

PROBLEM-FREE DRILLING OF LARGE DIAMETERS

For making single workpieces to small series,
the insert drill is a problem solver
and boosts production.



Why PHANTOM INSERT DRILLS?

- Different diameters fit on one drill
- No more regrinding, just replace the insert
- Suitable for column drills and CNC machines

THERE'S NO END TO WHAT YOU CAN DO.

> 75.600 **Phantom**

Insert drill, with spiral flute, Morse taper



Ref.	d1	I2	I3	I4	I1	d3	d2	1 incl.	2 incl.	3 excl.	4 excl.
75.600.0406	12,98-15,49	89	110	146	218	NPT 1/16	MK 2	75.698.0400	T8	Gr.00	75.695.0000
75.600.0408	12,98-15,49	114	135	172	244	NPT 1/16	MK 2	75.698.0400	T8	Gr.00	75.695.0000
75.600.0412	12,98-15,49	178	199	235	307	NPT 1/16	MK 2	75.698.0400	T8	Gr.00	75.695.0000
75.600.0505	15,50-17,85	89	110	146	218	NPT 1/16	MK 2	75.698.0500	T8	Gr.05	75.695.0000
75.600.0507	15,50-17,85	114	135	172	244	NPT 1/16	MK 2	75.698.0500	T8	Gr.05	75.695.0000
75.600.0511	15,50-17,85	178	199	235	307	NPT 1/16	MK 2	75.698.0500	T8	Gr.05	75.695.0000
75.600.1009	17,86-21,99	172	200	244	334	NPT 1/8	MK 3	75.698.1000	T9	Gr.10	75.695.1200
75.600.1011	17,86-21,99	219	251	295	385	NPT 1/8	MK 3	75.698.1000	T9	Gr.10	75.695.1200
75.600.1013	17,86-21,99	273	302	346	436	NPT 1/8	MK 3	75.698.1000	T9	Gr.10	75.695.1200
75.600.1018	17,86-21,99	363	395	439	529	NPT 1/8	MK 3	75.698.1000	T9	Gr.10	75.695.1200
75.600.1507	22,00-24,60	172	200	244	334	NPT 1/8	MK 3	75.698.1000	T9	Gr.15	75.695.1200
75.600.1509	22,00-24,60	219	251	295	385	NPT 1/8	MK 3	75.698.1000	T9	Gr.15	75.695.1200
75.600.1512	22,00-24,60	273	302	346	436	NPT 1/8	MK 3	75.698.1000	T9	Gr.15	75.695.1200
75.600.1515	22,00-24,60	363	395	439	529	NPT 1/8	MK 3	75.698.1000	T9	Gr.15	75.695.1200
75.600.2007	24,61-29,99	137	216	262	375	NPT 1/8	MK 4	75.698.2000	T15	Gr.20	75.695.1200
75.600.2009	24,61-29,99	238	267	313	426	NPT 1/8	MK 4	75.698.2000	T15	Gr.20	75.695.1200
75.600.2010	24,61-29,99	289	318	364	477	NPT 1/8	MK 4	75.698.2000	T15	Gr.20	75.695.1200
75.600.2015	24,61-29,99	400	429	475	588	NPT 1/8	MK 4	75.698.2000	T15	Gr.20	75.695.1200
75.600.2506	30,00-35,50	187	216	269	383	NPT 1/8	MK 4	75.698.2000	T15	Gr.25	75.695.2300
75.600.2508	30,00-35,50	289	318	371	484	NPT 1/8	MK 4	75.698.2000	T15	Gr.25	75.695.2300
75.600.2512	30,00-35,50	400	429	482	595	NPT 1/8	MK 4	75.698.2000	T15	Gr.25	75.695.2300
75.600.3005	35,51-41,99	210	241	295	408	NPT 1/4	MK 4	75.698.3400	T20	Gr.30	75.695.2300
75.600.3009	35,51-41,99	349	381	435	548	NPT 1/4	MK 4	75.698.3400	T20	Gr.30	75.695.2300
75.600.3505	42,00-47,99	210	241	295	408	NPT 1/4	MK 4	75.698.3400	T20	Gr.35	75.695.2300
75.600.3508	42,00-47,99	349	381	435	548	NPT 1/4	MK 4	75.698.3400	T20	Gr.35	75.695.2300
75.600.4004	48,00-55,99	232	267	321	465	NPT 1/4	MK 5	75.698.3400	T20	Gr.40	75.695.4000
75.600.4008	48,00-55,99	422	457	511	656	NPT 1/4	MK 5	75.698.3400	T20	Gr.40	75.695.4000
75.600.4504	56,00-65,09	232	267	321	465	NPT 1/4	MK 5	75.698.3400	T20	Gr.45	75.695.4000
75.600.4507	56,00-65,09	422	547	511	656	NPT 1/4	MK 5	75.698.3400	T20	Gr.45	75.695.4000
75.600.5004	63,50-76,99	273	318	389	532	NPT 1/2	MK 5	75.998.5800	T25	Gr.50	75.695.5800
75.600.5007	63,50-76,99	464	508	579	722	NPT 1/2	MK 5	75.998.5800	T25	Gr.50	75.695.5800

> 75.620 **Phantom**

Insert drill, with spiral flute, Cylindrical with flat



Ref.	d1	I2	I3	I4	I1	d3	d2	I5	1 incl.	2 incl.	3 excl.
75.620.0406	12,98-15,49	89	118	142	168	NPT 1/8	20 mm	50	75.698.0400	T8	Gr.00
75.620.0407	12,98-15,49	114	143	146	193	NPT 1/8	20 mm	50	75.698.0400	T8	Gr.00
75.620.0411	12,98-15,49	178	206	209	256	NPT 1/8	20 mm	50	75.698.0400	T8	Gr.00
75.620.0505	15,50-17,85	89	118	142	168	NPT 1/8	20 mm	50	75.698.0500	T8	Gr.05
75.620.0506	15,50-17,85	114	143	146	193	NPT 1/8	20 mm	50	75.698.0500	T8	Gr.05
75.620.0510	15,50-17,85	178	206	209	256	NPT 1/8	20 mm	50	75.698.0500	T8	Gr.05
75.620.1005	17,86-21,99	118	155	158	211	NPT 1/8	25 mm	56	75.698.1000	T9	Gr.10
75.620.1008	17,86-21,99	168	206	209	262	NPT 1/8	25 mm	56	75.698.1000	T9	Gr.10
75.620.1010	17,86-21,99	219	256	262	312	NPT 1/8	25 mm	56	75.698.1000	T9	Gr.10
75.620.1505	22,00-24,60	118	155	158	211	NPT 1/8	25 mm	56	75.698.1000	T9	Gr.15
75.620.1509	22,00-24,60	219	256	262	312	NPT 1/8	25 mm	56	75.698.1000	T9	Gr.15
75.620.1511	22,00-24,60	270	307	311	363	NPT 1/8	25 mm	56	75.698.1000	T9	Gr.15
75.620.2005	24,61-29,99	137	179	183	239	NPT 1/4	32 mm	60	75.698.2000	T15	Gr.20
75.620.2010	24,61-29,99	289	332	335	392	NPT 1/4	32 mm	60	75.698.2000	T15	Gr.20
75.620.2505	30,00-35,50	187	230	234	290	NPT 1/4	32 mm	60	75.698.2000	T15	Gr.25
75.620.2508	30,00-35,50	289	332	335	392	NPT 1/4	32 mm	60	75.698.2000	T15	Gr.25
75.620.3005	35,51-41,99	210	262	267	332	NPT 1/4	40 mm	70	75.698.3400	T20	Gr.30
75.620.3008	35,51-41,99	349	364	368	434	NPT 1/4	40 mm	70	75.698.3400	T20	Gr.30
75.620.3503	42,00-47,99	165	218	222	288	NPT 1/4	40 mm	70	75.698.3400	T20	Gr.35
75.620.3505	42,00-47,99	260	313	332	383	NPT 1/4	40 mm	70	75.698.3400	T20	Gr.35

> 75.620

Ref.	d1	l2	l3	l4	l1	d3	d2	l5	1 incl.	2 incl.	3 excl.
75.620.4004	48,00-55,99	232	281	286	351	NPT 1/4	40 mm	70	75.698.3400	T20	Gr.40
75.620.4006	48,00-55,99	350	399	404	469	NPT 1/4	40 mm	70	75.698.3400	T20	Gr.40
75.620.4504	56,00-65,09	232	281	286	351	NPT 1/4	40 mm	70	75.698.3400	T20	Gr.45
75.620.4505	56,00-65,09	350	399	404	469	NPT 1/4	40 mm	70	75.698.3400	T20	Gr.45

> 75.650

Phantom

UNI HSS-E PM Drilling insert AlCrN, for universal use



HSS-E PM			AlCrN			132°			UNI																																									
P 11 ≤600 N/mm²			P 12 ≤850 N/mm²			P 13 ≤1000 N/mm²			P 14 ≤1400 N/mm²			M 21 INOX ≤850N/mm²			M 22 INOX >850N/mm²			K 31 GG			K 32 GGG GTS-GTW			N 41 Alu			N 42 Alu Si>10%			N 43 Mg			N 51 Cu			N 52 CuAlFe			N 61 PVC			N 62 GFK/CFK			S 71 Ni/Co			S 72 Ti		
40-80 C			35-70 C			30-50 B			20-35 B			18-32 A			15-25 A			40-70 C			30-60 C			100-200 B			100-150 C			60-80 C			40-50 C			50-75 B			50-90 C			50-90 C			8-12 A			10-14 A		

Ref.	d1	Type
75.650.1300	13	Gr.00
75.650.1350	13.5	Gr.00
75.650.1400	14	Gr.00
75.650.1450	14.5	Gr.00
75.650.1500	15	Gr.00
75.650.1550	15.5	Gr.05
75.650.1600	16	Gr.05
75.650.1650	16.5	Gr.05
75.650.1700	17	Gr.05
75.650.1750	17.5	Gr.05
75.650.1800	18	Gr.10
75.650.1850	18.5	Gr.10
75.650.1900	19	Gr.10
75.650.1950	19.5	Gr.10
75.650.2000	20	Gr.10
75.650.2050	20.5	Gr.10
75.650.2100	21	Gr.10
75.650.2150	21.5	Gr.10
75.650.2200	22	Gr.15
75.650.2300	23	Gr.15
75.650.2400	24	Gr.15
75.650.2500	25	Gr.20
75.650.2600	26	Gr.20

Ref.	d1	Type
75.650.2700	27	Gr.20
75.650.2800	28	Gr.20
75.650.2900	29	Gr.20
75.650.3000	30	Gr.25
75.650.3100	31	Gr.25
75.650.3200	32	Gr.25
75.650.3300	33	Gr.25
75.650.3400	34	Gr.25
75.650.3500	35	Gr.25
75.650.3600	36	Gr.30
75.650.3700	37	Gr.30
75.650.3800	38	Gr.30
75.650.3900	39	Gr.30
75.650.4000	40	Gr.30
75.650.4100	41	Gr.30
75.650.4200	42	Gr.35
75.650.4300	43	Gr.35
75.650.4400	44	Gr.35
75.650.4500	45	Gr.35
75.650.4600	46	Gr.35
75.650.4700	47	Gr.35
75.650.4800	48	Gr.40
75.650.4900	49	Gr.40

Ref.	d1	Type
75.650.5000	50	Gr.40
75.650.5100	51	Gr.40
75.650.5200	52	Gr.40
75.650.5300	53	Gr.40
75.650.5400	54	Gr.40
75.650.5500	55	Gr.40
75.650.5600	56	Gr.45
75.650.5700	57	Gr.45
75.650.5800	58	Gr.45
75.650.5900	59	Gr.45
75.650.6000	60	Gr.45
75.650.6100	61	Gr.45
75.650.6200	62	Gr.45
75.650.6300	63	Gr.45
75.650.6400	64	Gr.45
75.650.6500	65	Gr.45
75.650.6600	66	Gr.50
75.650.6800	68	Gr.50
75.650.7000	70	Gr.50
75.650.7200	72	Gr.50
75.650.7400	74	Gr.50
75.650.7600	76	Gr.50

> 75.680

Phantom

UNI carbide Drilling insert AlCrN, for universal use on high tensile materials and/or higher cutting speeds and longer tool life.



HM

AlCrN

132°



UNI

P 11

≤600 N/mm²

P 12

≤850 N/mm²

P 13

≤1000 N/mm²

P 14

≤1400 N/mm²

M 21

INOX
≤850N/mm²

M 22

INOX
>850N/mm²

K 31

GG

K 32

GGG
GTS-GTW

N 41

Alu

N 42

Alu
Si>10%

N 43

Mg

N 51

Cu

N 52

CuAlFe

N 61

PVC

N 62

GFK/CFK

S 71

Ni/Co

S 72

Ti

80-130
C

70-95
C

50-75
B

35-50
B

35-65
A

25-50
A

80-140
C

60-120
C

250-450
B

250-450
C

70-90
C

80-120
C

70-110
B

50-90
C

50-90
C

16-25
A

20-35
A

Ref.	d1	Type
75.680.1300	13	Gr.00
75.680.1350	13.5	Gr.00
75.680.1400	14	Gr.00
75.680.1450	14.5	Gr.00
75.680.1500	15	Gr.00
75.680.1550	15.5	Gr.05
75.680.1600	16	Gr.05
75.680.1650	16.5	Gr.05
75.680.1700	17	Gr.05
75.680.1750	17.5	Gr.05
75.680.1800	18	Gr.10

Ref.	d1	Type
75.680.1850	18.5	Gr.10
75.680.1900	19	Gr.10
75.680.1950	19.5	Gr.10
75.680.2000	20	Gr.10
75.680.2050	20.5	Gr.10
75.680.2100	21	Gr.10
75.680.2200	22	Gr.15
75.680.2300	23	Gr.15
75.680.2400	24	Gr.15
75.680.2500	25	Gr.20
75.680.2600	26	Gr.20

Ref.	d1	Type
75.680.2700	27	Gr.20
75.680.2800	28	Gr.20
75.680.2900	29	Gr.20
75.680.3000	30	Gr.25
75.680.3100	31	Gr.25
75.680.3200	32	Gr.25
75.680.3300	33	Gr.25
75.680.3400	34	Gr.25
75.680.3500	35	Gr.25

2x faster than HSS

2x faster than HSS

> 75.695 **Phantom**

Coolant ring



Ref.	Type	d1	d2	d3	d4	l1
75.695.0000	Gr. 00-05	19.05	44.45	M8	NPT 1/8	22.23
75.695.1200	Gr. 10-20	25.4	53.97	M8	NPT 1/8	28.57
75.695.2300	Gr. 25-35	31.75	63.5	M10	NPT 1/4	34.92
75.695.4000	Gr. 40-45	44.45	76.2	M10	NPT 1/4	34.92
75.695.5800	Gr.50	57.15	95.27	M12	NPT 1/2	44.45

> 75.697 **Phantom**

Blocking bar



Ref.	Type	d1	l1	Ref.	Type	d1	l1	Ref.	Type	d1	l1
75.697.0120	Gr. 00-20	M8	250	75.697.2340	Gr. 25-45	M10	250	75.697.5780	Gr.50	M12	250

> 75.698 **Phantom**

Torx screw



Ref.	Type	Contents	Ref.	Type	Contents	Ref.	Type	Contents
75.698.0400	Gr.00	M2,5X5,6 T8	75.698.1000	Gr. 10-15	M3X7,5 T9	75.698.3400	Gr. 30-45	M5X14 T20
75.698.0500	Gr.05	M2,5X6,9 T8	75.698.2000	Gr. 20-25	M4X10 T15	75.698.5800	Gr.50	M6X19 T25

ADVANTAGES PHANTOM INSERT DRILLS

- The inserts are easily replaceable
- Low cutting force due to split point and positive geometry
- Small chips thanks to geometry and chip splitter
- Internal cooling possible by means of the coolant ring
- For deep holes and internal cooling, less unloading and faster drilling



YOUR DEALER:

ORDER PLACED BEFORE 19:00 VIA PHANTOM.EU WILL BE SHIPPED THE SAME DAY.

Phantom is the A-brand of Van Ommen B.V. The products under this label are of extreme precision and top quality. From stock, Van Ommen B.V. supplies a complete range of machining and clamping tools for metalworking. View the most current range on www.phantom.eu.

THERE'S NO END TO WHAT YOU CAN DO.