

High-Speed Cutter POLAR N 176 PLUS

the programmable all-round model
with 18.5" color-display



Edition: 05.2019 \ Subject to technical alterations.

Description POLAR N 176 PLUS

This allrounder with 18.5" color display and touch-screen operation is suitable for all standard cutting jobs. It features automatic graphic programming to ensure a highly-automated process.

Examples of equipment: Graphic operator guidance, with various language packages. Change-over measurement system (metric, inch or shaku). Configurable user interface, OptiKnife knife changing system and many other features.

The High-Speed Cutter POLAR N 176 is mainly used in the large-size range. Formats up to a diagonal of 1,760 mm can be easily handled and turned in the high-speed cutter. Cutting material with larger formats can only be turned on the front table. The High-Speed Cutter can be upgraded with peripheral equipment (lift, jogger, buffer, transport grippers, loading and unloading system) to a cutting system.

Customer benefits

- 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
- High productivity by a great number of programmable additional functions
- Shortest make ready times thanks to intuitive cutting program generation via block programming or even Compucut
- Greatest cutting accuracy due to the POLAR-Positioning-System DPS with a mechanical positioning accuracy of 1/100 mm

- Highly reliable in daily use and long lifespan as a result of the stability of the one-piece machine frame, knife drive with worm gear drive and compact closed hydraulic system

Technical data

Cutting width	1,760 mm 69.29 in
Feeding depth	2,250 mm 88.58 in
Loading height max.	165 mm 6.50 in
Safety clamp pressure	50 daN 110 lbs
Clamp pressure, min	150 daN 331 lbs
Clamp pressure, max	7,000 daN 15,432 lbs
Backgauge speed on return way (0 - ...)	1,600 mm/sec 59.06 in/sec
Knife speed	45 cycles/min
Smallest cut, automatically, without false plate	35 mm 1.38 in
Smallest cut, automatically, with false plate	120 mm 4.72 in

Further technical data are available for download on our website.

High-Speed Cutter POLAR N 176 PRO HD

the programmable high performance model
with a capacitive 21.5" Touch-Screen display



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Description POLAR N 176 PRO HD

The programmable high performance model with a capacitive 21.5" Touch-Screen display and real image preview is ideal for high-end applications - thanks to job specific programmable parameter, label and distortion correction as well as an extended range of options.

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Customer benefits

- 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
- The automatic trim removal can increase your productivity up to 30%
- Shortest make ready times thanks to intuitive cutting program generation via block programming or even Compucut
- Greatest cutting accuracy due to the POLAR-Positioning-System DPS with a mechanical positioning accuracy of 1/100 mm
- Highly reliable in daily use and long lifespan as a result of the stability of the one-piece machine frame, knife drive with worm gear drive and compact closed hydraulic system

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Smallest cut, automatically, without false plate	35 mm 1.38 in
Smallest cut, automatically, with false plate	120 mm 7.72 in

Further technical data are available for download on our website.

High-Speed Cutter POLAR N 176 AT HD

the programmable high performance model
with automatic trim removal



Edition: 05.2019 \ Subject to technical alterations.

Description POLAR N 176 AT HD

Our model N 176 AT HD is the most-efficient model of this type of high-speed cutter featuring automatic waste disposal during the cutting process.

The High-Speed Cutter POLAR N 176 is mainly used in the large-size range. Formats up to a diagonal of 1,760 mm can be easily handled and turned in the high-speed cutter. Cutting material with larger formats can only be turned on the front table. The High-Speed Cutter can be upgraded with peripheral equipment (lift, jogger, buffer, transport grippers, loading and unloading system) to a cutting system.

Customer benefits

- 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
- The automatic trim removal can increase your productivity up to 30%
- Shortest make ready times thanks to intuitive cutting program generation via block programming or even Compucut
- Greatest cutting accuracy due to the POLAR-Positioning-System DPS with a mechanical positioning accuracy of 1/100 mm
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