

TUNGSTEN CARBIDE ROTARY BURR CUTTER

CRAFT TECH CUTTING TOOLS PVT.LTD

PLOT NO 229, SECTOR A,ZONE B,MANCHESWAR INDUSTRIAL ESTATE,BHUBANESWAR,ODISHA,India,751010

Land line-0674-2585101, Cell-+91-8480928628/+91-8895574279, email- craft_tech@sancharnet.in/ctct.tcrb@gmail.com.

TECHNICAL DATA OF USAGE OF TUNGSTEN CARBIDE ROTARY BURR CUTTER

RECOMMENDED OPERATING SPEED

ROTARY BURR DIAMETER	OPERATING SPEED	
	FRPM	TO
3MM	45,000	90,000
6MM	23,000	45,000
10MM	19,000	30,000
12MM	15,000	22,000
16MM	12,000	18,000
20MM	7,500	15,000

BURR APPLICATION BY MATERIAL

MATERIAL	STANDARD CUT	DIAMOND CUT	SHALLOW CUT
ALUMINIUM			✓
BRASS, BRONZE, COPPER	✓	✓	
CARBON	✓		
CAST IRON	✓		
FIBERGLASS	✓		
HARD RUBBER	✓		✓
MAGNESIUM			✓
MASONITE	✓		✓
PLASTICS	✓		✓
STEEL-40-60 HRc	✓	✓	
STEEL, ALLOY STEEL	✓	✓	
NICKEL/ CHROME STEELS	✓	✓	
STAINLESS STEEL	✓	✓	
STEEL WELDMENTS	✓	✓	
TITANIUM	✓	✓	
WOOD			✓
ZINC			✓

BURR TROUBLESHOOTING GUIDE : POSSIBLE CAUSES

	EXCESSIVE FORCE	SHANK FRICTION WITH WORK PIECE	WORN BURR	INCORRECT COLLECT LOCATION	WORN GRINDER BEARING	POOR SHANK STRAIGHTNESS	UNSTABLE WORK PIECE	WORKING IN SOFT METAL	CUTTING ABRASIVE METAL	LOW SETUP RIGIDITY
BROKEN BRAZING JOINT	✓	✓	✓							
POOR BURR CONTROL				✓	✓	✓	✓			✓
FLUTE CLOGGING								✓		
EXCESSIVE VIBRATION				✓	✓	✓	✓			
POOR FINISHING				✓	✓	✓	✓			
POOR TOOL LIFE		✓		✓	✓	✓	✓		✓	✓

BURR TROUBLESHOOTING GUIDE : POSSIBLE SOLUTION

	REDUCE CUTTING PRESURE	ENSURE SHANK/WORK PIECE CLEARANCE	PREPLACE WORN BURR	CHECK BURR LOCATION & REPLACE COLLECT IF	CHECK AND REPLACE GRINDER BEARING IF	CHECK SHANK STRAIGHTNESS -REPLACE IF NECESSARY	IMPROVE WORKPIECE STABILITY	USE A SHALLOW CUT BURR	USE LUBRICANT OR ANTI STICKING Agent	INCREASE RPM	REDUCE RPM	MAKE LIGHTER CUTS	CHANGE TO DIAMOND CUT	FASTER FEED	SLOWER FEED
BROKEN BRAZING JOINT	✓	✓	✓												
POOR BURR CONTROL				✓	✓	✓	✓								
FLUTE CLOGGING								✓	✓	✓	✓	✓			
EXCESSIVE VIBRATION				✓	✓	✓	✓			✓	✓			✓	✓
POOR FINISHING				✓	✓	✓	✓			✓	✓		✓	✓	✓
POOR TOOL LIFE		✓		✓	✓	✓			✓		✓		✓	✓	

SAFTY PRECAUTIONARY MEASURE FOR ROTARY BURR USAGE

- **Choose correct shape and size of Rotary burr with correct teeth profile as per the work piece.**
- **Ensure of Pneumatic grinder used as of recommended RPM.**
- **Check that the collect is the correct size and not worn or eccentric. The cutter must run true. Rotational eccentricity produces a type of hammering that will affect the finish of the work and affect the life of the teeth and the shank.**
- **Make sure of 2/3 of the shank should be grip tightly inside the collect. Avoid excess over hanging in case of Long shank. Ensure min 35-40 mm of the shank should be inside the collect.**
- **Use proper safety gears like eye glasses, mask, ear protection, gloves during the use of Rotary Burr.**
- **Ensure the Job Piece should be held tightly in the Vice or Jig. During the operation. Preferable to place the job piece isolate inside a transparent chamber during the de-burring operation.**
- **Apply constant movement and light pressure when in use. Remove high spots first and then traverse the work. Excessive pressure should not be applied as this can cause brazing failure at the joining of the Carbide Head with the Steel Shank.**
- **Replace worn out rotary burr with the new one, it is unsafe to used Rotary burr after its life**
- **Don't Use Rotary Burr at inappropriate place and hazardous condition.**