

YU-HPC17



Registered
ISO 9001:2008 / ISO 14001:2004

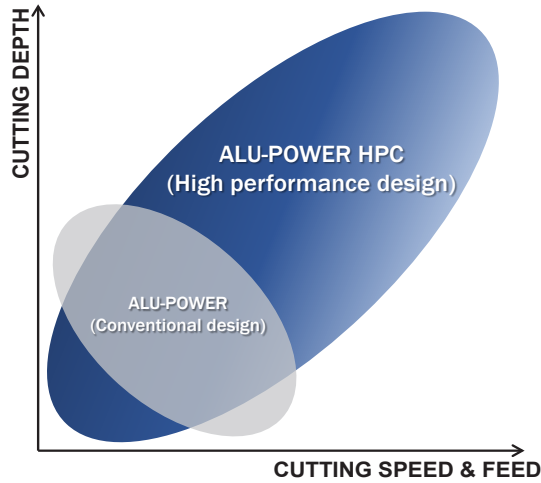


ALU-POWER HPC



1. PRODUCTS OVERVIEW

CUTTING SPEED & FEED BY CUTTING DEPTH, COMPARED TO CONVENTIONAL ALU-POWER



Work Materials : Aluminum, Non-Ferrous & Non-Metallic Materials

2. FEATURES

MAIN FEATURES OF ALU-POWER HPC

Cylindrical Land
 -Increased performance over a variety of cutting conditions
 -Also helps in the reduction of vibration and chatter

Specialized Design of Corner Gash
 - Unique flute design and superior corner protection adds both tool life and risk mitigation in High Feed applications
 - Polished flutes for excellent chip flow and removal

Available in a Wide Variety of Sizes and Corner Radii





Ideal Symmetrical Shape
 - 3 Flute Design "To The Center" - all 3 flutes come to center
 - Designed with High Spindle Speeds in mind
 - Highly effective in plunging and Helical Ramping

Long Reach Neck Tools Available
 - Neck tools for deep pocket and long reach processing
 - Short flute length for higher rigidity

Tough Micro-Grain Carbide Provides Edge Strength and Unsurpassed Tool Life

Engineered Flute Design
 - Effective chip evacuation at high feed rates with lower cutting forces than competitive products

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JAG95 SERIES

CARBIDE, 3 FLUTE

- ▶ Special geometries applied to control weight balance for quality performance on higher RPM making an excellent surface finish through stable machining
- ▶ High corner protection made from special shape and rake angle inside the radius
- ▶ Excellent performance with high feed, high RPM, high chip removal (heavy cutting)



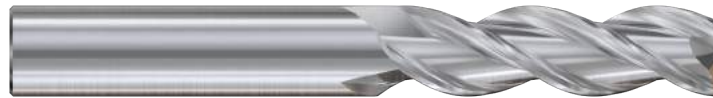
Unit : inch

EDP No.		Mill Diameter	Shank Diameter	Length of Cut	Overall Length
Non-Coated	Coated				
E5G95008	JAG95008	1/8	1/8	1/4	1-1/2
E5G95901	JAG95901	1/8	1/8	3/8	1-1/2
E5G95012	JAG95012	3/16	3/16	5/16	2
E5G95902	JAG95902	3/16	3/16	9/16	2
E5G95016	JAG95016	1/4	1/4	3/8	2
E5G95903	JAG95903	1/4	1/4	5/8	2-1/2
E5G95904	JAG95904	1/4	1/4	1-1/4	3-1/4
E5G95020	JAG95020	5/16	5/16	7/16	2
E5G95905	JAG95905	5/16	5/16	5/8	2-1/2
E5G95906	JAG95906	5/16	5/16	1-1/4	3-1/2
E5G95024	JAG95024	3/8	3/8	1/2	2
E5G95907	JAG95907	3/8	3/8	1	2-1/2
E5G95908	JAG95908	3/8	3/8	1-1/2	3-1/2
E5G95909	JAG95909	3/8	3/8	2	4
E5G95028	JAG95028	7/16	7/16	9/16	2-1/2
E5G95910	JAG95910	7/16	7/16	1-1/4	2-3/4
E5G95911	JAG95911	7/16	7/16	2	4
E5G95032	JAG95032	1/2	1/2	5/8	2-1/2
E5G95912	JAG95912	1/2	1/2	1-1/4	3
E5G95913	JAG95913	1/2	1/2	1-5/8	4
E5G95914	JAG95914	1/2	1/2	2	4
E5G95915	JAG95915	1/2	1/2	2-1/2	5
E5G95916	JAG95916	1/2	1/2	3	5
E5G95040	JAG95040	5/8	5/8	3/4	3
E5G95917	JAG95917	5/8	5/8	1-5/8	3-1/2
E5G95918	JAG95918	5/8	5/8	2-1/2	5
E5G95919	JAG95919	5/8	5/8	3	5-1/4
E5G95048	JAG95048	3/4	3/4	1	3
E5G95920	JAG95920	3/4	3/4	1-5/8	4
E5G95921	JAG95921	3/4	3/4	2-1/4	5

JAG95 SERIES

CARBIDE, 3 FLUTE

- ▶ Special geometries applied to control weight balance for quality performance on higher RPM making an excellent surface finish through stable machining
- ▶ High corner protection made from special shape and rake angle inside the radius
- ▶ Excellent performance with high feed, high RPM, high chip removal (heavy cutting)



Unit : inch

EDP No.		Mill Diameter	Shank Diameter	Length of Cut	Overall Length
Non-Coated	Coated				
E5G95922	JAG95922	3/4	3/4	3-1/4	6
E5G95923	JAG95923	3/4	3/4	4	6-1/4
E5G95064	JAG95064	1	1	1-1/4	3
E5G95924	JAG95924	1	1	2	5
E5G95925	JAG95925	1	1	3-1/4	6
E5G95926	JAG95926	1	1	4	7

JAG96 SERIES

CARBIDE, 3 FLUTE WITH NECK

- ▶ Special geometries applied to control weight balance for quality performance on higher RPM making an excellent surface finish through stable machining
- ▶ High corner protection made from special shape and rake angle inside the radius
- ▶ Excellent performance with high feed, high RPM, high chip removal (heavy cutting)



Unit : inch

EDP No.		Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Neck Diameter	Overall Length
Non-Coated	Coated						
E5G96016	JAG96016	1/4	1/4	3/8	3/4	.220	2-1/2
E5G96901	JAG96901	1/4	1/4	3/8	1-1/8	.220	3
E5G96024	JAG96024	3/8	3/8	1/2	1-1/8	.345	3
E5G96902	JAG96902	3/8	3/8	1/2	2-1/8	.345	4
E5G96032	JAG96032	1/2	1/2	5/8	1-3/8	.470	3
E5G96903	JAG96903	1/2	1/2	5/8	2-1/4	.470	4
E5G96904	JAG96904	1/2	1/2	5/8	3-3/8	.470	5
E5G96905	JAG96905	1/2	1/2	5/8	4-1/4	.470	6
E5G96040	JAG96040	5/8	5/8	3/4	1-5/8	.585	4
E5G96906	JAG96906	5/8	5/8	3/4	3-3/8	.585	6
E5G96048	JAG96048	3/4	3/4	1	2	.710	4
E5G96907	JAG96907	3/4	3/4	1	3-3/8	.710	6
E5G96908	JAG96908	3/4	3/4	1	5	.710	7
E5G96064	JAG96064	1	1	1-1/4	2-5/8	.960	5
E5G96909	JAG96909	1	1	1-1/4	3-3/8	.960	6
E5G96910	JAG96910	1	1	1-1/4	4-3/8	.960	7
E5G96911	JAG96911	1	1	1-1/4	6	.960	9

JAG97 SERIES

CARBIDE, 3 FLUTE CORNER RADIUS

- ▶ Special geometries applied to control weight balance for quality performance on higher RPM making an excellent surface finish through stable machining
- ▶ High corner protection made from special shape and rake angle inside the radius
- ▶ Excellent performance with high feed, high RPM, high chip removal(heavy cutting)



Unit : inch

EDP No.		Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
Non-Coated	Coated					
E5G97008	JAG97008	R.010	1/8	1/8	1/4	1-1/2
E5G97901	JAG97901	R.030	1/8	1/8	1/4	1-1/2
E5G97902	JAG97902	R.010	1/8	1/8	3/8	1-1/2
E5G97903	JAG97903	R.030	1/8	1/8	3/8	1-1/2
E5G97012	JAG97012	R.010	3/16	3/16	5/16	2
E5G97904	JAG97904	R.030	3/16	3/16	5/16	2
E5G97905	JAG97905	R.010	3/16	3/16	9/16	2
E5G97906	JAG97906	R.030	3/16	3/16	9/16	2
E5G97016	JAG97016	R.010	1/4	1/4	3/8	2
E5G97907	JAG97907	R.030	1/4	1/4	3/8	2
E5G97908	JAG97908	R.060	1/4	1/4	3/8	2
E5G97909	JAG97909	R.010	1/4	1/4	5/8	2-1/2
E5G97910	JAG97910	R.030	1/4	1/4	5/8	2-1/2
E5G97911	JAG97911	R.060	1/4	1/4	5/8	2-1/2
E5G97912	JAG97912	R.010	1/4	1/4	1-1/4	3-1/4
E5G97913	JAG97913	R.030	1/4	1/4	1-1/4	3-1/4
E5G97914	JAG97914	R.060	1/4	1/4	1-1/4	3-1/4
E5G97020	JAG97020	R.010	5/16	5/16	7/16	2
E5G97915	JAG97915	R.030	5/16	5/16	7/16	2
E5G97916	JAG97916	R.060	5/16	5/16	7/16	2
E5G97917	JAG97917	R.090	5/16	5/16	7/16	2
E5G97918	JAG97918	R.010	5/16	5/16	5/8	2-1/2
E5G97919	JAG97919	R.030	5/16	5/16	5/8	2-1/2
E5G97920	JAG97920	R.060	5/16	5/16	5/8	2-1/2
E5G97921	JAG97921	R.090	5/16	5/16	5/8	2-1/2
E5G97922	JAG97922	R.010	5/16	5/16	1-1/4	3-1/2
E5G97923	JAG97923	R.030	5/16	5/16	1-1/4	3-1/2
E5G97924	JAG97924	R.060	5/16	5/16	1-1/4	3-1/2
E5G97925	JAG97925	R.090	5/16	5/16	1-1/4	3-1/2
E5G97024	JAG97024	R.010	3/8	3/8	1/2	2
E5G97926	JAG97926	R.030	3/8	3/8	1/2	2
E5G97927	JAG97927	R.060	3/8	3/8	1/2	2
E5G97928	JAG97928	R.090	3/8	3/8	1/2	2

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- ▶ Excellent performance with high feed, high RPM, high chip removal (heavy cutting)



Unit : inch

EDP No.		Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
Non-Coated	Coated					
E5G97929	JAG97929	R.120	3/8	3/8	1/2	2
E5G97930	JAG97930	R.010	3/8	3/8	1	2-1/2
E5G97931	JAG97931	R.030	3/8	3/8	1	2-1/2
E5G97932	JAG97932	R.060	3/8	3/8	1	2-1/2
E5G97933	JAG97933	R.090	3/8	3/8	1	2-1/2
E5G97934	JAG97934	R.120	3/8	3/8	1	2-1/2
E5G97935	JAG97935	R.010	3/8	3/8	1-1/2	3-1/2
E5G97936	JAG97936	R.030	3/8	3/8	1-1/2	3-1/2
E5G97937	JAG97937	R.060	3/8	3/8	1-1/2	3-1/2
E5G97938	JAG97938	R.090	3/8	3/8	1-1/2	3-1/2
E5G97939	JAG97939	R.120	3/8	3/8	1-1/2	3-1/2
E5G97940	JAG97940	R.010	3/8	3/8	2	4
E5G97941	JAG97941	R.030	3/8	3/8	2	4
E5G97942	JAG97942	R.060	3/8	3/8	2	4
E5G97943	JAG97943	R.090	3/8	3/8	2	4
E5G97944	JAG97944	R.120	3/8	3/8	2	4
E5G97028	JAG97028	R.010	7/16	7/16	9/16	2-1/2
E5G97945	JAG97945	R.030	7/16	7/16	9/16	2-1/2
E5G97946	JAG97946	R.060	7/16	7/16	9/16	2-1/2
E5G97947	JAG97947	R.090	7/16	7/16	9/16	2-1/2
E5G97948	JAG97948	R.120	7/16	7/16	9/16	2-1/2
E5G97949	JAG97949	R.010	7/16	7/16	1-1/4	2-3/4
E5G97950	JAG97950	R.030	7/16	7/16	1-1/4	2-3/4
E5G97951	JAG97951	R.060	7/16	7/16	1-1/4	2-3/4
E5G97952	JAG97952	R.090	7/16	7/16	1-1/4	2-3/4
E5G97953	JAG97953	R.120	7/16	7/16	1-1/4	2-3/4
E5G97954	JAG97954	R.010	7/16	7/16	2	4
E5G97955	JAG97955	R.030	7/16	7/16	2	4
E5G97956	JAG97956	R.060	7/16	7/16	2	4
E5G97957	JAG97957	R.090	7/16	7/16	2	4
E5G97958	JAG97958	R.120	7/16	7/16	2	4
E5G97032	JAG97032	R.010	1/2	1/2	5/8	2-1/2
E5G97959	JAG97959	R.030	1/2	1/2	5/8	2-1/2
E5G97960	JAG97960	R.060	1/2	1/2	5/8	2-1/2

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Unit : inch

EDP No.		Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
Non-Coated	Coated					
E5G97961	JAG97961	R.090	1/2	1/2	5/8	2-1/2
E5G97962	JAG97962	R.120	1/2	1/2	5/8	2-1/2
E5G97963	JAG97963	R.190	1/2	1/2	5/8	2-1/2
E5G97964	JAG97964	R.010	1/2	1/2	1-1/4	3
E5G97965	JAG97965	R.030	1/2	1/2	1-1/4	3
E5G97966	JAG97966	R.060	1/2	1/2	1-1/4	3
E5G97967	JAG97967	R.090	1/2	1/2	1-1/4	3
E5G97968	JAG97968	R.120	1/2	1/2	1-1/4	3
E5G97969	JAG97969	R.190	1/2	1/2	1-1/4	3
E5G97970	JAG97970	R.010	1/2	1/2	1-5/8	4
E5G97971	JAG97971	R.030	1/2	1/2	1-5/8	4
E5G97972	JAG97972	R.060	1/2	1/2	1-5/8	4
E5G97973	JAG97973	R.090	1/2	1/2	1-5/8	4
E5G97974	JAG97974	R.120	1/2	1/2	1-5/8	4
E5G97975	JAG97975	R.190	1/2	1/2	1-5/8	4
E5G97976	JAG97976	R.010	1/2	1/2	2	4
E5G97977	JAG97977	R.030	1/2	1/2	2	4
E5G97978	JAG97978	R.060	1/2	1/2	2	4
E5G97979	JAG97979	R.090	1/2	1/2	2	4
E5G97980	JAG97980	R.120	1/2	1/2	2	4
E5G97981	JAG97981	R.190	1/2	1/2	2	4
E5G97982	JAG97982	R.010	1/2	1/2	2-1/2	5
E5G97983	JAG97983	R.030	1/2	1/2	2-1/2	5
E5G97984	JAG97984	R.060	1/2	1/2	2-1/2	5
E5G97985	JAG97985	R.090	1/2	1/2	2-1/2	5
E5G97986	JAG97986	R.120	1/2	1/2	2-1/2	5
E5G97987	JAG97987	R.190	1/2	1/2	2-1/2	5
E5G97988	JAG97988	R.010	1/2	1/2	3	5
E5G97989	JAG97989	R.030	1/2	1/2	3	5
E5G97990	JAG97990	R.060	1/2	1/2	3	5
E5G97991	JAG97991	R.090	1/2	1/2	3	5
E5G97992	JAG97992	R.120	1/2	1/2	3	5
E5G97993	JAG97993	R.190	1/2	1/2	3	5
E5G97040	JAG97040	R.010	5/8	5/8	3/4	3

JAG97 SERIES

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Unit : inch

EDP No.		Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
Non-Coated	Coated					
E5G97994	JAG97994	R.030	5/8	5/8	3/4	3
E5G97995	JAG97995	R.060	5/8	5/8	3/4	3
E5G97996	JAG97996	R.090	5/8	5/8	3/4	3
E5G97997	JAG97997	R.120	5/8	5/8	3/4	3
E5G97998	JAG97998	R.190	5/8	5/8	3/4	3
E5G97999	JAG97999	R.010	5/8	5/8	1-5/8	3-1/2
E5G97801	JAG97801	R.030	5/8	5/8	1-5/8	3-1/2
E5G97802	JAG97802	R.060	5/8	5/8	1-5/8	3-1/2
E5G97803	JAG97803	R.090	5/8	5/8	1-5/8	3-1/2
E5G97804	JAG97804	R.120	5/8	5/8	1-5/8	3-1/2
E5G97805	JAG97805	R.190	5/8	5/8	1-5/8	3-1/2
E5G97806	JAG97806	R.010	5/8	5/8	2-1/2	5
E5G97807	JAG97807	R.030	5/8	5/8	2-1/2	5
E5G97808	JAG97808	R.060	5/8	5/8	2-1/2	5
E5G97809	JAG97809	R.090	5/8	5/8	2-1/2	5
E5G97810	JAG97810	R.120	5/8	5/8	2-1/2	5
E5G97811	JAG97811	R.190	5/8	5/8	2-1/2	5
E5G97812	JAG97812	R.010	5/8	5/8	3	5-1/4
E5G97813	JAG97813	R.030	5/8	5/8	3	5-1/4
E5G97814	JAG97814	R.060	5/8	5/8	3	5-1/4
E5G97815	JAG97815	R.090	5/8	5/8	3	5-1/4
E5G97816	JAG97816	R.120	5/8	5/8	3	5-1/4
E5G97817	JAG97817	R.190	5/8	5/8	3	5-1/4
E5G97048	JAG97048	R.010	3/4	3/4	1	3
E5G97818	JAG97818	R.030	3/4	3/4	1	3
E5G97819	JAG97819	R.060	3/4	3/4	1	3
E5G97820	JAG97820	R.090	3/4	3/4	1	3
E5G97821	JAG97821	R.120	3/4	3/4	1	3
E5G97822	JAG97822	R.190	3/4	3/4	1	3
E5G97823	JAG97823	R.250	3/4	3/4	1	3
E5G97824	JAG97824	R.010	3/4	3/4	1-5/8	4
E5G97825	JAG97825	R.030	3/4	3/4	1-5/8	4
E5G97826	JAG97826	R.060	3/4	3/4	1-5/8	4
E5G97827	JAG97827	R.090	3/4	3/4	1-5/8	4

JAG97 SERIES

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Unit : inch

EDP No.		Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
Non-Coated	Coated					
E5G97828	JAG97828	R.120	3/4	3/4	1-5/8	4
E5G97829	JAG97829	R.190	3/4	3/4	1-5/8	4
E5G97830	JAG97830	R.250	3/4	3/4	1-5/8	4
E5G97831	JAG97831	R.010	3/4	3/4	2-1/4	5
E5G97832	JAG97832	R.030	3/4	3/4	2-1/4	5
E5G97833	JAG97833	R.060	3/4	3/4	2-1/4	5
E5G97834	JAG97834	R.090	3/4	3/4	2-1/4	5
E5G97835	JAG97835	R.120	3/4	3/4	2-1/4	5
E5G97836	JAG97836	R.190	3/4	3/4	2-1/4	5
E5G97837	JAG97837	R.250	3/4	3/4	2-1/4	5
E5G97838	JAG97838	R.010	3/4	3/4	3-1/4	6
E5G97839	JAG97839	R.030	3/4	3/4	3-1/4	6
E5G97840	JAG97840	R.060	3/4	3/4	3-1/4	6
E5G97841	JAG97841	R.090	3/4	3/4	3-1/4	6
E5G97842	JAG97842	R.120	3/4	3/4	3-1/4	6
E5G97843	JAG97843	R.190	3/4	3/4	3-1/4	6
E5G97844	JAG97844	R.250	3/4	3/4	3-1/4	6
E5G97845	JAG97845	R.010	3/4	3/4	4	6-1/4
E5G97846	JAG97846	R.030	3/4	3/4	4	6-1/4
E5G97847	JAG97847	R.060	3/4	3/4	4	6-1/4
E5G97848	JAG97848	R.090	3/4	3/4	4	6-1/4
E5G97849	JAG97849	R.120	3/4	3/4	4	6-1/4
E5G97850	JAG97850	R.190	3/4	3/4	4	6-1/4
E5G97851	JAG97851	R.250	3/4	3/4	4	6-1/4
E5G97064	JAG97064	R.010	1	1	1-1/4	3
E5G97852	JAG97852	R.030	1	1	1-1/4	3
E5G97853	JAG97853	R.060	1	1	1-1/4	3
E5G97854	JAG97854	R.090	1	1	1-1/4	3
E5G97855	JAG97855	R.120	1	1	1-1/4	3
E5G97856	JAG97856	R.190	1	1	1-1/4	3
E5G97857	JAG97857	R.250	1	1	1-1/4	3
E5G97858	JAG97858	R.010	1	1	2	5
E5G97859	JAG97859	R.030	1	1	2	5
E5G97860	JAG97860	R.060	1	1	2	5

JAG97 SERIES

CARBIDE, 3 FLUTE CORNER RADIUS

- ▶ Special geometries applied to control weight balance for quality performance on higher RPM making an excellent surface finish through stable machining
- ▶ High corner protection made from special shape and rake angle inside the radius
- ▶ Excellent performance with high feed, high RPM, high chip removal (heavy cutting)



Unit : inch

EDP No.		Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
Non-Coated	Coated					
E5G97861	JAG97861	R.090	1	1	2	5
E5G97862	JAG97862	R.120	1	1	2	5
E5G97863	JAG97863	R.190	1	1	2	5
E5G97864	JAG97864	R.250	1	1	2	5
E5G97865	JAG97865	R.010	1	1	3-1/4	6
E5G97866	JAG97866	R.030	1	1	3-1/4	6
E5G97867	JAG97867	R.060	1	1	3-1/4	6
E5G97868	JAG97868	R.090	1	1	3-1/4	6
E5G97869	JAG97869	R.120	1	1	3-1/4	6
E5G97870	JAG97870	R.190	1	1	3-1/4	6
E5G97871	JAG97871	R.250	1	1	3-1/4	6
E5G97872	JAG97872	R.010	1	1	4	7
E5G97873	JAG97873	R.030	1	1	4	7
E5G97874	JAG97874	R.060	1	1	4	7
E5G97875	JAG97875	R.090	1	1	4	7
E5G97876	JAG97876	R.120	1	1	4	7
E5G97877	JAG97877	R.190	1	1	4	7
E5G97878	JAG97878	R.250	1	1	4	7

JAG98 SERIES

CARBIDE, 3 FLUTE CORNER RADIUS WITH NECK

- ▶ Special geometries applied to control weight balance for quality performance on higher RPM making an excellent surface finish through stable machining
- ▶ High corner protection made from special shape and rake angle inside the radius
- ▶ Excellent performance with high feed, high RPM, high chip removal (heavy cutting)



Unit : inch

EDP No.		Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Neck Diameter	Overall Length
Non-Coated	Coated							
E5G98016	JAG98016	R.010	1/4	1/4	3/8	3/4	.220	2-1/2
E5G98901	JAG98901	R.030	1/4	1/4	3/8	3/4	.220	2-1/2
E5G98902	JAG98902	R.060	1/4	1/4	3/8	3/4	.220	2-1/2
E5G98903	JAG98903	R.010	1/4	1/4	3/8	1-1/8	.220	3
E5G98904	JAG98904	R.030	1/4	1/4	3/8	1-1/8	.220	3
E5G98905	JAG98905	R.060	1/4	1/4	3/8	1-1/8	.220	3
E5G98024	JAG98024	R.010	3/8	3/8	1/2	1-1/8	.345	3
E5G98906	JAG98906	R.030	3/8	3/8	1/2	1-1/8	.345	3
E5G98907	JAG98907	R.060	3/8	3/8	1/2	1-1/8	.345	3
E5G98908	JAG98908	R.090	3/8	3/8	1/2	1-1/8	.345	3
E5G98909	JAG98909	R.120	3/8	3/8	1/2	1-1/8	.345	3
E5G98910	JAG98910	R.010	3/8	3/8	1/2	2-1/8	.345	4
E5G98911	JAG98911	R.030	3/8	3/8	1/2	2-1/8	.345	4
E5G98912	JAG98912	R.060	3/8	3/8	1/2	2-1/8	.345	4
E5G98913	JAG98913	R.090	3/8	3/8	1/2	2-1/8	.345	4
E5G98914	JAG98914	R.120	3/8	3/8	1/2	2-1/8	.345	4
E5G98032	JAG98032	R.010	1/2	1/2	5/8	1-3/8	.470	3
E5G98915	JAG98915	R.030	1/2	1/2	5/8	1-3/8	.470	3
E5G98916	JAG98916	R.060	1/2	1/2	5/8	1-3/8	.470	3
E5G98917	JAG98917	R.090	1/2	1/2	5/8	1-3/8	.470	3
E5G98918	JAG98918	R.120	1/2	1/2	5/8	1-3/8	.470	3
E5G98919	JAG98919	R.190	1/2	1/2	5/8	1-3/8	.470	3
E5G98920	JAG98920	R.010	1/2	1/2	5/8	2-1/4	.470	4
E5G98921	JAG98921	R.030	1/2	1/2	5/8	2-1/4	.470	4
E5G98922	JAG98922	R.060	1/2	1/2	5/8	2-1/4	.470	4
E5G98923	JAG98923	R.090	1/2	1/2	5/8	2-1/4	.470	4
E5G98924	JAG98924	R.120	1/2	1/2	5/8	2-1/4	.470	4
E5G98925	JAG98925	R.190	1/2	1/2	5/8	2-1/4	.470	4
E5G98926	JAG98926	R.010	1/2	1/2	5/8	3-3/8	.470	5
E5G98927	JAG98927	R.030	1/2	1/2	5/8	3-3/8	.470	5
E5G98928	JAG98928	R.060	1/2	1/2	5/8	3-3/8	.470	5
E5G98929	JAG98929	R.090	1/2	1/2	5/8	3-3/8	.470	5
E5G98930	JAG98930	R.120	1/2	1/2	5/8	3-3/8	.470	5
E5G98931	JAG98931	R.190	1/2	1/2	5/8	3-3/8	.470	5

JAG98 SERIES

CARBIDE, 3 FLUTE CORNER RADIUS WITH NECK

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- ▶ Excellent performance with high feed, high RPM, high chip removal (heavy cutting)



Unit : inch

EDP No.		Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Neck Diameter	Overall Length
Non-Coated	Coated							
E5G98932	JAG98932	R.010	1/2	1/2	5/8	4-1/4	.470	6
E5G98933	JAG98933	R.030	1/2	1/2	5/8	4-1/4	.470	6
E5G98934	JAG98934	R.060	1/2	1/2	5/8	4-1/4	.470	6
E5G98935	JAG98935	R.090	1/2	1/2	5/8	4-1/4	.470	6
E5G98936	JAG98936	R.120	1/2	1/2	5/8	4-1/4	.470	6
E5G98937	JAG98937	R.190	1/2	1/2	5/8	4-1/4	.470	6
E5G98040	JAG98040	R.010	5/8	5/8	3/4	1-5/8	.585	4
E5G98938	JAG98938	R.030	5/8	5/8	3/4	1-5/8	.585	4
E5G98939	JAG98939	R.060	5/8	5/8	3/4	1-5/8	.585	4
E5G98940	JAG98940	R.090	5/8	5/8	3/4	1-5/8	.585	4
E5G98941	JAG98941	R.120	5/8	5/8	3/4	1-5/8	.585	4
E5G98942	JAG98942	R.190	5/8	5/8	3/4	1-5/8	.585	4
E5G98943	JAG98943	R.010	5/8	5/8	3/4	3-3/8	.585	6
E5G98944	JAG98944	R.030	5/8	5/8	3/4	3-3/8	.585	6
E5G98945	JAG98945	R.060	5/8	5/8	3/4	3-3/8	.585	6
E5G98946	JAG98946	R.090	5/8	5/8	3/4	3-3/8	.585	6
E5G98947	JAG98947	R.120	5/8	5/8	3/4	3-3/8	.585	6
E5G98948	JAG98948	R.190	5/8	5/8	3/4	3-3/8	.585	6
E5G98048	JAG98048	R.010	3/4	3/4	1	2	.710	4
E5G98949	JAG98949	R.030	3/4	3/4	1	2	.710	4
E5G98950	JAG98950	R.060	3/4	3/4	1	2	.710	4
E5G98951	JAG98951	R.090	3/4	3/4	1	2	.710	4
E5G98952	JAG98952	R.120	3/4	3/4	1	2	.710	4
E5G98953	JAG98953	R.190	3/4	3/4	1	2	.710	4
E5G98954	JAG98954	R.250	3/4	3/4	1	2	.710	4
E5G98955	JAG98955	R.010	3/4	3/4	1	3-3/8	.710	6
E5G98956	JAG98956	R.030	3/4	3/4	1	3-3/8	.710	6
E5G98957	JAG98957	R.060	3/4	3/4	1	3-3/8	.710	6
E5G98958	JAG98958	R.090	3/4	3/4	1	3-3/8	.710	6
E5G98959	JAG98959	R.120	3/4	3/4	1	3-3/8	.710	6
E5G98960	JAG98960	R.190	3/4	3/4	1	3-3/8	.710	6
E5G98961	JAG98961	R.250	3/4	3/4	1	3-3/8	.710	6
E5G98962	JAG98962	R.010	3/4	3/4	1	5	.710	7
E5G98963	JAG98963	R.030	3/4	3/4	1	5	.710	7

JAG98 SERIES

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- ▶ Excellent performance with high feed, high RPM, high chip removal (heavy cutting)



Unit : inch

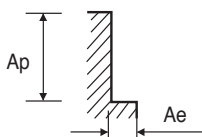
EDP No.		Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Neck Diameter	Overall Length
Non-Coated	Coated							
E5G98964	JAG98964	R.060	3/4	3/4	1	5	.710	7
E5G98965	JAG98965	R.090	3/4	3/4	1	5	.710	7
E5G98966	JAG98966	R.120	3/4	3/4	1	5	.710	7
E5G98967	JAG98967	R.190	3/4	3/4	1	5	.710	7
E5G98968	JAG98968	R.250	3/4	3/4	1	5	.710	7
E5G98064	JAG98064	R.010	1	1	1-1/4	2-5/8	.960	5
E5G98969	JAG98969	R.030	1	1	1-1/4	2-5/8	.960	5
E5G98970	JAG98970	R.060	1	1	1-1/4	2-5/8	.960	5
E5G98971	JAG98971	R.090	1	1	1-1/4	2-5/8	.960	5
E5G98972	JAG98972	R.120	1	1	1-1/4	2-5/8	.960	5
E5G98973	JAG98973	R.190	1	1	1-1/4	2-5/8	.960	5
E5G98974	JAG98974	R.250	1	1	1-1/4	2-5/8	.960	5
E5G98975	JAG98975	R.010	1	1	1-1/4	3-3/8	.960	6
E5G98976	JAG98976	R.030	1	1	1-1/4	3-3/8	.960	6
E5G98977	JAG98977	R.060	1	1	1-1/4	3-3/8	.960	6
E5G98978	JAG98978	R.090	1	1	1-1/4	3-3/8	.960	6
E5G98979	JAG98979	R.120	1	1	1-1/4	3-3/8	.960	6
E5G98980	JAG98980	R.190	1	1	1-1/4	3-3/8	.960	6
E5G98981	JAG98981	R.250	1	1	1-1/4	3-3/8	.960	6
E5G98982	JAG98982	R.010	1	1	1-1/4	4-3/8	.960	7
E5G98983	JAG98983	R.030	1	1	1-1/4	4-3/8	.960	7
E5G98984	JAG98984	R.060	1	1	1-1/4	4-3/8	.960	7
E5G98985	JAG98985	R.090	1	1	1-1/4	4-3/8	.960	7
E5G98986	JAG98986	R.120	1	1	1-1/4	4-3/8	.960	7
E5G98987	JAG98987	R.190	1	1	1-1/4	4-3/8	.960	7
E5G98988	JAG98988	R.250	1	1	1-1/4	4-3/8	.960	7
E5G98989	JAG98989	R.010	1	1	1-1/4	6	.960	9
E5G98990	JAG98990	R.030	1	1	1-1/4	6	.960	9
E5G98991	JAG98991	R.060	1	1	1-1/4	6	.960	9
E5G98992	JAG98992	R.090	1	1	1-1/4	6	.960	9
E5G98993	JAG98993	R.120	1	1	1-1/4	6	.960	9
E5G98994	JAG98994	R.190	1	1	1-1/4	6	.960	9
E5G98995	JAG98995	R.250	1	1	1-1/4	6	.960	9

RECOMMENDED CUTTING CONDITIONS

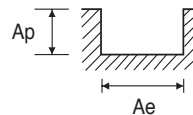
Unit : inch

Speed and Feed Recommendations							Diameter (D)						
ISO Hardness (BHN)	Coolant	Cutting Method	Ap x D	Ae x D	Vc (SFM)	Parameters	1/8	1/4	3/8	1/2	5/8	3/4	1
N < 16% Silicone Aluminum Alloys: 2024, 5052, 5086, 6061, 6063, 7075	Emulsion	Slotting 	1	1	1600	RPM	48896	24448	16299	12224	9779	8149	6112
					[1280-1920]	Fz	0.0010	0.0030	0.0045	0.0060	0.0066	0.0075	0.0100
						Feed(IPM)	147	220	220	220	194	183	183
		Profiling 	1.5	0.5	2000	RPM	61120	30560	20373	15280	12224	10187	7640
					[1600-2400]	Fz	0.0010	0.0030	0.0045	0.0060	0.0066	0.0075	0.0100
						Feed(IPM)	183	275	275	275	242	229	229
		HSM 	2	0.05	3300	RPM	100848	50424	33616	25212	20170	16808	12606
					[2640-3960]	Fz	0.0021	0.0055	0.0105	0.0140	0.0150	0.0165	0.0195
						Feed(IPM)	635	832	1059	1059	908	832	737
N > 16% Silicone Aluminum Die Cast Alloys: A-390, A392, B-390	Emulsion	Slotting 	1	1	600	RPM	18336	9168	6112	4584	3667	3056	2292
					[480-720]	Fz	0.0010	0.0030	0.0045	0.0060	0.0066	0.0075	0.0100
						Feed(IPM)	55	83	83	83	73	69	69
		Profiling 	1.5	0.5	800	RPM	24448	12224	8149	6112	4890	4075	3056
					[640-960]	Fz	0.0010	0.0030	0.0045	0.0060	0.0066	0.0075	0.0100
						Feed(IPM)	73	110	110	110	97	92	92
		HSM 	2	0.05	1200	RPM	36672	18336	12224	9168	7334	6112	4584
					[960-1440]	Fz	0.0021	0.0055	0.0105	0.0140	0.0150	0.0165	0.0195
						Feed(IPM)	231	303	385	385	330	303	268
N Copper Alloys: Aluminum Bronze, Brass, Naval Brass, Red Brass	Emulsion	Slotting 	1	1	880	RPM	26893	13446	8964	6723	5379	4482	3362
					[704-1056]	Fz	0.0008	0.0020	0.0040	0.0050	0.0055	0.0060	0.0070
						Feed(IPM)	65	81	108	101	89	81	71
		Profiling 	1.5	0.5	1150	RPM	35144	17572	11715	8786	7029	5857	4393
					[920-1380]	Fz	0.0008	0.0020	0.0040	0.0050	0.0055	0.0060	0.0070
						Feed(IPM)	84	105	141	132	116	105	92
		HSM 	2	0.05	1850	RPM	56536	28268	18845	14134	11307	9423	7067
					[1480-2220]	Fz	0.0017	0.0045	0.0085	0.0115	0.0130	0.0140	0.0160
						Feed(IPM)	288	382	481	488	441	396	339

Profiling / HSM



Slotting









RPM = rev./min. Fz = inch/tooth
Vc = ft/min. FEED = inch/min.

Note

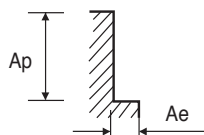
- ▶ All Cutting Data are Target Values
- ▶ Maximum recommended depth shown
- ▶ Finish cuts typically require reduced feed rates and/or higher spindle speed, with radial width of 2% x D or less
- ▶ Reduce speed and feed recommendations for materials harder than listed
- ▶ Reduce cut depth and feed by 50% for long flute or long reach tools
- ▶ Above recommendations are based on ideal conditions. Adjust parameters accordingly for smaller taper machining centers or less rigid conditions
- ▶ HSM = High speed Machining

RECOMMENDED CUTTING CONDITIONS

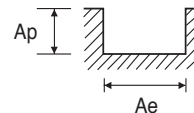
Unit : inch

Speed and Feed Recommendations							Diameter (D)							
ISO Hardness (BHN)	Coolant	Cutting Method	Ap x D	Ae x D	Vc (SFM)	Parameters	1/8	1/4	3/8	1/2	5/8	3/4	1	
N Copper Alloys: Beryllium Copper, C110, Manganese Bronze, Tin Bronze	Emulsion	Slotting 	1	1	300	RPM	9168	4584	3056	2292	1834	1528	1146	
					(240-360)	Fz	0.0008	0.0020	0.0040	0.0050	0.0055	0.0060	0.0070	
						Feed(IPM)	22	28	37	34	30	28	24	
		Profiling 	1.5	0.5	450	RPM	13752	6876	4584	3438	2750	2292	1719	
					(360-540)	Fz	0.0008	0.0020	0.0040	0.0050	0.0055	0.0060	0.0070	
						Feed(IPM)	33	41	55	52	45	41	36	
		HSM 	2	0.05	750	RPM	22920	11460	7640	5730	4584	3820	2865	
					(600-900)	Fz	0.0017	0.0045	0.0085	0.0115	0.0130	0.0140	0.0160	
						Feed(IPM)	117	155	195	198	179	160	138	
Plastics: ABS, POLYCARBONATE, PVC, POLYPROPYLENE	Air	Slotting 	1	1	1670	RPM	51035	25518	17012	12759	10207	8506	6379	
					(1336-2004)	Fz	0.0015	0.0040	0.0075	0.0100	0.0110	0.0120	0.0140	
						Feed(IPM)	230	306	383	383	337	306	268	
		Profiling 	1.5	0.5	2070	RPM	63259	31630	21086	15815	12652	10543	7907	
					(1656-2484)	Fz	0.0015	0.0040	0.0075	0.0100	0.0110	0.0120	0.0140	
						Feed(IPM)	285	380	474	474	418	380	332	
		HSM 	2	0.05	3350	RPM	102376	51188	34125	25594	20475	17063	12797	
					(2680-4020)	Fz	0.0034	0.0090	0.0170	0.0230	0.0250	0.0275	0.0320	
						Feed(IPM)	1044	1382	1740	1766	1536	1408	1229	

Profiling / HSM



Slotting



RPM = rev./min. Fz = inch/tooth
Vc = ft/min. FEED = inch/min.

Note

- ▶ All Cutting Data are Target Values
- ▶ Maximum recommended depth shown
- ▶ Finish cuts typically require reduced feed rates and/or higher spindle speed, with radial width of 2% x D or less
- ▶ Reduce speed and feed recommendations for materials harder than listed
- ▶ Reduce cut depth and feed by 50% for long flute or long reach tools
- ▶ Above recommendations are based on ideal conditions. Adjust parameters accordingly for smaller taper machining centers or less rigid conditions
- ▶ HSM = High speed Machining

MEMO



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-  SLOVENIA
-  SPAIN
-  SWEDEN
-  SWITZERLAND
-  UK



• ASIA PACIFIC

-  AUSTRALIA
-  CHINA
-  HONG KONG
-  INDIA
-  INDONESIA
-  JAPAN
-  MALAYSIA
-  PAKISTAN
-  PHILIPPINES
-  SOUTH KOREA
-  SINGAPORE
-  TAIWAN
-  THAILAND
-  VIETNAM



• AMERICAS

-  BRAZIL
-  CANADA
-  COLOMBIA
-  MEXICO
-  USA



• AFRICA

-  EGYPT
-  S. AFRICA



• MIDDLE EAST

-  IRAN
-  ISRAEL
-  SAUDI ARABIA
-  TURKEY
-  UAE

* For the more information on sales network,
Please contact the head office as below;

YG-1 USA

730 Corporate Woods Parkway Vernon Hills, IL 60061 U.S.A

- PHONE : 800-765-8665
- Technical Assistance: 888-868-5988
- <http://www.yg1usa.com>

HEAD OFFICE

211, Sewolcheon-ro, Bupyeong-gu, Incheon, South Korea

- PHONE : +82-32-526-0909
- E-MAIL : yg1@yg1.kr
- <http://www.yg1.kr>

YG-1 CO., LTD.

YG-1 KOREA

211, Sewolcheon-ro, Bupyeong-gu, Incheon, Korea

- Phone: +82-32-526-0909
- **Http://www.yg1.kr**
- **E-mail:yg1@yg1.kr**

Note The new address above has currently been updated since Korean new postal standard was valid from 2014.
Be noticed that the location of the Headquarters has NOT changed.

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Tool specifications are subject to change without prior notice.