DIAMOND CUT-OFF WHEELS

Metal bonded wheels are used for cutting brittle materials, such as ceramics or minerals, while resin bonded wheels are used for more ductile materials, such as sintered carbides or composites containing predominantly hard phases.

Several factors are important for choosing the appropriate wafering blade. These include: diamond concentration (low and high), diamond bond (metal plate), diamond size (fine or medium), blade diameter and blade thickness. The diamond concentration is important because it directly affects the load which is applied during cutting. For example, brittle materials such as ceramics require higher effective loads to section, whereas ductile materials such as metals require more cutting points. The result is that low concentration blades are recommended for sectioning hard brittle materials such as ceramics and high concentration blades are recommended for ductile materials containing a large fraction of metal or plastic.









DIMOS

Diamond Cutting Discs for use with SERVOCUT & METACUT

Order No	Diameter mm.	Bond	Arbor mm.	Thickness mm.	Diamond Layer's Dep. [X]mm.	Diamond Size/ Concentration	Grain Size: (Mesh)	Recommended for Cutting
19-250	254	Metal bonded	32	1.52	10	Coarse/High	60/80	For general usage
19-251	254	Resin bonded	32	1.52	6.35	Medium/High	100	For hard, delicate or brittle materials
19-300	305	Metal bonded	32	2.08	10	Coarse/High	60/80	For general usage
19-301	305	Resin bonded	32	1.65	6.35	Medium/High	100	For hard, delicate or brittle materials
19-400	406	Metal bonded	32	2.00	10	Coarse/High	60/80	For general usage
19-401	406	Resin bonded	32	2.41	6.35	Medium/High	100	For hard, delicate or brittle materials

DIMOS

Diamond Cutting Wheels for use with MICRACUT

Order No	Diameter mm.	Bond	Arbor mm.	Thickness mm.	Diamond Layer'sDep. [X]mm.	Diamond Size/ Concentration	Grain Size: (Mesh)	Recommended for Cutting
19-100	101.1	Metal bonded	12.7	0.35	4	Medium/High	150	•For general use with ferrous and non-ferrous alloys; copper, aluminium, metal matrix composites, PCB boards, thermal spray coatings and titanium alloy.
19-125	127	Metal bonded	12.7	0.4	4	Medium/High	150	 For general use with ferrous and non-ferrous alloys; copper, aluminium, metal matrix composites, PCB boards, thermal spray coatings and titanium alloy.
19-130	127	Metal bonded	12.7	0.4	4	Fine/Low	220	• For use with hard brittle materials structural ceramics, boron carbide, boron nitride and silicon carbide.
19-126	127	Resin bonded	12.7	0.5	5	Medium/High	150	 Hard, delicate materials or brittle materials(cannot be used at low speeds. High speed only 950 RPM's or higher.)
19-150	152	Metal bonded	12.7	0.5	4	Medium/High	150	 For general use with ferrous and non-ferrous alloys; copper, aluminium, metal matrix composites, PCB boards, thermal spray coatings and titanium alloy.
19-157	152	Metal bonded	12.7	0.5	4	Fine/Low	220	• For use with hard brittle materials structural ceramics, carbide, boron nitride and silicon carbide.
19-151	152	Resin bonded	12.7	0.5	5	Medium/High	150	•For hard, delicate materials or brittle materials (cannot be used at low speeds. High speed only 950 RPM's or higher.)
19-200	203	Metal bonded	12.7	0.81	5	Medium/High	150	 For general use with ferrous and non-ferrous alloys; copper, aluminium, metal matrix composites, PCB boards, thermal spray coatings and titanium alloy.
19-205	203	Metal bonded	12.7	0.81	5	Fine/High	220	• For use with hard brittle materials structural ceramics, carbide, boron nitride and silicon carbide
19-201	203	Resin bonded	12.7	0.88	5	Medium/High	150	•For hard, delicate materials or brittle materials (cannot be used at low speeds. High speed only 950 RPM's or higher.)

CBI	N							CBN Cutting Discs for use with MICRACUT		
Order No	Diameter mm.	Bond	Arbor mm.	Thickness mm.	Diamond Layer's Dep (X)mm.	Diamond Size/ · Concentration	Grain Size: (Mesh)	Recommended for Cutting		
19-127	125	Metal bonded	12.7	0.4	5	Medium/high	150	Hard metals, iron, steel, lead and titanium, ferrous materials		
19-152	150	Metal bonded	12.7	0.5	5	Medium/high	150	Hard metals, iron, steel, lead and titanium, ferrous materials		
19-202	200	Metal bonded	12.7	0.9	5	Medium/high	120	Hard metals, iron, steel, lead and titanium, ferrous materials		

COOLING FLUIDS

Order No	Code	Description	Түре	Quantity	For use with
19-902	METCOOL	Nature Friendly Soluble Oil	Water-based	5 lt.	METACUT & SERVOCUT
19-905	METCOOL II	Nature Friendly Soluble Oil	Water-based	1 lt.	MICRACUT 152/202
19-906	METCOOL NF	Nature Friendly Soluble Oil Perfect corrosion protection for reactive metals like copper, brass, cobalt, aluminum, tungsten carbide, etc	Water-based	5 lt.	METACUT & SERVOCUT

^{*}Recommended mix ratio is 3% Metcool to 97% water.