

TOOL MONSTER®





THE MONSTER WAY

TOOL MONSTER®

Today's market has placed ever increasing demands on the machine tool industry and manufacturers for increased production efficiency, better quality control and reduced costs.

NEXT GENERATIONS TOOLS

Monster Tool Company has met these challenges by developing a new line of cutting tool products that maximizes the advantages of today's sophisticated CNC Machining Center Technology, as well as all other machining processes. They are custom manufactured to the highest industry standards. Tool Monster and other Monster Tool products are available from stock at your local distributor or catalog company.

Tool Monster products offer the following advantages:

- Extensive product offerings in all industry standard sizes.
- Cutting flutes are precision ground.
- Close tolerances and consistent tool accuracy.
- Lab inspected raw materials.
- Highest quality tools.

SUPERIOR TOOL PERFORMANCE

Tool Monster products offer the advantage of very close tolerance precision ground cutting tools. This precision results in superior tool finishes on all cutting surfaces providing cleaner cuts and better work piece finishes. Monster Tool Company products are manufactured from premium sub-micron C - 2 carbide material with 10% cobalt; these tools are engineered to better serve the needs of modern metalworking in a wide range of applications.

POLICIES AND PROCEDURES

ORDERING INFORMATION

All items in the **TOOL MONSTER®** catalog carry unique part numbers. Using these numbers will keep ordering errors to a minimum and assure that you will receive exactly what you order. Orders will be accepted by phone, fax, and email.

PRODUCT WARRANTY

Monster Tool Company assures that all products sold shall be free from manufacturing and material defects. Monster Tool Company will repair, replace, or issue credit on any product that does not conform with this warranty. Any product that has been altered, used, marked or damaged voids this warranty.

This warranty is in lieu of all other warranties, expressed or implied including any warranty of merchantability or fitness for a particular purpose and is also in lieu of all other obligations or liabilities, including any obligation or liability arising from contract, or otherwise for damages whether direct, indirect or consequential. There are no other warranties except the warranty against defects in material and workmanship set forth above, and we neither assume nor authorize any other person or firm to assume for it any other obligation or liability in connection with our products.

TERMS OF ORDER

All orders are shipped with Net 30 day terms (delinquent at 45 days). No shipment to delinquent accounts. Any account paid after 30 days may become COD on future orders. All orders are subject to credit approval.

DROP SHIPPING

All drop ship orders must be faxed or emailed to Monster Tool Company. Monster Tool Company will not assume responsibility for any incorrect shipping information. Monster Tool Company will assess a \$20 fee to any drop ship order that is either returned or re-routed by the shipping company.

DISTRIBUTOR DISCOUNT

Call for terms and conditions.

CANCELLATIONS

On orders for special or altered standard tooling, a cancellation fee will be charged proportionate to the cost incurred on the order at the time of cancellation. On standard catalog tools, cancellations are accepted at no charge unless the order has been shipped or the ordered amount is unusually large in proportion to Monster Tool Company's historical sales.

RETURNED GOODS POLICY

Tools may not be returned without a return goods authorization (RGA) number. Material returned for credit will be subject to a 20% restocking charge. Credits will not be issued for any items that have been modified, altered, marked, machined or used. Special items are not subject to returns or exchanges.

SAFETY PRECAUTIONS

Carbide cutting tools should be used to perform functions that are compatible with the original tool design. Any carbide cutting tool may chip or shatter when broken. Safety glasses and other appropriate safety equipment should be worn by all people in the vicinity of tool use.

TECHNICAL ASSISTANCE

Any technical assistance or application suggestions made by Monster Tool Company personnel are only to assist the customer and in all cases use of such information is solely the customer's responsibility.

CLAIMS

Claims for shortages, damage, or loss must be made within three days of receipt of tool.

REVISIONS & PRICING

Monster Tool Company reserves the right to revise listings, specifications, and pricing in this catalog without notice. Monster Tool Company is not responsible for any typographical or pricing errors in this catalog. Please verify current pricing at the time of your order.

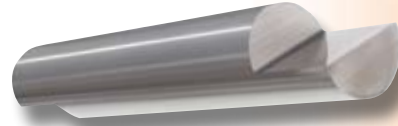
REGULATION SAFETY GLASSES SHOULD ALWAYS BE WORN USING HIGH-SPEED CUTTING EQUIPMENT

Split End Blanks

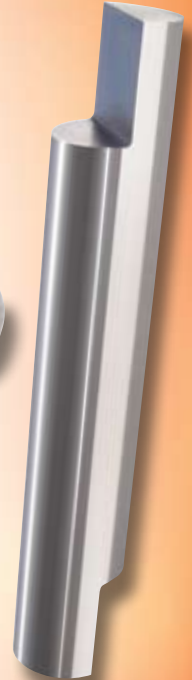
SINGLE SPLIT END

Dia.	O.A.L.	Length of Split	Item #
1/8	1.5	3/8	710-125150
1/8	2	3/8	710-125200
1/8	3	3/8	710-125300
1/8	4	3/8	710-125400
1/8	6	3/8	710-125600
3/16	2	1/2	710-187200
3/16	2-1/2	1/2	710-187250
3/16	3	1/2	710-187300
3/16	4	1/2	710-187400
3/16	6	1/2	710-187600
1/4	2	1/2	710-250200
1/4	2-1/2	1/2	710-250250
1/4	3	1/2	710-250300
1/4	4	1/2	710-250400
1/4	6	1/2	710-250600
5/16	2-1/2	1/2	710-312250
5/16	3	1/2	710-312300
5/16	4	1/2	710-312400
5/16	6	1/2	710-312600
3/8	2-1/2	1/2	710-375250
3/8	3	1/2	710-375300
3/8	4	1/2	710-375400
3/8	6	1/2	710-375600
7/16	2-1/2	5/8	710-437250
7/16	3	5/8	710-437300
7/16	4	5/8	710-437400
7/16	6	5/8	710-437600
1/2	3	5/8	710-500300
1/2	4	5/8	710-500400
1/2	6	5/8	710-500600

- Premium Sub-Micron C-2 Carbide with 10% Cobalt



- Used for special engraving tools & cutting tools



DOUBLE SPLIT END

Dia.	O.A.L.	Length of Split	Item #
1/8	1.5	3/8	720-125150
1/8	2	3/8	720-125200
1/8	3	3/8	720-125300
1/8	4	3/8	720-125400
1/8	6	3/8	720-125600
3/16	2	1/2	720-187200
3/16	2-1/2	1/2	720-187250
3/16	3	1/2	720-187300
3/16	4	1/2	720-187400
3/16	6	1/2	720-187600
1/4	2	1/2	720-250200
1/4	2-1/2	1/2	720-250250
1/4	3	1/2	720-250300
1/4	4	1/2	720-250400
1/4	6	1/2	720-250600
5/16	2-1/2	1/2	720-312250
5/16	3	1/2	720-312300
5/16	4	1/2	720-312400
5/16	6	1/2	720-312600
3/8	2-1/2	1/2	720-375250
3/8	3	1/2	720-375300
3/8	4	1/2	720-375400
3/8	6	1/2	720-375600
7/16	2-1/2	5/8	720-437250
7/16	3	5/8	720-437300
7/16	4	5/8	720-437400
7/16	6	5/8	720-437600
1/2	3	5/8	720-500300
1/2	4	5/8	720-500400
1/2	6	5/8	720-500600





TOOL MONSTER®

Carbide Countersinks

- Manufactured from premium sub-micron carbide with 10% cobalt.
- Size 1/4" diameter and smaller are solid carbide.
- Sizes 3/8" and above are composed of hardened steel shanks and induction brazed heads to insure a solid and safe-secure bond.



SINGLE FLUTE



Body Dia.	O.A.L.	Shank Dia.	60° Item #	82° Item #	90° Item #	100° Item #	120° Item #
1/8	1-1/2	1/8	331-001050	331-001060	331-001070	331-001080	331-001090
3/16	2	3/16	331-002050	331-002060	331-002070	331-002080	331-002090
1/4	2	1/4	331-003050	331-003060	331-003070	331-003080	331-003090
3/8	2	1/4	331-005050	331-005060	331-005070	331-005080	331-005090
1/2	2-1/2	1/4	331-006050	331-006060	331-006070	331-006080	331-006090
5/8	2-1/2	1/4	331-007050	331-007060	331-007070	331-007080	331-007090
3/4	3	3/8	331-008050	331-008060	331-008070	331-008080	331-008090
1	3	1/2	331-010050	331-010060	331-010070	331-010080	331-010090
1-1/4	3-1/2	3/4	331-011050	331-011060	331-011070	331-011080	331-011090
1-1/2	3-1/2	3/4	331-012050	331-012060	331-012070	331-012080	331-012090

THREE FLUTE



Body Dia.	O.A.L.	Shank Dia.	60° Item #	82° Item #	90° Item #	100° Item #	120° Item #
1/8	1-1/2	1/8	333-001050	333-001060	333-001070	333-001080	333-001090
3/16	2	3/16	333-002050	333-002060	333-002070	333-002080	333-002090
1/4	2	1/4	333-003050	333-003060	333-003070	333-003080	333-003090
3/8	2	1/4	333-005050	333-005060	333-005070	333-005080	333-005090
1/2	2-1/2	1/4	333-006050	333-006060	333-006070	333-006080	333-006090
5/8	2-3/4	3/8	333-007050	333-007060	333-007070	333-007080	333-007090
3/4	3	3/8	333-008050	333-008060	333-008070	333-008080	333-008090
1	3	1/2	333-010050	333-010060	333-010070	333-010080	333-010090
1-1/4	3-1/2	3/4	333-011050	333-011060	333-011070	333-011080	333-011090
1-1/2	3-1/2	3/4	333-012050	333-012060	333-012070	333-012080	333-012090

SIX FLUTE



Body Dia.	O.A.L.	Shank Dia.	60° Item #	82° Item #	90° Item #	100° Item #	120° Item #
1/8	1-1/2	1/8	336-001050	336-001060	336-001070	336-001080	336-001090
3/16	2	3/16	336-002050	336-002060	336-002070	336-002080	336-002090
1/4	2	1/4	336-003050	336-003060	336-003070	336-003080	336-003090
5/16	2	1/4	336-004050	336-004060	336-004070	336-004080	336-004090
3/8	2	1/4	336-005050	336-005060	336-005070	336-005080	336-005090
1/2	2-1/2	1/4	336-006050	336-006060	336-006070	336-006080	336-006090
5/8	2-3/4	3/8	336-007050	336-007060	336-007070	336-007080	336-007090
3/4	3	3/8	336-008050	336-008060	336-008070	336-008080	336-008090
7/8	3	1/2	336-009050	336-009060	336-009070	336-009080	336-009090
1	3	1/2	336-010050	336-010060	336-010070	336-010080	336-010090
1-1/4	3-1/2	3/4	336-011050	336-011060	336-011070	336-011080	336-011090
1-1/2	3-1/2	3/4	336-012050	336-012060	336-012070	336-012080	336-012090

High Speed Steel Countersinks

Easily resharpened • Premium HSS material

SINGLE FLUTE



Body Dia.	O.A.L.	Shank Dia.	60° Item #	82° Item #	90° Item #	100° Item #	120° Item #
1/8	1-1/2	1/8	347-001025	347-002025	347-003025	347-004025	347-005025
3/16	1-1/2	3/16	347-001035	347-002035	347-003035	347-004035	347-005035
1/4	2	1/4	347-001045	347-002045	347-003045	347-004045	347-005045
3/8	2	1/4	347-001065	347-002065	347-003065	347-004065	347-005065
1/2	2	1/4	347-001075	347-002075	347-003075	347-004075	347-005075
5/8	2-3/4	1/2	347-001085	347-002085	347-003085	347-004085	347-005085
3/4	2-3/4	1/2	347-001095	347-002095	347-003095	347-004095	347-005095
1	2-3/4	1/2	347-001125	347-002125	347-003125	347-004125	347-005125
1-1/4	3	3/4	347-001135	347-002135	347-003135	347-004135	347-005135
1-1/2	3-1/2	3/4	347-001145	347-002145	347-003145	347-004145	347-005145
2	3-3/4	3/4	347-001155	347-002155	347-003155	347-004155	347-005155
2-1/2	5	3/4	347-001165	347-002165	347-003165	347-004165	347-005165
3	5-1/4	3/4	347-001175	347-002175	347-003175	347-004175	347-005175

SIX FLUTE



Body Dia.	O.A.L.	Shank Dia.	60° Item #	82° Item #	90° Item #	100° Item #	120° Item #
1/8	1-1/2	1/8	349-001025	349-002025	349-003025	349-004025	349-005025
3/16	2	3/16	349-001035	349-002035	349-003035	349-004035	349-005035
1/4	2	1/4	349-001045	349-002045	349-003045	349-004045	349-005045
5/16	2	1/4	349-001055	349-002055	349-003055	349-004055	349-005055
3/8	2-1/2	1/4	349-001065	349-002065	349-003065	349-004065	349-005065
1/2	2-1/2	3/8	349-001075	349-002075	349-003075	349-004075	349-005075
5/8	2-1/2	1/2	349-001085	349-002085	349-003085	349-004085	349-005085
3/4	2-3/4	1/2	349-001095	349-002095	349-003095	349-004095	349-005095
7/8	2-3/4	1/2	349-001115	349-002115	349-003115	349-004115	349-005115
1	2-3/4	1/2	349-001125	349-002125	349-003125	349-004125	349-005125
1-1/4	3	3/4	349-001135	349-002135	349-003135	349-004135	349-005135
1-1/2	3-1/2	3/4	349-001145	349-002145	349-003145	349-004145	349-005145
2	4-1/2	3/4	349-001155	349-002155	349-003155	349-004155	349-005155
2-1/2	4-3/4	3/4	349-001165	349-002165	349-003165	349-004165	349-005165
3	5-1/4	3/4	349-001175	349-002175	349-003175	349-004175	349-005175

Countersinks Sets

All sets contain the 4 most popular countersink sizes: 1/4", 1/2", 3/4" & 1" in a handsome wood case

HSS SETS

Included Angle	Single Flute	Six Flute
	Item #	Item #
60°	401-001096A	349-100060
82°	401-001096B	349-100082
90°	401-001096C	349-100090
100°	401-001096D	349-100100
120°	401-001096E	349-100120



CARBIDE SETS

Included Angle	Single Flute	Three Flute	Six Flute
	Item #	Item #	Item #
60°	331-100060	333-100060	336-100060
82°	331-100082	333-100082	336-100082
90°	331-100090	333-100090	336-100090
100°	331-100100	333-100100	336-100100
120°	331-100120	333-100120	336-100120



Phone: 1-888-CARBIDE

Fax: 1-888-ENDMILL



TOOL MONSTER®



Solid Carbide Boring Bars NC GENERATION • BB SERIES

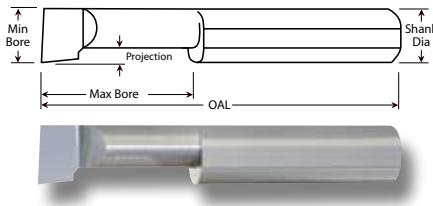
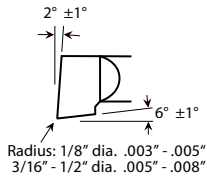


- Premium Sub-Micron C-2 Carbide with 10% Cobalt

- 4RMS Finish

- Mirror polished cutting surface

Shank Size	Min Bore	OAL	Max Bore	Projection	Right Hand	TiN Coated	TiAlN Coated
1/8	.050	1-1/2	.150	.013	601-050150	601-050150A	601-050150B
			.200		601-050200	601-050200A	601-050200B
			.300		601-050300	601-050300A	601-050300B
			.400		601-050400	601-050400A	601-050400B
			.500		601-050500	601-050500A	601-050500B
1/8	.060	1-1/2	.150	.015	601-060150	601-060150A	601-060150B
			.200		601-060200	601-060200A	601-060200B
			.300		601-060300	601-060300A	601-060300B
			.400		601-060400	601-060400A	601-060400B
			.500		601-060500	601-060500A	601-060500B
1/8	.080	1-1/2	.150	.020	601-080150	601-080150A	601-080150B
			.200		601-080200	601-080200A	601-080200B
			.300		601-080300	601-080300A	601-080300B
			.400		601-080400	601-080400A	601-080400B
			.500		601-080500	601-080500A	601-080500B
1/8	.100	1-1/2	.150	.025	601-100150	601-100150A	601-100150B
			.200		601-100200	601-100200A	601-100200B
			.300		601-100300	601-100300A	601-100300B
			.400		601-100400	601-100400A	601-100400B
			.500		601-100500	601-100500A	601-100500B
1/8	.110	1-1/2	.600	.028	601-100600	601-100600A	601-100600B
			.700		601-100700	601-100700A	601-100700B
			.150		601-110150	601-110150A	601-110150B
			.200		601-110200	601-110200A	601-110200B
			.300		601-110300	601-110300A	601-110300B
1/8	.120	2	.400	.030	601-110400	601-110400A	601-110400B
			.500		601-110500	601-110500A	601-110500B
			.600		601-110600	601-110600A	601-110600B
			.700		601-110700	601-110700A	601-110700B
			.800		601-110800	601-110800A	601-110800B
3/16	.120	2	.250	.035	601-120250	601-120250A	601-120250B
			.350		601-120350	601-120350A	601-120350B
			.500		601-120500	601-120500A	601-120500B
			.600		601-120600	601-120600A	601-120600B
			.700		601-120700	601-120700A	601-120700B
3/16	.140	2	.800	.040	601-120800	601-120800A	601-120800B
			.250		601-140250	601-140250A	601-140250B
			.400		601-140400	601-140400A	601-140400B
			.500		601-140500	601-140500A	601-140500B
			.600		601-140600	601-140600A	601-140600B
3/16	.160	2	.700	.045	601-140700	601-140700A	601-140700B
			.750		601-140750	601-140750A	601-140750B
			.800		601-140800	601-140800A	601-140800B
			.250		601-160250	601-160250A	601-160250B
			.400		601-160400	601-160400A	601-160400B
1/4	.180	2-1/2	.500	.045	601-160500	601-160500A	601-160500B
			.600		601-160600	601-160600A	601-160600B
			.750		601-160750	601-160750A	601-160750B
			.900		601-160900	601-160900A	601-160900B
			1.000		601-1601000	601-1601000A	601-1601000B
1/4	.180	2-1/2	.350	.045	601-180350	601-180350A	601-180350B
			.500		601-180500	601-180500A	601-180500B
			.600		601-180600	601-180600A	601-180600B
			.750		601-180750	601-180750A	601-180750B
			.900		601-180900	601-180900A	601-180900B
1/4	.180	2-1/2	1.000	.045	601-1801000	601-1801000A	601-1801000B
			1.100		601-1801100	601-1801100A	601-1801100B
			1.250		601-1801250	601-1801250A	601-1801250B
			1.500		601-1801500	601-1801500A	601-1801500B



TOOL MONSTER®

Solid Carbide Boring Bars

• Lockdown flat automatically locates tool on center

Shank Size	Min Bore	OAL	Max Bore	Projection	Right Hand	TIN Coated	TiAIN Coated
1/4	.200	2-1/2	.400	.050	601-200400	601-200400A	601-200400B
			.500		601-200500	601-200500A	601-200500B
			.600		601-200600	601-200600A	601-200600B
			.700		601-200700	601-200700A	601-200700B
			.800		601-200800	601-200800A	601-200800B
			.900		601-200900	601-200900A	601-200900B
			1.000		601-2001000	601-2001000A	601-2001000B
			1.100		601-2001100	601-2001100A	601-2001100B
			1.200		601-2001200	601-2001200A	601-2001200B
			1.300		601-2001300	601-2001300A	601-2001300B
			.400		601-230400	601-230400A	601-230400B
			.500		601-230500	601-230500A	601-230500B
			.600		601-230600	601-230600A	601-230600B
.700	601-230700	601-230700A	601-230700B				
.800	601-230800	601-230800A	601-230800B				
.900	601-230900	601-230900A	601-230900B				
1.000	601-2301000	601-2301000A	601-2301000B				
1.100	601-2301100	601-2301100A	601-2301100B				
1.150	601-2301150	601-2301150A	601-2301150B				
1.200	601-2301200	601-2301200A	601-2301200B				
1.250	601-2301250	601-2301250A	601-2301250B				
1.400	601-2301400	601-2301400A	601-2301400B				
1.500	601-2301500	601-2301500A	601-2301500B				
1.600	601-2301600	601-2301600A	601-2301600B				
5/16	.230	2-1/2	.500	.058	601-290500	601-290500A	601-290500B
			.600		601-290600	601-290600A	601-290600B
			.750		601-290750	601-290750A	601-290750B
			.900		601-290900	601-290900A	601-290900B
			1.000		601-2901000	601-2901000A	601-2901000B
			1.100		601-2901100	601-2901100A	601-2901100B
			1.250		601-2901250	601-2901250A	601-2901250B
			1.350		601-2901350	601-2901350A	601-2901350B
			1.500		601-2901500	601-2901500A	601-2901500B
			1.600		601-2901600	601-2901600A	601-2901600B
			1.750		601-2901750	601-2901750A	601-2901750B
			.500		601-320500	601-320500A	601-320500B
			.600		601-320600	601-320600A	601-320600B
.750	601-320750	601-320750A	601-320750B				
.900	601-320900	601-320900A	601-320900B				
1.000	601-3201000	601-3201000A	601-3201000B				
1.100	601-3201100	601-3201100A	601-3201100B				
1.250	601-3201250	601-3201250A	601-3201250B				
1.500	601-3201500	601-3201500A	601-3201500B				
1.600	601-3201600	601-3201600A	601-3201600B				
1.800	601-3201800	601-3201800A	601-3201800B				
3/8	.320	2-1/2	2.000	.080	601-3202000	601-3202000A	601-3202000B
			2.500		601-3202500	601-3202500A	601-3202500B
			3.000		601-3203000	601-3203000A	601-3203000B
			.500		601-360500	601-360500A	601-360500B
			.600		601-360600	601-360600A	601-360600B
			.750		601-360750	601-360750A	601-360750B
			.900		601-360900	601-360900A	601-360900B
			1.000		601-3601000	601-3601000A	601-3601000B
			1.150		601-3601150	601-3601150A	601-3601150B
			1.250		601-3601250	601-3601250A	601-3601250B
			1.500		601-3601500	601-3601500A	601-3601500B
			1.600		601-3601600	601-3601600A	601-3601600B
			1.800		601-3601800	601-3601800A	601-3601800B
3/8	.360	2-1/2	2.000	.090	601-3602000	601-3602000A	601-3602000B
			2.500		601-3602500	601-3602500A	601-3602500B
			3.000		601-3603000	601-3603000A	601-3603000B
			.750		601-490750	601-490750A	601-490750B
			1.000		601-4901000	601-4901000A	601-4901000B
			1.250		601-4901250	601-4901250A	601-4901250B
			1.500		601-4901500	601-4901500A	601-4901500B
			2.000		601-4902000	601-4902000A	601-4902000B
			2.500		601-4902500	601-4902500A	601-4902500B
			2.600		601-4902600	601-4902600A	601-4902600B
			2.750		601-4902750	601-4902750A	601-4902750B
			3.000		601-4903000	601-4903000A	601-4903000B
			3.500		601-4903500	601-4903500A	601-4903500B
4.000	601-4904000	601-4904000A	601-4904000B				
4.500	601-4904500	601-4904500A	601-4904500B				
1/2	.490	3	.750	.123	601-490750	601-490750A	601-490750B
			1.000		601-4901000	601-4901000A	601-4901000B
			1.250		601-4901250	601-4901250A	601-4901250B
			1.500		601-4901500	601-4901500A	601-4901500B
			2.000		601-4902000	601-4902000A	601-4902000B
1/2	.490	4	2.500	.123	601-4902500	601-4902500A	601-4902500B
			2.600		601-4902600	601-4902600A	601-4902600B
			2.750		601-4902750	601-4902750A	601-4902750B
			3.000		601-4903000	601-4903000A	601-4903000B
			3.500		601-4903500	601-4903500A	601-4903500B
1/2	.490	6	4.000	.123	601-4904000	601-4904000A	601-4904000B
			4.500		601-4904500	601-4904500A	601-4904500B

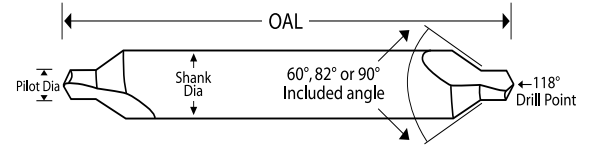
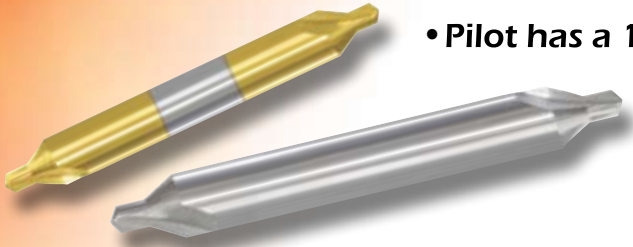


TOOL MONSTER®

Center Drills

- Premium Sub-Micron C-2 Carbide with 10% Cobalt

- Pilot has a 118° Drill Point



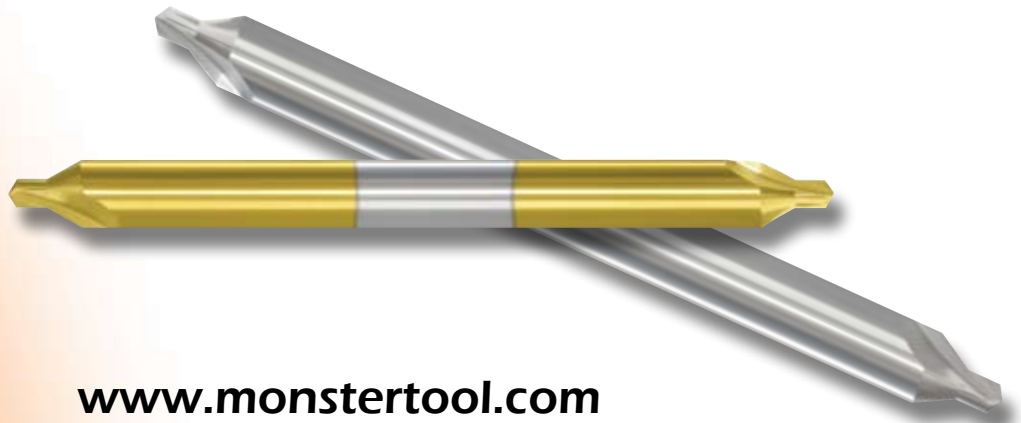
Tolerances (Size)	
Pilot Dia.	Shank Dia.
+0.0030 / -0.0000	+0.0000 / -0.005

REGULAR LENGTH

Size	Pilot Dia.	Shank Dia.	O.A.L.	60° Item #	60° TiN #	82° Item #	90° Item #
00	0.0265	1/8	1-1/2	300-001001	300-001501	300-002001	300-003001
0	1/32	1/8	1-1/2	300-001002	300-001502	300-002002	300-003002
1	3/64	1/8	1-1/2	300-001003	300-001503	300-002003	300-003003
2	5/64	3/16	1-7/8	300-001004	300-001504	300-002004	300-003004
3	7/64	1/4	2	300-001005	300-001505	300-002005	300-003005
4	1/8	5/16	2-1/8	300-001006	300-001506	300-002006	300-003006
5	3/16	7/16	2-3/4	300-001007	300-001507	300-002007	300-003007
6	7/32	1/2	3	300-001008	300-001508	300-002008	300-003008
7	1/4	5/8	3-1/4	300-001009	300-001509	300-002009	300-003009
8	5/16	3/4	3-1/2	300-001010	300-001510	300-002010	300-003010

LONG LENGTH

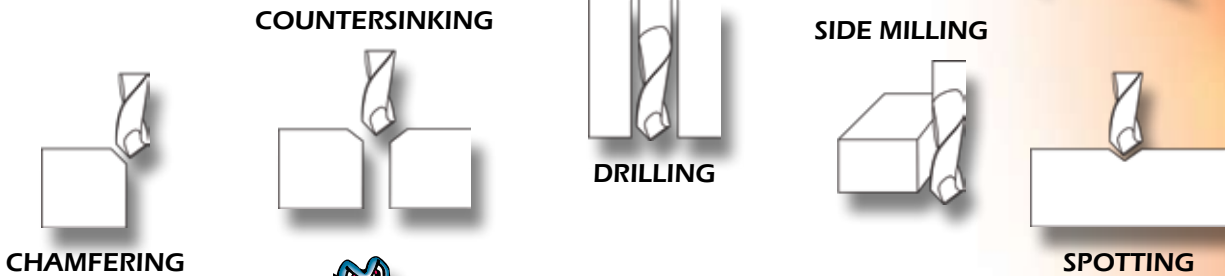
Size	Pilot Dia.	Shank Dia.	O.A.L.	60° Item #	60° TiN #	82° Item #	90° Item #
1	3/64	1/8	4	300-005001	300-005501	300-006001	300-007001
2	5/64	3/16	4	300-005002	300-005502	300-006002	300-007002
3	7/64	1/4	4	300-005003	300-005503	300-006003	300-007003
4	1/8	5/16	4	300-005004	300-005504	300-006004	300-007004
5	3/16	7/16	6	300-005005	300-005505	300-006005	300-007005
6	7/32	1/2	6	300-005006	300-005506	300-006006	300-007006
7	1/4	5/8	6	300-005007	300-005507	300-006007	300-007007
8	5/16	3/4	6	300-005008	300-005508	300-006008	300-007008



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Solid Carbide Drill Mills



Monster Drill Mills deliver maximum performance for a variety of operations.

2 FLUTE

SIZE	L.O.C.	SHANK DIA.	O.A.L	60° PART #	90° PART #	60° TiAIN PART #	90° TiAIN PART #
1/8	1/2	1/8	1-1/2	208-621250	208-000125	208-621253	208-010125
3/16	5/8	3/16	2	208-621870	208-000187	208-621873	208-010187
1/4	3/4	1/4	2-1/2	208-622500	208-000250	208-622503	208-010250
5/16	13/16	5/16	2-1/2	208-623120	208-000312	208-623123	208-010312
3/8	1	3/8	2-1/2	208-623750	208-000375	208-623753	208-010375
7/16	1	7/16	2-3/4	208-624370	208-000437	208-624373	208-010437
1/2	1	1/2	3	208-625000	208-000500	208-625003	208-010500
5/8	1-1/4	5/8	3-1/2	208-626250	208-000625	208-626253	208-010625
3/4	1-1/2	3/4	4	208-627500	208-000750	208-627503	208-010750

4 FLUTE

SIZE	L.O.C.	SHANK DIA.	O.A.L	60° PART #	90° PART #	60° TiAIN PART #	90° TiAIN PART #
1/8	1/2	1/8	1-1/2	208-641250	208-400125	208-641253	208-420125
3/16	5/8	3/16	2	208-641870	208-400187	208-641873	208-420187
1/4	3/4	1/4	2-1/2	208-642500	208-400250	208-642503	208-420250
5/16	13/16	5/16	2-1/2	208-643120	208-400312	208-643123	208-420312
3/8	1	3/8	2-1/2	208-643750	208-400375	208-643753	208-420375
7/16	1	7/16	2-3/4	208-644370	208-400437	208-644373	208-420437
1/2	1	1/2	3	208-645000	208-400500	208-645003	208-420500
5/8	1-1/4	5/8	3-1/2	208-646250	208-400625	208-646253	208-420625
3/4	1-1/2	3/4	4	208-647500	208-400750	208-647503	208-420750



Feeds and Speeds BB Style Boring Bars

NOTE: All recommendations are considered as starting parameters only

Consider the following variables when trying to optimize performance:

1. Machine rigidity
2. Concentricity at spindle
3. Work piece rigidity
4. Use minimum tool O.A.L. for application
5. Match recommended feeds and speeds
6. Resharpen or replace tool before catastrophic failure

MATERIAL	SPEED (feet/minute)	FEED (inch/revolution)
Aluminum	2000	0.001 - 0.005
Brass, Bronze & Copper	750 - 900	0.001 - 0.005
Cast Iron, Malleable	350 - 450	0.001 - 0.005
Cast Iron, Medium	260 - 400	0.001 - 0.005
Cast Iron, Soft	450 - 500	0.001 - 0.005
High Temperature Alloys	160 - 200	0.001 - 0.005
Inconel	80	0.001 - 0.005
Magnesium	2000	0.001 - 0.005
Mold Steel P-20	375 - 475	0.001 - 0.005
Molybdenum	210 - 250	0.001 - 0.005
Monel	200	0.001 - 0.005
Nickel Alloys	300	0.001 - 0.005
Stainless Steels 15-5 PH	250	0.001 - 0.005
Stainless Steels 17-4 PH	275	0.001 - 0.005
Stainless Steels 304	250	0.001 - 0.005
Stainless Steels 316/316L	200	0.001 - 0.005
Steels, High Tensile (30-40 Rc)	250 - 300	0.001 - 0.005
Steels, High Tensile (45+ Rc)	130	0.001 - 0.005
Steels, Low Carbon	375	0.001 - 0.005
Steels, Medium Carbon	325 - 425	0.001 - 0.005
Titanium	210 - 250	0.001 - 0.005
Tool Steel D-2	160 - 200	0.001 - 0.005



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