

# HIGH-SPEED-CUTTER N 78 ECO

## Technical data

	N 78 ECO
Cutting width	78 cm / 30.70"
Feeding height	12 cm / 4.72"
Feeding depth	78 cm / 30.70"
Electric power (main drive)	3.45 kW / 4.75 hp
Weight (net)	1,350 kg / 2,970 lbs
Static floor load	626 daN/m <sup>2</sup> / 131 lbs/sqft
Width, without side tables	158 cm / 62.20"
Width, with side tables	198 cm / 77.95"
Depth	202 cm / 79.52"
Height	157 cm / 61.81"
Front table length	69.5 cm / 27.36"
Table height	90 cm / 35.43"
Clamp pressure, min.	150 daN / 331 lbs
Clamp pressure, max.	3000 daN / 6614 lbs
Knife thickness	11.75 mm / 0.46"
Knife grinding reserve, max.	2.5 cm / 1"
Smallest cut, w/o false clamp plate	2 cm / 0.78"
Smallest cut, with false clamp plate	7 cm / 2.75"
Backgauge speed	0 - 20 cm/sec.
Specific surface pressure	1.7 daN/cm <sup>2</sup> / 24 lbs/sqin
Dynamic surcharge	20%
Supply voltage (three-phase AC) 200 V - 240 V, 50/60 Hz / fuse	20A
Supply voltage (three-phase AC) 360 V - 420 V, 50/60 Hz / fuse	16A
<b>Attention!</b>	
The wire cross section of the power supply to the machine must correspond to valid regulations in the country of use. The same applies to the plug connectors used.	

## Hydraulic data

Hydraulic operating pressure: 16 - 150 bar.

The installation is designed for a maximum permissible pressure of 200 bars.

# HIGH-SPEED-CUTTER N 78 PLUS - N 176 PLUS

## Technical Data

	N 78 PLUS	N 92 PLUS	N 115 PLUS	N 137 PLUS	N 155 PLUS	N 176 PLUS
Cutting width	78 cm / 30.70"	92 cm / 36.22"	115 cm / 45.27"	137 cm / 53.93"	155 cm / 61.02"	176 cm / 69.29"
Feeding height	12 cm / 4.72"	13 cm / 5.11"	16,5 cm / 6.5"	16,5 cm / 6.5"	16,5 cm / 6.5"	16,5 cm / 6.5"
Feeding depth	78 cm / 30.70"	92 cm / 36.22"	115 cm / 45.27"	145 cm / 57.08"	155 cm / 61.02"	225 cm / 88.58"
Power requirement (main drive)	3,45 kW / 4.75 H.P.	4,45 kW / 6.1 H.P.	5,7 kW / 7.85 H.P.	6,6 kW / 9.1 H.P.	8,2 kW / 11.3 H.P.	8,2 kW / 11.3 H.P.
Total weight, net 1)	1350 kg / 2976 lbs	1920 kg / 4233 lbs	3230 kg / 7121 lbs	4150 kg / 9149 lbs	4950 kg / 10913 lbs	6200 kg / 13671 lbs
Width, w/o side table	158 cm / 62.20"	177 cm / 69.68"	236 cm / 92.91"	258 cm / 101.57"	275 cm / 108.26"	296 cm / 116.53"
Width with side table	198 cm / 77.95"	212 cm / 83.46"	265 cm / 104.33"	288 cm / 113.38"	355 cm / 139.76"	376 cm / 148.03"
Depth	202 cm / 79.52"	223 cm / 87.79"	256 cm / 100.78"	284 cm / 111.81"	298 cm / 117.32"	381 cm / 150"
Height	157 cm / 61.81"	159 cm / 62.59"	171 cm / 67.32"	171 cm / 67.32"	174 cm / 68.50"	174 cm / 68.50"
Front table length	69,5 cm / 27.36"	69,5 cm / 27.36"	71,5 cm / 28.14"	73 cm / 28.74"	75 cm / 29.52"	75 cm / 29.52"
Table height	90 cm / 35.43"	90 cm / 35.43"	90 cm / 35.43"	90 cm / 35.43"	90 cm / 35.43"	90 cm / 35.43"
Clamp pressure, min.	150 daN / 331 lbs	150 daN / 331 lbs	150 daN / 331 lbs	150 daN / 331 lbs	150 daN / 331 lbs	150 daN / 331 lbs
Clamp pressure, max.	3000 daN / 6614 lbs	3500 daN / 7716 lbs	4500 daN / 9921 lbs	5500 daN / 12125 lbs	6000 daN / 13228 lbs	7000 daN / 15432 lbs
Knife thickness	11,75 mm / 0.46"	11,75 mm / 0.46"	13,75 mm / 0.54"	13,75 mm / 0.54"	13,75 mm / 0.54"	13,75 mm / 0.54"
Knife grinding reserve, max.	2,5 cm / 0.98"	3 cm / 1.18"	5 cm / 1.96"	5 cm / 1.96"	5 cm / 1.96"	5 cm / 1.96"
Smallest cut, w/o false plate	2 cm / 0.78"	2,5 cm / 0.98"	2,5 cm / 0.98"	2,5 cm / 0.98"	3,5 cm / 1.37"	3,5 cm / 1.37"
Smallest cut, with false plate	7 cm / 2.75"	9 cm / 3.54"	9,5 cm / 3.74"	9,5 cm / 3.74"	12 cm / 4.72"	12 cm / 4.72"
Backgauge speed on return way	0 - 30 cm/sec. / 11.81 in./sec	0 - 30 cm/sec. / 11.81 in./sec	0 - 30 cm/sec. / 11.81 in./sec	0 - 30 cm/sec. / 11.81 in./sec	0 - 30 cm/sec. / 11.81 in./sec	0 - 160 cm / sec. / 59.06 in./sec
Static floor load	626 daN/m <sup>2</sup> / 131 lbs/sqft	700 daN/m <sup>2</sup> / 146 lbs/sqft	755 daN/m <sup>2</sup> / 158 lbs/sqft	731 daN/m <sup>2</sup> / 153 lbs/sqft	784 daN/m <sup>2</sup> / 164 lbs/sqft	780 daN/m <sup>2</sup> / 163 lbs/sqft
Specific surface pressure	1,7 daN/cm <sup>2</sup> / 24 lbs/sqin	1,8 daN/cm <sup>2</sup> / 26 lbs/sqin	1,7 daN/cm <sup>2</sup> / 24 lbs/sqin	1,9 daN/cm <sup>2</sup> / 27 lbs/sqin	2,5 daN/cm <sup>2</sup> / 36 lbs/sqin	2,8 daN/cm <sup>2</sup> / 40 lbs/sqin
Dynamic surcharge	20%	20%	20%	20%	20%	20%
Supply voltage (rotary current) 200V - 240V / Fusing	20A	20A	30A	30A	35A	35A
Supply voltage (rotary current) 360V - 420V / Fusing	16A	16A	20A	25A	32A	32A

**Attention!**

The wire cross section of the main power supply according to the countrys regulations. Same regulations according the plug connectors.

- 1) w/o special equipment  
 Without optional equipment

### Hydraulic Data

Hydraulic operating pressure: 16 - 150 bars!

The installation is designed for a maximum permissible pressure of 200 bars.

# HIGH-SPEED-CUTTER N 78 PRO HD - N 176 PRO HD

## Technical Data

	N 78 PRO HD	N 92 PRO HD	N 115 PRO HD / AT-HD	N 137 PRO HD / AT-HD	N 155 PRO HD / AT-HD	N 176 PRO HD / AT-HD
Cutting width	78 cm / 30.70"	36.22 in / 36.22"	45.28 in / 45.27"	53.94 in / 53.93"	61.02 in / 61.02"	69.29 in / 69.29"
Feeding height	4.72 in / 4.72"	13 cm / 5.11"	6.50 in / 6.5"	6.50 in / 6.5"	6.50 in / 6.5"	6.50 in / 6.5"
Feeding depth	78 cm / 30.70"	36.22 in / 36.22"	45.28 in / 45.27"	57.09 in / 57.08"	61.02 in / 61.02"	88.58 in / 88.58"
Power requirement (main drive)	3,45 kW / 4.75 H.P.	4.45 kW / 6.1 H.P.	5.7 kW / 7.85 H.P.	6.6 kW / 9.1 H.P.	8.2 kW / 11.3 H.P.	8.2 kW / 11.3 H.P.
Weight, net (w/o optional equipment)	1350 kg / 2976 lbs	4,232.88 lb / 4233 lbs	7,120.93 lb / 7121 lbs	9,149.18 lb / 9149 lbs	10,912.88 lb / 10913 lbs	13,668.66 lb / 13671 lbs
Width, w/o side table	62.20 in / 62.20"	69.69 in / 69.68"	92.91 in / 92.91"	101.57 in / 101.57"	108.27 in / 108.26"	116.54 in / 116.53"
Width with side table	77.95 in / 77.95"	83.46 in / 83.46"	104.33 in / 104.33"	113.39 in / 113.38"	139.76 in / 139.76"	148.03 in / 148.03"
Depth	79.53 in / 79.52"	87.80 in / 87.79"	100.79 in / 100.78"	111.81 in / 111.81"	117.32 in / 117.32"	150.00 in / 150"
Height	63.58 in / 63.58"	64.37 in / 64.37"	68.90 in / 68.89"	68.90 in / 68.89"	70.28 in / 70.27"	70.28 in / 70.27"
Front table length	27.36 in / 27.36"	27.36 in / 27.36"	28.15 in / 28.14"	28.74 in / 28.74"	29.53 in / 29.52"	29.53 in / 29.52"
Table height	35.43 in / 35.43"	35.43 in / 35.43"	35.43 in / 35.43"	35.43 in / 35.43"	35.43 in / 35.43"	35.43 in / 35.43"
Clamp pressure, min.	150 daN / 331 lbs	150 daN / 331 lbs	150 daN / 331 lbs	150 daN / 331 lbs	150 daN / 331 lbs	150 daN / 331 lbs
Clamp pressure, max.	3000 daN / 6614 lbs	3500 daN / 7716 lbs	4500 daN / 9921 lbs	5500 daN / 12125 lbs	6000 daN / 13228 lbs	7000 daN / 15432 lbs
Knife thickness	11,75 mm / 0.46"	11,75 mm / 0.46"	13,75 mm / 0.54"	13,75 mm / 0.54"	13,75 mm / 0.54"	13,75 mm / 0.54"
Knife grinding reserve, max.	0.98 in / 0.98"	3 cm / 1.18"	1.97 in / 1.96"	1.97 in / 1.96"	1.97 in / 1.96"	1.97 in / 1.96"
Smallest cut, w/o false clamp plate	0.79 in / 0.78"	0.98 in / 0.98"	0.98 in / 0.98"	0.98 in / 0.98"	3,5 cm / 1.37"	3,5 cm / 1.37"
Smallest cut, with false clamp plate	2.76 in / 2.75"	9 cm / 3.54"	3.74 in / 3.74"	3.74 in / 3.74"	4.72 in / 4.72"	4.72 in / 4.72"
Backgauge speed return	0 - 30 cm/sec / 11.81 in./sec.	0 - 30 cm/sec / 11.81 in./sec.	0 - 30 cm/sec / 11.81 in./sec.	0 - 30 cm/sec / 11.81 in./sec.	0 - 30 cm/sec / 11.81 in./sec.	0 - 62.99 in/sec / 59.06 in./sec
Static floor load	626 daN/m <sup>2</sup> / 131 lbs/sqft	700 daN/m <sup>2</sup> / 146 lbs/sqft	755 daN/m <sup>2</sup> / 158 lbs/sqft	731 daN/m <sup>2</sup> / 153 lbs/sqft	784 daN/m <sup>2</sup> / 164 lbs/sqft	780 daN/m <sup>2</sup> / 163 lbs/sqft
Specific surface pressure	1,7 daN/cm <sup>2</sup> / 24 lbs/sqin	1.8 daN/cm <sup>2</sup> / 26 lbs/sqin	1,7 daN/cm <sup>2</sup> / 24 lbs/sqin	1.9 daN/cm <sup>2</sup> / 27 lbs/sqin	2.5 daN/cm <sup>2</sup> / 36 lbs/sqin	2.8 daN/cm <sup>2</sup> / 40 lbs/sqin
Dynamic surcharge	20%	20%	20%	20%	20%	20%
Supply voltage (rotary current) 200V - 240V / Fusing	20A	20A	30A	30A	35A	35A
Supply voltage (rotary current) 360V - 420V / Fusing	16A	16A	20A	25A	32A	32A

Attention! The wire cross section of the power supply to the machine must correspond to valid regulations in the country of use. The same applies to the plug connectors used.

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Hydraulic operating pressure: 16 - 150 bars!

The installation is designed for a maximum permissible pressure of 200 bars.