

Space saving position in the creel (1) 图片(1)紧凑设计的放丝架

TEXMER- tension meter with length adjustment (2) 图片(2)带长度调节装置的 TEXMER 张力计

Pneumatic shaft " fast + safely" (3) 图片(3) "fast+safely" 气胀轴

**PAN-PRECURSOR**  
**PAN 型碳化线原丝放丝架**

Our Pan-precursor creel has been developed especially for an even and careful unwinding of large precursor bobbins up to 300 kg. 我们的 PAN 型原丝放丝架是专为退绕重达 300 公斤的碳纤原丝而开发的，退绕纱线张力均匀稳定。

All bobbins can be adjusted simultaneously, centrally and steplessly to the requested thread tension of 80-2000 cN. At larger creel lengths an increase of thread tension can be compensated in groups. 所有筒纱可同时、集中、无级进行张力调节，调节范围 80-2000 厘牛。对于大型纱架，可以分组补偿因纱架长度引起的纱线张力差异。

Pneumatic shaft axles guarantee a tight and centred position of the bobbins and assure a fast and comfortable exchange of the bobbins. 采用气胀轴，可保证安全和居中锁紧筒纱，也使更换筒纱快捷和方便。

A special bevel spur gear drive in connection with a PAN-fibre tuned tension meter with length adjustment assures a careful start-up, an even thread unwinding as well as quick stopping of the bobbins. Thread guides made out of titan dioxide as well as huge supported deflecting rollers with "orange-skin-coating" provide a clean and safe thread progress of the fabric. 专用的斜齿轮驱动同 PAN 原丝相连，带长度调节装置，保证良好的启动、均匀的退绕，以及快速停车。导丝件为氧化钛瓷件，同时，大规格的托持辊，表面经“橘皮涂层”，可保证干净、安全，不易缠丝的工作环境。

Those measures guarantee a careful guidance of fabric in the entire process. 这些能保证在整个退绕过程中良好的引导。

The on-site mounting effort of the creel is reduced by pre-assembling in sections. 预组装交货，可减少现场组装的工作量。

Please send us your request. 我们期待您的询价。