



DATA FLUTE



HVMag

INTRODUCING THE HVMag
high performance carbide cutting tools.
The "HVMag" can handle the most
powerful, highest RPM machining
centers on the market today.

Introducing the HVMag

The intense competition in the marketplace and the need for ever higher rates of machining productivity has spawned a new generation of high powered, hyper velocity machining centers. These new mega machines demand a tool that can deliver performance to match.

Data Flute has re-engineered our HVM (High Velocity Machining) series of tools to match the capabilities of the most productive machines on the market. We have done this based upon the proper combination of field testing, customer feedback and the most up-to-date analytic software available. Countless rounds of design, analysis, customer discussion, testing and re-testing have gone into this series of tools. The level of effort is consistent with the level of commitment that our valued customers have shown by investing in these next generation machining centers.

This brochure contains our standard offering in the HVMag series. We realize that there are frequently times when a more customized solution will provide better tool life, better productivity and better "fit" with a particular machining task. As always we welcome the opportunity to work with our customers to meet their machining and productivity needs with special or non-standard tooling. We also offer these tools with coolant through holes and other MQL modifications.

Data Flute believes that we have the finest hyper velocity end mill on the market. We hope that you agree.

Cliff Flynn
Director Research & New Product Development



www.dataflute.com 800.447.1476



HVMag Series

At Data Flute we have always believed that the only way to maximize productivity and optimize performance is to properly match the tool to the work material, the operation at hand and the capabilities of the machine. With the introduction of the newest generation of machining centers we particularly have to ensure that we have captured the third leg of the stool; namely the machine capabilities. Our HVMag is a two flute tool, with patented geometries designed specifically for the new generation of hyper velocity machining centers. We have produced an exceptionally well balanced tool with superior chip flow for rotational speeds ranging from 15,000 rpm to 30,000+ rpm and feed rates of up to 1,000 inches per minute.

- Aluminum Alloys
- Reduced Necks for Extended Reach
- Premium Sub Micron Grain Carbide
- Standard with Square Ends or Radii
- Available with Haimer Safe-Lock
- Coolant Through Holes Available Upon Request

HVMag Fractional Offering

Part #	Dia. of Cut	Shk. Dia.	LOC	OAL	LBS*	.000 Rad.**		.030 Rad.		.060 Rad.		.090 Rad.		.120 Rad.	
						EDP #	LIST \$	EDP #	LIST \$	EDP #	LIST \$	EDP #	LIST \$	EDP #	LIST \$
HVMag -20375	3/8	3/8	1/2	3	1-1/4	52747	55.21	52748	57.84	52750	59.64	52751	61.47		
HVMag -L-20375	3/8	3/8	1/2	4	2-1/8	52752	60.12	52754	62.34	52756	64.14	52758	65.97		
HVMag -20500	1/2	1/2	5/8	3	1-1/2	52760	49.08	52762	63.87	52766	66.34	52768	68.60	52774	70.84
HVMag -M-20500	1/2	1/2	5/8	4	2-1/8	52775	69.77	52776	81.77	52777	84.15	52778	86.25	52779	88.32
HVMag -L-20500	1/2	1/2	5/8	6	3-1/4	52780	83.91	52781	96.81	52782	98.55	52783	100.37	52784	102.74
HVMag -20625	5/8	5/8	3/4	4	1-5/8	52785	92.51	52786	105.12	52787	108.34	52788	111.25	52789	112.19
HVMag -M-20625	5/8	5/8	3/4	5	2-1/4	52790	100.65	52791	113.26	52792	116.31	52793	117.28	52794	120.33
HVMag -L-20625	5/8	5/8	3/4	6	3-1/4	52795	139.06	52796	151.67	52797	154.97	52798	156.27	52799	158.74
HVMag -20750	3/4	3/4	1	4	2-1/8	52800	130.26	52801	150.11	52802	153.32	52803	155.57	52804	158.84
HVMag -M-20750	3/4	3/4	1	5	3	52805	158.97	52806	162.84	52807	165.12	52808	168.37	52809	171.19
HVMag -L-20750	3/4	3/4	1	6	3-3/4	52810	182.26	52811	195.34	52812	198.55	52813	201.87	52814	205.19
HVMag -21000	1	1	1-1/4	5	2-3/4	52815	227.48	52816	239.74	52817	241.08	52818	243.66	52819	245.84
HVMag -M-21000	1	1	1-1/4	6	3-1/2	52820	286.01	52821	289.41	52822	291.67	52823	293.48	52824	296.47
HVMag -L-21000	1	1	1-1/4	7	4-1/4	52825	310.58	52826	323.11	52827	325.99	52828	327.84	52829	330.22

*LBS = Length Below Shank

HVMag Metric Offering

Part #	Dia. of Cut	Shk. Dia.	LOC	OAL	LBS*	.000 Rad.**		.25mm Rad.		1mm Rad.		2mm Rad.		4mm Rad.		5mm Rad.	
						EDP #	LIST \$	EDP #	LIST \$	EDP #	LIST \$	EDP #	LIST \$	EDP #	LIST \$	EDP #	LIST \$
HVMag -10MM-	10	10	13	73	38	53578	55.21	53579	57.84	53580	59.64	53581	61.47				
HVMag -L-10MM-	10	10	13	100	52	53582	60.12	53583	62.34	53584	64.14	53585	65.97				
HVMag -12MM-	12	12	16	74	38	53586	49.08	54240	62.07	53587	63.87	53588	66.34	53589	68.60	53590	70.84
HVMag -M-12MM-	12	12	16	100	52	53591	69.77	54241	79.07	53592	81.77	53593	84.15	53594	86.25	53595	88.32
HVMag -L-12MM-	12	12	16	147	80	53596	78.91	54242	95.01	53597	91.81	53598	93.55	53599	95.37	53600	97.74
HVMag -16MM-	16	16	19	100	42	53601	87.51	54243	103.32	53602	100.12	53603	103.34	53604	106.25	53605	107.19
HVMag -M-16MM-	16	16	19	122	55	53606	105.65	54244	111.46	53607	118.26	53608	121.31	53609	122.28	53610	125.33
HVMag -L-16MM-	16	16	19	147	80	53611	134.06	54245	149.87	53612	146.67	53613	149.97	53614	151.27	53615	153.74
HVMag -20MM-	20	20	25	100	52	53616	144.26	54246	148.31	53617	164.11	53618	167.32	53619	169.57	53620	172.84
HVMag -M-20MM-	20	20	25	122	74	53621	178.97	54247	161.04	53622	182.84	53623	185.12	53624	188.37	53625	191.19
HVMag -L-20MM-	20	20	25	147	92	53626	189.11	54248	193.54	53627	202.09	53628	205.30	53629	208.62	53630	211.94
HVMag -25MM-	25	25	30	122	67	53631	227.48	54249	237.94	53632	239.74	53633	241.08	53634	243.66	53635	245.84
HVMag -M-25MM-	25	25	30	147	86	53636	309.51	54250	287.61	53637	312.91	53638	315.17	53639	316.98	53640	319.97
HVMag -L-25MM-	25	25	30	172	105	53641	310.58	54251	321.31	53642	323.11	53643	325.99	53644	327.84	53645	330.22

*LBS = Length Below Shank

** .000 Rad. = Square End



Four Brands. One Mission...



To ensure success in
all of your
aerospace milling
applications.

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800-522-8665
www.brubakertool.com

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www.dataflute.com

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800-682-8832
www.fastcut.com

 **WELDON**
800-622-7742
www.weldontool.com

Contact Us

Data Flute • 9 Betnr Industrial Drive • Pittsfield, MA 01201
Tel: 413.499.3875 • Fax: 413.499.2623 • Toll Free: 800.447.1476 • Toll Free Fax: 800.504.3224
Customer Service: 800.447.1476 • Technical Support: 800.447.1476



www.dataflute.com