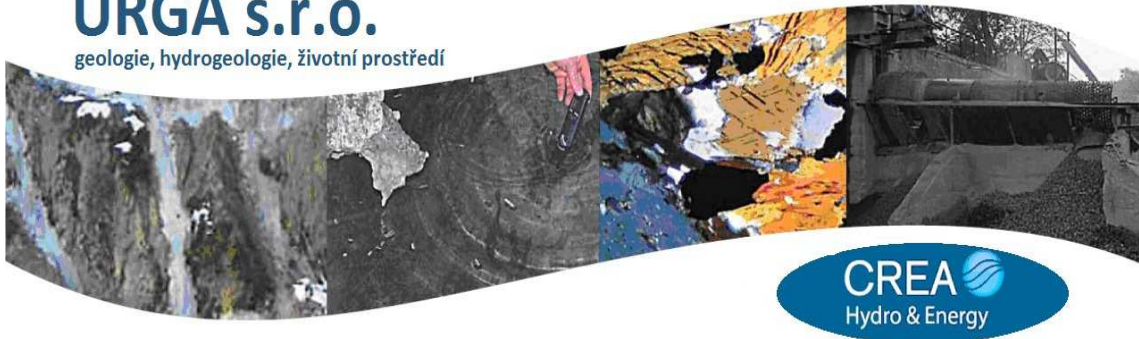


**URGA s.r.o.**

geologie, hydrogeologie, životní prostředí



**RGZ-1**



**TROMMEL CENTRIFUGE  
CONCENTRATOR**

**Urga's trommel centrifuge concentrator device is used to classify and subsequently to gravitationally concentrate granular materials. This applies especially to alluvial placer raw materials, with possible content of clay, or to pulverized ore material.**

### **Applications :**

- **geological and geochemical survey and prospecting**
- **sampling of placers with content of heavy metals (gold, platinum)**
- **sampling of pulverized ore materials with content of metals**
- **sampling of granulate materials, contaminated with heavy metals (lead,mercury)**
- **as a sub-unit in larger processing units or plants**

Urga s.r.o. developed device which is a combination of double cylindrical trommel screen and gravitational separator – centrifuge. Material is fed into the hopper manually or mechanically (conveyor belt or loader) and is washed via input control screen into the double sheath trommel screen. Undersized fraction -4 mm is washed down into the gravitational concentrator. The trommel screen and the centrifuge each have its own independent drive, the 3-phase Siemens 50/60 Hz motor with the belt transmission. Each motor has a separate AEG switch

and circuit breaker. Electrical installation is supplemented with Moeller current protection to comply with the European safety standards. The centrifuge can be pulled out of its position on a swivel arm and thus facilitate cleaning of the separator and ejection of the heavy concentrate. The separator pot can be completely removed.



### Technical specifications :

<b>Trommel</b>		<b>Centrifuge</b>	
Hopper volume	0.1 m <sup>3</sup>	Throughput (solids)	1,2 m <sup>3</sup> /hod
Control screen openings	20 mm	Input granularity	0-4 mm
Drum length	905 mm	Rotational vessel diameter	312 mm
Drum diameter	454 mm	Speed of rotation	370 rev/min
Outer drum openings	d = 4 mm	El. motor power	0,55 kW
Inner drum openings	d = 8 mm	Max. height	1460 mm
Input granularity	< 20 mm	Max. length	1500 mm
Speed of rotation	42 rev/min.	Min. width	670 mm
El. motor power	0,55 kW	Total weight	262 kg
Water consumption	60-80 l/min		

**RGZ-1** is above all an excellent sampling device, small-scale or pilot processing device, best suited for processing of granular raw material containing gold or platinum, especially when the raw material contains high proportion of fine particle sizes of the metals under 1mm. The device features high recovery of gold and platinum under 100 µm and is capable of extracting the precious metals down to the particle sizes of 10 µm. It is therefore capable of processing raw materials which cannot be processed by the conventional technologies except for chemical methods and as such complies with the requirements of BAT (Best available technology), both economically and from an environmental point of view.