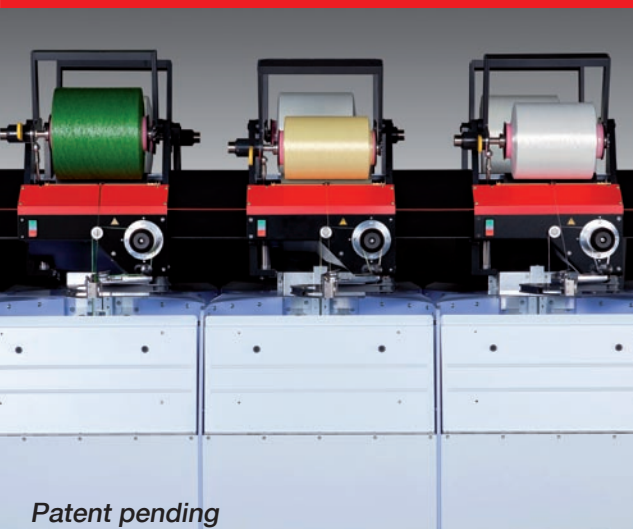


# Allma TC2

## Perfectioning technical yarns



Patent pending

### Allma TC2 revolutionizes the market for technical yarns

Technical yarns are used in very different fields of application of our environment. Industrial textiles, geotextiles, packaging textiles represent only a few examples of possible applications. As manifold as the applications are, as high are the demands placed on the production technology for technical yarns.

Over the years the Allma TCS has been continuously developed and adapted to the growing demands of the segment. When we nowadays talk to customers about the leading Allma TCS, everybody agrees that the Allma TCS is a high-quality, reliable and sophisticated twisting machine.

With the Allma TC2, Oerlikon Saurer, Allma Product Line, sets new highlights in the cost-effective production of innovative twisted yarns. Its high flexibility and productivity make the machine unique. The Allma TC2 proves once again that the customer is in the focus of our development. The new machine provides our customers with a production system allowing them to optimally meet the requirements of the future.

### Allma TC2 – Your advantages:

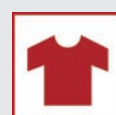
- Maximum production flexibility
- Unique material flexibility
- Wide range of yarn counts
- Unbeatable productivity
- Allma PrimePac – Top package quality
- Maximum economic efficiency and quality thanks to cutting-edge technology



Agrotech



Buildtech



Clothtech



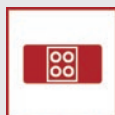
Geotech



Homotech



Indutech



Medtech



Mobiltech



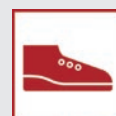
Oekotech



Packtech



Protech



Sporttech

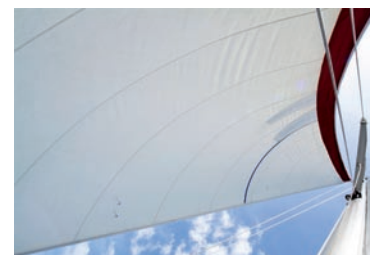
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Allma TC2 –  
Perfect technical  
yarns

**tire**  
technology  
INTERNATIONAL 2011  
**AWARDS**  
FOR INNOVATION AND EXCELLENCE

Tire Industry  
Supplier of the Year

competence  
in twisting



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innovation  
has a name  
**oerlikon**  
saurer

# Allma TC2 – Maximum customer benefit

## Flexibility

### Maximum production flexibility

The autarkic spindle technology allows you to run your individual production on each spindle. The state-of-the-art assembling unit expands the Allma TC2's field of application enabling new twist constructions according to the two-for-one system.

### Unique material flexibility and wide range of counts

New surfaces and a know-how gained over decades of cooperation with our customers, allow the manufacturing of high-quality first-class twisted yarns made from very delicate materials on the Allma TC2. But also coarse materials in PP and PE can be economically processed in a high quality on the Allma TC2. The wide range of counts from 235 dtex to 60,000 dtex offers a unique variety.

## Productivity

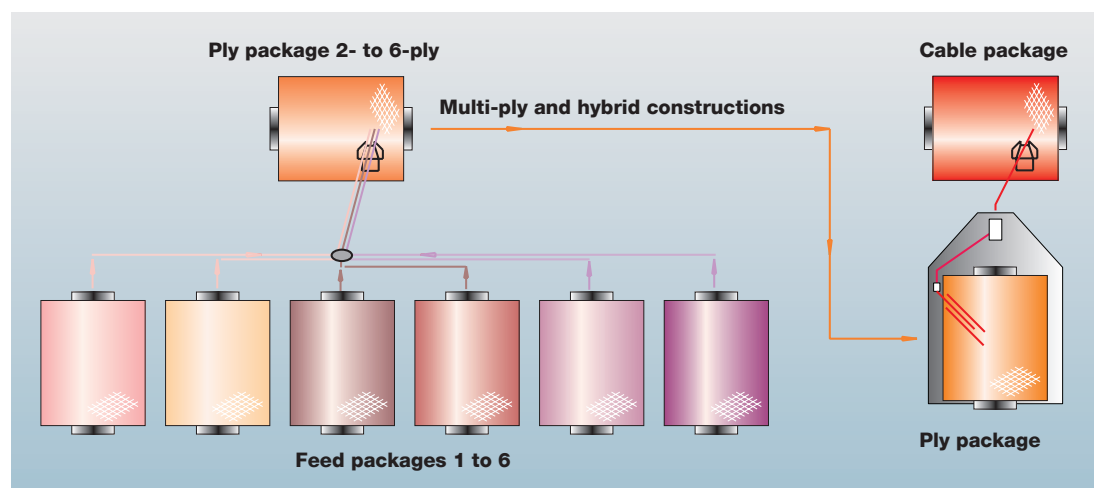
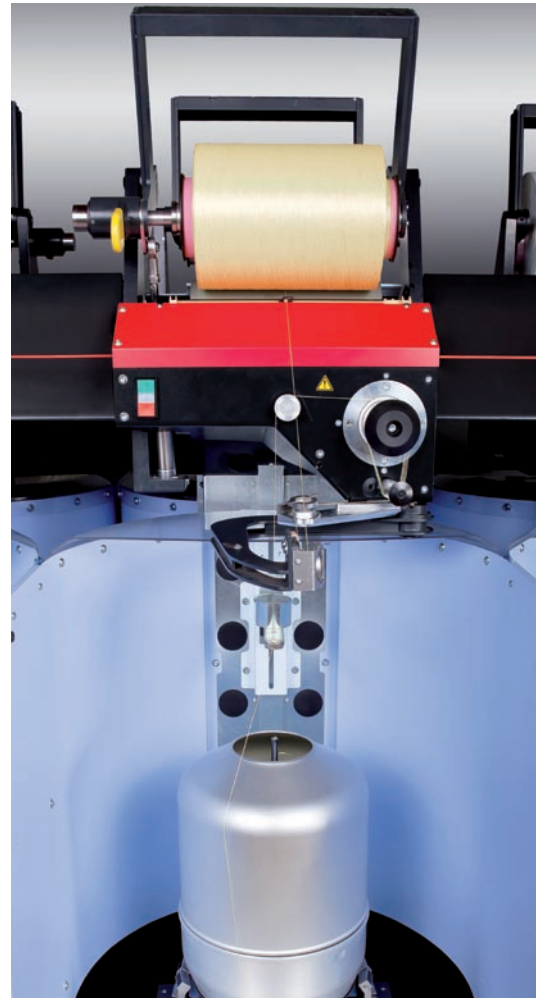
### Unbeatable productivity

A delivery speed of 450 m/min is world class and unique in twisting technical yarns. Large feed and twist package weights of up to 18 kg ensure maximum economic efficiency.

## Quality

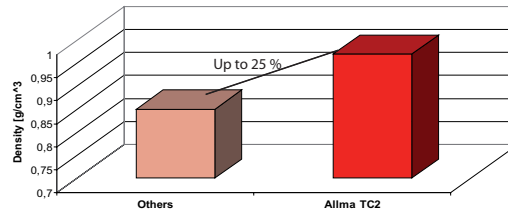
### First-class twist quality

The processing of high-quality yarns on Allma TC2 is guaranteed by innovative process monitoring systems, optimum yarn path geometry as well as gentle and low-tension thread guidance.



### Allma PrimePac – Top package quality

The new winding system on Allma TC2 allows for twist packages of unrivalled quality. Depending on yarn count and material, twist package density can be increased by up to 25 percent.



Package quality

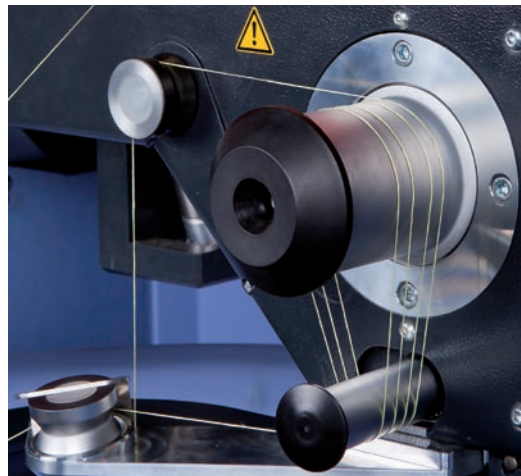
### High user-friendliness

The Allma TC2's high user-friendliness is ensured by its innovative spindle concept and the ergonomic arrangement of the main components. Newly shaped and arranged operating elements reduce operating and maintenance times and increase the machine's productivity even more.

User-friendliness

### Maximum economic efficiency and quality through the most advanced technology

Energy-optimised modern drives and the slim thread balloon as a result of a height adjustable balloon thread guide considerably enhance the machine's energy balance. The robust design and high-quality components ensure a long machine life with minimum maintenance requirements on Allma TC2.



Economic efficiency

### Wide range

We offer you a wide range of additional devices to configure your individual Allma TC2 machine in order to distinguish yourselves from the competition.



# Technical and textile data

| Allma TC2                                                                                                                                                                                                                                                                               |                     | TC2 670                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                         |                     | For technical yarns from single and multi-ply yarns for unlimited flexibility                        |
|                                                                                                                                                                                                                                                                                         |                     | With assembling unit for balanced and unbalanced yarns and multi-ply constructions                   |
| Field of application                                                                                                                                                                                                                                                                    |                     | For fine and medium yarns up to 13 200 dtex                                                          |
| Spindle gauge                                                                                                                                                                                                                                                                           | mm                  | 670                                                                                                  |
| Spindle sizes                                                                                                                                                                                                                                                                           | mm Ø/traverse       | 280/10", 280/12", 300/10", 300/12", 330/10", 330/12" (Please consult us for further package formats) |
| Number of spindles                                                                                                                                                                                                                                                                      | max.                | 120                                                                                                  |
| Spindle speed                                                                                                                                                                                                                                                                           | rpm max.            | 2000 - 10 000 depending on spindle size                                                              |
| Range of twists                                                                                                                                                                                                                                                                         | tpm                 | 12 – 733 depending on spindle rpm and delivery speed                                                 |
| Direction of twist                                                                                                                                                                                                                                                                      |                     | S or Z                                                                                               |
| Delivery speed                                                                                                                                                                                                                                                                          | m/min.              | 30 – 450                                                                                             |
| Twist package                                                                                                                                                                                                                                                                           | mm Ø max./traverse  | 350/10"                                                                                              |
|                                                                                                                                                                                                                                                                                         | Weight max. kg      | 18                                                                                                   |
| Materials                                                                                                                                                                                                                                                                               |                     | PA, PES, PP, PE, AR, CV, PVA, Dyneema (Please consult us for further materials)                      |
| Range of counts                                                                                                                                                                                                                                                                         | PA/PES              | 235 – 13 200 dtex                                                                                    |
|                                                                                                                                                                                                                                                                                         | PE/PP small tapes   |                                                                                                      |
|                                                                                                                                                                                                                                                                                         | PE/PP monofilament  | 1100 – 13 500 dtex*                                                                                  |
|                                                                                                                                                                                                                                                                                         | PE/PP multifilament | 440 – 13 500 dtex*                                                                                   |
| <b>Additional devices</b>                                                                                                                                                                                                                                                               |                     |                                                                                                      |
| Power line filter, matching transformer, interface for production data acquisition and monitoring, remote diagnostics, separate length measuring, PreciTail, campanello, noise abatement, Airomat, suction upwards or downwards, assembling unit, yarn sensor, tensiometer, stroboscope |                     |                                                                                                      |
| <b>* Please consult us for an extended range</b>                                                                                                                                                                                                                                        |                     |                                                                                                      |

| Feed packages       | Ø 280 mm<br>kg | Ø 300 mm<br>kg | Ø 330 mm<br>kg |
|---------------------|----------------|----------------|----------------|
| <b>Traverse 10"</b> | PA 11.0        | PA 13.1        | PA 16.3        |
|                     | PES 12.5       | PES 15.2       | PES 18.9       |
|                     | CV 12.8        | CV 16.0        | CV 19.9        |
|                     | AR 12.8        | AR 16.0        | AR 19.9        |
|                     |                |                |                |
| <b>Traverse 12"</b> | PA 13.2        | PA 15.7        | PA 19.5        |
|                     | PES 15.0       | PES 18.2       | PES 22.6       |

The weights are only approximate values, i.e. they may vary with the tube size and package density.

PA = polyamide, PES = polyester, AR = aramid, CV = rayon, PP = polypropylene, PE = polyethylene, PVA = polyvinyl alcohol