

Technit D3

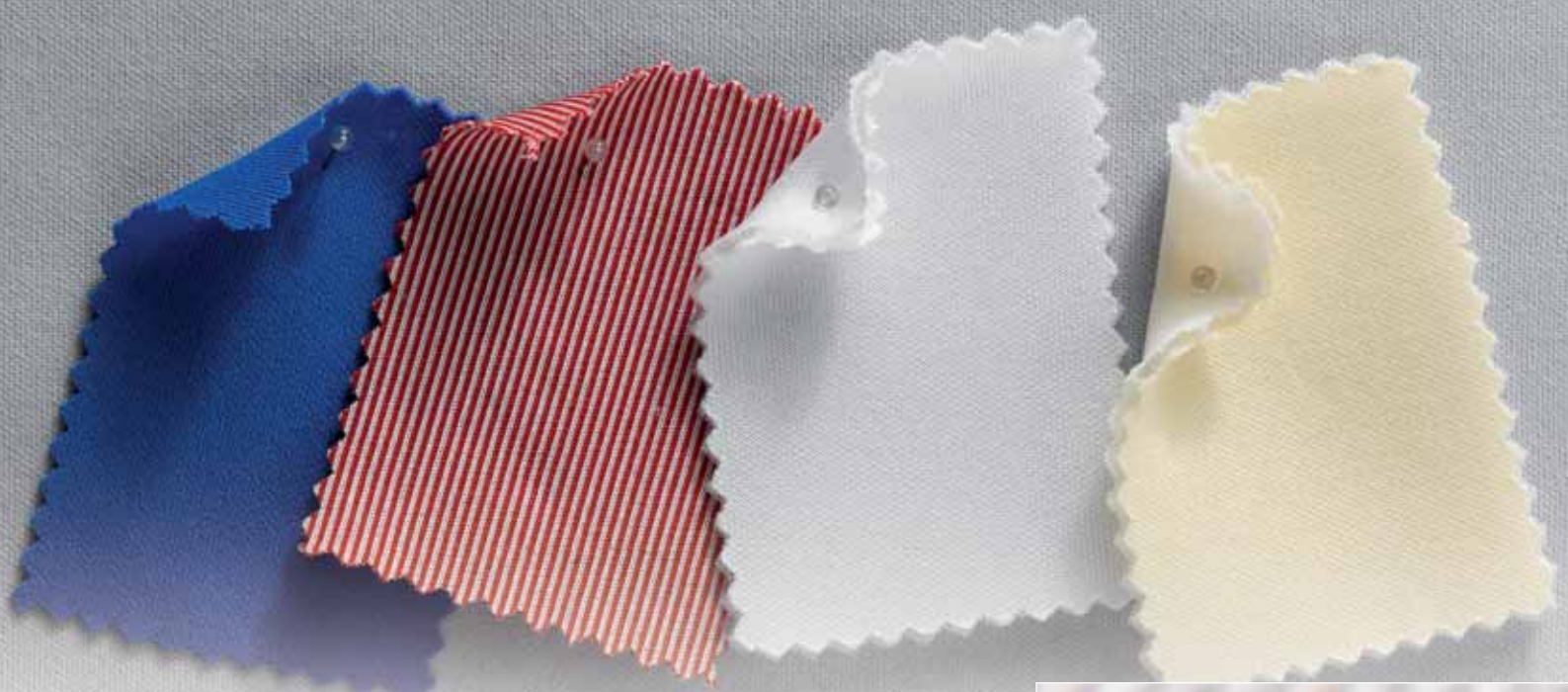
Functional textiles in fine rib or as spacer fabrics – with 3 threads per feeder!



Created in Albstadt. Made in Germany!



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



Technit D3



The Technit D3 is a new development from Mayer & Cie. which opens up totally new scope in circular knitting technology. It knits 3 threads on the cylinder side, two of which can be used as functional threads. The first plated thread is 50% visible on the face side (depending on the yarn used and machine setting), while the second plated thread is concealed in the centre of the fabric. This technology opens up totally new application possibilities for circular knitting factories.

Fine rib and spacer fabrics.

The Technit D3 can be supplied optionally for fine rib or spacer fabrics, with the relevant conversion kit available as an optional extra. This allows fabrics for functional clothing as well as technical textiles with extremely high abrasion resistance values to be produced on one and the same machine.

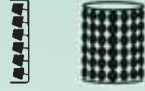











Functional threads for wide-ranging applications.

Up to 4 needle tracks in the cylinder cam box and 2 needle tracks in the dial cam box offer outstanding flexibility as well as broad scope for patterning. The extremely varied fields of application range from work apparel to heatable outdoor clothing or car seats, lining fabrics for shoes, medical technology, interior linings and upholstery in the automotive sector, seating and upholstered furniture and much more.

Cylinder diameter	30"	34"
Machine gauges	E 18, E 20, E 22	
Number of feeders	48	54
Speed up to	18 rpm	16 rpm
Minimum space requirement appr.	40 m ²	43 m ²
Weight appr.	2.700 kg	2.900 kg



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"> ● CONI+ 03 ● triple-end knitting ● 2 rings, 3 single drives, 6 tapes 		Yarn feeding <ul style="list-style-type: none"> ● MCTmatic components
	Needles/Sinkers <ul style="list-style-type: none"> ● 2 types of dial needles (central stitch length butt) ● 2 types of cylinder needles (central stitch length butt) 		Needles/Sinkers <ul style="list-style-type: none"> ● latch opener ● 4 types of cylinder needles (central stitch length butt)
	Cam parts <ul style="list-style-type: none"> ● cam segments made of perunal ● dial 2 needle tracks ● cylinder 2 needle tracks ● individual segments ● positive needle guidance 		Cam parts <ul style="list-style-type: none"> ● gauge conversion »Quick-Change« ● device for spacer-fabric for 3,5 mm ● exchange cams for structures
	Frame <ul style="list-style-type: none"> ● portal frame for 520 mm fabric rolls ● »Quick-Change« facility for easy gauge conversion 		Frame <ul style="list-style-type: none"> ● portal frame for 920 mm fabric rolls ● two-step platform ● giant frame for 1250 mm fabric rolls (30 – 34")* ● sliding platform ● assembly facility for conversion kit »Quick-Change« ● 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 (30" – 34") ● 1 KW peripheral units ● central processor with display ● control voltage 24 V 		Drive/Electric <ul style="list-style-type: none"> ● power transformer ● fabric light in the side legs
	Take-down <ul style="list-style-type: none"> ● adjustable take-down with positive drive ● rubber covered rollers ● MCT trapezoid spreader 		Take-down <ul style="list-style-type: none"> ● folding device ● fabric work box ● MCT trapezoid spreader with rolls and take down rollers for elastom. and sensit. yarns ● fabric cutting device
	Control <ul style="list-style-type: none"> ● SENSO P pressure oiler (oil: VG 22, VI 110± 20) ● 3-shift counter ● working hour counter ● central control for oiler, counter and peripheral accessories ● stationary and rotating lintblower (air: min. 6 bar, 250 l/min.) ● peripheral equipment control by display ● VG 3 		Control <ul style="list-style-type: none"> ● 4/5-shift-counter ● flutter blower
	Miscellaneous <ul style="list-style-type: none"> ● Intus for CONI+ and CONI SEP ● electr. supervision system with display (e.g. yarn feeding system, oiler safety guards and pneumatic unit) ● needle detectors 		Miscellaneous <ul style="list-style-type: none"> ● Interface for MDA ● gauge/magnet fixing ● Intus for MER and MPF ● MDA.web software for machine data acquisition

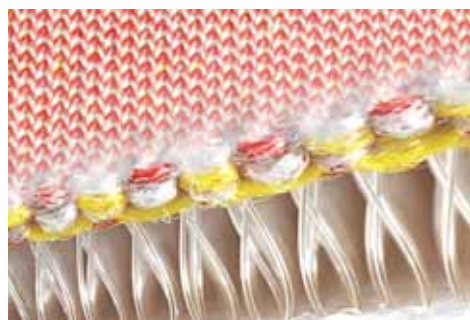
* on request

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

Reliably improved quality and versatility.

The positive needle guidance and flat cam angle with reduced friction are designed for performance and durability. The needle butts run in a completely enclosed track, enhancing operating safety and knitting quality as well as increasing the service life of needles.

4 needle tracks in the cylinder cam box and 2 in the dial cam box ensure versatility not only in terms of structured knits but also when it comes to the use of yarn in any quality or weight range.



High performance in quality and output – also with open-width.

With the increasing use of modern synthetic yarns and elastomer plating, open-width technology is gaining in importance.

Mayer & Cie. open-width devices are designed to match the stringent technical, quality and performance standards of the circular knitting machines, with both the mechanical and electronic version capable of reaching high speeds in continuous operation. With the utmost

reliability. This type of high-speed open-width technology calls for a highly stable frame construction. New drive systems, special inverters, internally developed and modified MCT software, a speed-controlled braking system and suitably designed take-down bearings are just some of the reasons for the groundbreaking new standards set by Mayer & Cie. open-width devices.

The open-width frame is also optionally available with sliding doors for reduced space requirement.



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.



3 threads in 3 plies per feeder.

Technit D3 is the first circular knitting machine to knit rib fabrics using three threads on the cylinder side. The base thread + 2 plating threads are inserted 1:1, 2:1, 3:1 etc., leaving the 1st plated thread up to 50% visible on the face side (depending on yarn usage and machine setting), while the 2nd plated thread lies concealed in the centre of the fabric. For certain fabric functions, such as electrical conductance, electromagnetic shielding and similar, the plating threads can be chosen accordingly. The use of 3 threads per feeder in 3 plies ensures substantially improved abrasion resistance values. This renders the use of circular knitted fabrics of interest also in markets which call for tougher, more durable fabrics.



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