



Spring loaded plotter pen for CNC routers

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ECOCAM CNC - Inh. R. Skowron

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1. General description

The ECOCAM PLOTBIT is a spring-loaded plotter pen that can be used for drawing applications with CNC routers.

Neither a special mounting nor a separate height compensation is necessary for the use of the PLOTBIT. The drawing tip can compensate height differences to the drawing surface of up to 5mm.

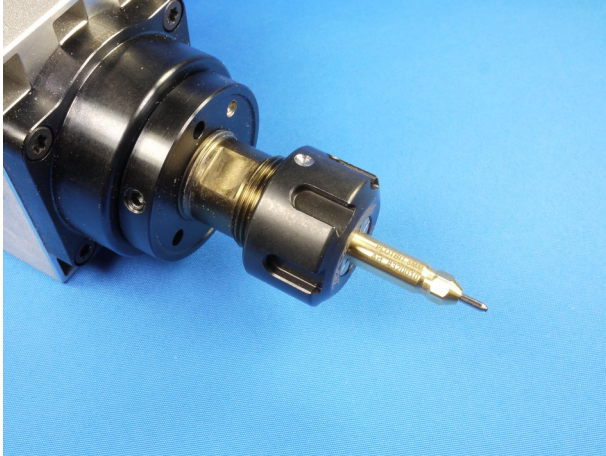


Despite its small dimensions, the PLOTBIT is equipped with a precise large-capacity refill that is available in various colors and line widths.

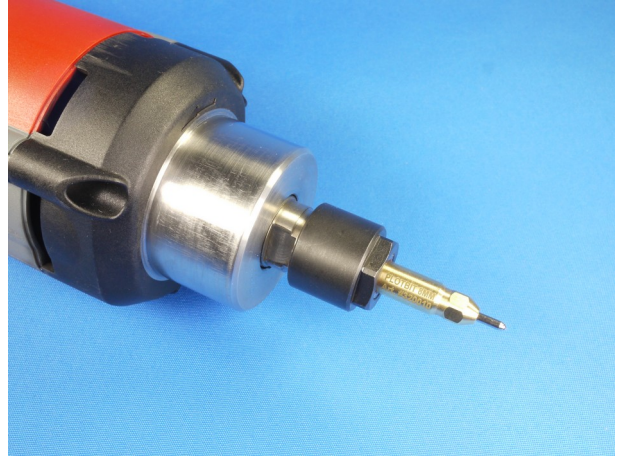
Due to the compact housing dimensions and because of the length of only 65 mm, the PLOTBIT can be used in all common tool holders instead of a milling cutter or drill.

1.1 Mounting examples

ER20-collet of a milling motor



collet of a router



SK40 tool holder



VDI30 tool holder



Warning !



The ECOCAM PLOTBIT is intended exclusively for non-rotating use. This means that the milling spindle must not rotate while the PLOTBIT is in use. There is a risk of injury from flying parts. The PLOTBIT or the medium to be marked could also be damaged.

1.2 Operating notes

The ECOCAM PLOTBIT is intended to be used as a plotter pen in CNC-controlled systems. This means that CNC milling machines can be used for plotting even large-format drawings without extensive conversion work.

The spring-loaded drawing tip can be immersed approx. 5mm deep in the housing. Due to the spring design, the pressure force can also be influenced in this way. The pressure force should be reduced as the material thickness of the paper or drawing board used decreases in order to avoid damaging the drawing paper or board.

For precise results, the material used must be fixed on a vacuum table with an appropriate drawing pad or cutting mat (e.g.: ECOCAM EC4 Art. #230200).



Warning !



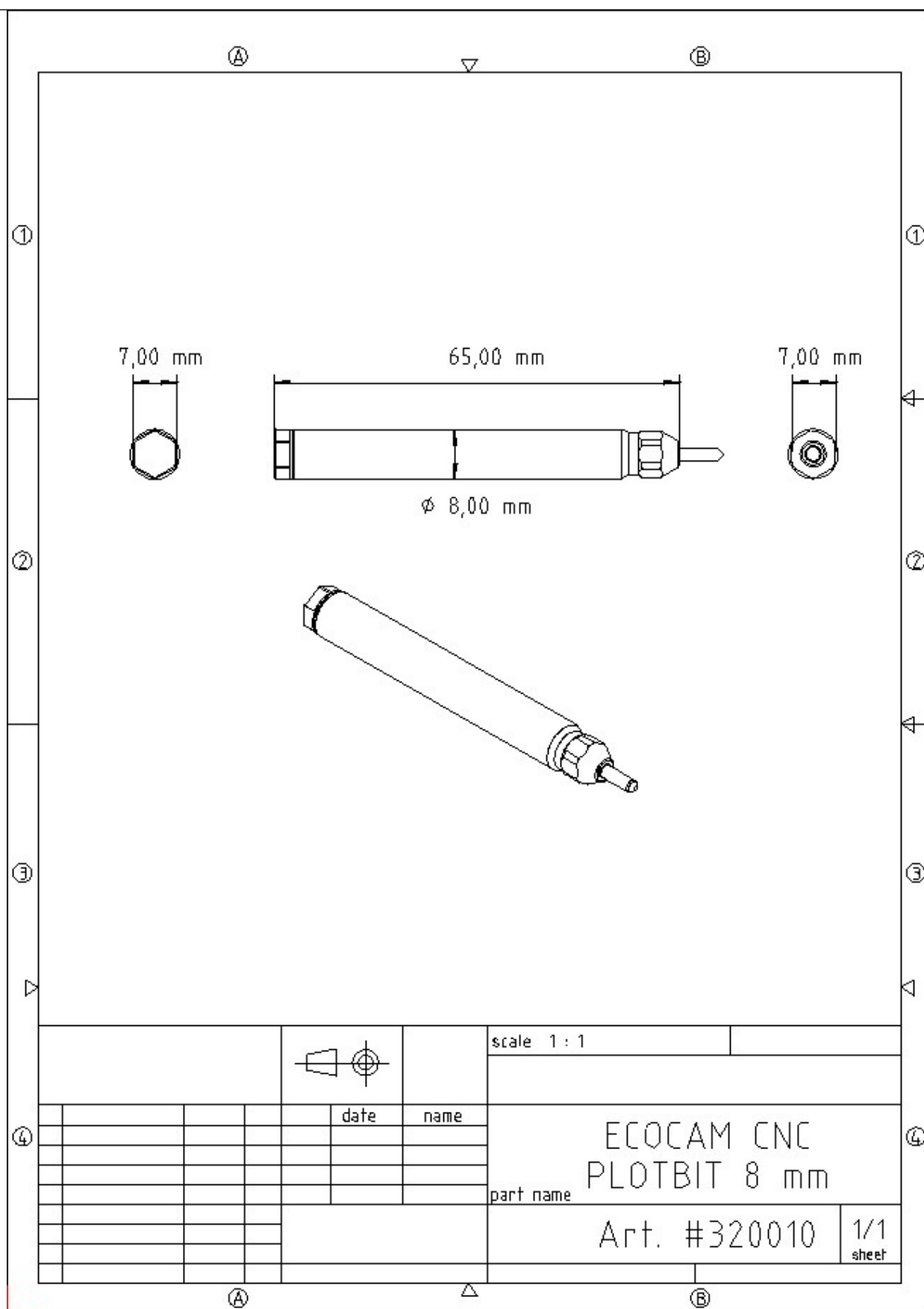
The immersion depth of the drawing tip must never exceed the maximum spring travel of 5 mm. Otherwise, drawing paper or board, the drawing tip, the PLOTBIT, the drawing pad, the vacuum table or the milling spindle could be damaged.

2. Technical data

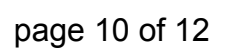
2.1 Available sizes and data

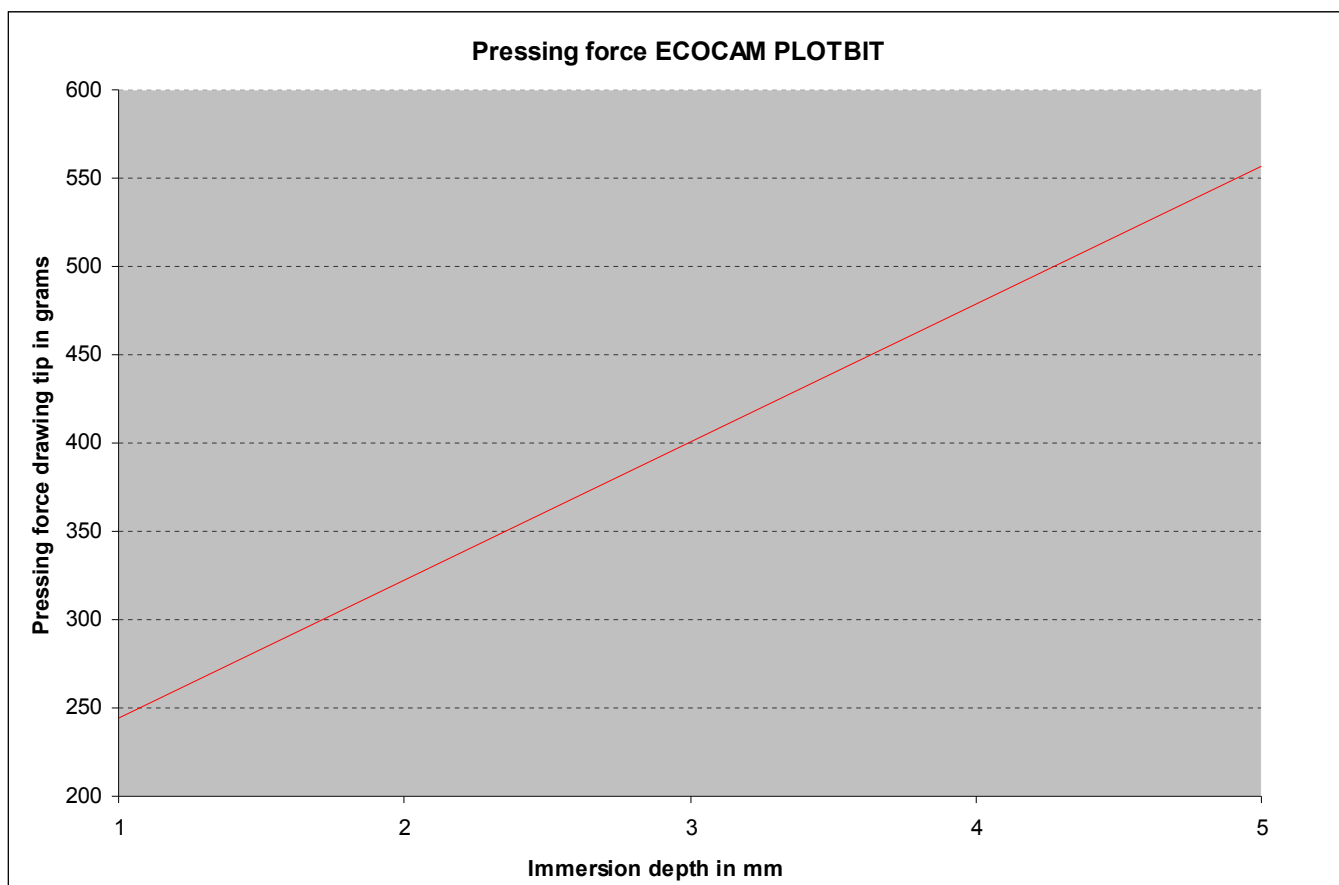
	#320010 PLOTBIT 8 mm	# 320020 PLOTBIT 10 mm	# 320030 PLOTBIT 3/8 Inch (≈9,52 mm)
			
Housing length without drawing tip	65 mm		
Housing length with drawing tip	71,5 mm		
Max. spring travel	5 mm		
Housing diameter	8 mm	10 mm	3/8 Zoll ≈ 9,52mm
Weight with refill	16g	29g	26g
Hexagon on the front	7mm	8mm	
Hexagon screw cap back side	7mm	8mm	

2.2 Dimensional drawing PLOTBIT 8 mm - #320010



2.3 Dimensional drawing PLOTBIT 10 mm - #320020



2.5 Diagram pressure force / immersion depth**Warning !**

The immersion depth of the drawing tip must never exceed the maximum spring travel of 5 mm. Otherwise, drawing paper or board, the drawing tip, the PLOTBIT, the drawing pad, the vacuum table or the milling spindle could be damaged.

3. Accessories / Spare refills

Item number	Description	
320110	Large capacity refill for ECOCAM PLOTBIT Color : BLUE Tip size : FINE	
320120	Large capacity refill for ECOCAM PLOTBIT Color : BLUE Tip size : MEDIUM	
320130	Large capacity refill for ECOCAM PLOTBIT Colour : BLUE Tip size : Broad	
320140	Large capacity refill for ECOCAM PLOTBIT Color : BLACK Tip size : FINE	
320150	Large capacity refill for ECOCAM PLOTBIT Color : BLACK Tip size : MEDIUM	
320160	Large capacity refill for ECOCAM PLOTBIT Color : BLACK Tip size : BROAD	