

# Cutting machine D 80 ECO

Programmable cutter with hydraulic drive  
and 5,5" monochrome display



## Description of the POLAR D 80 ECO

The cutter POLAR 80 is designed for one-shift operation. The precise and gentle swing cut is carried out hydraulically. Thus, the time of the knife spent in the lower dead end can be adapted to the material. The ultra-smooth stainless table surface equipped with air jets allows an easy handling of the material. Within a wide setting range the clamping pressure can be adjusted infinitely to each cutting material by means of a turning knob with scale. Bright LEDs mark the cutting line clearly visible for the operator. The operation of the machine is done via an ergonomically positioned control panel with 5.5" monochrome display and additional membrane keypad. Recurring cutting sequences can be memorized (memory capacity 198 programs) and adapted at any time. The creation of the cutting programs is done either manually or menu-driven and intuitively via block programming. To optimize the cutting quality the pre-clamping time can be adjusted according to the material.

## Customer benefits

- Extensive programming options with a memory capacity of 198 programs
- Easy knife change with automatic interruption in the lower dead end and knife fine adjustment from the front
- Machine frame with optimized stability for optimum absorption of cutting forces and greatest cutting accuracy
- Minimal maintenance requirements due to the use of novel material

## Technical data

Cutting width	800 mm 31.50 in
Feeding depth	800 mm 31.50 in
Feeding height max.	100 mm 3.94 in
Clamp pressure min.	180 daN 397 lbs
Clamp pressure max.	2,700 daN 5,952 lbs
Backgauge speed on return way (0 - ...)	130 mm/sec 5.12 in/sec
Smallest cut, automatically, without false plate	15 mm 0.59 in
Smallest cut, automatically, with false plate	50 mm 1.97 in
Dimensions (w × d × h)	1,500 × 1,970 × 1,500 mm 61.02 × 77.56 × 59.06 in
Weight	900 kg 1,984 lbs
Electrical power input (apparent power)	4.0 kVA

Further technical data are available for download on our website.



Edition: 05.2019 \ Subject to technical alterations.

# Cutting Machine D 80 PLUS

Hydraulic cutter with 18.5" touch-screen display  
and process visualization



Edition: 05.2019 \ Subject to technical alterations.

## Description of the Polar D 80 PLUS

The cutter POLAR 80 is designed for one-shift operation. The precise and gentle swing cut is carried out hydraulically. Thus, the time of the knife spent in the lower dead end can be adapted to the material. The ultra-smooth stainless table surface equipped with air jets allows an easy handling of the material. Within a wide setting range the clamping pressure can be adjusted infinitely to each cutting material by means of a turning knob with scale. Bright LEDs mark the cutting line clearly visible for the operator. The operation of the machine is done via an ergonomically positioned 18.5" touch-screen display. Recurring cutting sequences can be memorized (memory capacity 1,998 programs) and adapted at any time. With the process visualization the handling of the material is displayed graphically and so the risk of errors significantly downsized. To optimize the cutting quality the pre-clamping time can be adjusted according to the material. Optionally, the machine can be integrated into the digital workflow via P-NET Compucut

## Customer benefits

- Process visualization for the graphical display of the material handling to minimize the risk of errors
- Greatest cutting accuracy due to the POLAR-Positioning-System DPS
- Extended operating life of the knife as well as faster knife change thanks to POLAR OptiKnife with knife fine adjustment in the lower dead end
- Machine frame with optimized stability for optimum absorption of cutting forces and greatest cutting accuracy

## Technical data

Cutting width	800 mm   31.50 in
Feeding depth	800 mm   31.50 in
Feeding height max.	100 mm   3.94 in
Clamp pressure min.	180 daN   397 lbs
Clamp pressure max.	2,700 daN   5,952 lbs
Backgauge speed on return way (0 - ...)	130 mm/sec 5.12 in/sec
Smallest cut, automatically, without false plate	15 mm 0.59 in
Smallest cut, automatically, with false plate	50 mm 1.97 in
Dimensions (w × d × h)	1,500 × 1,970 × 1,500 mm 61.02 × 77.56 × 59.06 in
Weight	900 kg   1,984 lbs
Electrical power input (apparent power)	4.0 kVA

Further technical data are available for download on our website.