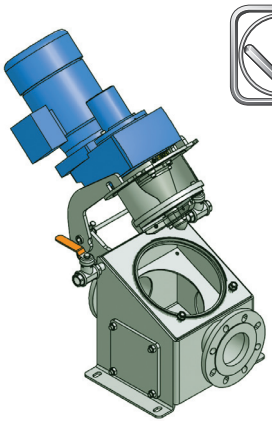
RotaCut RCQ20-G

The Inline model, our most versatile Macerator design, excels in a variety of applications. Primarily stationary mounted, the Inline provides high performance maceration and solids handling to protect downstream pumps and equipment such as belt presses, centrifuges or digesters from damaging solids and debris. The Inline can also be used for mobile applications when mounted to a skid-type framework and fitted with quick-connect flanges. The RotaCut Inline is available in four sizes to suit your capacity requirements.



VOGELSANG

HIGH PERFORMANCE GRINDING SYSTEMS

True Pump Protection: Unlike a twin-shafted grinder, the RotaCut offers real pump protection by cutting (not shredding) debris suspended in the liquid to a predetermined size suitable for your pumps to pass. What sets the RotaCut apart from other macerators is its unique collection basin. While a twin-shafted grinder simply macerates anything that is present in the liquid and passes it on down the pipe, the RotaCut removes heavy solid objects from the liquid before they get a chance to damage downstream pumps and equipment.

Complete Inline Maintenance: Another advantage of the RotaCut is the ability to provide routine service inline, with minimal tools, quickly. The complete cutting assembly is easily serviced in less than half an hour and there are no parts to send back to the factory for reconditioning.

High Capacity: The inline design maximizes throughput with minimal head loss.

Cutting Screen Geometry: One of the most innovative features of the RotaCut is the geometry of the cutting screen pattern. Each pattern is designed to achieve a certain cut particle size based on the chosen rotational speed. The spiral patterns create an even cutting surface to keep the blades wearing evenly. Each screen is reversible which doubles the life of a single wear part.

Auto Reverse: At predetermined intervals, the rotation of the cutting assembly will reverse. This keeps the blades sharp and maximizes the life of all wear components. In addition, Auto Reverse is used to clear an object that becomes lodged in the screen that hasn't been cut on the first attempt. The blades will cut back and forth until the object has been cleared.

Auto Cut Control: An optional hydraulic unit will monitor and correct the tension between the blade assembly and cutting screen automatically. This optimizes cutting performance as well as the life of wear components.

MECHANICAL SPECIFICATIONS: STANDARD & OPTIONAL

Materials:

Collection Basin: Mild Steel Hot Dipped Galvanized
Optional: Stainless Steel, Mild Steel Painted

Cutter Head, Lid & Motor Mount: Mild Steel Hot Dipped Galvanized
Optional: Stainless Steel, Mild Steel Painted

Blade Holder: Hardened Steel

Blades: Hardened Steel 90MnCrV8 (229 Brinell)
Optional: Extended Life (230 Brinell), 440B Stainless Steel

Cutting Screen: CREUSABRO 8000 (500 Brinell)
Optional: 420 Stainless Steel

Shaft: Hardened Alloy Steel (150,000 psi tensile)

Mechanical Seal: Component style Duronite Face Seal

Control Panel: A stainless steel Nema 4X panel controls the RotaCut's rotation direction, speed and Auto Reversing feature.

Mechanical Specifications:

Connections: Suction & Discharge: 4"

Weight: 222lbs.

Blade Assembly Options: 4 (Standard) or 6 blade cutting assembly

Cutting Screen Options: Several patterns available (see reverse side).

Drive: Inline Gear Motor

Warranty, Testing & Quality Assurance:

Warranty: Municipal, 2 years, 100% parts and labor, including wear. Industrial & Agricultural, 1 year, manufacturer's defects.

Testing: Each unit is factory tested at the customers specified duty point at a suitable range of flow and pressure conditions in accordance with Hydraulic Institute Standards.

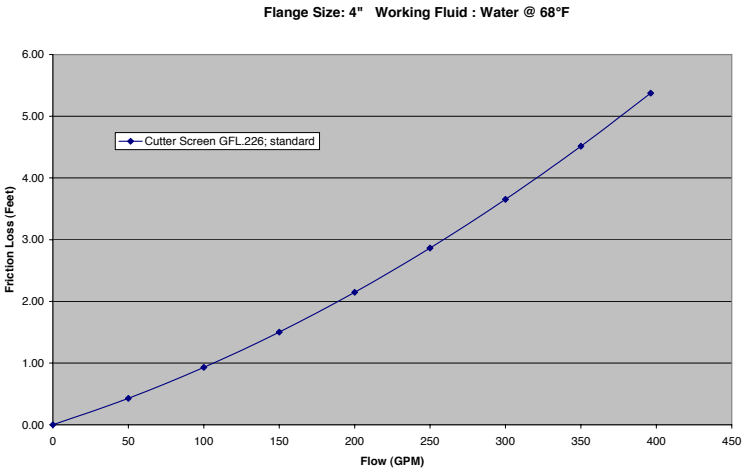
ISO 9001:2008 Certification: Vogelsang is fully certified for the manufacture and repair of industrial grinding equipment.

RotaCut RCQ20-G

PERFORMANCE SPECIFICATIONS

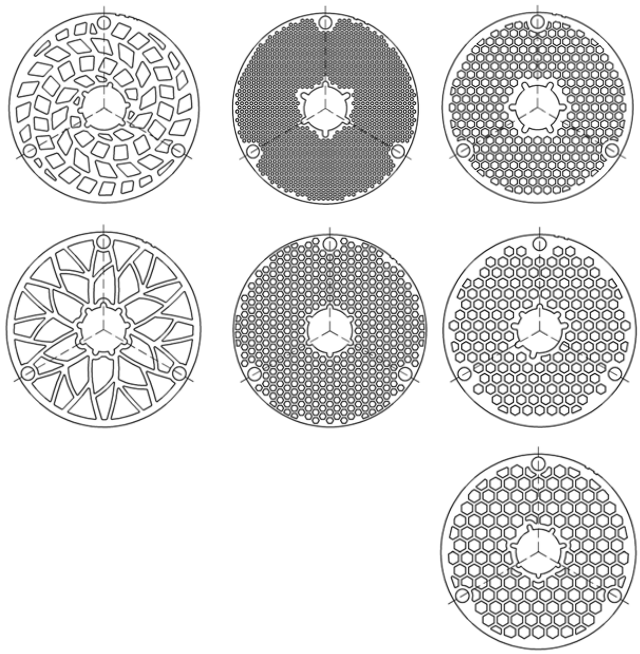
Model	*Motor*	*Rotational Speeds rpm 1/min*	*Installed Power hp / kW*	*Max Flow gpm m3/h*	*Max Pressure psi / bar*	*Flange Size in / mm*
RCQ20-G	Geared Motor	87 159 (Standard) 318	1.5 / 1.1 3.0 / 2.2 (Standard)	400 / 90	44 / 3	4 / 100

FRICTION LOSS CURVE



CUTTING SCREEN OPTIONS

Standard (top) & Coarse. Honey Comb Style Fine, Medium & Coarse



DIMENSIONAL DRAWING