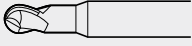

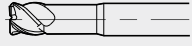







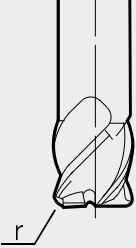


ENDMILLS/**CARBIDE**




CARBIDE /ENDMILLS

D X C 4 080 - 050 - 08 - R1

1	ENDMILL SERIES	2	HARDNESS	3	TYPE	4	FLUTE
D	Dream	G	General (HRC45)	B		2	
U	Ultra	X	Extreme (HRC55)	C		3	
		W	Wrath (HRC68)	F		4	
						6	

5	CUTTING DIA.	6	LENGTH (mm)	7	SHAFT DIA.	8	RADIUS
...		...		...		R.	

PVD ENDMILLS GRADES

MATERIAL	GRADE	Color	Operation
P/M/K	Dream General	DARK GRAY	General milling for steel up to 45HrC
			Ultra fine substrate, PVD coating
	Dream Extreme	COPPER	High cutting on hardened steel up to 55HrC
			Ultra fine substrate, PVD coating
	Dream Wraith	DARK BLUE	High cutting on hardened steel up to 68HrC
			Ultra fine substrate, PVD coating
N	Dream Aluminium	GRAY	General milling for aluminium and brass
			Ultra fine substrate

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

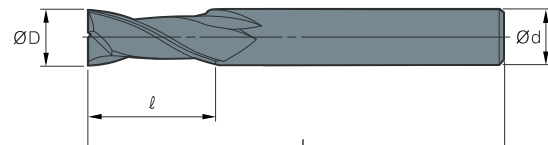
HSS
DRILLS & TAPSSPARE
PARTS


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CARBIDE /ENDMILLS

DGF

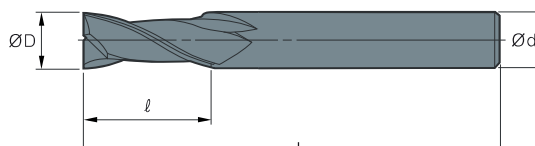
UP TO HRC45



	DESCRIPTION		STOCK	DIMENSIONS				
				ØD	Ød	l	L	r
	DGF	4010-050-04	●	1	4	3	50	-
		4010-050-06	●	1	6	3	50	-
		4015-050-03	●	1,5	3	4	50	-
		4015-050-04	●	1,5	4	4	50	-
		4015-050-06	●	1,5	6	4	50	-
		4020-050-03	●	2	3	6	50	-
		4020-050-04	●	2	4	6	50	-
		4020-050-06	●	2	6	6	50	-
		4025-050-04	●	2,5	4	8	50	-
		4025-050-06	●	2,5	6	8	50	-
		4030-050-03	●	3	3	8	50	-
		4030-050-04	●	3	4	8	50	-
		4030-050-06	●	3	6	8	50	-
		4030-075-03	●	3	3	8	75	-
		4030-100-03	●	3	3	8	100	-
		4035-050-04	●	3,5	4	11	50	-
		4035-050-06	●	3,5	6	11	50	-
		4040-050-04	●	4	4	11	50	-
		4040-050-06	●	4	6	11	50	-
		4040-075-04	●	4	4	20	75	-
		4040-100-04	●	4	4	20	100	-
		4045-050-06	●	4,5	6	11	50	-
		4050-050-05	●	5	5	13	50	-
		4050-050-06	●	5	6	13	50	-
		4050-075-05	●	5	5	20	75	-
		4050-100-05	●	5	5	20	100	-
		4055-050-06	●	5,5	6	13	50	-
		4060-050-06	●	6	6	15	50	-
		4060-060-06	●	6	6	15	60	-
		4060-075-06	●	6	6	20	75	-

DGF

UP TO HRC45



	DESCRIPTION		STOCK	DIMENSIONS				
				ØD	Ød	l	L	r
	DGF	4060-100-06	●	6	6	25	100	-
		4060-150-06	●	6	6	40	150	-
		4070-060-08	●	7	8	20	60	-
		4080-060-08	●	8	8	20	60	-
		4080-064-08	●	8	8	20	64	-
		4080-075-08	●	8	8	25	75	-
		4080-100-08	●	8	8	40	100	-
		4080-150-08	●	8	8	40	150	-
		4080-200-08	●	8	8	50	200	-
		4085-075-10	●	8.5	10	25	75	-
		4090-075-10	●	9	10	25	75	-
		4100-075-10	●	10	10	25	75	-
		4100-100-10	●	10	10	40	100	-
		4100-150-10	●	10	10	50	150	-
		4110-075-12	●	11	12	25	75	-
		4120-075-12	●	12	12	30	75	-
		4120-100-12	●	12	12	45	100	-
		4120-150-12	●	12	12	50	150	-
		4130-080-14	●	13	14	40	80	-
		4130-100-14	●	13	14	40	100	-
		4140-080-14	●	14	14	40	80	-
		4140-100-14	●	14	14	50	100	-
		4140-150-14	●	14	14	50	150	-
		4150-100-16	●	15	16	45	100	-
		4160-100-16	●	16	16	45	100	-
		4160-150-16	●	16	16	50	150	-
		4180-100-18	●	18	18	45	100	-
		4180-150-18	●	18	18	50	150	-
		4190-100-20	●	19	20	45	100	-
		4200-100-20	●	20	20	45	100	-
		4200-150-20	●	20	20	75	150	-

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

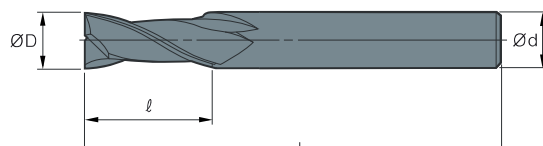
HSS
DRILLS & TAPS

SPARE
PARTS

INDEX

DXF

UP TO HRC55



	DESCRIPTION		STOCK	DIMENSIONS				
				ØD	Ød	l	L	r
	DXF	4060-100-06	●	6	6	25	100	-
		4060-150-06	●	6	6	40	150	-
		4070-060-08	●	7	8	20	60	-
		4080-060-08	●	8	8	20	60	-
		4080-064-08	●	8	8	20	64	-
		4080-075-08	●	8	8	25	75	-
		4080-100-08	●	8	8	40	100	-
		4080-150-08	●	8	8	40	150	-
		4090-075-10	●	9	10	25	75	-
		4100-075-10	●	10	10	25	75	-
		4100-100-10	●	10	10	40	100	-
		4100-150-10	●	10	10	50	150	-
		4110-075-12	●	11	12	25	75	-
		4120-075-12	●	12	12	30	75	-
		4120-083-12	●	12	12	30	83	-
		4120-100-12	●	12	12	45	100	-
		4120-150-12	●	12	12	50	150	-
		4130-100-14	●	13	14	40	100	-
		4140-080-14	●	14	14	40	80	-
		4140-100-14	●	14	14	50	100	-
		4140-150-14	●	14	14	50	150	-
		4150-100-16	●	15	16	45	100	-
		4160-100-16	●	16	16	45	100	-
		4160-150-16	●	16	16	50	150	-
		4180-100-18	●	18	18	45	100	-
		4180-150-18	●	18	18	50	150	-
		4200-100-20	●	20	20	45	100	-
		4200-150-20	●	20	20	75	150	-

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

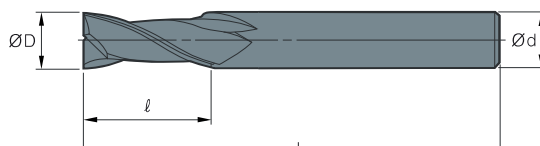
DRILLS

HSS
DRILLS & TAPS

SPARE
PARTS

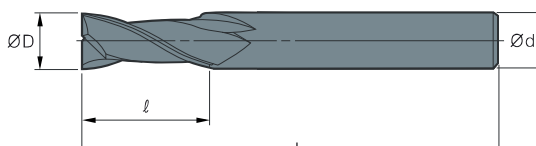
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UP TO HRC68

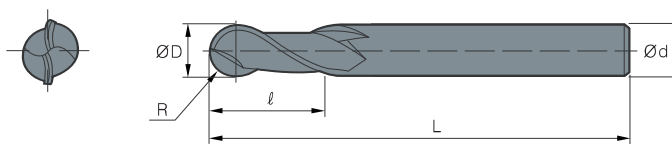


DWF

UP TO HRC68

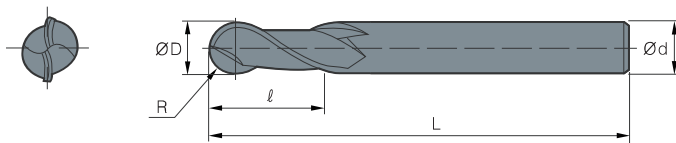
[illegible]

UP TO HRC45



DGB

UP TO HRC45



	DESCRIPTION		STOCK	DIMENSIONS				
				ØD	Ød	l	L	r
	DGB	2060-100-06	●	6	6	25	100	-
		2060-150-06	●	6	6	40	150	-
		2070-060-08	●	7	8	20	60	-
		2080-060-08	●	8	8	20	60	-
		2080-064-08	●	8	8	20	64	-
		2080-075-08	●	8	8	25	75	-
		2080-100-08	●	8	8	40	100	-
		2080-150-08	●	8	8	40	150	-
		2090-075-10	●	9	10	25	75	-
		2100-075-10	●	10	10	25	75	-
		2100-100-10	●	10	10	40	100	-
		2100-150-10	●	10	10	50	150	-
		2120-075-12	●	12	12	30	75	-
		2120-100-12	●	12	12	45	100	-
		2120-150-12	●	12	12	50	150	-
		2130-100-14	●	13	14	50	100	-
		2140-080-14	●	14	14	40	80	-
		2140-100-14	●	14	14	50	100	-
		2140-150-14	●	14	14	50	150	-
		2150-100-16	●	15	16	45	100	-
		2160-100-16	●	16	16	45	100	-
		2160-150-16	●	16	16	50	150	-
		2170-100-18	●	17	18	45	100	-
		2180-100-18	●	18	18	45	100	-
		2180-150-18	●	18	18	50	150	-
		2200-100-20	●	20	20	45	100	-
		2200-150-20	●	20	20	75	150	-
		4060-050-06	●	6	6	15	50	-
		4080-060-08	●	8	8	16	60	-
		4080-075-08	●	8	8	16	75	-
		4080-100-08	●	8	8	16	100	-
		4100-100-10		10	10	20	100	-

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

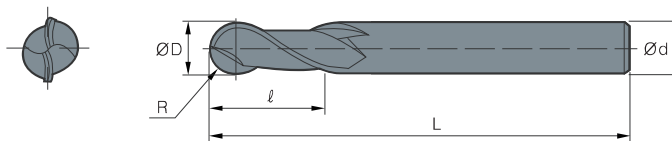
DRILLS

HSS
DRILLS & TAPS

SPARE
PARTS

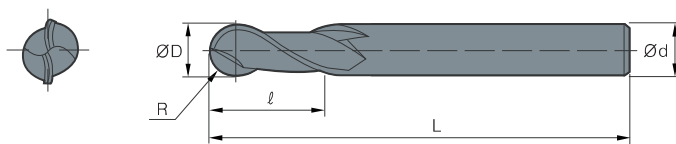
INDEX

UP TO HRC55

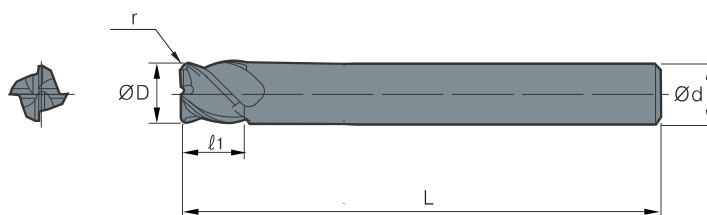
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DWB

UP TO HRC68

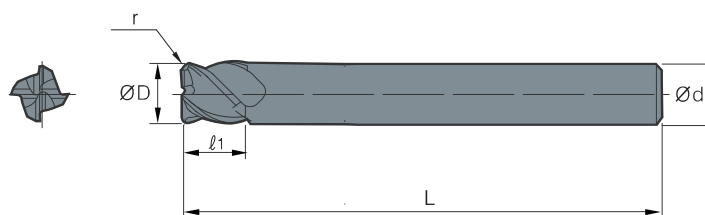
[illegible]

UP TO HRC45

[illegible]

DGC

UP TO HRC45



	DGC	DESCRIPTION	STOCK	DIMENSIONS				
				ØD	Ød	l	L	r
		4060-050-06-R1.0	●	6	6	15	50	1.0
		4060-075-06-R0.5	●	6	6	15	75	0.5
		4060-075-06-R1.0	●	6	6	15	75	1.0
		4060-100-06-R0.5	●	6	6	15	100	0.5
		4060-100-06-R1.0	●	6	6	15	100	1.0
		4060-150-06-R0.5	●	6	6	15	150	0.5
		4060-150-06-R1.0	●	6	6	15	150	1.0
		4070-060-08-R0.5	●	7	8	20	60	0.5
		4070-060-08-R1.0	●	7	8	20	60	1.0
		4080-060-08-R0.5	●	8	8	20	60	0.5
		4080-060-08-R1.0	●	8	8	20	60	1.0
		4080-075-08-R0.5	●	8	8	20	75	0.5
		4080-075-08-R1.0	●	8	8	20	75	1.0
		4080-100-08-R0.5	●	8	8	20	100	0.5
		4080-100-08-R1.0	●	8	8	20	100	1.0
		4080-150-08-R0.5	●	8	8	20	150	0.5
		4080-150-08-R1.0	●	8	8	20	150	1.0
		4090-075-10-R0.5	●	9	10	25	75	0.5
		4090-075-10-R1.0	●	9	10	25	75	1.0
		4100-075-10-R0.5	●	10	10	25	75	0.5
		4100-075-10-R1.0	●	10	10	25	75	1.0
		4100-100-10-R0.5	●	10	10	25	100	0.5
		4100-100-10-R1.0	●	10	10	25	100	1.0
		4100-150-10-R0.5	●	10	10	25	150	0.5
		4100-150-10-R1.0	●	10	10	25	150	1.0

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

HSS
DRILLS & TAPS

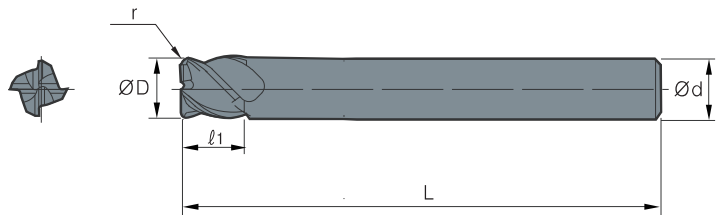
SPARE
PARTS

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CARBIDE /ENDMILLS

DGC

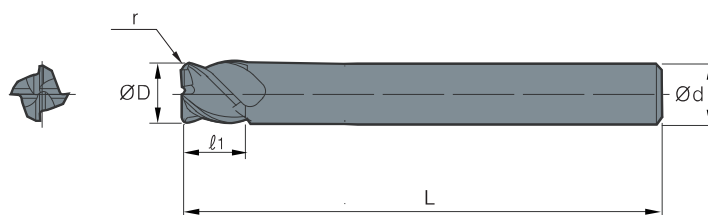
UP TO HRC45




	DESCRIPTION		STOCK	DIMENSIONS				
				ØD	Ød	l	L	r
	DGC	4120-075-12-R0.5	●	12	12	30	75	0.5
		4120-075-12-R1.0	●	12	12	30	75	1.0
		4120-100-12-R0.5	●	12	12	30	100	0.5
		4120-100-12-R1.0	●	12	12	30	100	1.0
		4120-100-12-R2.0	●	12	12	24	100	2.0
		4120-150-12-R0.5	●	12	12	30	150	0.5
		4120-150-12-R1.0	●	12	12	30	150	1.0
		4140-080-14-R0.5	●	14	14	30	80	0.5
		4140-080-14-R1.0	●	14	14	30	80	1.0
		4140-100-14-R0.5	●	14	14	30	100	0.5
		4140-100-14-R1.0	●	14	14	30	100	1.0
		4140-150-14-R0.5	●	14	14	30	150	0.5
		4140-150-14-R1.0	●	14	14	30	150	1.0
		4160-100-16-R0.5	●	16	16	30	100	0.5
		4160-100-16-R1.0	●	16	16	30	100	1.0
		4160-150-16-R0.5	●	16	16	30	150	0.5
		4160-150-16-R1.0	●	16	16	30	150	1.0
		4180-100-18-R0.5	●	18	18	30	100	0.5
		4180-100-18-R1.0	●	18	18	30	100	1.0
		4180-150-18-R0.5	●	18	18	30	150	0.5
		4180-150-18-R1.0	●	18	18	30	150	1.0
		4200-100-20-R0.5	●	20	20	30	100	0.5
		4200-100-20-R1.0	●	20	20	30	100	1.0
		4200-150-20-R0.5	●	20	20	30	150	0.5
		4200-150-20-R1.0	●	20	20	30	150	1.0

DXC

UP TO HRC55



	DESCRIPTION		STOCK	DIMENSIONS				
				ØD	Ød	l	L	r
	DXC	4020-050-04-R0.5	●	2	4	6	50	0.5
		4020-050-06-R0.5	●	2	6	6	50	0.5
		4030-050-03-R0.5	●	3	3	8	50	0.5
		4030-050-03-R1.0	●	3	3	8	50	1.0
		4030-050-04-R0.5	●	3	4	8	50	0.5
		4030-050-04-R1.0	●	3	4	8	50	1.0
		4030-050-06-R0.5	●	3	6	8	50	0.5
		4030-050-06-R1.0	●	3	6	8	50	1.0
		4030-075-03-R0.5	●	3	3	8	75	0.5
		4030-075-03-R1.0	●	3	3	8	75	1.0
		4030-075-04-R0.5	●	3	4	5	75	0.5
		4030-100-03-R0.5	●	3	3	8	100	0.5
		4030-100-03-R1.0	●	3	3	8	100	1.0
		4040-050-04-R0.5	●	4	4	11	50	0.5
		4040-050-04-R1.0	●	4	4	11	50	1.0
		4040-050-06-R0.5	●	4	6	11	50	0.5
		4040-050-06-R1.0	●	4	6	11	50	1.0
		4040-075-04-R0.5	●	4	4	11	75	0.5
		4040-075-04-R1.0	●	4	4	11	75	1.0
		4040-100-04-R0.5	●	4	4	11	100	0.5
		4040-100-04-R1.0	●	4	4	11	100	1.0
		4050-050-05-R0.5	●	5	5	13	50	0.5
		4050-050-05-R1.0	●	5	5	13	50	1.0
		4050-050-06-R0.5	●	5	6	13	50	0.5
		4050-050-06-R1.0	●	5	6	13	50	1.0
		4050-075-05-R0.5	●	5	5	13	75	0.5
		4050-075-05-R1.0	●	5	5	13	75	1.0
		4050-100-05-R0.5	●	5	5	13	100	0.5
		4050-100-05-R1.0	●	5	5	13	100	1.0
		4060-050-06-R0.5	●	6	6	15	50	0.5

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

HSS
DRILLS & TAPS

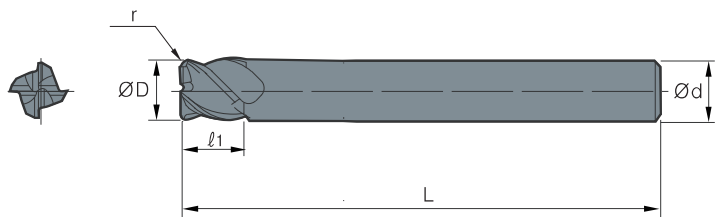
SPARE
PARTS


INDEX

CARBIDE /ENDMILLS

DXC

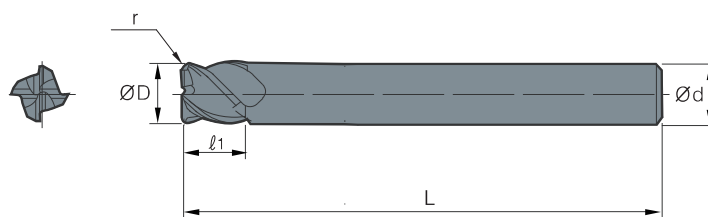
UP TO HRC55




	DESCRIPTION		STOCK	DIMENSIONS				
				ØD	Ød	l	L	r
	DXC	4060-050-06-R1.0	●	6	6	15	50	1.0
		4060-075-06-R0.5	●	6	6	15	75	0.5
		4060-075-06-R1.0	●	6	6	15	75	1.0
		4060-100-06-R0.5	●	6	6	15	100	0.5
		4060-100-06-R1.0	●	6	6	15	100	1.0
		4060-150-06-R0.5	●	6	6	15	150	0.5
		4060-150-06-R1.0	●	6	6	15	150	1.0
		4070-060-08-R0.5	●	7	8	20	60	0.5
		4070-060-08-R1.0	●	7	8	20	60	1.0
		4080-060-08-R0.5	●	8	8	20	60	0.5
		4080-060-08-R1.0	●	8	8	20	60	1.0
		4080-060-08-R2.0	●	8	8	20	60	2.0
		4080-064-08-R0.5	●	8	8	20	64	0.5
		4080-064-08-R1.0	●	8	8	20	64	1.0
		4080-075-08-R0.5	●	8	8	20	75	0.5
		4080-075-08-R1.0	●	8	8	20	75	1.0
		4080-100-08-R0.5	●	8	8	20	100	0.5
		4080-100-08-R1.0	●	8	8	20	100	1.0
		4080-150-08-R0.5	●	8	8	20	150	0.5
		4080-150-08-R1.0	●	8	8	20	150	1.0
		4090-075-10-R0.5	●	9	10	25	75	0.5
		4090-075-10-R1.0	●	9	10	25	75	1.0
		4100-075-10-R0.5	●	10	10	25	75	0.5
		4100-075-10-R1.0	●	10	10	25	75	1.0
		4100-075-10-R2.0	●	10	10	20	75	2.0
		4100-100-10-R0.5	●	10	10	25	100	0.5
		4100-100-10-R1.0	●	10	10	25	100	1.0
		4100-150-10-R0.5	●	10	10	25	150	0.5
		4100-150-10-R1.0	●	10	10	25	150	1.0

DXC

UP TO HRC55



	DESCRIPTION		STOCK	DIMENSIONS				
				ØD	Ød	l	L	r
	DXC	4120-075-12-R0.5	●	12	12	30	75	0.5
		4120-075-12-R1.0	●	12	12	30	75	1.0
		4120-075-12-R2.0	●	12	12	20	75	2.0
		4120-083-12-R0.5	●	12	12	20	83	0.5
		4120-083-12-R1.0	●	12	12	20	83	1.0
		4120-100-12-R0.5	●	12	12	30	100	0.5
		4120-100-12-R1.0	●	12	12	30	100	1.0
		4120-150-12-R0.5	●	12	12	30	150	0.5
		4120-150-12-R1.0	●	12	12	30	150	1.0
		4140-080-14-R0.5	●	14	14	30	80	0.5
		4140-080-14-R1.0	●	14	14	30	80	1.0
		4140-100-14-R0.5	●	14	14	30	100	0.5
		4140-100-14-R1.0	●	14	14	30	100	1.0
		4140-150-14-R0.5	●	14	14	30	150	0.5
		4140-150-14-R1.0	●	14	14	30	150	1.0
		4160-100-16-R0.5	●	16	16	30	100	0.5
		4160-100-16-R1.0	●	16	16	30	100	1.0
		4160-150-16-R0.5	●	16	16	30	150	0.5
		4160-150-16-R1.0	●	16	16	30	150	1.0
		4180-100-18-R0.5	●	18	18	30	100	0.5
		4180-100-18-R1.0	●	18	18	30	100	1.0
		4180-150-18-R0.5	●	18	18	30	150	0.5
		4180-150-18-R1.0	●	18	18	30	150	1.0
		4200-100-20-R0.5	●	20	20	30	100	0.5
		4200-100-20-R1.0	●	20	20	30	100	1.0
		4200-150-20-R0.5	●	20	20	30	150	0.5
		4200-150-20-R1.0	●	20	20	30	150	1.0

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

HSS
DRILLS & TAPS

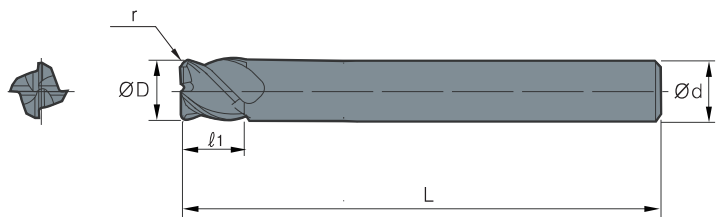
SPARE
PARTS


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CARBIDE /ENDMILLS

DWC

UP TO HRC68

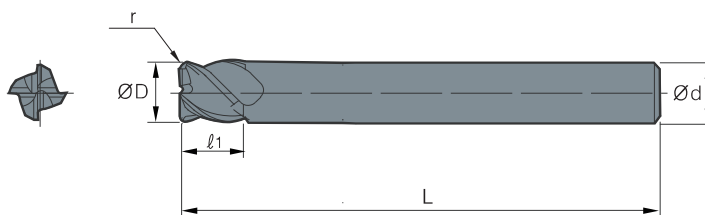


	DESCRIPTION		STOCK	DIMENSIONS					
				ØD	Ød	l	L	r	
	DWC	4020-050-04-R0.5	●	2	4	6	50	0.5	
		4020-050-06-R0.5	●	2	6	6	50	0.5	
		4030-050-03-R0.5	●	3	3	8	50	0.5	
		4030-050-03-R1.0	●	3	3	8	50	1.0	
		4030-050-04-R0.5	●	3	4	8	50	0.5	
		4030-050-04-R1.0	●	3	4	8	50	1.0	
		4030-050-06-R0.5	●	3	6	8	50	0.5	
		4030-050-06-R1.0	●	3	6	8	50	1.0	
		4040-050-04-R0.5	●	4	4	11	50	0.5	
		4040-050-04-R1.0	●	4	4	11	50	1.0	
		4040-050-06-R0.5	●	4	6	11	50	0.5	
		4040-050-06-R1.0	●	4	6	11	50	1.0	
		4040-075-04-R0.5	●	4	4	11	75	0.5	
		4040-075-04-R1.0	●	4	4	11	75	1.0	
		4040-100-04-R0.5	●	4	4	11	100	0.5	
		4040-100-04-R1.0	●	4	4	11	100	1.0	
		4030-075-03-R0.5	●	3	3	20	75	0.5	
		4030-075-03-R1.0	●	3	3	20	75	1.0	
		4030-100-03-R0.5	●	3	3	20	100	0.5	
		4030-100-03-R1.0	●	3	3	20	100	1.0	
		4050-050-05-R0.5	●	5	5	13	50	0.5	
		4050-050-05-R1.0	●	5	5	13	50	1.0	
		4050-050-06-R0.5	●	5	6	13	50	0.5	
		4050-050-06-R1.0	●	5	6	13	50	1.0	
		4050-075-05-R0.5	●	5	5	13	75	0.5	
		4050-075-05-R1.0	●	5	5	13	75	1.0	
		4050-100-05-R0.5	●	5	5	13	100	0.5	
		4050-100-05-R1.0	●	5	5	13	100	1.0	
			4060-050-06-R0.5	●	6	6	15	50	0.5

TURNING

DWC

UP TO HRC68



GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

**HSS
DRILLS & TAPS**

SPARE
PARTS

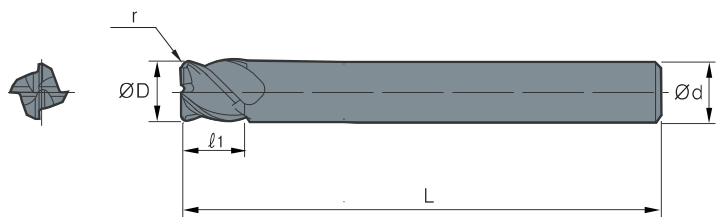
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[illegible]

CARBIDE /ENDMILLS

DWC

UP TO HRC68



		DESCRIPTION	STOCK	DIMENSIONS				
				ØD	Ød	l	L	r
	DWC	4120-075-12-R0.5	●	12	12	30	75	0.5
		4120-075-12-R1.0	●	12	12	30	75	1.0
		4120-100-12-R0.5	●	12	12	30	100	0.5
		4120-100-12-R1.0	●	12	12	30	100	1.0
		4120-150-12-R0.5	●	12	12	30	150	0.5
		4120-150-12-R1.0	●	12	12	30	150	1.0
		4140-080-14-R0.5	●	14	14	30	80	0.5
		4140-080-14-R1.0	●	14	14	30	80	1.0
		4140-100-14-R0.5	●	14	14	30	100	0.5
		4140-100-14-R1.0	●	14	14	30	100	1.0
		4140-150-14-R0.5	●	14	14	30	150	0.5
		4140-150-14-R1.0	●	14	14	30	150	1.0
		4160-100-16-R0.5	●	16	16	30	100	0.5
		4160-100-16-R1.0	●	16	16	30	100	1.0
		4160-150-16-R0.5	●	16	16	30	150	0.5
		4160-150-16-R1.0	●	16	16	30	150	1.0
		4180-100-18-R0.5	●	18	18	30	100	0.5
		4180-100-18-R1.0	●	18	18	30	100	1.0
		4180-150-18-R0.5	●	18	18	30	150	0.5
		4180-150-18-R1.0	●	18	18	30	150	1.0
		4200-100-20-R0.5	●	20	20	30	100	0.5
		4200-100-20-R1.0	●	20	20	30	100	1.0
		4200-150-20-R0.5	●	20	20	30	150	0.5
		4200-150-20-R1.0	●	20	20	30	150	1.0

Technical drawing of a drill bit. The drawing shows the side profile of the bit with a dashed centerline. The cutting edge length is labeled l and the diameter is labeled $\varnothing d$.

UNCOATED CARBIDE

