



Dao Phay Cầu 2F Phi 12 KYOCERA SGS 56MB KSP91359 HIGH PERFORMANCE

Kyocera SGS (KSPT) là thương hiệu là nhà sản xuất dụng cụ cắt gọt solid carbide hàng đầu thế giới. **Thông số kỹ thuật:**

- Thương hiệu: KYOCERA SGS Series 56MB dao phay hiệu suất cao (high performance)
- Vật liệu gia công: Chuyên phay các loại vật liệu thép sau nhiệt
- Đường kính lưỡi dao: 12mmĐường kính cán dao: 12mm
- Chiều dài lưỡi cắt: 12mm
- Tổng chiều dài dao: 114mm

METRIC

Turbo-Carb













56MB METRIC SERIES

- Short flute length and rigid design to reduce deflection
- S-Gash Ball geometry minimizes load and heat produced during the cutting process, ultimately enhancing tool life
- Ideal for machining complex contoured shapes in hardened steels
- Recommended for materials 35 to 60 HRc (327 to 654 Bhn)

	L1	-
	L ₂ α	ī
1	D_1	D ₂
•	30°	1

mm								
CUTTING DIAMETER D ₁	LENGTH OF CUT L ₂	OVERALL LENGTH L ₁	SHANK DIAMETER D ₂	α	REACH L ₃	Ti-NAMITE-X		
1,0	1,0 1,5 2,0 2,5 3,0 4,0 5,0	76,0	6,0 6,0	8°10'	2,0	91349 91350 91351 91352		
1,5		76,0		7°45'	3,0			
2,0		76,0	6,0	7°10'	4,0			
2,5		76,0	6,0	6°35'	5,0			
3,0		76,0	6,0	6° 4°30' 2°30'	6,0	91353 91354		
4,0		76,0	6,0		8,0			
5,0		89,0	6,0		10,0	91355		
6,0	6,0	89,0	6,0	2-2	12,0	91356		
8,0	8,0	102,0	8,0	-	16,0	91357		
10,0	10,0	102,0	10,0		20,0	91358		
12,0	12,0	114,0	12,0	-	24,0	91359		
16,0	16,0	140,0	16,0	5-5	32,0	91360		
20,0	20,0	165,0	20,0	-	40,0	91361		

Neck Option Available

TOLERANCES (mm)

1-2,5 DIAMETER

 $D_1 = +0,000/-0,025$ $D_2 = h_6$

>2,5-6 DIAMETER $D_1 = +0,000/-0,030$

 $D_2 = h_6$

>6-10 DIAMETER

 $D_1 = +0,000/-0,040$ $D_2 = h_6$

>10-20 DIAMETER $D_1 = +0,000/-0,050$

 $D_2 = h_6$

HARDENED STEELS

For patent information visit www.ksptpatents.com

METRIC **Turbo-Carb**

Series 56MB			- Ac	Ap Ae	Vc (m/min)					Diameter (D ₁) (mm)				
Metric	Hardness		Ae x D ₁	Ap x D ₁				1.5	3	5	6	10	12	20
		Rough	≤ 0.4	≤ 0.1	191	RPM	60748	40498	20249	12150	10125	6075	5062	3037
TOOL STEELS					(153-229)	Fz	0.015	0.038	0.076	0.102	0.127	0.203	0.254	0.305
MOLD AND DIE STEEL 300M, 4340, 52100,	≤ 375 Bhn					Feed (mm/min)	1822	3078	3078	2479	2572	2466	2572	1853
HP-9-4-20, M50, A2, D2, H13, L2, M2, P20,	or ≤ 40 HRc	HSM	∕1 ≤ 0.4	≤ 0.03	290	RPM	92235	61490	46117	18447	15372	9223	7686	4612
S7, T15, W2					(232-348)	Fz	0.018	0.043	0.084	0.112	0.117	0.224	0.279	0.330
						Feed (mm/min)	3320	5288	7748	4132	3597	4132	4289	3044
	≤ 475 Bhn or ≤ 50 HRc	Rough		≤ 0.05	229	RPM	72833	48556	24278	14567	12139	7283	6069	3642
TOOL STEELS			≤ 0.4		(183-275)	Fz	0.013	0.028	0.058	0.076	0.097	0.152	0.191	0.216
MOLD AND DIE STEEL 300M, 4340, 52100,						Feed (mm/min)	1894	2719	2816	2214	2355	2214	2319	1573
HP-9-4-20, M50, A2, D2, H13, L2, M2, P20,		HSM	≤ 0.4	≤ 0.02	351	RPM	111636	74424	37212	22327	18606	11164	9303	5582
S7, T15, W2		HSIVI			(281-421)	Fz	0.015	0.030	0.064	0.084	0.107	0.168	0.208	0.254
						Feed (mm/min)	3349	4465	4763	3751	3982	3751	3870	2836
		Rough	≤ 0.4	≤ 0.04	152	RPM	48344	32229	16115	9669	8057	4834	4029	2417
TOOL STEELS					(122-182)	Fz	0.010	0.020	0.043	0.058	0.074	0.114	0.145	0.160
MOLD AND DIE STEEL 300M, 4340, 52100,						Feed (mm/min)	967	1289	1386	1122	1192	1102	1168	773
HP-9-4-20, M50, A2, D2, H13, L2, M2, P20,		HSM	≤ 0.4	≤ 0.01	305	RPM	97005	64670	32335	19401	16168	9701	8084	4850
S7, T15, W2					(244-366)	Fz	0.013	0.023	0.048	0.064	0.081	0.127	0.160	0.180
						Feed (mm/min)	2522	2975	3104	2483	2619	2464	2587	1746

$$\begin{split} & Bhn \left(Brinell\right) & HRc \left(Rockwell \ C\right) & HSM \left(High \ Speed \ Machining\right) \\ & rpm = (Vc \times 1000) / \left(D_1 \times 3.14\right) \\ & mm/min = Fz \times 2 \times rpm \\ & reduce speed \ and \ feed \ for \ materials \ harder \ than \ listed \\ & reduce \ feed \ and \ Ae \ when \ finish \ milling \left(.02 \times D_1 \ maximum\right) \\ & refer to \ the \ KYOCERA \ SGS \ Tool \ Wizard* for \ complete \ technical \ information \ (www.kyocera-sgstool.com) \end{split}$$