



High-Speed Cutters for Sizes Around 70 x 100 cm/ 27 ½" x 39 3/8"

The POLAR 137 X / XT / XT Autotrim - Three programmable high-speed cutters which offer a trend-setting cutting technology. The cutters are employed for precisely cutting paper, paperboard and cardboard, plastic foils etc. The technology is the same as on the 115 series. The POLAR 137 high-speed cutters process sizes with diagonals of up to 137 cm (max. 77x112cm/ 30 5/16" x 44 1/8", e. g. III b formats). The reams with diagonals exceeding 137 cm/ 53 15/16" (i. e. a max. sheet length of 137 cm) can be turned on the rear table provided there is a retractable side gauge. The POLAR 137 can be combined with peripheral equipment (stack lift, automatic jogger, buffer, gripper-loading system, loading and unloading systems) to form complete cutting systems that ease the workload on the operators.

Technical Data

Cutting width	137 cm / 53 15/16"
Clamp opening	16,5 cm / 6 ½"
Feed depth	145 cm / 57"
Program memo	198 programs, 12928 steps
Clamping pressure	150 - 5500 daN / 330 - 12100 lbs

High Speed Cutter

		POLAR 66	POLAR 78	POLAR 92	POLAR 115	POLAR 137	POLAR 155	POLAR 176
option: Autotrim								
waste removal max.	[mm in]	—	—	—	80 3.15	80 3.15	80 3.15	80 3.15
lowering front table up to	[mm in]	—	—	—	4 0.16	4 0.16	4 0.16	4 0.16
smallest cut with false plate, automatically	[mm in]	—	—	—	100 3.94	100 3.94	120 4.72	120 4.72
depth frame (G)	[mm in]	—	—	—	1,670 65.75	1,670 65.75	1,710 67.32	1,740 68.50
compressed air @ 6-8 bar	[l/min]	—	—	—	100	100	100	100
thread diameter	[mm in]	—	—	—	180 7.09	180 7.09	180 7.09	180 7.09
streaming velocity	[m/sec]	—	—	—	28 - 32	28 - 32	28 - 32	28 - 32
option: down holder in front of knife								
feeding height min.	[mm in]	—	—	—	25 0.98	25 0.98	25 0.98	25 0.98
compressed air @ 6-8 bar	[l/min]	—	—	—	1	1	1	2
options: backgauge								
swivel backgauge adjustable range	[mm in]	—	—	—	1 0.06	2 0.06	2 0.07	2 0.07
tiltable backgauge adjustable range (rear)	[mm in]	—	—	—	2 0.06	2 0.06	2 0.06	2 0.06
tiltable backgauge adjustable range (forward)	[mm in]	—	—	—	1 0.02	1 0.02	1 0.02	1 0.02
downholder backgauge feed depth min.	[mm in]	—	—	—	250 9.84	250 9.84	250 9.84	250 9.84
downholder backgauge pressure max.	[bar]	—	—	—	1	1	1	1
downholder backgauge compressed air @ 6-8 bar	[l/min]	—	—	—	1	1	1	1
Option: TwinClamp								
feeding depth max.	[mm in]	—	—	—	1,100 43.31	1,400 55.12	—	—
feeding height max. (without false clamp)	[mm in]	—	—	—	130 5.12	130 5.12	—	—
feeding height max. (with false clamp + 10 mm Vulco)	[mm in]	—	—	—	130 5.12	130 5.12	—	—
smallest cut, min, with backgauge clamp	[mm in]	—	—	—	300 11.81	300 11.81	—	—
smallest cut, automatically, with contoured false plate	[mm in]	—	—	—	50 1.97	50 1.97	—	—
downholder backgauge pressure min.	[kg lbs]	—	—	—	10 0.39	10 0.39	—	—
downholder backgauge pressure max.	[kg lbs]	—	—	—	60 2.36	60 2.36	—	—
downholder backgauge compressed air @ 6-8 bar	[l/min]	—	—	—	6	6	—	—
option: firmly mounted lift (S)								
pallet size max. (y)	[mm in]	—	—	—	800 31.50	800 31.50	1,050 41.34	—
pallet size max. (x)	[mm in]	—	—	—	1,200 47.24	1,200 47.24	1,450 57.09	—
usable fork length	[mm in]	—	—	—	900 35.43	900 35.43	1,100 43.31	—
stroke max.	[mm in]	—	—	—	880 34.65	880 34.65	880 34.65	—
carrying capacity max.	[kg lbs]	—	—	—	1,000 39.37	1,000 39.37	1,000 39.37	—
width (B)	[mm in]	—	—	—	3,464 136.38	3,684 145.04	4,219 166.10	—
height	[mm in]	—	—	—	1,862 73.31	1,862 73.31	1,862 73.31	—
weight, net	[kg lbs]	—	—	—	200 7.87	200 7.87	200 7.87	—
option: retractable side gauge								
loading width left max. (L)	[mm in]	—	—	—	910 35.83	1,215 47.83	1,340 52.76	2,040 80.31
loading width right max. (R)	[mm in]	—	—	—	—	1,020 40.16	980 38.58	1,430 56.30
compressed air per side @ 6-8 bar	[l/min]	—	—	2	2	2	2	2

Subject to technical alterations.

