



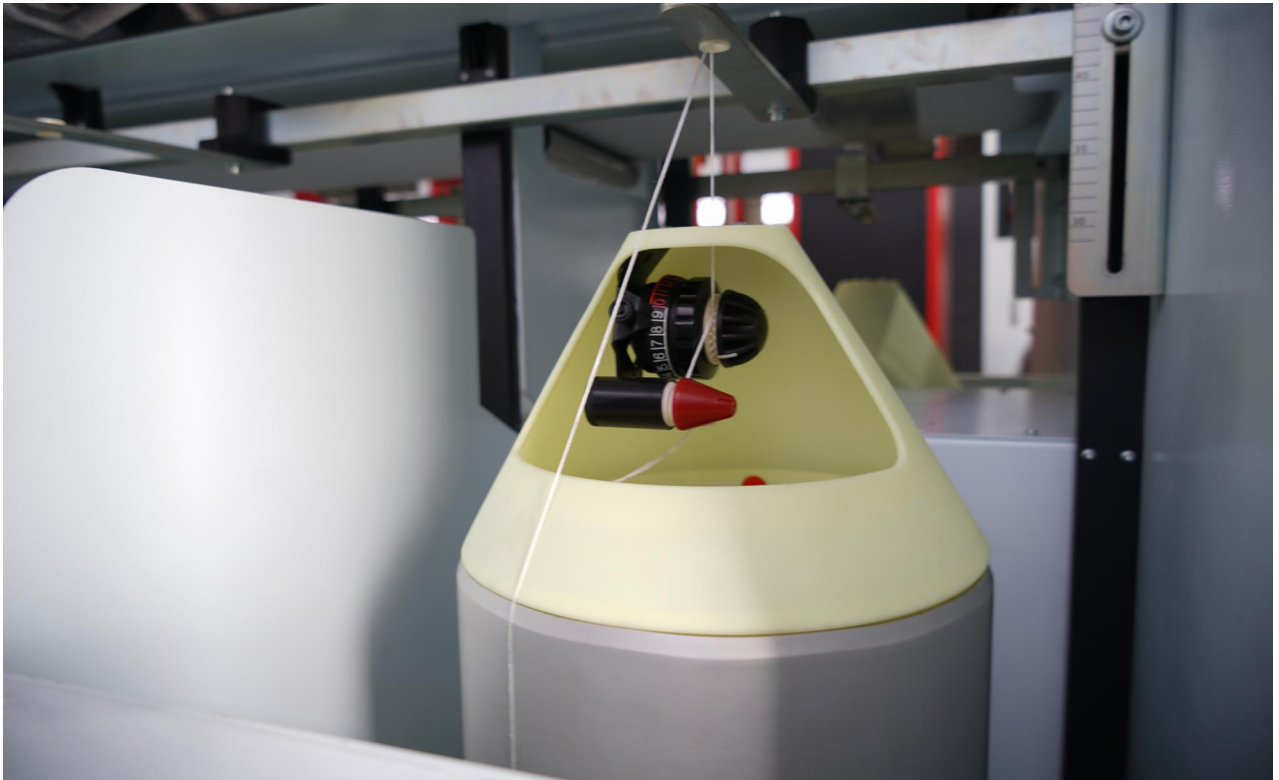
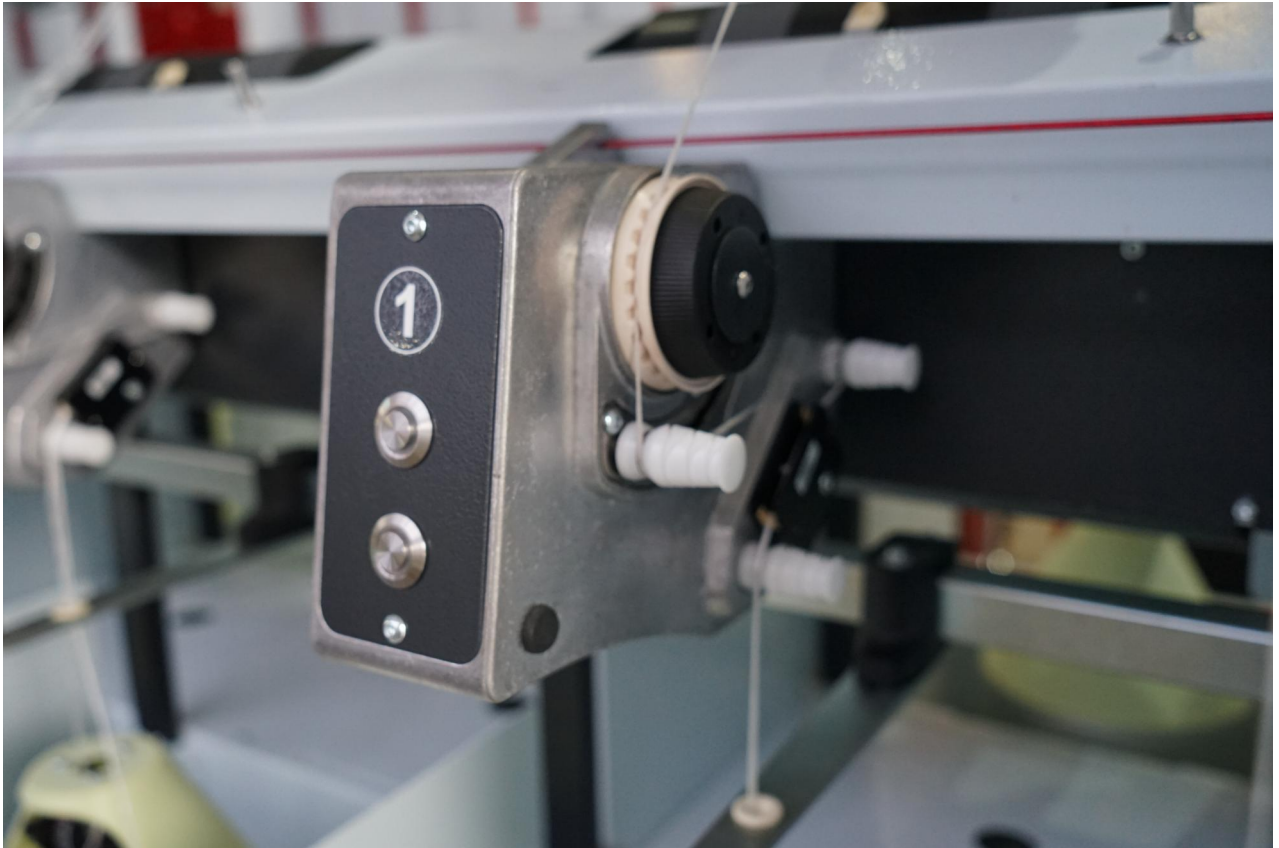
IMAGIN MACHINERY

Carpet Cabler

Twisting System

MAGN IS YOUR BEST CHOICE

## MAGN CARPET CABLER



## Product Features

NO.1 Optimised operability due to the open and easily accessible overfeed area.

NO.2 New Hi-Lo creel for ergonomic operation.

NO.3 Innovative yarn sensor, Yarn brakes for all kinds of applications.

NO.4 New network-capable software.

NO.5 Electronically monitored motor spindle, High efficiency, low energy consumption.

NO.6 3 motors per spindle, 2 servos equipped with 1 spindle high-speed direct drive motor.

NO.7 Each operating surface can produce one operating variety, providing better flexibility.



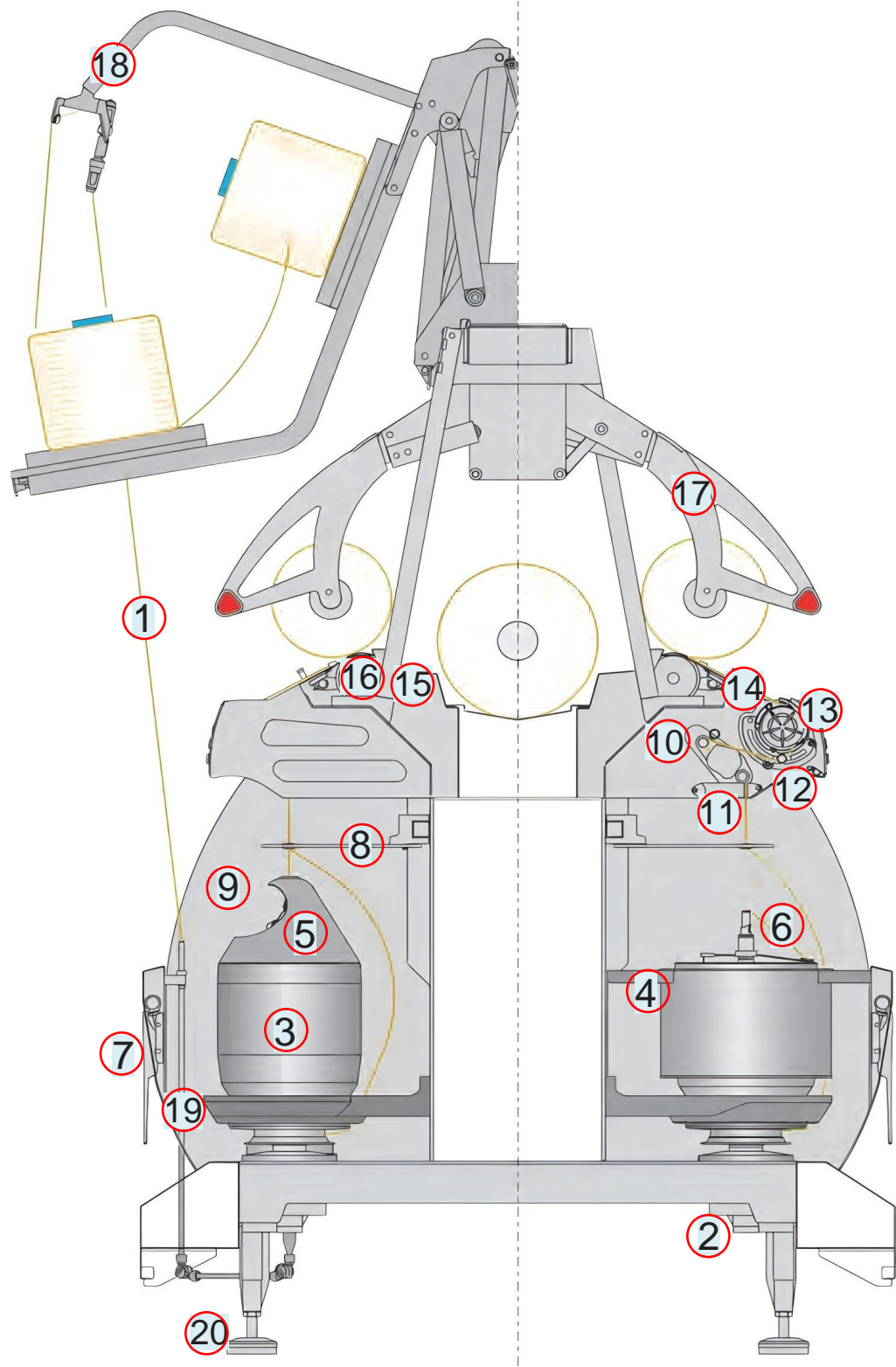
## Carpet Cabler

MAGN carpet direct twisting machine continues to provide high-quality carpet yarn for customers to produce precision carpets and other textiles.

Our products mainly highlight energy-saving, convenient operation, and higher cost-effectiveness , allowing our customers to better understand the optimization of their choices.

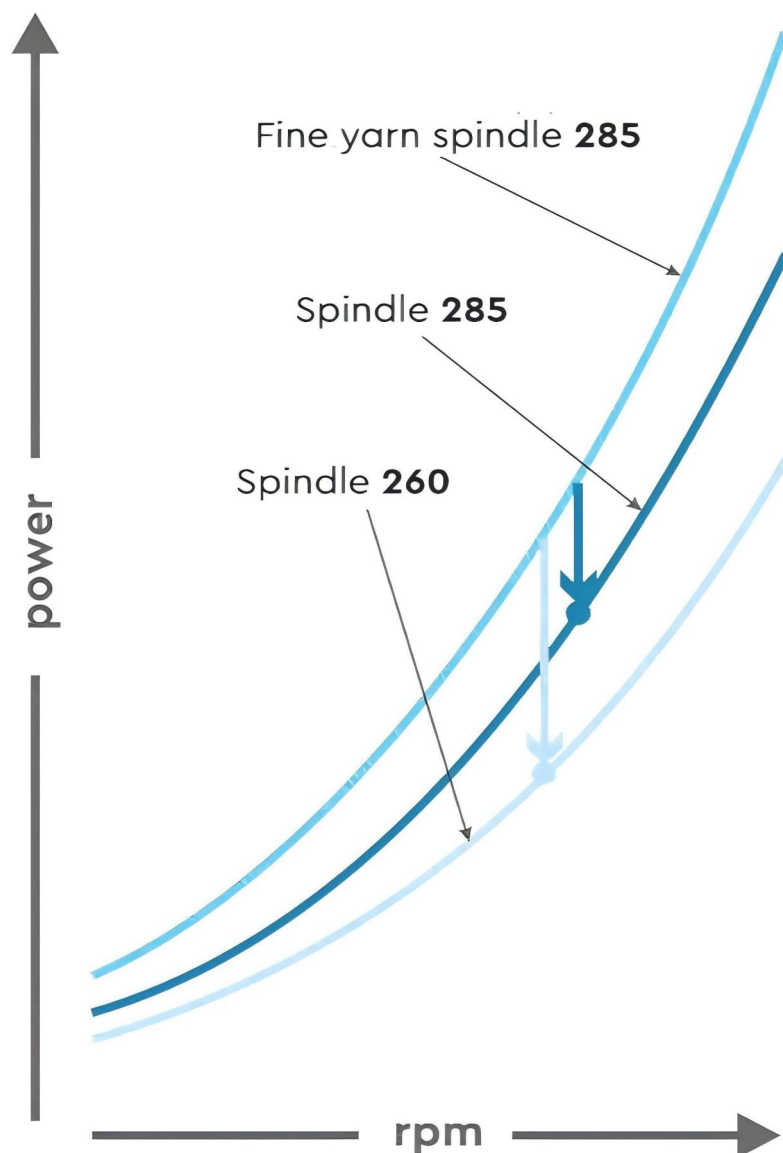


MAGN CARPET CABLER



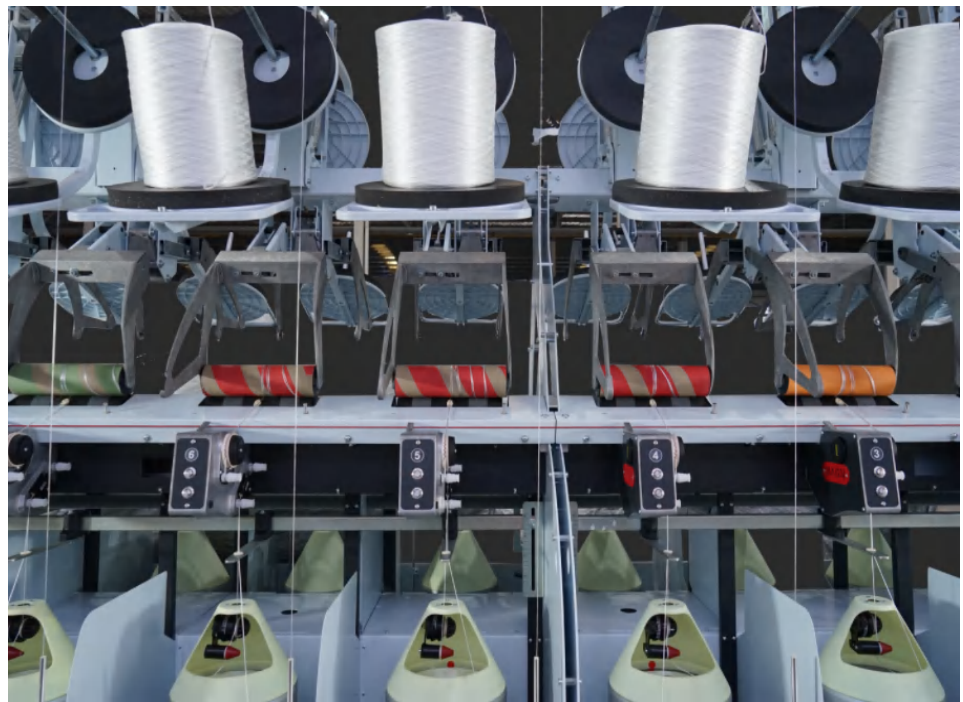
1	yarn path	2	motor spindle drive	3	spindle pot	4	balloon limiter
5	cabling tension hood	6	yarn brake and flyer	7	knee lever for yarn threading	8	yarn balloon guide
9	separator	10	quality sensor	11	cutting and clamping device	12	deflection roller
13	overfeed roller	14	traversing mechanism	15	package lift-off paddle	16	friction roller
17	cradle	18	HI-lo creel with brake	19	yarn guide tube	20	installation feet

## ABOUT ENERGY CONSUMPTION



Lower Energy  
Consumption  
Faster RPM





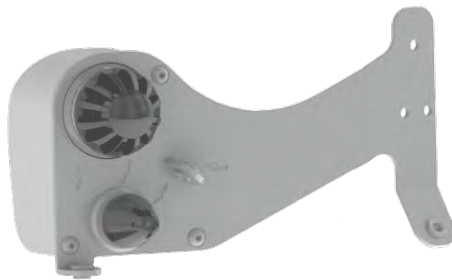
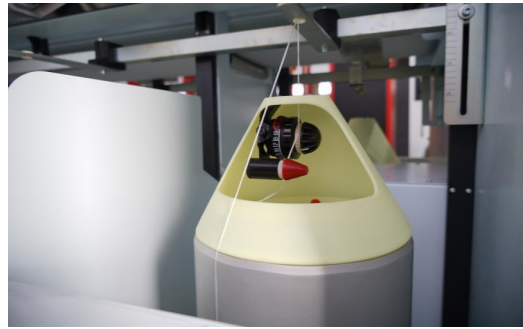
## Hi-Lo creel with reduced working height

### Mechanical Hi-Lo creel

The spring-supported Hi-Lo creel makes it easier to present the packages due to its clear and simple operation. The reduced working height supports the operator during loading.

#### Advantages:

- >Ergonomic loading position
- >Simple high-low operation
- >Robust and reliable
- >Automatic locking
- >Optimised yarn path
- >Flexible creel loading with up to 3 packages and a maximum total weight of 16 kg.
- >Extra plug-in options for alternative customer requirements
- >Various creel yarn brakes
- >Simple operation



## Creel yarn tension solutions

The large selection of creel yarn brakes in combination with various pre-brakes and different deflection guide rollers offers solutions for the most varied strand requirements.

Double multi-tension device (standard)

- >Very wide range of adjustable yarn tensile forces
- >Calming of the yarn through the gradual application of braking force
- >Self-cleaning due to open design

Creel ball yarn tensioner

- >Good simultaneous readability of the inner yarn and outer yarn brake.
- >The transfer tail can be adjusted during strobe observation
- >The creel does not have to be lowered (increasing machine availability)

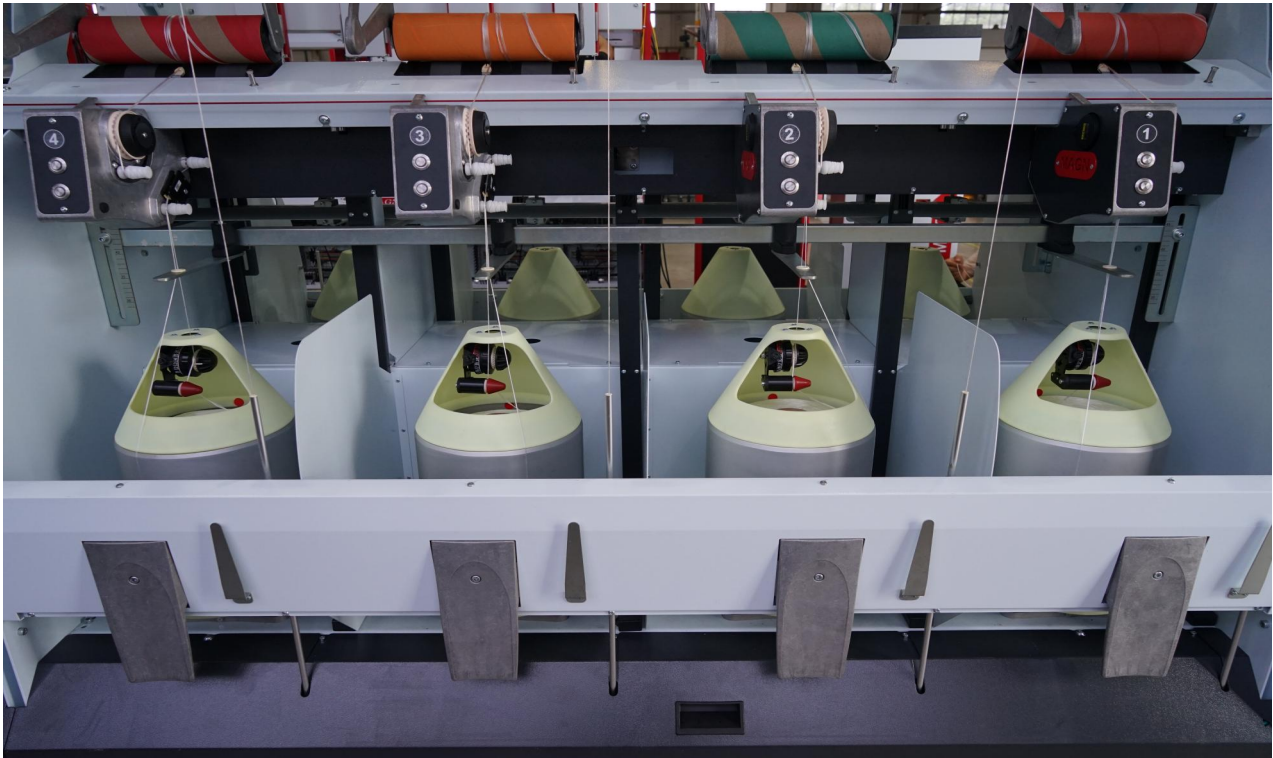
Compensation tensioner

- >Uniform yarn take-up
- >Reproducible withdrawal forces
- >Compensation of tension fluctuations in the strand

Roller tensioner

- >Central, pneumatic adjustability per machine side via control panel
- >Reduced conversion times
- >Optimum unwinding conditions
- >Reproducible withdrawal forces
- >Good knot passage capability
- >Reduction of setting errors
- >Processing of special strands





## For better yarn quality

The optimum combination of spindle and spindle pot in combination with brakes, unwinding aids and brake hoods represents the decisive component for the production of high-quality yarns.

### Hysteresis tensioner

Calibrated, high-precision hysteresis brakes have been specially developed for processing carpet strands in the direct cabling process. The quick adjustability can be easily reproduced on all hoods due to the clear readability of the brake.

The hysteresis brakes guarantee a homogeneous strand quality due to precise and high-quality, wear-resistant yarn guide elements.

### Brake hood

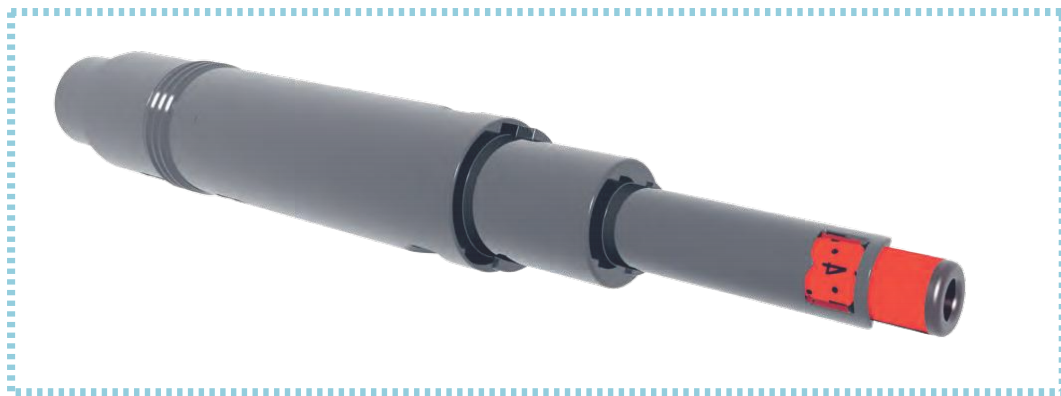
The new brake hood can withstand even the heaviest loads thanks to the use of state-of-the-art materials. (For example, 3D printing materials or molded plastics)



## Customized spindle for cabling

### Universal hollow-shaft spindle

- >The universal hollow-shaft spindle allows the simple alternating conversion from the two -for- one method to the cabling method.
- >The high-quality and wear-resistant surface enables a yarn guidance without damaging the strand. The ideal design of the spindle pot allows a maximum number of feed packages.
- >The reserve disc with its wear-resistant special surface guarantees a balanced tension level in the yarn balloon.



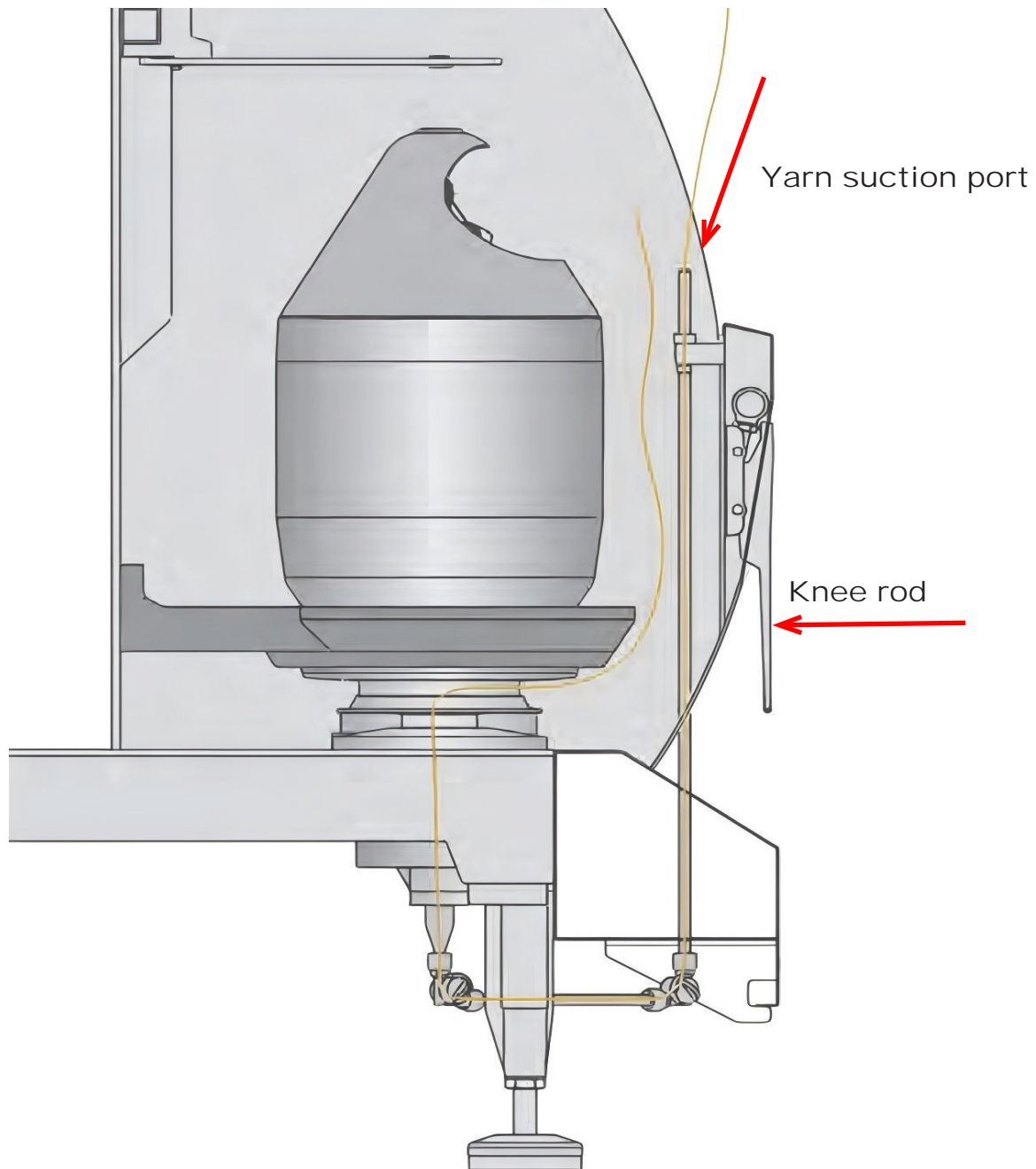
## Tensioner & unwinding aids

High-speed elements for up-twisting

Specially designed unwinding aids allow the processing of up-twisted articles with low amounts of twist and high take-up speeds. When an inner balloon is formed, resulting from very high unwinding speeds, the protective hood ensures that inner balloon and outer balloon are separated.

Tensioner

- >Two different pot brakes are available for the two-for-one twisting process:
- >The proven multi-tension device offers 5 different tension capsules for different requirements.
- >The ball yarn brake covers the entire yarn tension range with the wear-resistant ceramic ball. A simple turn of the inlet tube quickly adjusts the braking force over 24 levels.



## Pneumatic yarn pulling system

Threading systems suck the yarn through the spindle, guide it upwards around the spindle pot and thus avoid the tedious manual threading process.

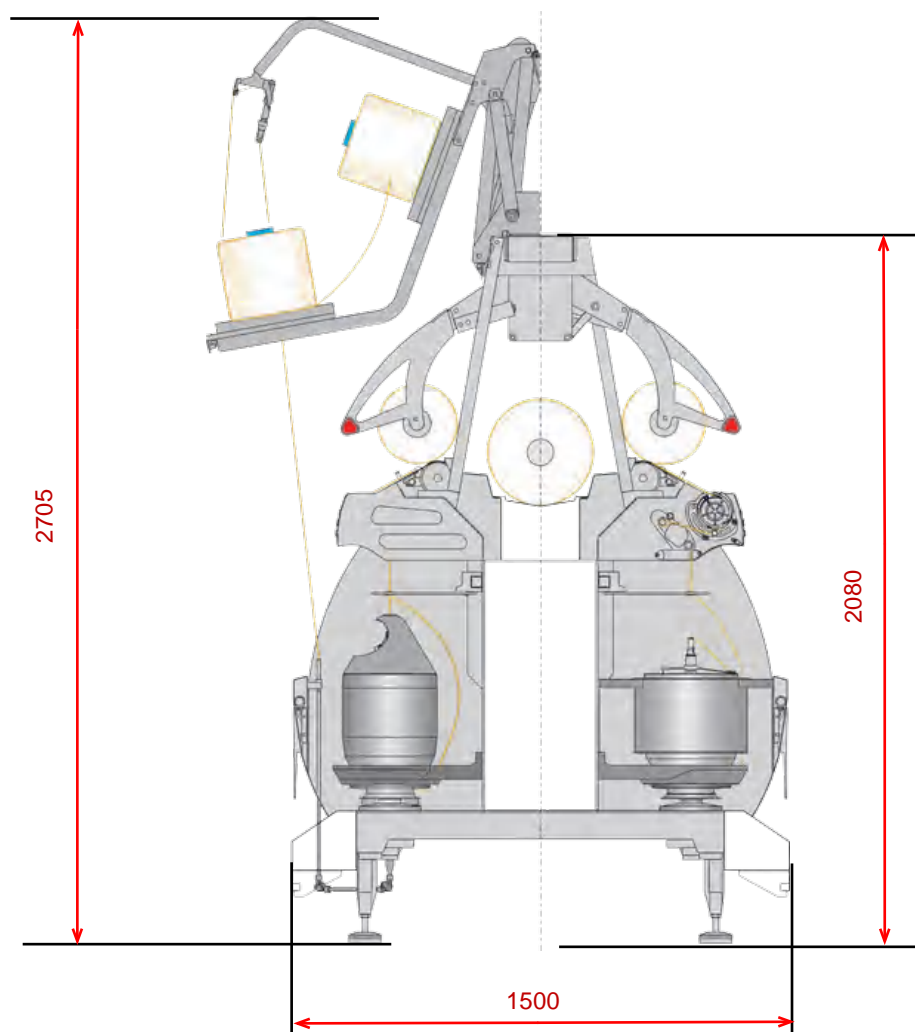
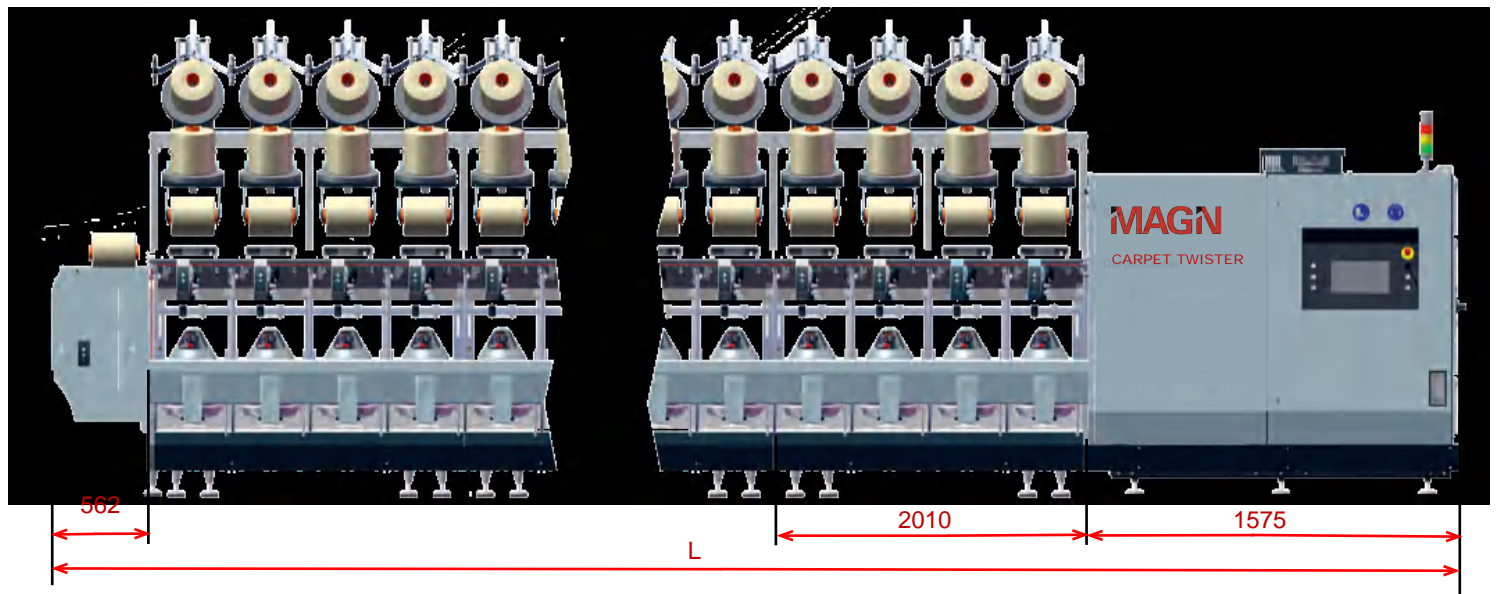
### Knee rod

The knee rod is ergonomically adapted to the operator's needs and starts threading the yarn.

The optimised motion sequence improves the working posture and contributes to keeping your employees healthy.



## Machine dimensions



NOTE: If you have any other customized size requirements, please contact our sales or technical personnel in a timely manner

# Technical data

## Twist range

21 to 355 t/m, 41 to 710 t/m

## Yarn count range(depending on spindle type)

500 to 5,000 dtex Nm 2/2 to 28/2

## Spindle speed

up to 10,000 rpm

## Take-up speed

Max. 150 m/min

Packages	Creel package	Pot feed package spindle 285	Pot feed package spindle 260	Cylindrical take-up package	Tapered take-up package
Winding stroke:	254 mm	254 mm	254 mm	254 mm	254 mm
Max. package diameter:	285 mm	285 mm	255 mm	400 mm	400 mm
Max. tube length:	290 mm	290 mm	290 mm	290 mm	290 mm
Min. inner tube diameter:	73 mm	73 mm	73 mm	73 mm	33 mm
Net strand weight:	approx. 5.5 kg	approx. 5.5 kg	approx. 4.8 kg		

## Spindle gauge 450

unit of length:mm

No.of sp	8/10	16/20	24/30	32/40	40/50	48/60	56/70	64/80	72/90
Machine length	4147	6157	8167	10177	12187	14197	16207	18217	20227
No.of sp	80/100	88/110	96/120	104/130	112/140	120/150	128/160	136/170	144/180
Machine length	22237	24247	26257	28267	30277	32287	34297	36307	38317
No.of sp	152/190	160/200	168/--	176/--	--	--	--	--	--
Machine length	40327	42337	44347	46357	--	--	--	--	--

## Spindle gauge 500

unit of length:mm

No.of sp	8	16	24	32	40	48	56	64	72
Machine length	4147	6157	8167	10177	12187	14197	16207	18217	20227
No.of sp	80	88	96	104	112	120	128	136	144
Machine length	22237	24247	26257	28267	30277	32287	34297	36307	38317
No.of sp	152	160	168	176	--	--	--	--	--
Machine length	40327	42337	44347	46357	--	--	--	--	--



# MAGN

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