



PLAIN SHANK

GMH56 SERIES

FLAT SHANK

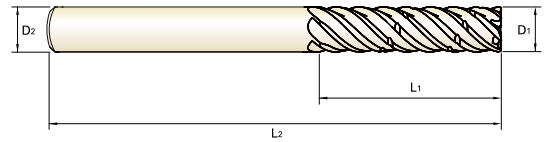
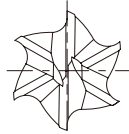
GMH57 SERIES

CARBIDE, 6 FLUTE EXTRA LONG LENGTH CHIP SPLITTER

● **VOLLHARTMETALL, 6-SCHNEIDEN-SPANTEILER MIT EXTRA LANGER LÄNGE**
 (●) **Carbure, 6 Dents, Torique, Extra-Longue, Fendeur Des Copeaux**
 (●) **MD, 6 TAGLIENTI, SERIE EXTRA LUNGA CON ROMPI TRUCIOLO**

- ▶ Special chip splitter design for better chip removal shortened chip length at high axial machining
- ▶ High Performance for Steels, Stainless Steels and Cast Iron

- ▶ Spezielles Spanteilerdesign für verbesserte Spanabfuhr durch kurze Späne bei hohem axialen Eingriff
- ▶ Hohe Leistung bei der Bearbeitung von Stählen, rostfreien Stählen und Gusseisen.



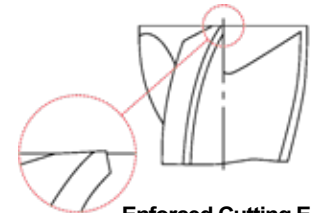
CARBIDE 6 45° PLAIN FLAT Y Coating p.C439

Recommended ToolHolder	Flat Shank		Plain Shank	
	END MILL HOLDER	Page	POWER MILLING CHUCK	Page
⊙	-	D118 - 137	-	D161 - 176
⊙	-	-	SHRINK FIT HOLDER	D47 - 72
○	-	-	HYDRAULIC CHUCK	D15 - 46
			ER COLLET CHUCK	D73 - 116
			SK SLIM CHUCK	D183 - 201

Unit : mm

EDP No.		Mill Diameter	Shank Diameter	Length of Cut	Overall Length
PLAIN	FLAT	D1	D2	L1	L2
GMH56060	GMH57060	6.0	6	24	75
GMH56080	GMH57080	8.0	8	32	75
GMH56100	GMH57100	10.0	10	40	100
GMH56120	GMH57120	12.0	12	48	120
GMH56160	GMH57160	16.0	16	64	140
GMH56200	GMH57200	20.0	20	80	150
GMH56250	GMH57250	25.0	25	100	170

Mill Dia. Tolerance (mm)	Shank Dia. Tolerance
0 ~ - 0.03	h5 * Shank Dia. ≥ Ø12 : h6



Enforced Cutting Edge

TECHNICAL DATA

⊙ : Excellent ○ : Good

ISO	P										M				K						
	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel				Stainless steel		Grey cast iron		Nodular cast iron		Malleable cast iron
Material Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
VDI 3323																					
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					
	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	
Material Description	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
VDI 3323																					
HRC											15	30	25	38	34			55	60	40	41
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550
Recommend											○	○	○	○	○	○	○				

GMH58 GMH59 GMH56 GMH57 6 FLUTE CHIP SPLITTER - SIDE CUTTING

Vc = m/min.
fz = mm/tooth
RPM = rev./min.
FEED = mm/min.

ISO	VDI 3323	Material Description	Ae	Ap	Parameter	Diameter (Ø)						
						6.0	8.0	10.0	12.0	16.0	20.0	25.0
P	1-4	Non-alloy steel	0.05D	3.0D	Vc	300	300	300	300	300	300	300
					fz	0.068	0.116	0.144	0.173	0.202	0.225	0.232
					RPM	15915	11937	9549	7958	5968	4775	3820
					FEED	6494	8308	8251	8260	7234	6446	5317
	5	Low alloy steel	0.05D	3.0D	Vc	205	205	205	205	205	205	205
					fz	0.050	0.085	0.106	0.128	0.149	0.167	0.174
					RPM	10876	8157	6525	5438	4078	3263	2610
					FEED	3263	4160	4150	4176	3646	3269	2725
	6-7	Low alloy steel	0.05D	3.0D	Vc	300	300	300	300	300	300	300
					fz	0.068	0.116	0.144	0.173	0.202	0.225	0.232
					RPM	15915	11937	9549	7958	5968	4775	3820
					FEED	6494	8308	8251	8260	7234	6446	5317
	8-9	Low alloy steel	0.05D	3.0D	Vc	205	205	205	205	205	205	205
					fz	0.050	0.085	0.106	0.128	0.149	0.167	0.174
					RPM	10876	8157	6525	5438	4078	3263	2610
					FEED	3263	4160	4150	4176	3646	3269	2725
	10-11.1	High alloyed steel, and tool steel	0.05D	3.0D	Vc	100	100	100	100	100	100	100
					fz	0.041	0.071	0.088	0.105	0.123	0.137	0.144
					RPM	5305	3979	3183	2653	1989	1592	1273
					FEED	1305	1695	1681	1671	1468	1308	1100
M	12-13	Stainless steel	0.05D	3.0D	Vc	215	215	215	215	215	215	215
					fz	0.049	0.084	0.104	0.125	0.146	0.162	0.168
					RPM	11406	8555	6844	5703	4277	3422	2737
					FEED	3353	4312	4270	4277	3747	3326	2759
	14.1	Stainless steel	0.05D	3.0D	Vc	145	145	145	145	145	145	145
					fz	0.041	0.071	0.088	0.105	0.123	0.137	0.143
					RPM	7692	5769	4615	3846	2885	2308	1846
					FEED	1892	2458	2437	2423	2129	1897	1584
	14.2	Stainless steel	0.05D	3.0D	Vc	135	135	135	135	135	135	135
					fz	0.041	0.071	0.088	0.105	0.123	0.137	0.142
					RPM	7162	5371	4297	3581	2686	2149	1719
					FEED	1762	2288	2269	2256	1982	1766	1464
K	15-20	Grey cast iron	0.05D	3.0D	Vc	225	225	225	225	225	225	225
					fz	0.082	0.139	0.173	0.208	0.242	0.270	0.278
					RPM	11937	8952	7162	5968	4476	3581	2865
					FEED	5844	7477	7426	7434	6510	5801	4785
S	31-35	Heat Resistant Super Alloys	0.05D	3.0D	Vc	35	35	35	35	35	35	35
					fz	0.033	0.055	0.070	0.082	0.097	0.112	0.115
					RPM	1857	1393	1114	928	696	557	446
					FEED	368	460	468	457	405	374	307
	36-37	Titanium Alloys	0.05D	3.0D	Vc	115	115	115	115	115	115	115
					fz	0.033	0.055	0.070	0.083	0.097	0.113	0.117
					RPM	6101	4576	3661	3050	2288	1830	1464
					FEED	1208	1510	1537	1519	1332	1241	1028

(*) : If product's Length of Cut(L.O.C) is below 2D, it must be applied with L.O.C x 90%

