

MPU 1.6

The universal machine for finest quality plush and much more.



Created in Albstadt. Made in Germany!



*Always in fashion -
Quality!*
Mayer & Cie.
Circular Knitting Machines



MPU 1.6

Plush, terry, fleece, single jersey constructions – multiple variants on a single basic machine.

The MPU 1.6 is the universal plush machine for fine fabric qualities, also with elastomer plating. Whether for the latest fashions, leisure ware or technical fabrics (covers for seating furniture or car seats) – no matter what the job, the MPU 1.6 supplies specialist knitting quality. It is as varied as the customer base which can be supplied by its fabrics. Which means optimum productivity all the year round no matter what the season.

Finest quality, high performance

The MPU 1.6 is a highly-productive machine, with a feeder density of 1.6 feeders/inch and a rotational speed of up to 1.0 m/s. Combined with brief setting and conversion durations and simple control, these features make the MPU 1.6 extremely costeffective. All the more, as the MPU 1.6 also sets standards in terms of its knitting quality. Specific MCT developments, such as the sinker cam, sinker shape and sinker guidance system, reliable needle guidance or the consistently loose take-down force are only a few examples of the elements that enable the MPU 1.6 to achieve high-production rates and manufacture the finest quality knits.

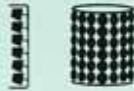












Cylinder diameter	26"	30"	34"	42"
Machine gauges	E 12*, E 14*, E 16 – E 28			
Number of feeders	42	48	54	68
Speed up to	1.0 m/s 25 rpm at 30"			
Minimum space requirement appr.	22 m ²	24 m ²	28 m ²	31 m ²
Weight appr. kg	2.000	2.200	2.400	3.200

* on request



* on request

Specifications and facts:

STANDARD		OPTION	
	Creel		Creel <ul style="list-style-type: none"> ● VARI-creel ● VARI-creel with aluminium tubes ● VARI-circular creel with aluminium tubes
	Yarn feeding <ul style="list-style-type: none"> ● MPF 20/30, 2 units/feeder ● 2 rings, 2 double drives, 1 single drive, 5 tapes 		Yarn feeding <ul style="list-style-type: none"> ● elastomeric plating ● jacquard feeding units instead of standard ● coated yarn carrier ● MCTmatic components
	Needles/Sinkers <ul style="list-style-type: none"> ● 1 type of cylinder needles (1 stitch length butt, 1 clearing butt) ● 1 type of holding down sinkers gg12-14 3,0 mm loop height gg16-22 3,0 mm loop height gg24-28 2,5 mm loop height 		Needles/Sinkers <ul style="list-style-type: none"> ● 4 types of cyl. needles (central stitch length butt) ● Sinkers f. loop heights (mm)1,5; 1,8;2,2; 2,5; 2,8;(gg16-gg28)3,0; 3,5;(gg12- gg20) ● sinker for terry towel 2,2 mm (gg16-gg 28) ● sinkers for vertical stripes with cotton/PES (gg16-gg28) ● sinkers for fleece and plain SJ (gg16-gg 28)
	Cam parts <ul style="list-style-type: none"> ● cam segments made of perunal ● 1 A-cam/feeder ● individual segments ● positive needle guidance ● channel cam parts 		Cam parts <ul style="list-style-type: none"> ● exchange cam parts for structures ● exchangeable sinker cams for <ul style="list-style-type: none"> - plain single jersey; - reverse plating (for gg16 – gg28)
	Frame <ul style="list-style-type: none"> ● portal frame for 520 mm fabric rolls ● for 42" 1-step platform 		Frame <ul style="list-style-type: none"> ● industrial frame for 920 mm fabric rolls ● two-step platform 26"-34" ● giant frame for 1250 mm fabric rolls (18-24", 30-34"*) ● sliding platform ● for 42" portal platform 750 ● open-width frames * ● industrial open-width frame* ● steps for the open-width frame ● sliding doors for open-width frame
	Drive/Electric <ul style="list-style-type: none"> ● frequency controlled drive (AC) ● 400 V, 50/60 Hz; 4 KW (26"-34"); 5,5 KW (42") ● 1 KW peripheral units ● central processor unit with display ● control voltage 24 V 		Drive/Electric <ul style="list-style-type: none"> ● 200 - 260 volt ● 346 - 600 volt ● fabric light in the side legs ● add. light assembled in the yarn feeding
	Take-down <ul style="list-style-type: none"> ● adjust. take down with positive drive ● rubber covered rollers ● 2-roller take down ● MCT trapezoid spreader 		Take-down <ul style="list-style-type: none"> ● MCT trapezoid spreader rollers and take down rollers for elastomeric and sensitive yarns ● fabric cutting device ● 3-roller take down
	Control <ul style="list-style-type: none"> ● SENSO P pressure oiler (oil: VG 22, VI 110±20) ● 3-shift counter ● centr. control for oiler, counter and periph. access. ● working hour counter ● stationary and rotating lintblower (air: min. 6 bar, 250 l/min.) ● peripheral equipment control by display ● VK 3 		Control <ul style="list-style-type: none"> ● 4/5-shift-counter ● VG 3
	Miscellaneous <ul style="list-style-type: none"> ● needle detectors ● electr. supervision system with display (e.g. yarn feeding systems, oiler, safety guards and pneumatic unit) 		Miscellaneous <ul style="list-style-type: none"> ● Interface for MDA ● Intus for MER and positive feeding units ● gauge/magnet fixing ● MDA.web software for machine data acquisition ● measurement device of yarn length ratio of elastomeric yarn

*on request

Subject to design changes in the interest of technical progress. Illustrations may depict accessories which are not included in the standard machine equipment.

Best quality – particularly efficient.

The special MCT double sinker guidance technique increases the service life of sinkers by up to 100% when compared to other systems. They also ensure a uniform fabric appearance and the reliable tying in of loops.

The clockwise direction of rotation of the machine achieves absolute vertical loop formation, reducing shearing loss.

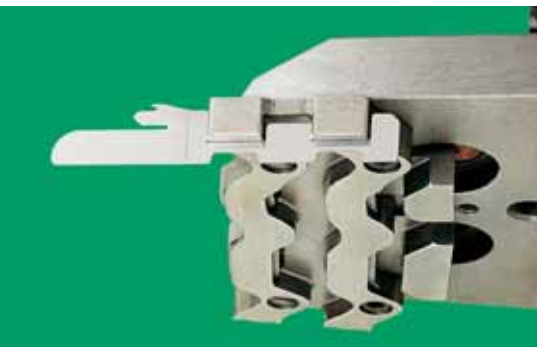
Perfect plating, tidy fabric reverse.

The special MCT-specific sinker shape and sinker control help to retention and ensure the reliable tie-in of loops. This ensures perfect plating every time. To ensure a neat and tidy fabric reverse, the ground thread is laid reliably by the yarn feeder underneath the sinker nose into the sinker slot. And what's more, the MPU 1.6 also ensures reliable, precise plating of elastomer yarns.



Brief conversion durations and simple control increase productivity.

Diagonally-adjustable stitch cams and centralised stitch adjustment ensure simple adjustment of knock-over depth with constant needle clearance. This shortens conversion durations, dispenses with resetting of yarn guides in the case of fabric weight changes and ensures greater press-off reliability – particularly where very light knits are involved.



Exchange cams for reverse plating in the sinker cam.

The plush thread fully covers the fabric reverse. This allows plush fabric to be napped on both sides – the ideal solution for lightweight and voluminous jackets or sweatshirts.

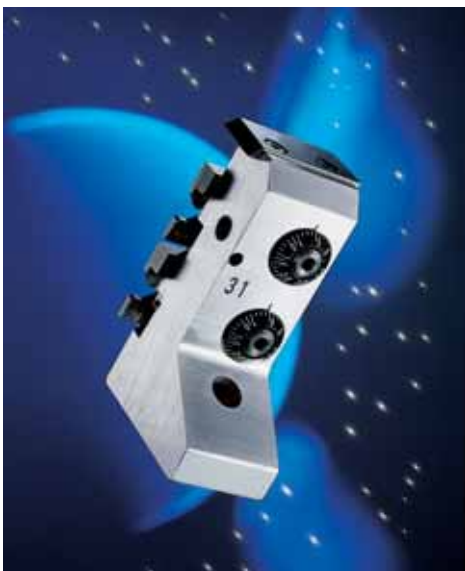
Exclusively from Mayer & Cie. – cam segments made of Perunal.

Perunal is a high-tech material derived from the world of aerospace engineering. It is characterized by outstanding dimensional stability at different temperatures, so enhancing knitting quality and reducing wear. Other benefits: Perunal does not oxidise, is substantially harder and permits improved dissipation of heat. .



Even greater versatility due to exchange segments in the cylinder cam.

4 needle types and exchange segments open up the whole range of possibilities from sheared plush and terry, fleece and constructions through to vertical stripes. MCT-typical resetting speed and simplicity.



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