ALU-POWER HPC END MILLS

UNCOATED **E5H24** SERIES
DLC COATED **JAH24** SERIES
PLAIN SHANK

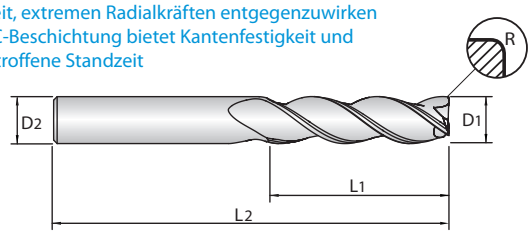
CARBIDE, 3 FLUTE 37° HELIX CORNER RADIUS

VOLLHARTMETALL, 3 SCHNEIDEN 37° ECKRADIUS
FRAISE CARBURE, 3 DENTS, TORIQUE, HÉLICE 37°
3 TAGLIENTI, ELICA 37°, SPIGOLO RAGGIATO

- Balanced cutting with less vibration
- Ability to run at higher speeds with less heat in aluminum
- More efficient chip evacuation
- Ability to counteract extreme radial forces
- DLC Coating provides edge strength and unsurpassed tool life

- Ausgewogenes Fräsen, mit weniger Vibrationen
- Höhere Schnittgeschwindigkeiten möglich bei weniger Wärmeeinbringung in den Werkstoff Aluminium
- Effizientere Spanabfuhr
- Fähigkeit, extremen Radialkräften entgegenzuwirken
- Die DLC-Beschichtung bietet Kantenfestigkeit und unübertroffene Standzeit





CARBIDE | 3 | 37° | PLAIN | UNCOATED | DLC

p.C518

Recommended ToolHolder
Plain Shank
HYDRAULIC CHUCK
SHRINK FIT HOLDER
POWER MILLING CHUCK
ER COLLET CHUCK
SK SLIM CHUCK

Unit : mm

EDP No.		Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
UNCOATED	DLC	R	D_1	D_2	L_1	L_2
E5H24060	**JAH24060**	R0.5	**6.0**	6	13	57
E5H24901	**JAH24901**	R1.0	**6.0**	6	13	57
E5H24902	**JAH24902**	R1.5	**6.0**	6	13	57
E5H24903	**JAH24903**	R0.8	**6.0**	6	13	72
E5H24904	**JAH24904**	R1.2	**6.0**	6	13	72
E5H24905	**JAH24905**	R0.5	**6.0**	6	24	75
E5H24906	**JAH24906**	R1.0	**6.0**	6	24	75
E5H24080	**JAH24080**	R0.3	**8.0**	8	19	63
E5H24907	**JAH24907**	R0.5	**8.0**	8	19	63
E5H24908	**JAH24908**	R1.0	**8.0**	8	19	63
E5H24909	**JAH24909**	R1.5	**8.0**	8	19	63
E5H24910	**JAH24910**	R0.5	**8.0**	8	32	75
E5H24911	**JAH24911**	R1.0	**8.0**	8	32	75
E5H24912	**JAH24912**	R1.5	**8.0**	8	32	75
E5H24913	**JAH24913**	R2.0	**8.0**	8	32	75
E5H24100	**JAH24100**	R0.3	**10.0**	10	22	72
E5H24914	**JAH24914**	R0.5	**10.0**	10	22	72
E5H24915	**JAH24915**	R1.0	**10.0**	10	22	72
E5H24916	**JAH24916**	R1.5	**10.0**	10	22	72
E5H24917	**JAH24917**	R0.5	**10.0**	10	40	100

▶ NEXT PAGE

Mill Diameter Tolerences (mm)		Shank Diameter Tolerance
Diameter	Tolerance	
Up to 3	+0/-0.006	h5
Over 3 ~ up to 6	+0/-0.008	
Over 6 ~ up to 10	+0/-0.009	
Over 10 ~ up to 18	+0/-0.011	
Over 18 ~ up to 25	+0/-0.013	

◎ : Excellent ○ : Good

ISO	P											M			K					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommend																				

ISO	N										S							H			
Material Description	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys					Titanium Alloys		Hardened steel		Chilled Cast Iron	Hardened Cast Iron
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
HRc											15	30	25	38	34			55	60	42	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550
Recommend	◎	◎	◎	◎	○	○	○	○	○												

ALU-POWER HPC END MILLS

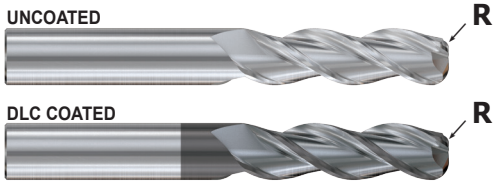
UNCOATED **E5H24** SERIES
DLC COATED **JAH24** SERIES
PLAIN SHANK

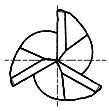
CARBIDE, 3 FLUTE 37° HELIX CORNER RADIUS

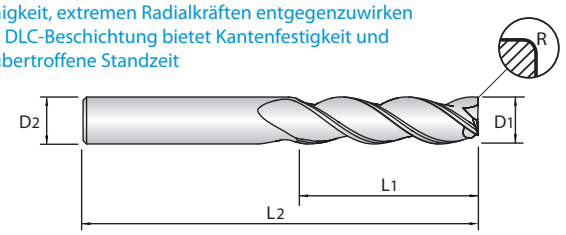
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CARBIDE | 3 | 37° | PLAIN | UNCOATED | DLC

p.C518

Recommended ToolHolder
Plain Shank
HYDRAULIC CHUCK
SHRINK FIT HOLDER
POWER MILLING CHUCK
ER COLLET CHUCK
SK SLIM CHUCK

Unit : mm

EDP No.		Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
UNCOATED	DLC	R	D_1	D_2	L_1	L_2
E5H24918	**JAH24918**	R1.0	**10.0**	10	40	100
E5H24919	**JAH24919**	R1.5	**10.0**	10	40	100
E5H24920	**JAH24920**	R2.0	**10.0**	10	40	100
E5H24120	**JAH24120**	R1.5	**12.0**	12	26	83
E5H24921	**JAH24921**	R2.0	**12.0**	12	26	83
E5H24922	**JAH24922**	R2.5	**12.0**	12	26	83
E5H24923	**JAH24923**	R3.0	**12.0**	12	26	83
E5H24924	**JAH24924**	R0.5	**12.0**	12	48	100
E5H24925	**JAH24925**	R1.0	**12.0**	12	48	100
E5H24926	**JAH24926**	R1.5	**12.0**	12	48	100
E5H24927	**JAH24927**	R2.0	**12.0**	12	48	100
E5H24928	**JAH24928**	R2.5	**12.0**	12	48	100
E5H24929	**JAH24929**	R3.0	**12.0**	12	48	100
E5H24140	**JAH24140**	R1.0	**14.0**	14	30	89
E5H24930	**JAH24930**	R2.0	**14.0**	14	30	89
E5H24931	**JAH24931**	R3.0	**14.0**	14	30	89
E5H24160	**JAH24160**	R1.5	**16.0**	16	32	92
E5H24932	**JAH24932**	R2.0	**16.0**	16	32	92
E5H24933	**JAH24933**	R2.5	**16.0**	16	32	92
E5H24934	**JAH24934**	R3.0	**16.0**	16	32	92

▶ NEXT PAGE

Mill Diameter Tolerences (mm)		Shank Diameter Tolerance
Diameter	Tolerance	
Up to 3	+0/-0.006	h5
Over 3 ~ up to 6	+0/-0.008	
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Over 18 ~ up to 25	+0/-0.013	

◎ : Excellent ○ : Good

ISO	P											M			K					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommend																				

ISO	N										S							H			
Material Description	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys					Titanium Alloys		Hardened steel		Chilled Cast Iron	Hardened Cast Iron
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HRc											15	30	25	38	34			55	60	42	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550
Recommend	◎	◎	◎	◎	○	○	○	○	○												

ALU-POWER HPC END MILLS

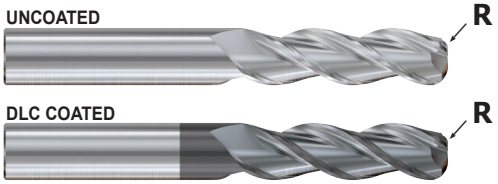
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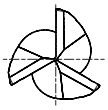
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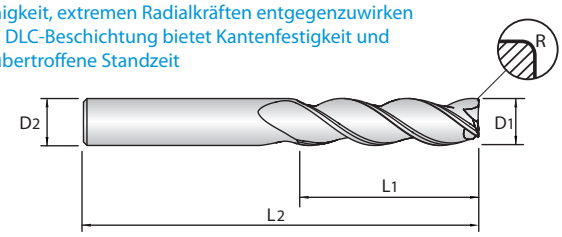
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UNCOATED	DLC	R	D_1	D_2	L_1	L_2
E5H24935	**JAH24935**	R4.0	**16.0**	16	32	92
E5H24936	**JAH24936**	R0.5	**16.0**	16	64	125
E5H24937	**JAH24937**	R1.0	**16.0**	16	64	125
E5H24938	**JAH24938**	R1.5	**16.0**	16	64	125
E5H24939	**JAH24939**	R2.0	**16.0**	16	64	125
E5H24940	**JAH24940**	R2.5	**16.0**	16	64	125
E5H24941	**JAH24941**	R3.0	**16.0**	16	64	125
E5H24942	**JAH24942**	R4.0	**16.0**	16	64	125
E5H24200	**JAH24200**	R2.0	**20.0**	20	38	104
E5H24943	**JAH24943**	R2.5	**20.0**	20	38	104
E5H24944	**JAH24944**	R3.0	**20.0**	20	38	104
E5H24945	**JAH24945**	R4.0	**20.0**	20	38	104
E5H24946	**JAH24946**	R0.5	**20.0**	20	80	150
E5H24947	**JAH24947**	R1.0	**20.0**	20	80	150
E5H24948	**JAH24948**	R1.5	**20.0**	20	80	150
E5H24949	**JAH24949**	R2.0	**20.0**	20	80	150
E5H24950	**JAH24950**	R2.5	**20.0**	20	80	150
E5H24951	**JAH24951**	R3.0	**20.0**	20	80	150
E5H24952	**JAH24952**	R4.0	**20.0**	20	80	150

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HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550
Recommend	◎	◎	◎	◎	○	○	○	○	○												