

## MSF 3 ATC

Storage feeder: high-dynamic yarn tension controlling

Origin of the storage feeder MSF 3 ATC is the well-known MSF 3 CAN, which is combined with the high-dynamic yarn tension controlling brake ATC (Active Tension Control). The control unit GTN allows the central set up of all units. The yarn tension regulating system ensures, that the output tension of all MSF 3 ATC remain constant at the preset value, independent from external factors like size of the bobbins or quality of the yarns.

One feature of the ATC is the very high dynamic of the system. The yarn tension is permanently measured by a yarn tension sensor. The high-dynamic microprocessor supported controller in connection with the electrical adjustable brake ensures, that deviations in yarn tension will be corrected in between milliseconds. Yarn tension peaks which are caused due to irregularities in the yarn are compensated with the help of the ATC system.

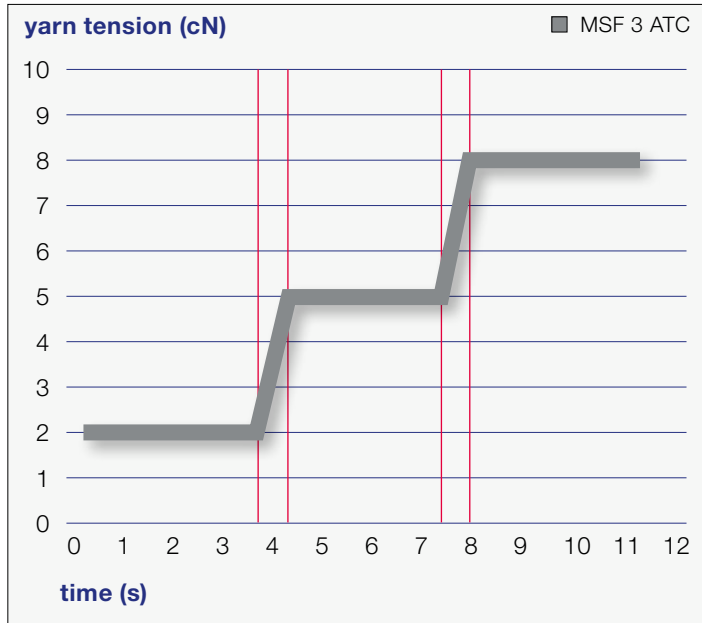
The measuring and setting of the yarn tension at the feeder during setting up the fabric quality is no more necessary. There is also no need of checking the yarn tension during the knitting process or when changing the bobbins.

### Advantages:

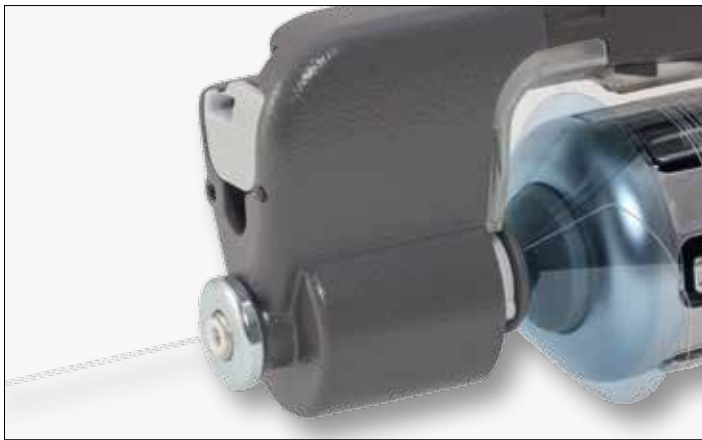
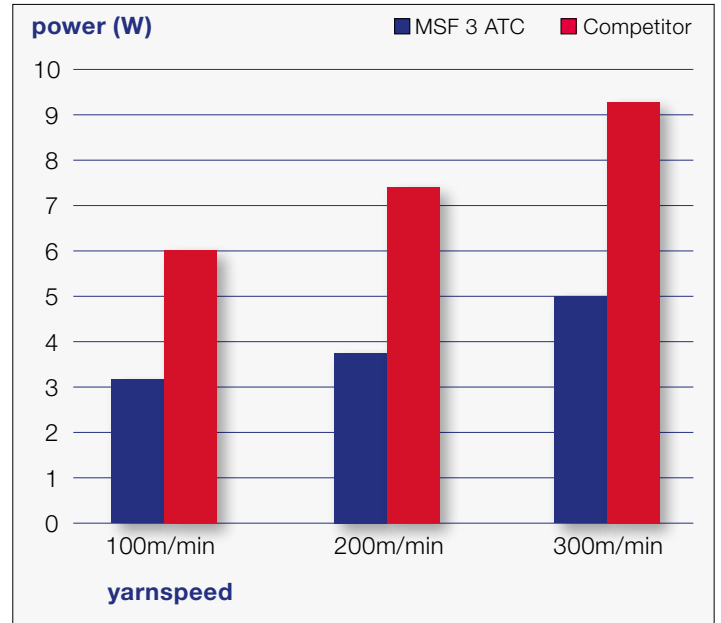
- High dynamic system, which eliminates the inaction of mechanical systems
- Processing of sensible yarns with high productivity and controlled stable yarn tension
- High fabric quality, yarn tension differences between the yarn bobbins are eliminated
- Reduction of needle breakage
- Reduction of production cost and increasing of machine efficiency
- Saving of energy due to optimization of all components to low energy consumption

# MSF 3 ATC: Dynamic and Energy consumption

## Dynamic of ATC



## Energy consumption MSF3 ATC



### MSF 3 VC version

Central yarn tension setting without active yarn tension regulation. This considerably reduces machine set-up times and costs. The yarn length measuring function is also integrated in the MSF 3 VC.

## Technical data

Power supply:	57 V DC
Current:	0,47 A (depending on application)
Max. power:	85 VA
Average power:	25 VA ( depending on application)
Yarn tension:	1,0 cN – 10 cN, depending on the processed yarn
Yarn gauge range:	17-500 dtex
Max. yarn feed rate:	600m/min
Weight:	2,2 kg (MSF 3 VC: 2,1 kg)

Applications	
■ Circular knitting machines	■ Flat knitting machines
■ Sock machines	■ Warp knitting machines
■ Hosiery machines	■ Seamless machines

## ADVANCED KNITTING TECHNOLOGY

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