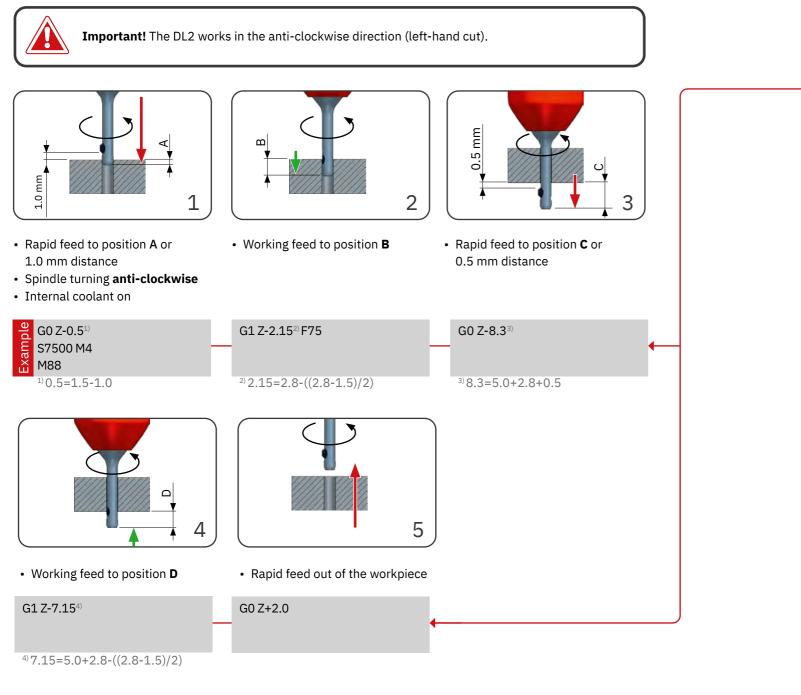
### **DL2 PROCESS STEPS**



### **DIMENSION TABLE** PROGRAMMING

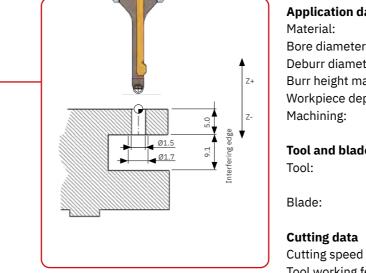
Tool	A	В	С	D
DL2	0.5 mm	2.15 mm	3.3 mm	2.15 mm

IMF
Obs
De

PORTANT! serve max. working length

Bore Ø range	max. working length
1.00–1.05 mm	3.00 mm
1.10–1.35 mm	4.00 mm
1.40–1.45 mm	5.00 mm
1.50–1.60 mm	6.00 mm
1.65–1.70 mm	7.00 mm
1.75–1.80 mm	8.00 mm
1.85–1.90 mm	9.00 mm
1.95–2.10 mm	10.00 mm

## **APPLICATION AND PROGRAMMING EXAMPLE**



Deburr diamete Burr height ma Workpiece dep Machining: **Tool and blade selection** Tool:

Blade:

### **Cutting data** Cutting speed

Tool working f

# **CUTTING DATA**

	Description		Tensile str. Hardness	Hardn.	DL2		
		RM (MPa)	(HB)	(HRC)	vc	FZ	в*
P0	Low-carbon steel, long-chipping, C <0.25%	<530	<125	-	30-50	0.005-0.015	A
P1	Low-carbon steel, short-chipping, C <0.25%	<530	<125	-	30-50	0.005-0.015	A
P2	Steel with carbon content C >0.25%	>530	<220	<25	30-50	0.005-0.015	A
P3	Alloy steel and tool steel, C >0.25%	600-850	<330	<35	30-50	0.005-0.015	A
P4	Alloy steel and tool steel, C >0.25%	850-1400	340-450	35–48	25-45	0.005-0.015	A
P5	Ferritic, martensitic and stainless PH steel	600-900	<330	<35	20–40	0.005-0.015	A
P6	High-strength ferritic, martensitic and PH stainless steel	900-1350	350–450	35–48	20-40	0.005-0.015	A
M1	Austenitic stainless steel	<600	130-200	-	15-30	0.005-0.015	A
M2	High-strength austenitic stainless steel	600-800	150-230	<25	15-30	0.005-0.015	A
M3	Duplex stainless steel	<800	135–275	<30	15-30	0.005-0.015	A
K1	Cast iron	125-500	120-290	<32	40-60	0.005-0.015	A
K2	Ductile cast iron with up to medium strength	<600	130-260	<28	40-60	0.005-0.015	A
K3	High-strength cast iron and bainitic cast iron	>600	180-350	<43	40-60	0.005-0.015	D
N1	Wrought aluminium alloys	-	-	-	60-80	0.005-0.015	D
N2	Aluminium alloys with low Si content	-	-	-	60-80	0.005-0.015	D
N3	Aluminium alloys with high Si content	-	-	-	60-80	0.005-0.015	D
N4	Copper, brass and zinc base	-	-	-	50-60	0.005-0.015	D
S1	Iron-based heat-resistant alloys	500-1200	160-260	25–48	20-40	0.005-0.015	A
S2	Cobalt-based heat-resistant alloys	1000-1450	250-450	25–48	10-15	0.005-0.015	A
S3	Nickel-based heat-resistant alloys	600-1700	160-450	<48	10-15	0.005-0.015	A
S4	Titanium and titanium alloys	900-1600	300-400	33–48	10-15	0.005-0.015	A

\* coating for blades



The cutting data listed are guide values! For materials that are difficult to machine or slightly uneven bore edges, we recommend applying cutting speeds that are at the lower end of the range.

С	D

#### **Application data**

	Steel C45
r:	Ø1.5 mm
ter:	Ø1.7 mm
ax.	0.1 mm
pth:	5.0 mm
	both bore edges

DL2/1.5/06
Tool diameter: 1.45 mm
DL2-M-0164-A (HM, Latuma coated)

V <sub>c</sub> :	30–50 m/min.
eed:	0.005-0.015 mm/rev