



Advanced Technology Center

**MONFORIZE** YOUR PRODUCT

A. Monforts Textilmaschinen GmbH & Co. KG | [www.monforts.com](http://www.monforts.com)

# Your Powerful Partners



## Services rendered at the Monforts ATC

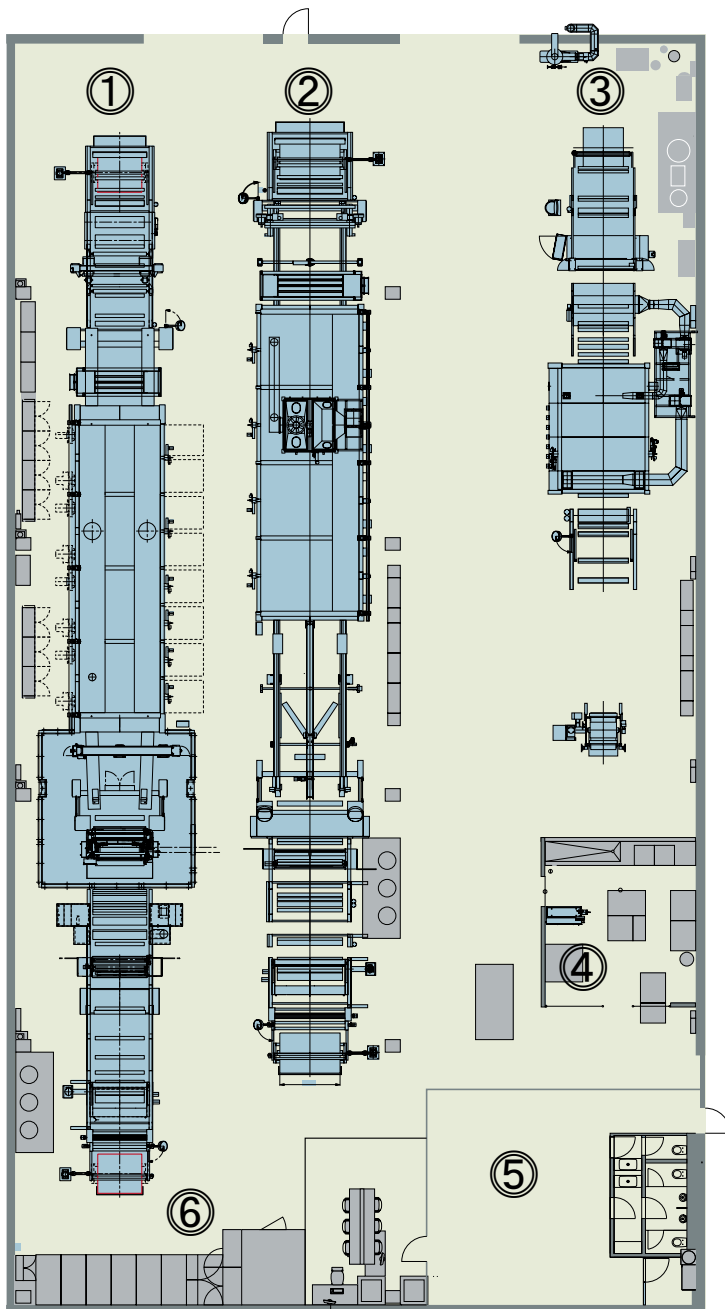
- Machine presentation to customers
- Trials with customer fabric
- Training of operators and service personnel
- Development of new processes
- Machine development

## Range of application

- I. Continuous dyeing of woven fabrics
- II. Continuous yarn dyeing and bleaching
- III. Finishing of knitted fabrics
- IV. Finishing of woven fabrics
- V. Special applications
- VI. Finishing of technical textiles
- VII. Coating
  - knife over air
  - knife over roller
  - magnet roller coating
  - paste and foam application
  - screen printing
  - EX-proof for solvent based coatings

Ask our technologists.  
We will be happy to advise you.

# Infrastructure

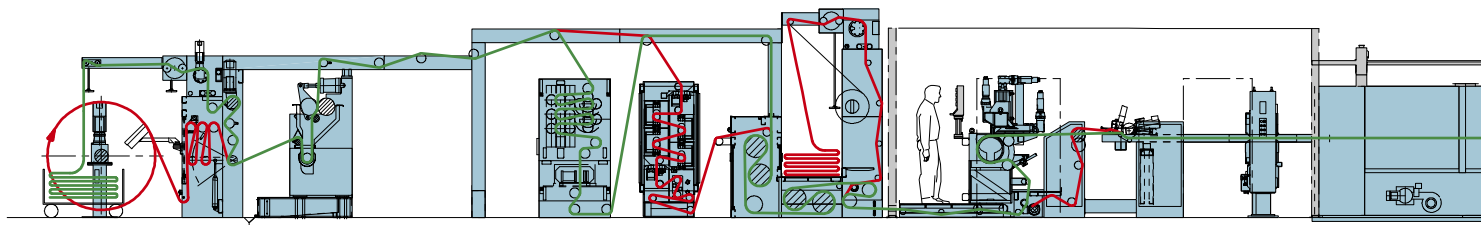


## The Monforts Advanced Technology Center

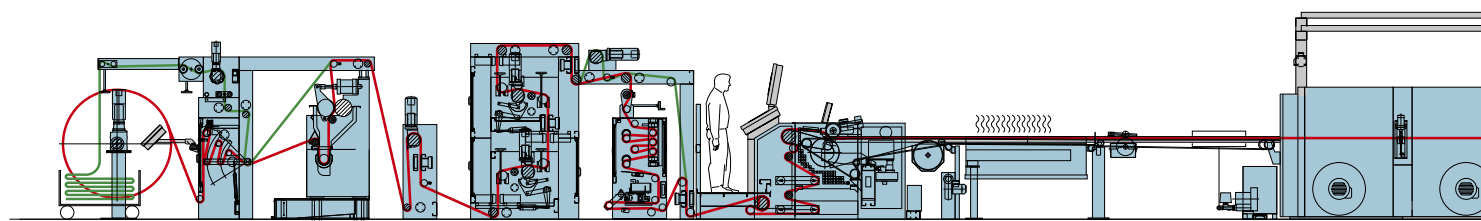
With an all-embracing range of machines, the Monforts Advanced Technology Center offers customers and partners the possibility of carrying out extensive fabric trials under real production conditions: For absolute reliability in the finishing result and tailored machine engineering.

- ① **Montex I:** stenter for
  - woven and knitted fabrics
  - special applications
  - technical textiles
  - coating
  - EX-proof execution
  - temperatures up to 320° C
- ② **Montex II:** stenter for
  - woven and knitted fabrics
  - EcoApplicator (minimal application)
- ③ **Thermex hotflue** for
  - continuous dyeing
  - continuous yarn dyeing
  - continuous yarn bleaching
- ④ **Laboratory**
  - Laboratory Eco-Applicator
  - Film testing equipment
  - Equipment for quality control
  - Laboratory padder with different roller shore hardness
  - Laboratory coating device
  - Laboratory dryer
  - Setex equipment for stitch course, weight and moisture control
- ⑤ **Meeting Area**
- ⑥ **Storage Area**

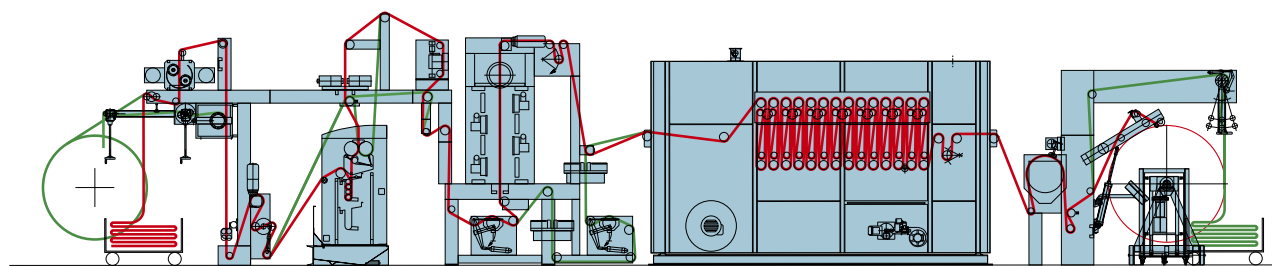




Montex I ①

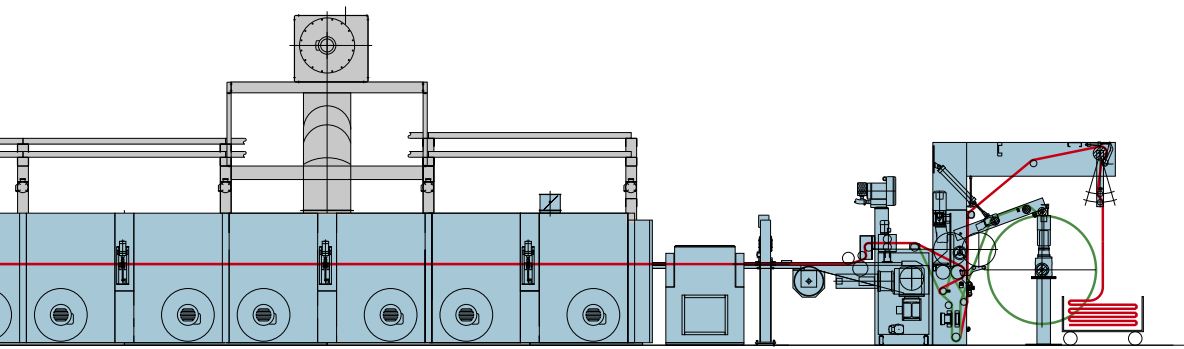
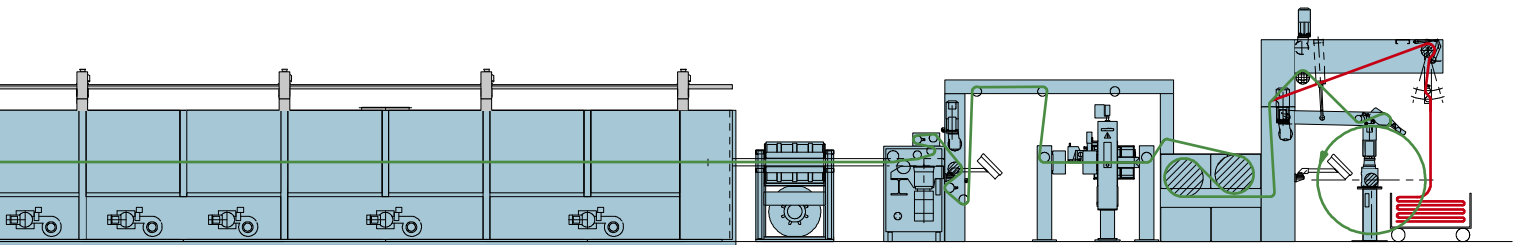


Montex II ②



Thermex ③





Latest PLC Qualitex 800



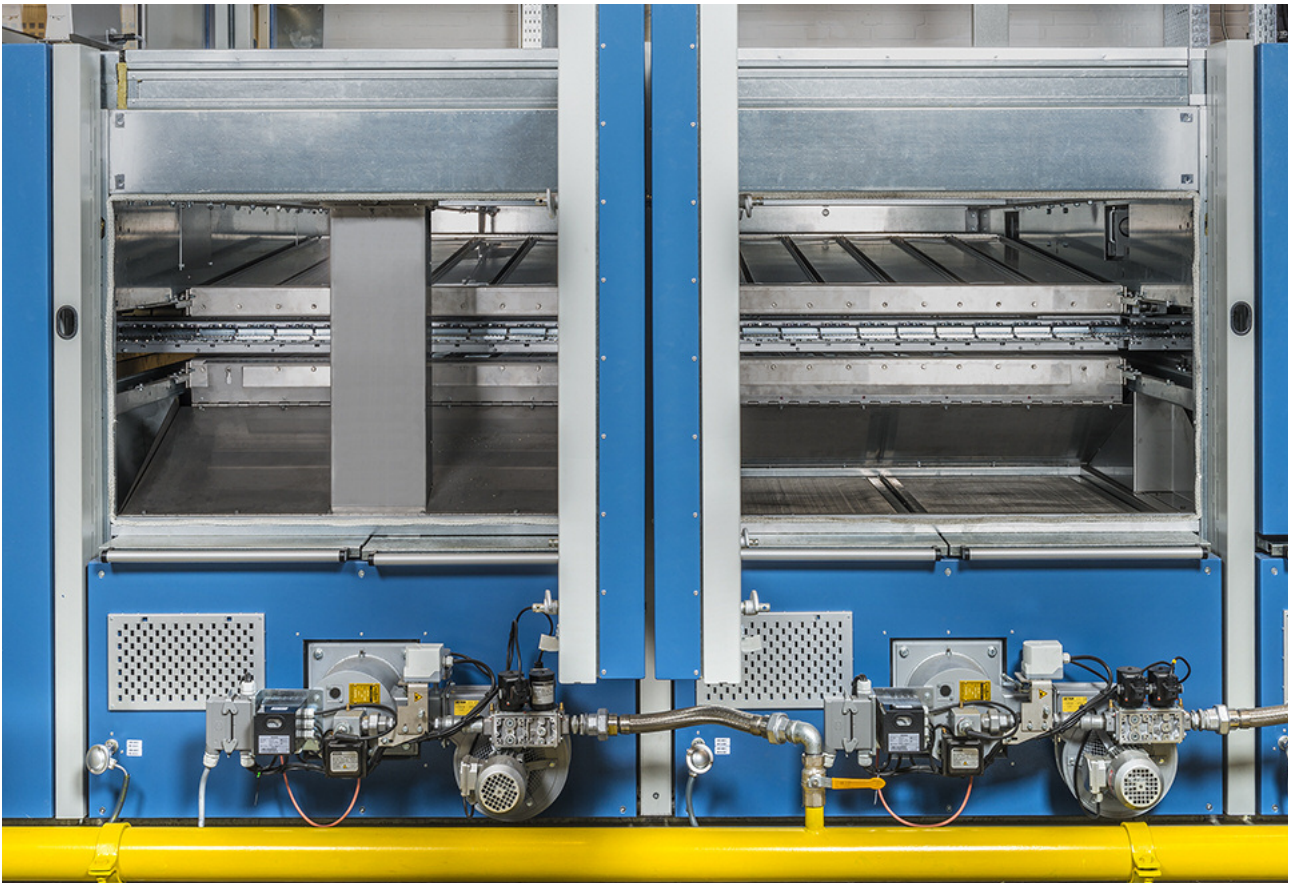
MONTEX I for: Finishing of woven and knitted fabrics  
as well as special applications  
Montex 4F, horizontal pin chain  
Fabric width 60 – 180 cm

- Padder for liquor application
  - finishing
  - pigment dyeing
- Weft straightener
- Stretching device
- Coating module – Montex®Coat
  - PVC-foam application
  - water or solvent based coating
  - paste, foam and liquor application
- EX-proof execution
- Stenter for
  - drying
  - heat setting
  - vulcanizing





# Special Features for Special Applications



- TwinTherm execution with upper / lower temperature split
- Explosion protection for finishing with solvents
- up to max. 320°C
- Stretching device Longitudinal up to 10.000N/m
- Stretching device widthwise up to 15.000N/m







EX-proof execution



A wide range of different doctor blade systems - also in combination - to meet the individual requirements:

- Air knife coating
- Roller knife coating
- Screen printing
- Magnetic roller coating direct and indirect





## MONTEX II for: Finishing of woven and knitted fabrics Montex 4F, vertical pin chain Fabric width 60 - 240cm.

- Liquor application with padder or Eco Applicator
  - Finishing liquor
  - Pigment dye liquor
- Weft straightener
- Selvedge glueing
- Selvedge cutting
- V-Steamer
- Stenter for
  - drying
  - heat setting
  - curing



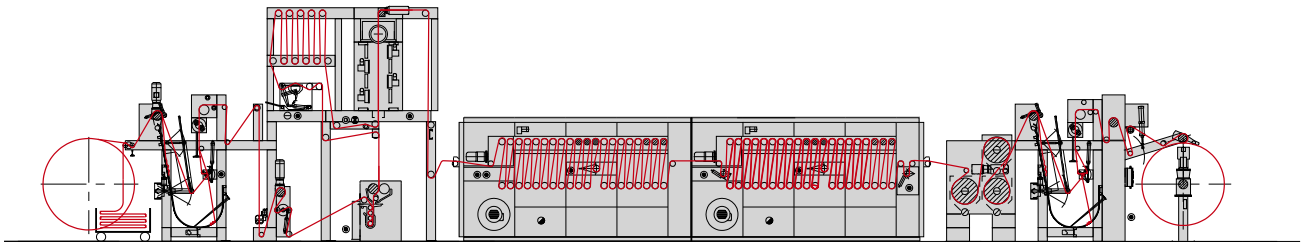
THERMEX for: Continuous dyeing,  
Continuous yarn dyeing CYD  
Continuous yarn bleaching CYB  
Fabric width 60 - 180cm

- Drying with
  - Infrared predrier
  - Hotflue
- ECO processes:
  - Econtrol®
  - Econtrol® T-CA
- CYD
- Hotflue for
  - heat setting
  - curing
  - vulcanisation

Econtrol® is a registered mark of DyStar Colours Distribution GmbH, Germany.



# Econtrol<sup>®</sup>: Resource-saving and reliable dyeing



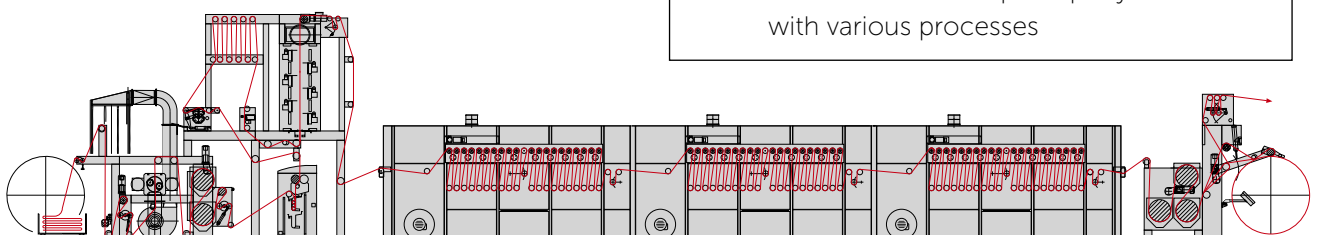
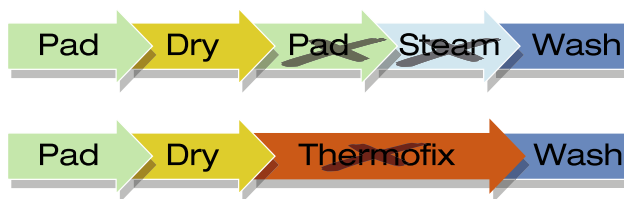
Thermex range configuration for the Econtrol<sup>®</sup> process

## Econtrol<sup>®</sup>

The Econtrol<sup>®</sup> process is a simple one-pass pad-dry continuous dyeing method to fix reactive dyes onto woven cellulose fabrics. In a controlled chamber climate, the dyestuff is fixed while drying at 120 - 130 °C with a humidity of 25 - 30 vol% inside our Thermex-hotflues.

### Benefits:

- In contrast to the Pad-Dry-Pad-Steam-Process no salt is used and no steamer for a separate fixation step is required.
- In contrast to the Pad-Dry-Thermofix-Process no urea is used. No fumes and no deposits occur while producing.
- In contrast to the Cold-Pad-Batch-Process direct feedback of dyeing results can be obtained. No batching time necessary and good reproducibility of lab to bulk.
- Suitable for pale to dark shades (Full color range)
- Flexibility in production planning, due to a dry fabric and therefore no immediate time pressure to wash off after drying



Thermex range configuration for the Econtrol<sup>®</sup>T-CA process

## Econtrol<sup>®</sup>: T-CA

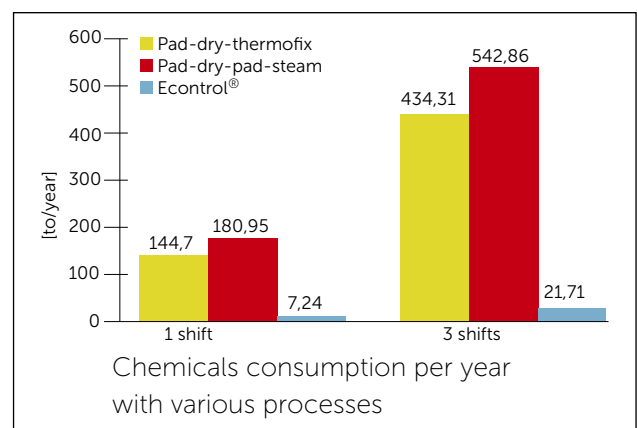
Continuous dyeing of woven cellulose/polyester blends in a single bath with selected reactive and disperse dyestuff.

The process (Pad-Econtrol<sup>®</sup>-Thermosol) benefits from the advantages of Econtrol<sup>®</sup> and has no intermediate reduction cleaning step. The reactive and disperse dyestuff is fixed onto the fabric within one passage.

### Benefits:

- No steamer required
- Lower chemical, energy and water consumption compared to Pad-Dry-Thermosol-Pad-Steam-Process
- Higher process reliability due to less components involved in production
- Fixation of dyestuff within one passage
- A wide range of shades can be covered with Econtrol<sup>®</sup> T-CA

Econtrol<sup>®</sup> is a registered trademark of DyStar Colours Distribution.

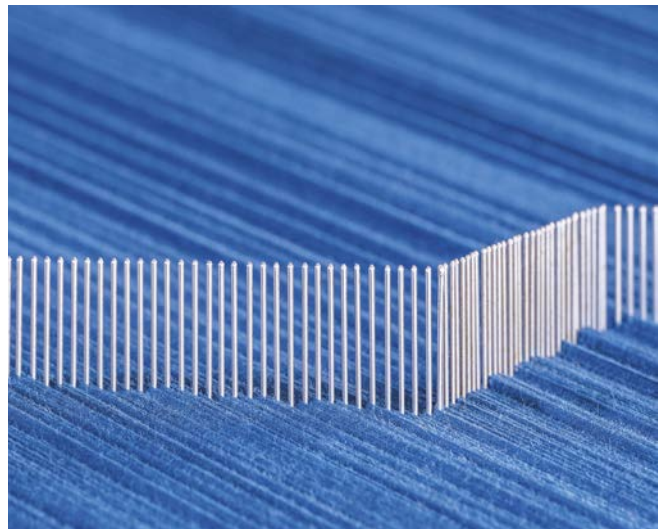




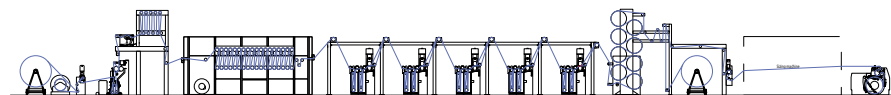
# New challenges - new solutions: Thermex CYD



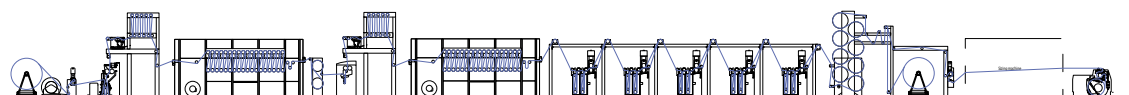
Continuous dyeing of short yarn batches is now more cost-effective than ever before with the new CYD option for the Thermex hotflue. Yarns can now be continuously dyed effectively and inexpensively directly from the dyeing beam in runs from 1,400 metres using the Econtrol® process. The benefits of the Econtrol® process apply also for yarn dyeing: Less use of chemicals, lower water consumption, lower energy consumption. Suitable for all dyestuff types. Excellent ring dyeing properties. This all makes the Thermex hotflue the universal dyeing machine: For flat fabrics and yarns. Ask our technologists. We will be happy to advise you in detail.



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Basis concept 1



Basis concept 2



## Special Thanks to our Sponsors



# Future proof

Technical advance cannot be stopped. Even innovative Monforts systems are in a process of constant development and improvement. The new findings are also integrated in earlier generations of Monforts machines in the market: We have numerous conversion and extension kits to raise output, save energy or adapt to new market trends at attractive, firm prices. A service-fitted heat recovery system saves up to 30% primary energy for heating.

The payback period is shortened even further. Exhaust treatment units ensure that all latest requirement of pollution control are met. Experienced Monforts technicians modify your machine within shortest time. To ensure that your production can be resumed as quickly as possible. This makes you fit for the challenges of the future. Whether hardware or software component. And you can be sure to remain competitive in the market for a long term.



## more.

- Parts & Components
- Lubricant
- Modernisation Kits
- Upgrade Kits
- Conversion Kits
- Heat Recovery & Exhaust  
Air Cleaning Retrofit
- Software Update
- Teleservice Contract
- Inspection Contract
- Operator Training
- Technological Training

Parts: [parts@monforts.de](mailto:parts@monforts.de)

Service: [service@monforts.de](mailto:service@monforts.de)

### Monforts commitment to customers:

#### Helpful – Accurate – Fast – Reliable

With the Teleservice Monforts Service Team is dedicated in helping to preserve the high quality and performance of Monforts textile machines for more than 25 years!

Monforts Teleservice allows the customer to easily contact Monforts – without costly additional devices - and to benefit from the full support of Monforts service. It allows checking of machine settings, online error diagnostics, parameter adjustments, video instructions, transmission of documents as well as direct dialogues on site at the machine.

Take advantage of these possibilities to further boost your productivity.

**Support Hotline: +49 2161 401606**

**Monday-Friday 7:00 – 19:00 CET**

**Saturday 8:00 – 16:00 CET**



# Please Contact Us



Fabric trial:  
[technology@monforts.de](mailto:technology@monforts.de)

Maintenance course,  
Operator training:  
[service@monforts.de](mailto:service@monforts.de)

## Delivery address for trial fabrics:

A. Monforts Textilmaschinen  
GmbH & Co. KG  
ATC-Technikum  
c/o PTS Logistics GmbH  
SMS Businesspark Halle E1  
Landgrafenstraße 45  
41069 Mönchengladbach  
DEUTSCHLAND/GERMANY





Monforts | Germany



Monforts ATC | Germany



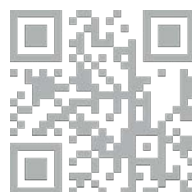
Montex | Austria



Montex | Austria



A. Monforts Textilmaschinen GmbH & Co. KG  
Germany | A Member of CHTC Fong's Group



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