

DRILLING TOOLHOLDER

Made of high quality alloy steel

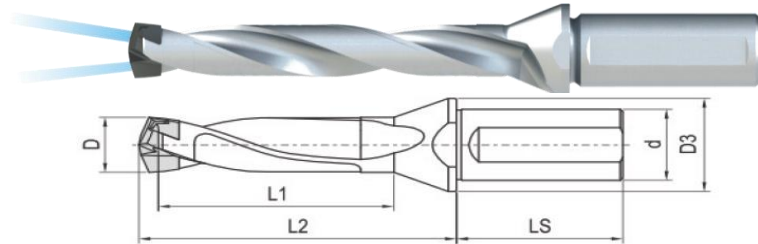
Round shank with flat according to ISO9766

With coolant hole design for high speed and smooth cutting.

Quality polished flute for chip moving quickly.

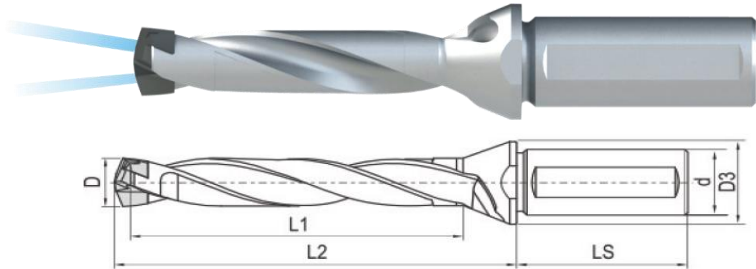
Supplied with assembly key and without carbide cutting head.

Drilling depth : Dx3



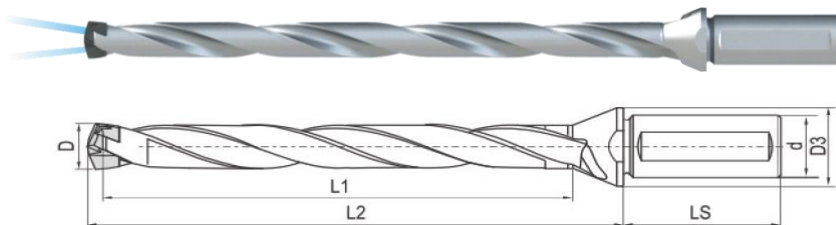
Order No.	For Cutting Dia.(mm)	Size(mm)						Key	Unit Price FOB SH
		d	D3	L1	L2	LS	D		
103D-025	12.0-12.9	16	20	37	54.5	48	12	#2	US\$58.14
103D-030	13.0-13.9	16	20	41	58.1	48	13	#2	US\$60.17
103D-035	14.0-14.9	16	20	44	63.6	48	14	#2	US\$62.20
103D-040	15.0-15.9	20	25	45	68.7	50	15	#2	US\$64.24
103D-045	16.0-16.9	20	25	48	73.3	50	16	#2	US\$66.27
103D-050	17.0-17.9	20	25	51	77.9	50	17	#3	US\$68.31
103D-055	18.0-18.9	25	32	54	82.5	56	18	#3	US\$70.34
103D-060	19.0-19.9	25	32	57	87	56	19	#3	US\$72.37
103D-065	20.0-20.9	25	32	60	91.6	56	20	#3	US\$76.44
103D-070	21.0-21.9	25	32	63	96.2	56	21	#4	US\$80.51
103D-075	22.0-22.9	25	32	66	100.8	56	22	#4	US\$86.61
103D-080	23.0-23.9	32	42	69	105.4	60	23	#4	US\$92.71
103D-085	24.0-24.9	32	42	72	109.9	60	24	#4	US\$98.81
103D-090	25.0-26.0	32	42	75	114.5	60	25	#4	US\$104.92

Drilling depth : Dx5



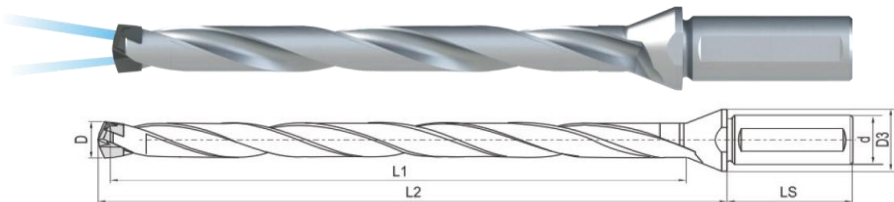
Order No.	For Cutting Dia.(mm)	Size(mm)						Key	Unit Price FOB SH
		d	D3	L1	L2	LS	D		
105D-025	12.0-12.9	16	20	62	79.5	48	12	#2	US\$69.66
105D-030	13.0-13.9	16	20	68	85.1	48	13	#2	US\$72.20
105D-035	14.0-14.9	16	20	73	92.7	48	14	#2	US\$74.58
105D-040	15.0-15.9	20	25	75	98.7	50	15	#2	US\$76.95
105D-045	16.0-16.9	20	25	80	105.3	50	16	#2	US\$79.49
105D-050	17.0-17.9	20	25	85	111.9	50	17	#3	US\$81.86
105D-055	18.0-18.9	25	32	90	118.5	56	18	#3	US\$84.41
105D-060	19.0-19.9	25	32	95	125	56	19	#3	US\$86.78
105D-065	20.0-20.9	25	32	100	131.6	56	20	#3	US\$91.69
105D-070	21.0-21.9	25	32	105	138.2	56	21	#4	US\$96.61
105D-075	22.0-22.9	25	32	110	144.8	56	22	#4	US\$103.90
105D-080	23.0-23.9	32	42	115	151.4	60	23	#4	US\$111.19
105D-085	24.0-24.9	32	42	120	158	60	24	#4	US\$118.47
105D-090	25.0-26.0	32	42	125	164.5	60	25	#4	US\$125.76

Drilling depth : Dx8



Order No.	For Cutting Dia. (mm)	Size(mm)						Key	Unit Price FOB SH
		d	D3	L1	L2	LS	D		
108D-025	12.0-12.9	16	20	100	117	48	12	#2	US\$90.51
108D-030	13.0-13.9	16	20	108	125.5	48	13	#2	US\$93.73
108D-035	14.0-14.9	16	20	116	136.2	48	14	#2	US\$96.95
108D-040	15.0-15.9	20	25	120	143.7	50	15	#2	US\$100.00
108D-045	16.0-16.9	20	25	128	153.3	50	16	#2	US\$103.22
108D-050	17.0-17.9	20	25	136	162.9	50	17	#3	US\$106.27
108D-055	18.0-18.9	25	32	144	172.5	56	18	#3	US\$109.66
108D-060	19.0-19.9	25	32	152	182	56	19	#3	US\$112.71
108D-065	20.0-20.9	25	32	160	191.6	56	20	#3	US\$119.15
108D-070	21.0-21.9	25	32	168	201.2	56	21	#4	US\$125.59
108D-075	22.0-22.9	25	32	176	210.8	56	22	#4	US\$134.92
108D-080	23.0-23.9	32	42	184	220.4	60	23	#4	US\$144.41
108D-085	24.0-24.9	32	42	192	230	60	24	#4	US\$153.90
108D-090	25.0-26.0	32	42	200	239.5	60	25	#4	US\$163.39

Drilling depth : Dx12



Order No.	For Cutting Dia. (mm)	Size(mm)						Key	Unit Price FOB SH
		d	D3	L1	L2	LS	D		
112D-025	12.0-12.9	16	20	150	167	48	12	#2	US\$126.95
112D-030	13.0-13.9	16	20	162	179	48	13	#2	US\$131.36
112D-035	14.0-14.9	16	20	174	194	48	14	#2	US\$135.93
112D-040	15.0-15.9	20	25	180	210	50	15	#2	US\$140.34
112D-045	16.0-16.9	20	25	192	224	50	16	#2	US\$144.75
112D-050	17.0-17.9	20	25	204	238	50	17	#3	US\$149.15
112D-055	18.0-18.9	25	32	216	252	56	18	#3	US\$153.56
112D-060	19.0-19.9	25	32	228	266	56	19	#3	US\$158.14
112D-065	20.0-20.9	25	32	240	280	56	20	#3	US\$166.95
112D-070	21.0-21.9	25	32	252	294	56	21	#4	US\$175.76
112D-075	22.0-23.0	25	32	264	308	56	22	#4	US\$189.15

SOLID CARBIDE CUTTING HEAD

Made of solid carbide with modern coating and precision ground point for maximum performance and very high feed rates.

Can be changed very easily even while mounted in the machine due to easy-to-handle quick change coupling.

High efficient chip evacuation properly for various material due to optimised chip flute.

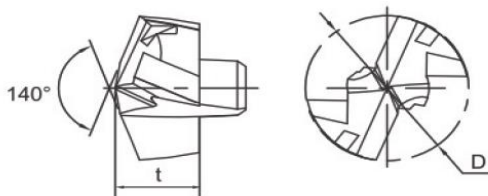
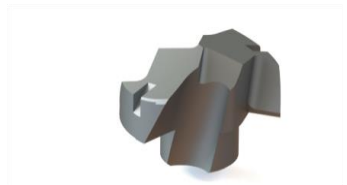
Special surface treatment lead to very high performance and long lifetime.

Performance and long lifetime .Standard style with 140° point angle.

STYLE HAGN

Universal use for cutting steel and cast iron.

better for cutting depth not more than 5D



Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGN-120	12	7	US\$20.24
HAGN-121	12.1	7	US\$20.46
HAGN-122	12.2	7	US\$20.68
HAGN-123	12.3	7	US\$20.90
HAGN-124	12.4	7	US\$21.12
HAGN-125	12.5	7	US\$21.34
HAGN-126	12.6	7	US\$21.56
HAGN-127	12.7	7	US\$21.78
HAGN-128	12.8	7	US\$22.00
HAGN-129	12.9	7	US\$22.22
HAGN-130	13	7.6	US\$22.44

Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGN-140	14	8.1	US\$24.64
HAGN-141	14.1	8.1	US\$24.86
HAGN-142	14.2	8.1	US\$25.08
HAGN-143	14.3	8.1	US\$25.30
HAGN-144	14.4	8.1	US\$25.52
HAGN-145	14.5	8.1	US\$25.74
HAGN-146	14.6	8.1	US\$25.96
HAGN-147	14.7	8.1	US\$26.18
HAGN-148	14.8	8.1	US\$26.40
HAGN-149	14.9	8.1	US\$26.62
HAGN-150	15	8.7	US\$26.84



HAGN-131	13.1	7.6	US\$22.66
HAGN-132	13.2	7.6	US\$22.88
HAGN-133	13.3	7.6	US\$23.10
HAGN-134	13.4	7.6	US\$23.32
HAGN-135	13.5	7.6	US\$23.54
HAGN-136	13.6	7.6	US\$23.76
HAGN-137	13.7	7.6	US\$23.98
HAGN-138	13.8	7.6	US\$24.20
HAGN-139	13.9	7.6	US\$24.42

HAGN-151	15.1	8.7	US\$27.06
HAGN-152	15.2	8.7	US\$27.28
HAGN-153	15.3	8.7	US\$27.50
HAGN-154	15.4	8.7	US\$27.72
HAGN-155	15.5	8.7	US\$27.94
HAGN-156	15.6	8.7	US\$28.16
HAGN-157	15.7	8.7	US\$28.38
HAGN-158	15.8	8.7	US\$28.60
HAGN-159	15.9	8.7	US\$28.82

Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGN-160	16	9.3	US\$29.04
HAGN-161	16.1	9.3	US\$29.26
HAGN-162	16.2	9.3	US\$29.48
HAGN-163	16.3	9.3	US\$29.70
HAGN-164	16.4	9.3	US\$29.92
HAGN-165	16.5	9.3	US\$30.14
HAGN-166	16.6	9.3	US\$30.36
HAGN-167	16.7	9.3	US\$30.58
HAGN-168	16.8	9.3	US\$30.80
HAGN-169	16.9	9.3	US\$31.02
HAGN-170	17	9.9	US\$31.24
HAGN-171	17.1	9.9	US\$31.46
HAGN-172	17.2	9.9	US\$31.68
HAGN-173	17.3	9.9	US\$31.90

Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGN-180	18	10.5	US\$33.44
HAGN-181	18.1	10.5	US\$33.66
HAGN-182	18.2	10.5	US\$33.88
HAGN-183	18.3	10.5	US\$34.10
HAGN-184	18.4	10.5	US\$34.32
HAGN-185	18.5	10.5	US\$34.54
HAGN-186	18.6	10.5	US\$34.76
HAGN-187	18.7	10.5	US\$34.98
HAGN-188	18.8	10.5	US\$35.20
HAGN-189	18.9	10.5	US\$35.42
HAGN-190	19	11	US\$35.64
HAGN-191	19.1	11	US\$35.86
HAGN-192	19.2	11	US\$36.08
HAGN-193	19.3	11	US\$36.30



HAGN-174	17.4	9.9	US\$32.12
HAGN-175	17.5	9.9	US\$32.34
HAGN-176	17.6	9.9	US\$32.56
HAGN-177	17.7	9.9	US\$32.78
HAGN-178	17.8	9.9	US\$33.00
HAGN-179	17.9	9.9	US\$33.22

HAGN-194	19.4	11	US\$36.52
HAGN-195	19.5	11	US\$36.74
HAGN-196	19.6	11	US\$36.96
HAGN-197	19.7	11	US\$37.18
HAGN-198	19.8	11	US\$37.40
HAGN-199	19.9	11	US\$37.62

Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGN-200	20	11.6	US\$37.84
HAGN-201	20.1	11.6	US\$38.06
HAGN-202	20.2	11.6	US\$38.28
HAGN-203	20.3	11.6	US\$38.50
HAGN-204	20.4	11.6	US\$38.72
HAGN-205	20.5	11.6	US\$38.94
HAGN-206	20.6	11.6	US\$39.16
HAGN-207	20.7	11.6	US\$39.38
HAGN-208	20.8	11.6	US\$39.60
HAGN-209	20.9	11.6	US\$39.82
HAGN-210	21	12.1	US\$40.04
HAGN-211	21.1	12.1	US\$40.26
HAGN-212	21.2	12.1	US\$40.48
HAGN-213	21.3	12.1	US\$40.70
HAGN-214	21.4	12.1	US\$40.92
HAGN-215	21.5	12.1	US\$41.14
HAGN-216	21.6	12.1	US\$41.36

Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGN-220	22	12.7	US\$42.24
HAGN-221	22.1	12.7	US\$42.46
HAGN-222	22.2	12.7	US\$42.68
HAGN-223	22.3	12.7	US\$42.90
HAGN-224	22.4	12.7	US\$43.12
HAGN-225	22.5	12.7	US\$43.34
HAGN-226	22.6	12.7	US\$43.56
HAGN-227	22.7	12.7	US\$43.78
HAGN-228	22.8	12.7	US\$44.00
HAGN-229	22.9	12.7	US\$44.22
HAGN-230	23	13.3	US\$44.44
HAGN-231	23.1	13.3	US\$44.66
HAGN-232	23.2	13.3	US\$44.88
HAGN-233	23.3	13.3	US\$45.10
HAGN-234	23.4	13.3	US\$45.32
HAGN-235	23.5	13.3	US\$45.54
HAGN-236	23.6	13.3	US\$45.76



HAGN-217	21.7	12.1	US\$41.58
HAGN-218	21.8	12.1	US\$41.80
HAGN-219	21.9	12.1	US\$42.02
Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGN-240	24	13.9	US\$46.64
HAGN-241	24.1	13.9	US\$46.86
HAGN-242	24.2	13.9	US\$47.08
HAGN-243	24.3	13.9	US\$47.30
HAGN-244	24.4	13.9	US\$47.52
HAGN-245	24.5	13.9	US\$47.74
HAGN-246	24.6	13.9	US\$47.96
HAGN-247	24.7	13.9	US\$48.18
HAGN-248	24.8	13.9	US\$48.40
HAGN-249	24.9	13.9	US\$48.62
HAGN-250	25	14.5	US\$48.84
HAGN-251	25.1	14.5	US\$49.06
HAGN-252	25.2	14.5	US\$49.28
HAGN-253	25.3	14.5	US\$49.50
HAGN-254	25.4	14.5	US\$49.72
HAGN-255	25.5	14.5	US\$49.94
HAGN-256	25.6	14.5	US\$50.16
HAGN-257	25.7	14.5	US\$50.38
HAGN-258	25.8	14.5	US\$50.60
HAGN-259	25.9	14.5	US\$50.82

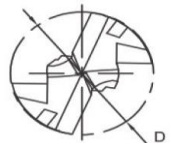
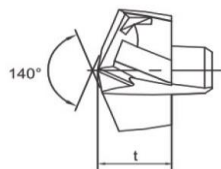
HAGN-237	23.7	13.3	US\$45.98
HAGN-238	23.8	13.3	US\$46.20
HAGN-239	23.9	13.3	US\$46.42

HARLINGEN®

STYLE HAGP

Special desing cutting cast iron

Better for cutting depth not more 5D



Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGC-120	12	7	US\$20.24
HAGC-121	12.1	7	US\$20.46
HAGC-122	12.2	7	US\$20.68
HAGC-123	12.3	7	US\$20.90
HAGC-124	12.4	7	US\$21.12
HAGC-125	12.5	7	US\$21.34
HAGC-126	12.6	7	US\$21.56
HAGC-127	12.7	7	US\$21.78
HAGC-128	12.8	7	US\$22.00
HAGC-129	12.9	7	US\$22.22
HAGC-130	13	7.6	US\$22.44

Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGC-140	14	8.1	US\$24.64
HAGC-141	14.1	8.1	US\$24.86
HAGC-142	14.2	8.1	US\$25.08
HAGC-143	14.3	8.1	US\$25.30
HAGC-144	14.4	8.1	US\$25.52
HAGC-145	14.5	8.1	US\$25.74
HAGC-146	14.6	8.1	US\$25.96
HAGC-147	14.7	8.1	US\$26.18
HAGC-148	14.8	8.1	US\$26.40
HAGC-149	14.9	8.1	US\$26.62
HAGC-150	15	8.7	US\$26.84



HAGC-131	13.1	7.6	US\$22.66
HAGC-132	13.2	7.6	US\$22.88
HAGC-133	13.3	7.6	US\$23.10
HAGC-134	13.4	7.6	US\$23.32
HAGC-135	13.5	7.6	US\$23.54
HAGC-136	13.6	7.6	US\$23.76
HAGC-137	13.7	7.6	US\$23.98
HAGC-138	13.8	7.6	US\$24.20
HAGC-139	13.9	7.6	US\$24.42

HAGC-151	15.1	8.7	US\$27.06
HAGC-152	15.2	8.7	US\$27.28
HAGC-153	15.3	8.7	US\$27.50
HAGC-154	15.4	8.7	US\$27.72
HAGC-155	15.5	8.7	US\$27.94
HAGC-156	15.6	8.7	US\$28.16
HAGC-157	15.7	8.7	US\$28.38
HAGC-158	15.8	8.7	US\$28.60
HAGC-159	15.9	8.7	US\$28.82

Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGC-160	16	9.3	US\$29.04
HAGC-161	16.1	9.3	US\$29.26
HAGC-162	16.2	9.3	US\$29.48
HAGC-163	16.3	9.3	US\$29.70
HAGC-164	16.4	9.3	US\$29.92
HAGC-165	16.5	9.3	US\$30.14
HAGC-166	16.6	9.3	US\$30.36
HAGC-167	16.7	9.3	US\$30.58
HAGC-168	16.8	9.3	US\$30.80
HAGC-169	16.9	9.3	US\$31.02
HAGC-170	17	9.9	US\$31.24
HAGC-171	17.1	9.9	US\$31.46
HAGC-172	17.2	9.9	US\$31.68

Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGC-180	18	10.5	US\$33.44
HAGC-181	18.1	10.5	US\$33.66
HAGC-182	18.2	10.5	US\$33.88
HAGC-183	18.3	10.5	US\$34.10
HAGC-184	18.4	10.5	US\$34.32
HAGC-185	18.5	10.5	US\$34.54
HAGC-186	18.6	10.5	US\$34.76
HAGC-187	18.7	10.5	US\$34.98
HAGC-188	18.8	10.5	US\$35.20
HAGC-189	18.9	10.5	US\$35.42
HAGC-190	19	11	US\$35.64
HAGC-191	19.1	11	US\$35.86
HAGC-192	19.2	11	US\$36.08

HAGC-173	17.3	9.9	US\$31.90
HAGC-174	17.4	9.9	US\$32.12
HAGC-175	17.5	9.9	US\$32.34
HAGC-176	17.6	9.9	US\$32.56
HAGC-177	17.7	9.9	US\$32.78
HAGC-178	17.8	9.9	US\$33.00
HAGC-179	17.9	9.9	US\$33.22

HAGC-193	19.3	11	US\$36.30
HAGC-194	19.4	11	US\$36.52
HAGC-195	19.5	11	US\$36.74
HAGC-196	19.6	11	US\$36.96
HAGC-197	19.7	11	US\$37.18
HAGC-198	19.8	11	US\$37.40
HAGC-199	19.9	11	US\$37.62

Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGC-200	20	11.6	US\$37.84
HAGC-201	20.1	11.6	US\$38.06
HAGC-202	20.2	11.6	US\$38.28
HAGC-203	20.3	11.6	US\$38.50
HAGC-204	20.4	11.6	US\$38.72
HAGC-205	20.5	11.6	US\$38.94
HAGC-206	20.6	11.6	US\$39.16
HAGC-207	20.7	11.6	US\$39.38
HAGC-208	20.8	11.6	US\$39.60
HAGC-209	20.9	11.6	US\$39.82
HAGC-210	21	12.1	US\$40.04
HAGC-211	21.1	12.1	US\$40.26
HAGC-212	21.2	12.1	US\$40.48
HAGC-213	21.3	12.1	US\$40.70
HAGC-214	21.4	12.1	US\$40.92
HAGC-215	21.5	12.1	US\$41.14

Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGC-220	22	12.7	US\$42.24
HAGC-221	22.1	12.7	US\$42.46
HAGC-222	22.2	12.7	US\$42.68
HAGC-223	22.3	12.7	US\$42.90
HAGC-224	22.4	12.7	US\$43.12
HAGC-225	22.5	12.7	US\$43.34
HAGC-226	22.6	12.7	US\$43.56
HAGC-227	22.7	12.7	US\$43.78
HAGC-228	22.8	12.7	US\$44.00
HAGC-229	22.9	12.7	US\$44.22
HAGC-230	23	13.3	US\$44.44
HAGC-231	23.1	13.3	US\$44.66
HAGC-232	23.2	13.3	US\$44.88
HAGC-233	23.3	13.3	US\$45.10
HAGC-234	23.4	13.3	US\$45.32
HAGC-235	23.5	13.3	US\$45.54



HAGC-216	21.6	12.1	US\$41.36
HAGC-217	21.7	12.1	US\$41.58
HAGC-218	21.8	12.1	US\$41.80
HAGC-219	21.9	12.1	US\$42.02

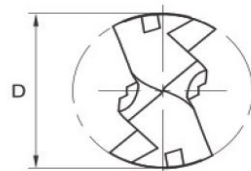
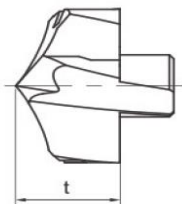
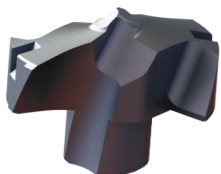
HAGC-236	23.6	13.3	US\$45.76
HAGC-237	23.7	13.3	US\$45.98
HAGC-238	23.8	13.3	US\$46.20
HAGC-239	23.9	13.3	US\$46.42

Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGC-240	24	13.9	US\$46.64
HAGC-241	24.1	13.9	US\$46.86
HAGC-242	24.2	13.9	US\$47.08
HAGC-243	24.3	13.9	US\$47.30
HAGC-244	24.4	13.9	US\$47.52
HAGC-245	24.5	13.9	US\$47.74
HAGC-246	24.6	13.9	US\$47.96
HAGC-247	24.7	13.9	US\$48.18
HAGC-248	24.8	13.9	US\$48.40
HAGC-249	24.9	13.9	US\$48.62
HAGC-250	25	14.5	US\$48.84
HAGC-251	25.1	14.5	US\$49.06
HAGC-252	25.2	14.5	US\$49.28
HAGC-253	25.3	14.5	US\$49.50
HAGC-254	25.4	14.5	US\$49.72
HAGC-255	25.5	14.5	US\$49.94
HAGC-256	25.6	14.5	US\$50.16
HAGC-257	25.7	14.5	US\$50.38
HAGC-258	25.8	14.5	US\$50.60
HAGC-259	25.9	14.5	US\$50.82

STYLE HAGP

Special desing cutting milled steel and alloy steel.

Suitable for cutting depth more than 5D due to better Self-centering point.



Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGP-120	12	7	US\$20.24
HAGP-121	12.1	7	US\$20.46
HAGP-122	12.2	7	US\$20.68
HAGP-123	12.3	7	US\$20.90
HAGP-124	12.4	7	US\$21.12
HAGP-125	12.5	7	US\$21.34
HAGP-126	12.6	7	US\$21.56
HAGP-127	12.7	7	US\$21.78
HAGP-128	12.8	7	US\$22.00
HAGP-129	12.9	7	US\$22.22
HAGP-130	13	7.6	US\$22.44
HAGP-131	13.1	7.6	US\$22.66
HAGP-132	13.2	7.6	US\$22.88
HAGP-133	13.3	7.6	US\$23.10
HAGP-134	13.4	7.6	US\$23.32

Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGP-140	14	8.1	US\$24.64
HAGP-141	14.1	8.1	US\$24.86
HAGP-142	14.2	8.1	US\$25.08
HAGP-143	14.3	8.1	US\$25.30
HAGP-144	14.4	8.1	US\$25.52
HAGP-145	14.5	8.1	US\$25.74
HAGP-146	14.6	8.1	US\$25.96
HAGP-147	14.7	8.1	US\$26.18
HAGP-148	14.8	8.1	US\$26.40
HAGP-149	14.9	8.1	US\$26.62
HAGP-150	15	8.7	US\$26.84
HAGP-151	15.1	8.7	US\$27.06
HAGP-152	15.2	8.7	US\$27.28
HAGP-153	15.3	8.7	US\$27.50
HAGP-154	15.4	8.7	US\$27.72

HAGP-135	13.5	7.6	US\$23.54
HAGP-136	13.6	7.6	US\$23.76
HAGP-137	13.7	7.6	US\$23.98
HAGP-138	13.8	7.6	US\$24.20
HAGP-139	13.9	7.6	US\$24.42

HAGP-155	15.5	8.7	US\$27.94
HAGP-156	15.6	8.7	US\$28.16
HAGP-157	15.7	8.7	US\$28.38
HAGP-158	15.8	8.7	US\$28.60
HAGP-159	15.9	8.7	US\$28.82

Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGP-160	16	9.3	US\$29.04
HAGP-161	16.1	9.3	US\$29.26
HAGP-162	16.2	9.3	US\$29.48
HAGP-163	16.3	9.3	US\$29.70
HAGP-164	16.4	9.3	US\$29.92
HAGP-165	16.5	9.3	US\$30.14
HAGP-166	16.6	9.3	US\$30.36
HAGP-167	16.7	9.3	US\$30.58
HAGP-168	16.8	9.3	US\$30.80
HAGP-169	16.9	9.3	US\$31.02
HAGP-170	17	9.9	US\$31.24
HAGP-171	17.1	9.9	US\$31.46
HAGP-172	17.2	9.9	US\$31.68
HAGP-173	17.3	9.9	US\$31.90
HAGP-174	17.4	9.9	US\$32.12
HAGP-175	17.5	9.9	US\$32.34
HAGP-176	17.6	9.9	US\$32.56
HAGP-177	17.7	9.9	US\$32.78

Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGP-180	18	10.5	US\$33.44
HAGP-181	18.1	10.5	US\$33.66
HAGP-182	18.2	10.5	US\$33.88
HAGP-183	18.3	10.5	US\$34.10
HAGP-184	18.4	10.5	US\$34.32
HAGP-185	18.5	10.5	US\$34.54
HAGP-186	18.6	10.5	US\$34.76
HAGP-187	18.7	10.5	US\$34.98
HAGP-188	18.8	10.5	US\$35.20
HAGP-189	18.9	10.5	US\$35.42
HAGP-190	19	11	US\$35.64
HAGP-191	19.1	11	US\$35.86
HAGP-192	19.2	11	US\$36.08
HAGP-193	19.3	11	US\$36.30
HAGP-194	19.4	11	US\$36.52
HAGP-195	19.5	11	US\$36.74
HAGP-196	19.6	11	US\$36.96
HAGP-197	19.7	11	US\$37.18

HAGP-178	17.8	9.9	US\$33.00
HAGP-179	17.9	9.9	US\$33.22

HAGP-198	19.8	11	US\$37.40
HAGP-199	19.9	11	US\$37.62

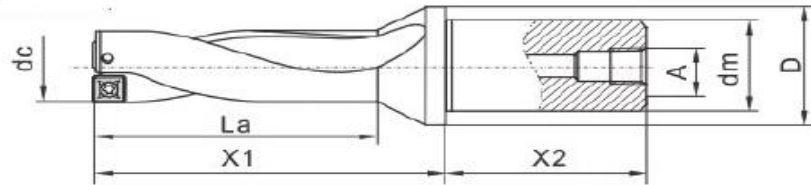
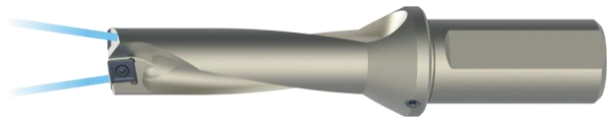
Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGP-200	20	11.6	US\$37.84
HAGP-201	20.1	11.6	US\$38.06
HAGP-202	20.2	11.6	US\$38.28
HAGP-203	20.3	11.6	US\$38.50
HAGP-204	20.4	11.6	US\$38.72
HAGP-205	20.5	11.6	US\$38.94
HAGP-206	20.6	11.6	US\$39.16
HAGP-207	20.7	11.6	US\$39.38
HAGP-208	20.8	11.6	US\$39.60
HAGP-209	20.9	11.6	US\$39.82
HAGP-210	21	12.1	US\$40.04
HAGP-211	21.1	12.1	US\$40.26
HAGP-212	21.2	12.1	US\$40.48
HAGP-213	21.3	12.1	US\$40.70
HAGP-214	21.4	12.1	US\$40.92
HAGP-215	21.5	12.1	US\$41.14
HAGP-216	21.6	12.1	US\$41.36
HAGP-217	21.7	12.1	US\$41.58
HAGP-218	21.8	12.1	US\$41.80
HAGP-219	21.9	12.1	US\$42.02

Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGP-220	22	12.7	US\$42.24
HAGP-221	22.1	12.7	US\$42.46
HAGP-222	22.2	12.7	US\$42.68
HAGP-223	22.3	12.7	US\$42.90
HAGP-224	22.4	12.7	US\$43.12
HAGP-225	22.5	12.7	US\$43.34
HAGP-226	22.6	12.7	US\$43.56
HAGP-227	22.7	12.7	US\$43.78
HAGP-228	22.8	12.7	US\$44.00
HAGP-229	22.9	12.7	US\$44.22
HAGP-230	23	13.3	US\$44.44
HAGP-231	23.1	13.3	US\$44.66
HAGP-232	23.2	13.3	US\$44.88
HAGP-233	23.3	13.3	US\$45.10
HAGP-234	23.4	13.3	US\$45.32
HAGP-235	23.5	13.3	US\$45.54
HAGP-236	23.6	13.3	US\$45.76
HAGP-237	23.7	13.3	US\$45.98
HAGP-238	23.8	13.3	US\$46.20
HAGP-239	23.9	13.3	US\$46.42

Order No.	Size (D mm)	t (mm)	Unit Price FOB
HAGP-240	24	13.9	US\$46.64
HAGP-241	24.1	13.9	US\$46.86
HAGP-242	24.2	13.9	US\$47.08
HAGP-243	24.3	13.9	US\$47.30
HAGP-244	24.4	13.9	US\$47.52
HAGP-245	24.5	13.9	US\$47.74
HAGP-246	24.6	13.9	US\$47.96
HAGP-247	24.7	13.9	US\$48.18
HAGP-248	24.8	13.9	US\$48.40
HAGP-249	24.9	13.9	US\$48.62
HAGP-250	25	14.5	US\$48.84
HAGP-251	25.1	14.5	US\$49.06
HAGP-252	25.2	14.5	US\$49.28
HAGP-253	25.3	14.5	US\$49.50
HAGP-254	25.4	14.5	US\$49.72
HAGP-255	25.5	14.5	US\$49.94
HAGP-256	25.6	14.5	US\$50.16
HAGP-257	25.7	14.5	US\$50.38
HAGP-258	25.8	14.5	US\$50.60
HAGP-259	25.9	14.5	US\$50.82

INDEXABLE DRILLING CUTTERS

Variable helix improve chip evacuation.
 Internal coolant and High feed rates.
 Made of quality alloy steel.
 Straight shank with flat for driving
 Insert pockets precisely positioned to keep cutting forces low and evenly distributed.



3xD drill

Order No.	Model	Size(mm)							Insert	Screw	Torx wrench	Unit Price FOB
		Diameter dc(mm)	Cutting depth La(mm)	Shank dia. Dm(mm)	Flang dia. D(mm)	Length to Flange X1(mm)	Shank Length X2(mm)	Coolant thread hole A				
266-16-314	ISS14A-3D	14	47	20	28	64	50	1/8-27 NPT	SXMT040204	C020A04S	T6	US\$95.48
266-16-315	ISS15A-3D	15	50	20	28	66	50	1/8-27 NPT				US\$95.48
266-16-316	ISS16A-3D	16	53	20	28	71	50	1/8-27 NPT				US\$95.48
266-16-317	ISS17A-3D	17	56	20	28	73	50	1/8-27 NPT	SXMT050204	C020A05S	T6	US\$95.48
266-16-318	ISS18A-3D	18	59	25	35	80	56	1/4-18 NPT				US\$95.48
266-16-319	ISS19A-3D	19	62	25	35	81	56	1/4-18 NPT	SXMT060306	C022A06S	T7	US\$97.65
266-16-320	ISS20A-3D	20	65	25	35	84	56	1/4-18 NPT				US\$97.65
266-16-321	ISS21A-3D	21	68	25	35	86	56	1/4-18 NPT	SXMT070306	C025A06S	FT7	US\$102.00
266-16-322	ISS22A-3D	22	71	25	35	89	56	1/4-18 NPT				US\$102.00
266-16-323	ISS23A-3D	23	74	25	35	91	56	1/4-18 NPT				US\$102.00
266-16-324	ISS24A-3D	24	78	32	42	100	60	1/4-18 NPT				US\$102.00

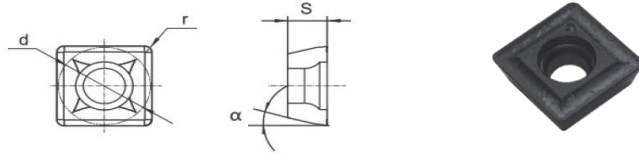


266-16-325	ISS25A-3D	25	80	32	42	101	60	1/4-18 NPT	SXMT080408	C030A07S	T9	US\$106.50
266-16-326	ISS26A-3D	26	83	32	42	105	60	1/4-18 NPT				US\$106.50
266-16-327	ISS27A-3D	27	86	32	42	106	60	1/4-18 NPT				US\$106.50
266-16-328	ISS28A-3D	28	89	32	42	108	60	1/4-18 NPT				US\$106.50
266-16-329	ISS29A-3D	29	92	32	42	110	60	1/4-18 NPT	SXMT100408	C035A08S	T15	US\$118.50
266-16-330	ISS30A-3D	30	95	32	42	113	60	1/4-18 NPT				US\$118.50
266-16-331	ISS31A-3D	31	98	32	42	120	60	1/4-18 NPT				US\$132.38
266-16-332	ISS32A-3D	32	101	32	42	122	60	1/4-18 NPT				US\$132.38
266-16-333	ISS33A-3D	33	104	32	42	123	60	1/4-18 NPT				US\$132.38
266-16-334	ISS34A-3D	34	107	32	42	125	60	1/4-18 NPT				US\$132.38
266-16-335	ISS35A-3D	35	110	32	42	127	60	1/4-18 NPT	SXMT120508	C045B12C	T20	US\$136.13
266-16-336	ISS36A-3D	36	113	32	42	131	60	1/4-18 NPT				US\$136.13
266-16-337	ISS37A-3D	37	116	40	50	141	70	1/4-18 NPT				US\$136.13
266-16-338	ISS38A-3D	38	119	40	50	143	70	1/4-18 NPT				US\$136.13
266-16-339	ISS39A-3D	39	122	40	50	144	70	1/4-18 NPT				US\$136.13
266-16-340	ISS40A-3D	40	125	40	50	146	70	1/4-18 NPT				US\$136.13

4xD drill

Order No.	Model	Size(mm)							Insert	Screw	Torx wrench	Unit Price FOB
		Diameter dc(mm)	Cutting depth La(mm)	Shank dia. Dm(mm)	Flang dia. D(mm)	Length to Flange X1(mm)	Shank Length X2(mm)	Coolant thread hole A				
266-16-418	ISS 18A-4D	18	77	25	35	98	56	1/4-18 NPT	SXMT050204	C020A05S	T6	US\$114.38
266-16-419	ISS 19A-4D	19	81	25	35	100	56	1/4-18 NPT	SXMT060306	C022A06S	FT7	US\$117.23
266-16-420	ISS 20A-4D	20	85	25	35	104	56	1/4-18 NPT				US\$117.23
266-16-421	ISS 21A-4D	21	88	25	35	107	56	1/4-18 NPT	SXMT070306	C025A07S	FT7	US\$122.25
266-16-422	ISS 22A-4D	22	92	25	35	111	56	1/4-18 NPT				US\$122.25
266-16-423	ISS 23A-4D	23	96	25	35	114	56	1/4-18 NPT				US\$122.25
266-16-424	ISS 24A-4D	24	100	32	42	124	60	1/4-18 NPT				US\$122.25
266-16-425	ISS 25A-4D	25	104	32	42	126	60	1/4-18 NPT	SXMT080408	C030A07S	FT9	US\$127.50
266-16-426	ISS 26A-4D	26	108	32	42	131	60	1/4-18 NPT				US\$127.50
266-16-427	ISS 27A-4D	27	112	32	42	133	60	1/4-18 NPT				US\$127.50
266-16-428	ISS 28A-4D	28	116	32	42	136	60	1/4-18 NPT				US\$127.50
266-16-429	ISS 29A-4D	29	120	32	42	139	60	1/4-18 NPT	SXMT100408	C035A08S	T15	US\$142.50
266-16-430	ISS 30A-4D	30	124	32	42	143	60	1/4-18 NPT				US\$142.50
266-16-431	ISS 31A-4D	31	128	32	42	151	60	1/4-18 NPT				US\$158.78
266-16-432	ISS 32A-4D	32	132	32	42	154	60	1/4-18 NPT				US\$158.78

SOLID CARBIDE INSERT SXMT



Order No.	Model	Grade	Application	Size(mm)				Unit Price FOB
				d	r	s	α	
260-16-101	SXMT040204-EM	EC2640	Steel, cast iron	4.9	0.4	2.3	8°	US\$2.40
260-16-102	SXMT050204-EM	EC2640	Steel, cast iron	5.5	0.4	2.5	8°	US\$2.45
260-16-103	SXMT060306-EM	EC2640	Steel, cast iron	6.4	0.6	2.9	8°	US\$2.52
260-16-104	SXMT070306-EM	EC2640	Steel, cast iron	7.5	0.6	3.3	8°	US\$2.63
260-16-105	SXMT080408-EM	EC2640	Steel, cast iron	8.9	0.8	3.7	8°	US\$3.01
260-16-106	SXMT100408-EM	EC2640	Steel, cast iron	10.3	0.8	4.3	8°	US\$3.43
260-16-107	SXMT120508-EM	EC2640	Steel, cast iron	12.6	0.8	5.1	8°	US\$4.37

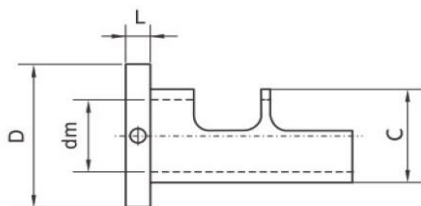
Recommended cutting data

ISO material	Hardness/Strength	Speed Vc(m/min)	Feed f(mm/rev)			
			φ 14-20.5	φ 21-28	φ 29-34	φ 35-40
P Mild steel	≤180HB	230(150-260)	0.05(0.03-0.1)	0.05(0.03-0.1)	0.05(0.03-0.1)	0.05(0.03-0.1)
P Low alloy steel	≤280HB	140(100-220)	0.09(0.06-0.13)	0.12(0.1-0.18)	0.15(0.13-0.21)	0.22(0.2-0.27)
P high alloy steel	≤280HB	140(80-180)	0.08(0.05-0.12)	0.12(0.06-0.15)	0.14(0.09-0.18)	0.15(0.1-0.2)
M stainless steel	≤250HB	150(100-180)	0.08(0.05-0.12)	0.1(0.06-0.12)	0.15(0.1-0.17)	0.18(0.15-0.2)
K cast iron	≤350N/mm2	120(100-180)	0.09(0.06-0.13)	0.13(0.1-0.18)	0.18(0.13-0.21)	0.25(0.2-0.27)
K nodular cast iron	≤800N/mm2	100(80-150)	0.09(0.06-0.13)	0.12(0.08-0.16)	0.16(0.1-0.2)	0.2(0.15-0.25)
N Alu. alloy	≤13%Si	220(100-800)	0.09(0.06-0.20)	0.13(0.1-0.25)	0.18(0.13-0.3)	0.25(0.2-0.35)
S heat resistant alloy	-	30(15-50)	0.04(0.02-0.06)	0.06(0.03-0.1)	0.08(0.04-0.12)	0.1(0.06-0.14)
S Titanium alloy	-	60(30-100)	0.06(0.04-0.08)	0.08(0.06-0.12)	0.1(0.08-0.15)	0.12(0.1-0.15)

HARLINGEN®

ECENTRIC BUSHING

With this bushing indexable drill can be micro adjusted by +/-0.2mm



Order No.	Model	Size(mm)				Unit Price FOB
		C	dm	D	L	
260-16-001	C25-XP20	25	20	42	5	US\$44.10
260-16-002	C32-XP25	32	25	50	8	US\$44.10
260-16-003	C40-XP32	40	32	60	8	US\$44.10
260-16-004	C50-XP40	50	40	66	8	US\$55.13



Operate guide:

increase cutting diameter : rotate bushing till marking line on drill point to area "+"

decrease cutting diameter : rotate bushing till marking line on drill point to area "-"