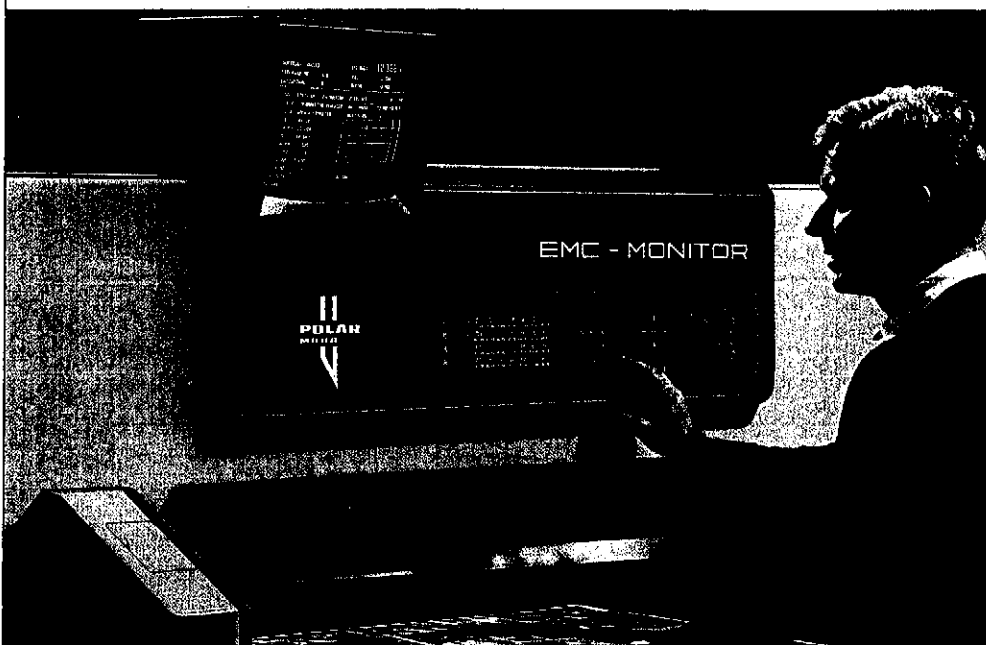


POLAR

EMC-MONITOR



No. 1 in cutting systems worldwide



EMC-MONITOR 92/715/137/155/176

POLAR EMC-MONITOR:

The top-model with moveable 12" monitor and a cutting technology already prepared for future requirements, responds to all demands of even the most difficult cutting programs. EMC-MONITOR can also act as control center for complete cutting lines. It offers the same technology as the POLAR EMC-MONITOR, however, with some additional functions, operating modes and selectable options. Prepared for operation in connection with COMPUTECU.

Setting of programs

Just enter measurements and functions with stationary backgauge. Program limits and direction of backgauge run are automatically determined. Stored data can quickly be corrected (direct over-writing), supplemented or deleted as needed. Also programming during cutting and automatic graphic programming with programme optimizing.

Automatic functions

All program sequences can be repeated as often as required with the same precision. The automatic functions "Ejector", "Air" and "Block programming" and repetition of programme sections, make a job much easier. Additional programmable automatic functions: "Automatic knife", "Air on", "Clamping without cut", "Variable speed", logging mark, backgauge advance "slow", Automatic, preselectable cut corner, backgauge compensation. Correction possibilities: Compensation of variations in print, cut correction.

Program memory

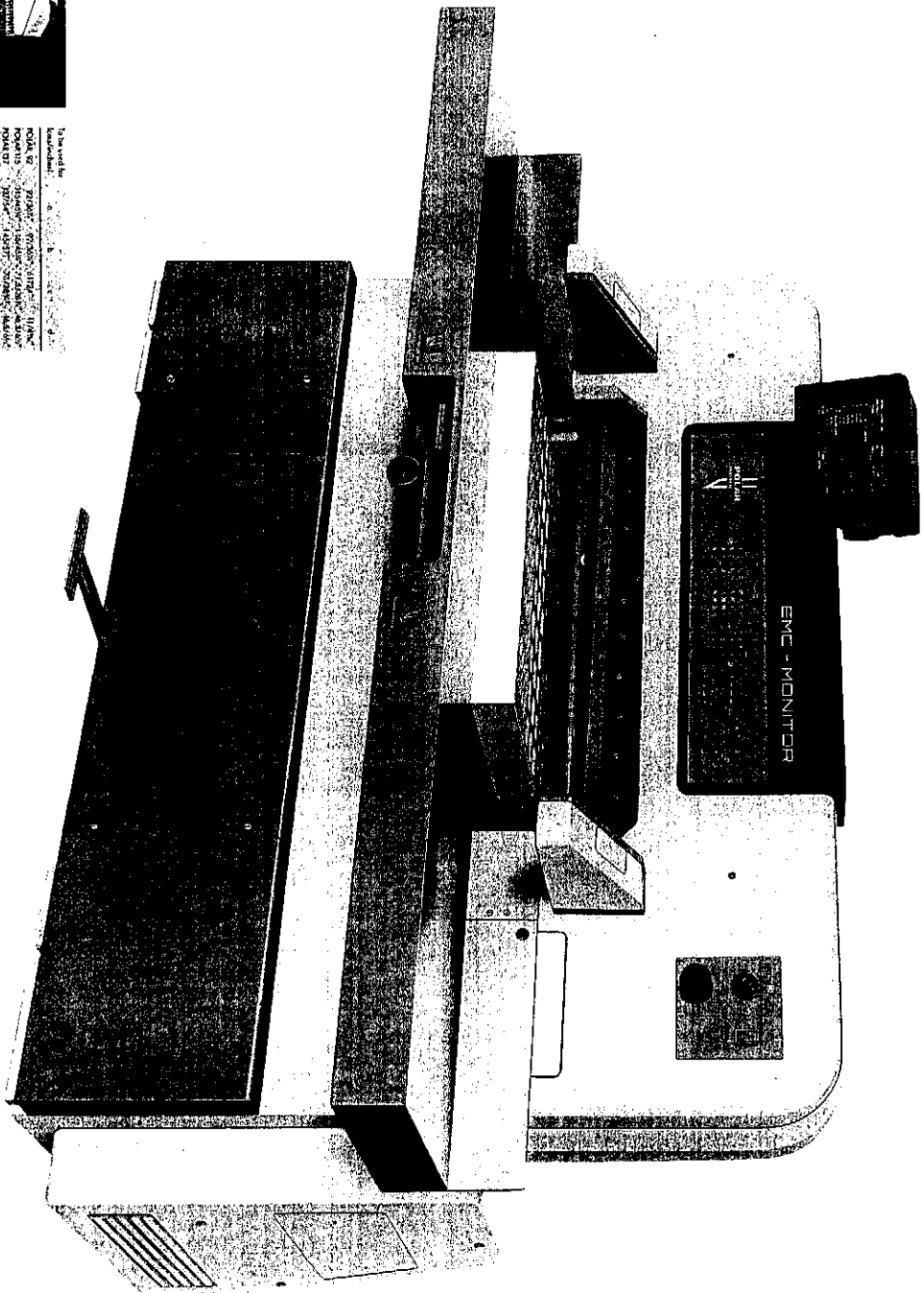
All data are durably stored in the memory of the POLAR EMC-Monitor. Memory capacity: 1-198 programs, 128 Kb. Single programme protection. Display of remaining storage capacity.

PMS-Card* (POLAR-MEMORY-System)

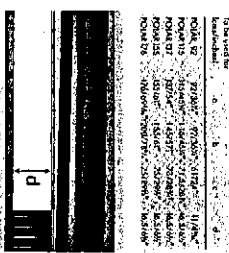
With this mobile data carrier it is possible to establish externally cutting programs with POLAR-COMPUTECU and to produce copies. Therefore most of the programming time at the cutter is eliminated. All monitor models are prepared for the PMS-Card or can be retrofitted with this option.

External programming With POLAR-COMPUTECU*

* Optional equipment



Note: The working surface of POLAR cutters from its own cutting width and more can be accessed by using the retractable side gauges.



a = cutting width, b = feeding depth, c = length of front table, d = maximum pile height.



EMC-Monitor

Standard equipment
Optional equipment

	92	115	137	155	176
Complete electrical outfit 220/380V, 3 phase, 50 Hz	x	x	x	x	x
Main switch with lock and key	x	x	x	x	x
Automatic star-delta switch	-	x	x	x	x
Star-delta switch, hand operated	x	-	-	-	-
Overload switch for main and table motor	x	x	x	x	x
Table light / optical cutting line indicator	x	x	x	x	x
Direct measuring system (linear scale)	x	x	x	x	x
12"-monitor with clear-text display, adjustable (right/left)	x	x	x	x	x
Colour Monitor	●	●	●	●	●
Measurement systems: metric/inches Shaku	x	x	x	x	x
Inch-fraction input with automatic decimal conversion	x	x	x	x	x
Keys for measurement input with stationary backgauge	x	x	x	x	x
Automatic individual measurement positioning	x	x	x	x	x
Manual backgauge positioning with one hand control	x	x	x	x	x
Key for fast approach while positioning according to printed image	x	x	x	x	x
Hydraulic backgauge lock	-	●	●	x	x
Motorized backgauge, microcomputer controlled	x	x	x	x	x
Backgauge advance "slow" (also individual measurements)	x	x	x	x	x
Optimized backgauge speed	-	●	●	●	x
Hydraulic clamp pressure, with of filling	x	x	x	x	x
Variable pressure time, pre-adjustable	x	x	x	x	x
Automatic clamping pressure regulation	-	●	●	●	●
Self-locking worm gear, wear resistant	x	x	x	x	x
Overload switch	x	x	x	x	x
Hydraulic clutch, wear resistant	x	x	x	x	x
Two hand cut release, timed, non-repeat device	x	x	x	x	x
Automatic knife	x	x	x	x	x
Autotrim	-	●	●	●	●
Infra-red electric eye with self-controlled check circuit	x	x	x	x	x
Safety bolt (additional mechanical lock for knife carrier)	x	x	x	x	x
Memory bank 128 kB, 1-198 programs	x	x	x	x	x
Integr. electronic calculator (4 basic arithmetic functions)	x	x	x	x	x
Repeat calculator with operator guidance	x	x	x	x	x
Block program with automatic graphic programming	x	x	x	x	x
Gripper margin adjustment programmable to each program	x	x	x	x	x
Strip-size label correction	x	x	x	x	x
Compensation of variations in print	x	x	x	x	x
Loading position, ejector programmable	x	x	x	x	x
Clamping without cut, programmable	x	x	x	x	x
Cut counter with zero back feature, programmable	x	x	x	x	x
Programming with cuts	x	x	x	x	x
Interface for printer / COMPUCUT	x	x	x	x	x
Air table with blower	x	x	x	x	x
Cast iron side tables, right and left	●	●	●	●	●
Table slot closing device	x	x	x	x	x
Table side guides, right and left	x	x	x	x	x
1 false clamp plate (to be fixed from the front side)	x	x	x	x	x
2 knives "ORIGINAL POLAR" in storage box	x	x	x	x	x
Knife lifting device for quick knife change	x	x	x	x	x
Knife change with fine adjustment from front of machine	●	●	●	●	x
Knife correction to compensate for differences in knife thickness	x	x	x	x	x
30 cutting sticks ORIGINAL POLAR SINUS	x	x	x	x	x
Tool box with complete set of tools, operating manual, spare parts catalogue, check list, wiring diagrams	x	x	x	x	x
Flexible false clamp plate	●	●	●	●	●
Rear table guard	● ¹⁾	● ¹⁾	● ¹⁾	● ¹⁾	● ¹⁾
Non-corrosive table surface	●	●	●	●	●
Retractable side gauge, left	-	●	●	●	●
Retractable side gauge, right	-	●	●	●	●
Carbide tipped knife	●	●	●	●	●
Tilttable table, right / left	-	●	●	●	●
Swivel gauge	-	●	●	●	●
Swivel gauge / Fixomat	-	●	●	●	●
Swivel gauge / Tilting gauge / Fixomat	-	●	●	●	●
Gripper loading system (automatic loading onto rear machine table)	-	●	●	●	●
Turning gripper	-	-	●	●	●
Wast container	●	●	●	●	●
PMS-card	●	●	●	●	●
Stacklift fixed (S), right / left	-	●	●	●	-
Central lubrication, main frame	-	●	●	●	x
Printer	●	●	●	●	●
Transfer table (different sizes)	●	●	●	●	-
COMPUCUT	●	●	●	●	●
Infeed depth 200 cms	-	-	-	●	x
Conveyor units	●	●	●	●	●

Further optional equipment: Joggers, jogging stations, buffer areas, stacklifts, automatic loading and unloading devices.

x = Standard equipment ● = Optional equipment - = Not available ¹⁾ = In some countries standard equipment



	92	115	137	155	176
Cutting width	92 cms	115 cms	137 cms	155 cms	176 cms
Clamp opening	36 1/4"	45 1/4"	54"	61"	69 1/8"
Feed depth	11 cms	16,5 cms	16,5 cms	16,5 cms	16,5 cms
Power requirement (main drive)	92 cms	115 cms	145 cms	155 cms	200 cms
Net weight (without special equipment)	3 kW	4 kW	4,5 kW	5,5 kW	5,5 kW
Width without side tables	4100 lbs	7055 lbs	9080 lbs	10910 lbs	12900 lbs
including side tables	177 cms	233 cms	254 cms	279 cms	300 cms
Length	212 cms	265 cms	288 cms	355 cms	376 cms
Height	211 cms	254 cms	282 cms	295 cms	343 cms
Front table length	147 cms	165 cms	165 cms	173 cms	173 cms
Table height	61 cms	71,5 cms	73 cms	75 cms	75 cms
Clamp pressure min.	90 cms	90 cms	90 cms	90 cms	90 cms
max.	150 daN*	150 daN*	150 daN*	150 daN*	150 daN*
Knives thickness	3000 daN*	4500 daN*	4500 daN*	5600 daN*	6000 daN*
Grinding reserve	11,7 mm	13,75 mm	13,75 mm	13,75 mm	13,75 mm
Smallest cut without false clamp	3 cms	6 cms	6 cms	6 cms	6 cms
with false clamp	2 cms	2,5 cms	2,5 cms	3 cms	3 cms
Backgauge speed slow/express	9 cms	9,5 cms	9,5 cms	13 cms	13 cms
Static floor load	2,7 / 15,8 cms/sec.	2,7 / 15,8 cms/sec.	2,7 / 15,8 cms/sec.	2,7 / 15,8 cms/sec.	0-30 cms/sec.
Contact area load	815 daN*/m²	1100 daN*/m²	1150 daN*/m²	1150 daN*/m²	1200 daN*/m²
Dynamic surcharge	1,5 daN*/cms²	1,6 daN*/cms²	2 daN*/cms²	2,4 daN*/cms²	2,8 daN*/cms²
Supply voltage (3 phase 190-240V)	20%	20%	20%	20%	20%
Fusing	25 A	25 A	35 A	35 A	35 A
Wire cross section	4 mm²	4 mm²	6 mm²	6 mm²	6 mm²
Supply voltage (3 phase 340-440V)	20 A	20 A	25 A	25 A	25 A
Fusing	2,5 mm²	2,5 mm²	4 mm²	4 mm²	4 mm²
Supply voltage (3 phase 500-600V)	16 A	20 A	20 A	20 A	20 A
Fusing	1,5 mm²	2,5 mm²	2,5 mm²	2,5 mm²	2,5 mm²