



# ROCKLABS

World Leaders in Sample Preparation Equipment  
and Reference Materials

Range of Heads  
And composition of materials.

## Range of Heads

For the Bench Top Ring Mill and Standard Ring Mill.

Rocklabs offers a wide range of Heads to be used on the Bench Top Ring Mill and the Standard Ring Mill. The range of Heads includes: Agate, Carbon Steel, Chrome Steel, Tungsten Carbide and Zirconia. The choice of Head type is determined by the size and type of sample being pulverised. Please use the key to assist with reading the specifications.

### Key

B	L	P	R	SPD	D	BTRM	SRM
Bowl	Lid	Puck	Ring	Split discus set	Single discus	Bench Top Ring Mill	Standard Ring Mill

### Specifications and part numbers for Carbon Heads

Machine	Complete head	Bowl	Lid	Ring and/or puck set	Split discus set	Single discus	Rec Sample Weight	Bowl Outer Ø
BTRM / SRM	CARB-40-BLP	CARB-40-B	CARB-40-L	CARB-40-P	NA	NA	Min 1g / Max 40g	102mm
BTRM / SRM	CARB-100-BLSPD	CARB-100-B	CARB-100-L	NA	CARB-100-SPD	NA	Min 20g / Max 100g	110mm
SRM	CARB-200-BLRP	CARB-200-B	CARB-200-L	CARB-200-RP	NA	NA	Min 5g / Max 200g	164mm
SRM	CARB-250-BLSPD	CARB-250-B	CARB-250-L	NA	CARB-250-SPD	NA	Min 20g / Max 250g	164mm
SRM	CARB-350-BLRRP	CARB-350-B	CARB-350-L	CARB-350-RRP	NA	NA	Min 20g / Max 350g	218mm
SRM	CARB-500-BLRPPP	CARB-500-B	CARB-500-L	CARB-500-RPPP	NA	NA	Min 20g / Max 500g	218mm
SRM	CARB-600-BLSPD	CARB-600-B	CARB-600-L	NA	CARB-600-SPD	NA	Min 100g / Max 600g	218mm
SRM	CARB-800-BLD	CARB-800-B	CARB-800-L	NA	NA	CARB-800-D	Min 200g / Max 800g	254mm
SRM	CARB-1000-BLSPD	CARB-1000-B	CARB-1000-L	NA	CARB-1000-SPD	NA	Min 200g / Max 1000g	254mm

### Specifications and part numbers for Chrome Heads

Machine	Complete head	Bowl	Lid	Ring and/or puck set	Split discus set	Single discus	Rec Sample Weight	Bowl Outer Ø
BTRM / SRM	CHRO-40-BLP	CHRO-40-B	CHRO-40-L	CHRO-40-P	NA	NA	Min 1g / Max 40g	102mm
BTRM / SRM	CHRO-100-BLSPD	CHRO-100-B	CHRO-100-L	NA	CHRO-100-SPD	NA	Min 20g / Max 100g	110mm
SRM	CHRO-200-BLRP	CHRO-200-B	CHRO-200-L	CHRO-200-P	NA	NA	Min 5g / Max 200g	164mm
SRM	CHRO-250-BLSPD	CHRO-250-B	CHRO-250-L	NA	CHRO-250-SPD	NA	Min 20g / Max 250g	164mm
SRM	CHRO-350-BLRRP	CHRO-350-B	CHRO-350-L	CHRO-350-P	NA	NA	Min 20g / Max 350g	218mm
SRM	CHRO-500-BLRPPP	CHRO-500-B	CHRO-500-L	CHRO-500-P	NA	NA	Min 20g / Max 500g	218mm
SRM	CHRO-600-BLSPD	CHRO-600-B	CHRO-600-L	NA	CHRO-600-SPD	NA	Min 100g / Max 600g	218mm
SRM	CHRO-800-BLD	CHRO-800-B	CHRO-800-L	NA	NA	CHRO-800-D	Min 200g / Max 800g	254mm
SRM	CHRO-1000-BLSPD	CHRO-1000-B	CHRO-1000-L	NA	CHRO-1000-SPD	NA	Min 200g / Max 1000g	254mm

### Specifications and part numbers for Agate, Tungsten Carbide and Zirconia Heads

Machine	Complete head	Bowl	Lid	Ring and/or puck set	Split discus set	Single discus	Rec Sample Weight	Bowl Outer Ø
BTRM / SRM	TC-40-BLP	TC-40-B	TC-40-L	TC-40-P	NA	NA	Min 1g / Max 40g	102mm
SRM	TC-200-BLRP	TC-200-B	TC-200-L	TC-200-RP	NA	NA	Min 10g / Max 200g	170mm
BTRM / SRM	ZIRC-40-BLP	ZIRC-40-B	ZIRC-40-L	ZIRC-40-P	NA	NA	Min 1g / Max 40g	102mm
SRM	ZIRC-200-BLRP	ZIRC-200-B	ZIRC-200-L	ZIRC-200-RP	NA	NA	Min 10g / Max 200g	157mm
SRM	AGAT-50-BLP	AGAT-50-B	AGAT-50-L	AGAT-50-P	NA	NA	Min 10g / Max 50g	150mm
SRM	AGAT-200-BLRP	AGAT-200-B	AGAT-200-L	AGAT-200-RP	NA	NA	Min 40g / Max 200g	190mm



# Composition of Materials

For the range of heads.

## Specifications

All figures are presented in ppm, except where noted and are typical to maximum values.

Symbol	Element	Agate	Carbon Steel	Chrome Steel	Tungsten Carbide	Zirconia
Ag	Silver		0.3			<0.2
Al	Aluminium	Trace	300	300	30	70
As	Arsenic			<100	<10	<1
Au	Gold		<0.2			0.04
B	Boron				<10	
Ba	Barium				<10	160
Br	Bromine					1
C	Carbon		0.48%	2%	5.50%	
Ca	Calcium		40		50	150
Cl	Chlorine					<10
Co	Cobalt		30	200	10%	3
Cr	Chromium		1200	12%	50	<10
Cs	Caesium					<1
Cu	Copper		250	200	30	<10
Fe	Iron	Trace	98%	86%	100	70
Ga	Gallium					1
Hf	Hafnium					1.30%
In	Indium					0.01
K	Potassium	Trace			30	<20
La	Lanthanum					7
Mg	Magnesium					2%
Mn	Manganese	Trace	7000	3500	50	3
Mo	Molybdenum		100	100	50	<10
N	Nitrogen				100	40
Na	Sodium	Trace		<500	30	
Nb	Niobium		2	50	100	<10
Ni	Nickel		200	800	50	
P	Phosphorus		<100	140	30	
Pb	Lead		5	<100	30	<10
Rb	Rubidium					<10
Re	Rhenium					<0.05
S	Sulphur		<350	100	50	
Sb	Antimony		10		10	3
Sc	Scandium					1
Se	Selenium					<10
Si	Silicon		2500	4500	50	220
Sn	Tin		20	<100		
Sr	Strontium		0.3			1000
Ta	Tantalum		0.4		30	<1
Th	Thorium		0.4			4
Ti	Titanium			<100	30	450
U	Uranium		<1			0.6
V	Vanadium		<100	200	30	0.1
W	Tungsten		7	200	84.50%	<2
Zn	Zinc		10	<100	30	<10
Zr	Zirconium		<1	<100	<10	70.30%

Rare Earths		Agate	Carbon Steel	Chrome Steel	Tungsten Carbide	Zirconia
Ce	Cerium					<10
Eu	Europium					0.5
Gd	Gadolinium					<0.5
Lu	Lutetium					0.3
Nd	Neodymium					<1
Sm	Samarium					<0.1
Tb	Terbium					<0.3
Y	Yttrium					0.1
Yb	Ytterbium					1