



Speeds & Feeds

Product Table: Back Deburring Mill

Characteristics: 6x Reach Multiple

Series: 657xx, 658xx

Product Notes:

When selecting Chip Loads (IPT) by diameter, please be sure to consider the Effective Cutter Diameter (D4 dimension in catalog)
This should not be confused with the Head Diameter.

Chip Loads are given 2 ways:

Deburring refers to removing the burr only

Edge Break refers to a .002" -.005" chamfered feature on the workpiece

Chip Loads (IPT) within table reflect machining on 1 side of existing feature

For machining on 2 sides, reduce Chip Load to 60% of posted values

When machining using Circular Interpolation, the Linear Feed rate (IPM) should be adjusted

For Circular Interpolation around inside of a hole: Adjusted Feed = [(Major Diameter - Effective Cutter Diameter) / Major Diameter] x Linear Feed

For Circular Interpolation around outside of post: Adjusted Feed = [(Major Diameter + Effective Cutter Diameter) / Major Diameter] x Linear Feed

Material	Hardness	SFM	STARTING CHIP LOAD (IPT) By EFFECTIVE CUTTER DIAMETER												
			.015	.031	.047	.062	.078	.093	.125	.187	.250	.312	.375	.500	
Non-Ferrous Alloys	≤ 28 Rc	200 - 1200	Deburr	.00009	.00023	.00034	.00045	.00057	.00082	.00110	.00165	.00220	.00275	.00330	.00440
			Edge Break	.00008	.00019	.00029	.00038	.00048	.00070	.00094	.00140	.00187	.00233	.00281	.00374
Ferrous Alloys	≤ 45 Rc	150 - 250	Deburr	.00008	.00020	.00031	.00041	.00051	.00074	.00099	.00148	.00198	.00247	.00297	.00396
			Edge Break	.00007	.00017	.00026	.00035	.00044	.00063	.00084	.00126	.00168	.00210	.00252	.00337
	46 < 68 Rc	50 - 100	Deburr	.00007	.00018	.00027	.00036	.00046	.00065	.00088	.00132	.00176	.00220	.00264	.00352
			Edge Break	.00006	.00015	.00023	.00031	.00039	.00056	.00075	.00112	.00150	.00187	.00224	.00299

General Notes:

All posted speed and feed parameters are suggested starting values that may be increased given optimal setup conditions. Chip loads reflect uncoated cutters and may be increased 10%-20% if coated.

If you require additional information, Harvey Tool has a team of technical experts available to assist you through even the most challenging applications.

Please contact us at **800-645-5609** or Harveytech@harveyperformance.com.

WARNING: Cutting tools may shatter under improper use. Government regulations require use of safety glasses and other appropriate safety equipment in the vicinity of use.