

# Technical Data

	<b>Polar 92</b>	<b>Polar 115</b>	<b>Polar 137</b>	<b>Polar 155</b>	<b>Polar 176</b>
Cutting width	92 cm / 36 1/4"	115 cm / 45 1/4"	137 cm / 54"	155 cm / 61"	176 cm / 69 5/16"
Clamp opening	13 cm / 5 1/8"	16,5 cm / 6 1/2"	16,5 cm / 6 1/2"	16,5 cm / 6 1/2"	16,5 cm / 6 1/2"
Feed depth	92 cm / 36 1/4"	115 cm / 45 1/4"	145 cm / 57"	155 cm / 61"	200 cm / 78 3/4"
Power requirement (main drive)	3 kW / 4,1 H.P.	4 kW / 5,5 H.P.	4,5 kW / 6 H.P.	5,5 kW / 7,5 H.P.	5,5 kW / 7,5 H.P.
Net weight (without special equipment)	1890 kg / 4180 lbs	3200 kg / 7055 lbs	4120 kg / 9080 lbs	4950 kg / 10910 lbs	5850 kg / 12900 lbs
Width with side tables	177 cm / 70"	233 cm / 91 3/4"	254 cm / 100"	279 cm / 109 3/4"	300 cm / 118 3/8"
Width without side tables	212 cm / 83 1/2"	265 cm / 104 3/16"	288 cm / 113 3/8"	355 cm / 139 3/4"	376 cm / 148 1/16"
Length	216 cm / 85"	254 cm / 100"	282 cm / 111 1/16"	295 cm / 116 1/8"	343 cm / 135 1/16"
Height	154 cm / 60 5/8"	165 cm / 64 15/16"	165 cm / 64 15/16"	173 cm / 68 1/8"	173 cm / 68 1/8"
Front table length	65 cm / 25 19/32"	71,5 cm / 28 1/4"	73 cm / 28 3/4"	75 cm / 29 1/2"	75 cm / 29 1/2"
Table height	90 cm / 35 1/2"	90 cm / 35 1/2"	90 cm / 35 1/2"	90 cm / 35 1/2"	90 cm / 35 1/2"
Clamp pressure min.	150 daN* / 330 lbs	150 daN* / 330 lbs	150 daN* / 330 lbs	150 daN* / 330 lbs	150 daN* / 330 lbs
Clamp pressure max.	3500 daN* / 7700 lbs	4500 daN* / 9920 lbs	5500 daN* / 12100 lbs	6000 daN* / 13200 lbs	7000 daN* / 15400 lbs
Knife thickness	11,7 mm / 7/16"	13,75 mm / 9/16"	13,75 mm / 9/16"	13,75 mm / 9/16"	13,75 mm / 9/16"
Grinding reserve, max.	3 cm / 1 3/16"	6 cm / 2 3/8"	6 cm / 2 3/8"	6 cm / 2 3/8"	6 cm / 2 3/8"
Smallest cut, without false clamp, min.	2,5 cm / 1"	2,5 cm / 1"	2,5 cm / 1"	3,5 cm / 1 3/8"	3,5 cm / 1 3/8"
Smallest cut, with false clamp, min.	9 cm / 3 1/2"	9,5 cm / 3 3/4"	9,5 cm / 3 3/4"	12 cm / 4 23/32"	12 cm / 4 23/32"
Backgauge speed (advance)	0 - 20 cm/sec.	0 - 30 cm/sec.	0 - 30 cm/sec.	0 - 30 cm/sec.	0 - 30 cm/sec.
Static floor load	815 daN/m <sup>2</sup> / 167 lbs/sq.ft.	1100 daN/m <sup>2</sup> / 225 lbs/sq.ft.	1150 daN/m <sup>2</sup> / 235 lbs/sq.ft.	1150 daN/m <sup>2</sup> / 235 lbs/sq.ft.	1200 daN/m <sup>2</sup> / 245 lbs/sq.ft.
Specific pressure on surface	1,5 daN/cm <sup>2</sup> / 21 lbs/sq.ft.	1,6 daN/cm <sup>2</sup> / 23 lbs/sq.ft.	2 daN/cm <sup>2</sup> / 28 lbs/sq.ft.	2,4 daN/cm <sup>2</sup> / 34 lbs/sq.ft.	2,8 daN/cm <sup>2</sup> / 40 lbs/sq.ft.
Dynamic surcharge	20%	20%	20%	20%	20%
Supply voltage 190-240V Fusing Wire cross section	25A 4 mm <sup>2</sup>	25A 4 mm <sup>2</sup>	35A 6 mm <sup>2</sup>	35A 6 mm <sup>2</sup>	35A 6 mm <sup>2</sup>
Supply voltage 340-440V Fusing Wire cross section	20A 2,5 mm <sup>2</sup>	20A 2,5 mm <sup>2</sup>	25A 4 mm <sup>2</sup>	25A 4 mm <sup>2</sup>	25A 4 mm <sup>2</sup>
Supply voltage 500-600V Fusing Wire cross section	20A 2,5 mm <sup>2</sup>	20A 2,5 mm <sup>2</sup>	25A 4 mm <sup>2</sup>	25A 4 mm <sup>2</sup>	25A 4 mm <sup>2</sup>

**83 dB (A) T with 1152 cuts per hour (80% automatic operation)**  
**77 dB (A) T with 300 cuts per hour (manual feeding)**

daN = kp