DESCRIPTION
161-1037	Spare Stainless Steel Ball
160-8010	KBr Powder, 100 g

Super ShakIR

PART NUMBER	DESCRIPTION
161-1080	Super ShakIR, Sample Grinder, 110/220V Includes mount for 1.7" vials with two end-cups, stainless steel vial, 50 stainless steel balls, bullet-shaped bead

Options and Replacement Parts for Super ShakIR

PART NUMBER	DESCRIPTION
161-1038	Bullet-Shaped Bead
161-1039	Stainless Steel Vial, 1.7" long
161-1041	Stainless Steel Ball Assortment (50)
160-8010	KBr Powder, 100 g