

**DILO** SYSTEMS  
GENERAL CONTRACTOR



**DILO** TEMAFA  
OPENING · BLENDING



**DILO** SPINNBAU  
CARDING



**DILO** MACHINES  
CROSSLAPPING · NEEDLING



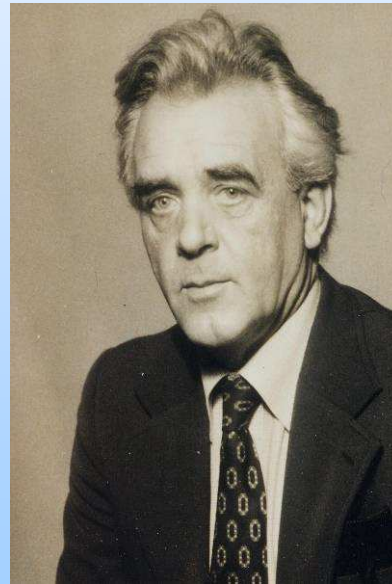
Welcome to the

**DILO** GROUP  
ENGINEERING FOR NONWOVENS

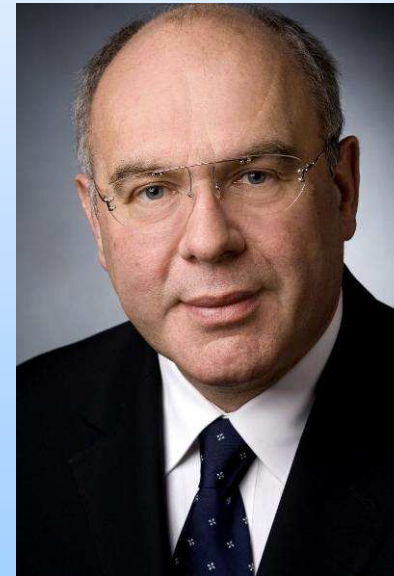
**DiloGroup –  
a family-owned enterprise**  
Quality and Innovation since 1902



Oskar Dilo  
Founder 1902



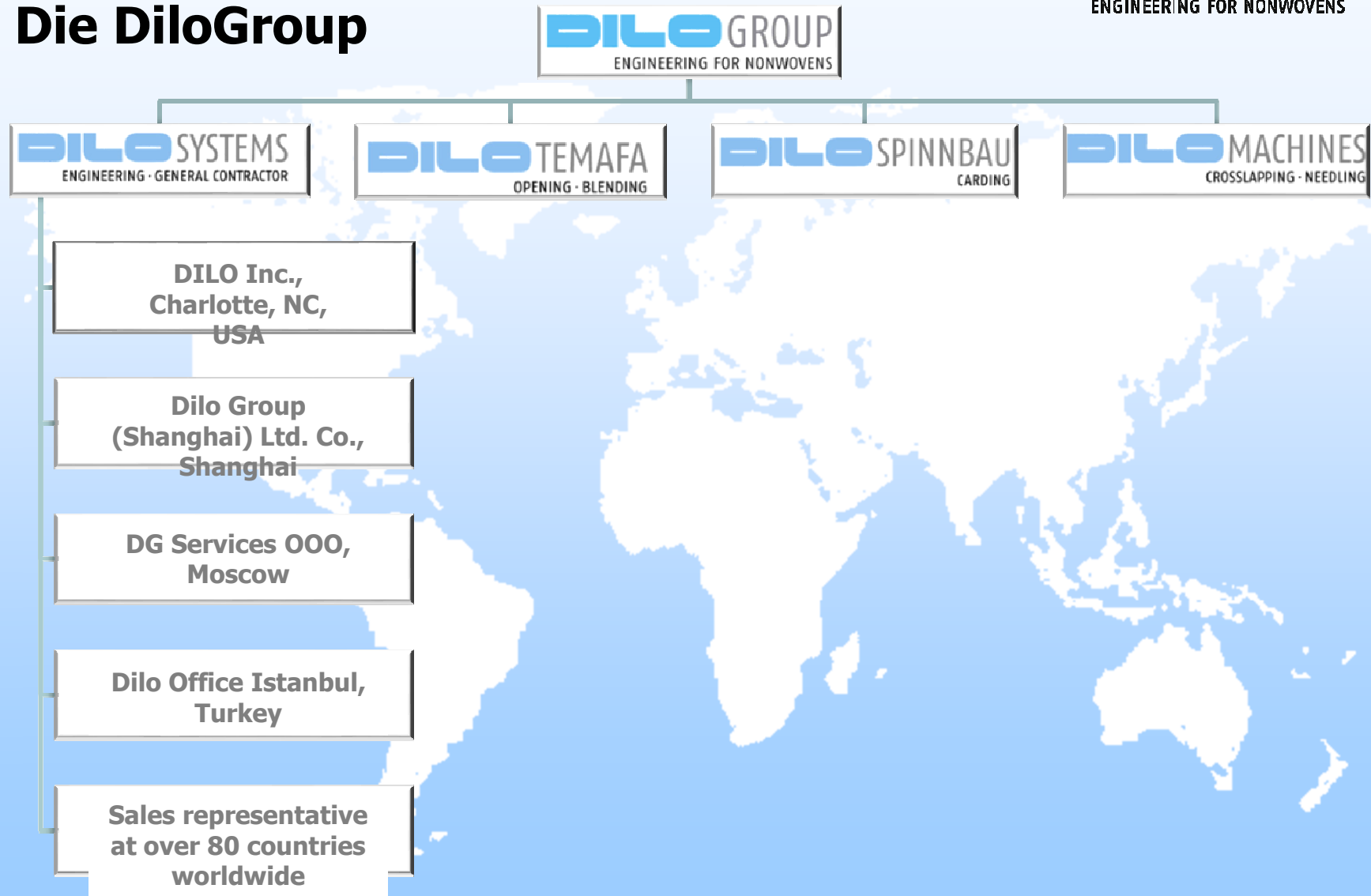
Richard Dilo  
CEO  
1949 - 1988



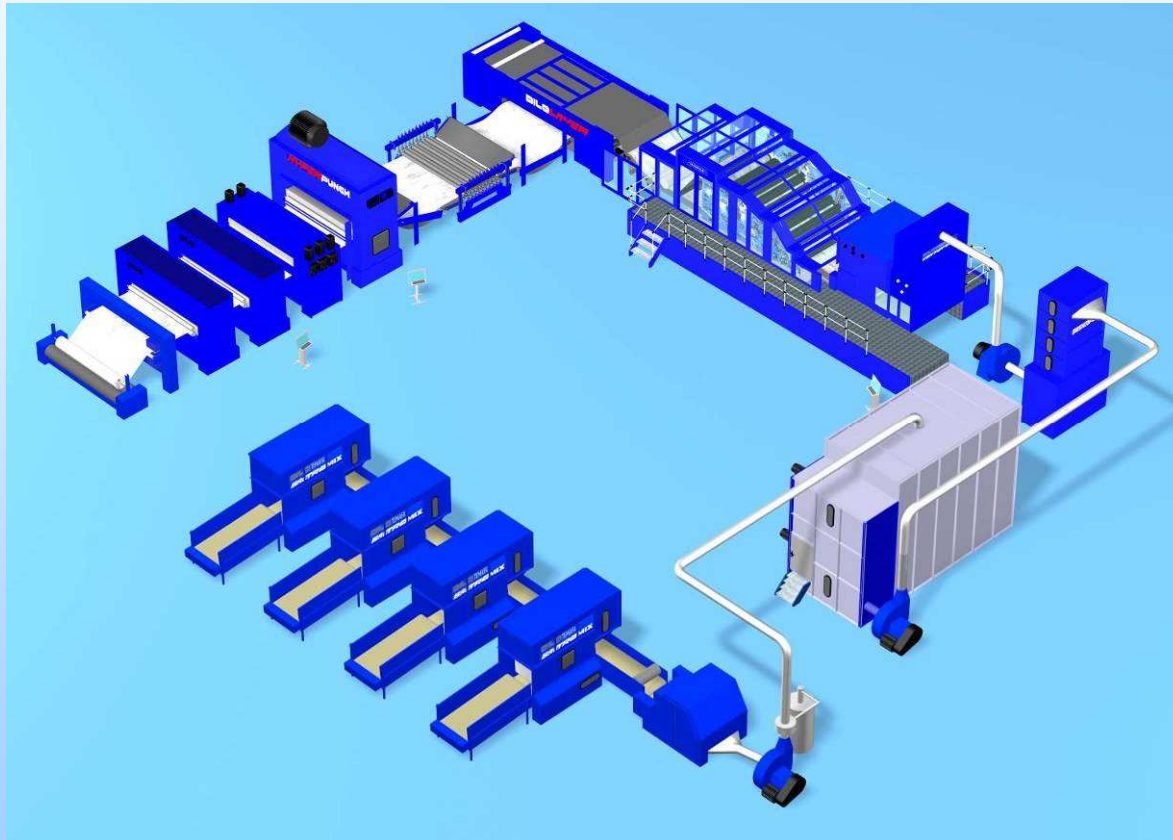
Johann Philipp Dilo  
CEO  
since 1988

# Die DiloGroup

**DILO GROUP**  
ENGINEERING FOR NONWOVENS



# Services offered by DiloSystems



- **General Contractor for Complete Production Lines**
- **Financing**
- **Engineering**
- **Installation**
- **Commissioning & Start-Up**
- **Operational instruction and service**

# Range of Machines

**DILO GROUP**  
ENGINEERING FOR NONWOVENS

**DILOTEMAFA**  
OPENING · BLENDING

**Fiber Opening  
and Blending**



**DILOMACHINES**  
CROSSLAPPING · NEEDLING

**Crosslapping**



**DILOSPINNBAU**  
CARDING

**Carding  
Airlaying  
Web Drafting**



**DILOMACHINES**  
CROSSLAPPING · NEEDLING

**Needling**



# Our Plants: DiloTemafa

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# DiloTemafa Range of Machines

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**Bale Opener**



**Carding Willow**



**Blending Chamber**



**Fine Opener**



**DON**



**Lin Line**



# Our Plants:

## DiloSpinnbau, Bremen

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# DiloSpinnbau Range of Machines

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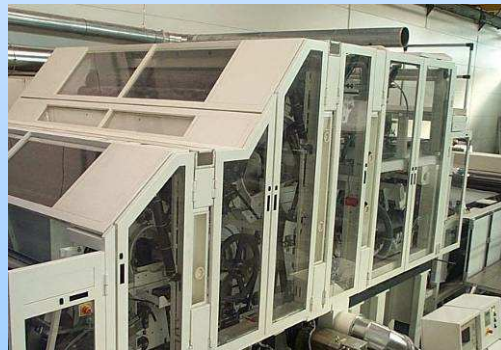
**Card Feeder  
Multifeed**



**Universal Roller Cards  
SC, SSC, MC**



**Tandem Card  
DeltaCard**



**HyperSpeed Card  
HSP**



**Web Drafter  
VST**



**Airlaying  
Fiberlofter**

# Our Plants: DiloMachines, DiloSystems

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# DiloMachines

## Range of Machines

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**Crosslapper  
Dilo-Layer**



**Cross Lapper  
Dilo Hyperlayer**



**Needle Looms  
DI-LOOM,  
DI-LOUR, DI-LOOP**



**Needle Looms with horizontal  
needle movement  
Hyperpunch, Cyclopunch**



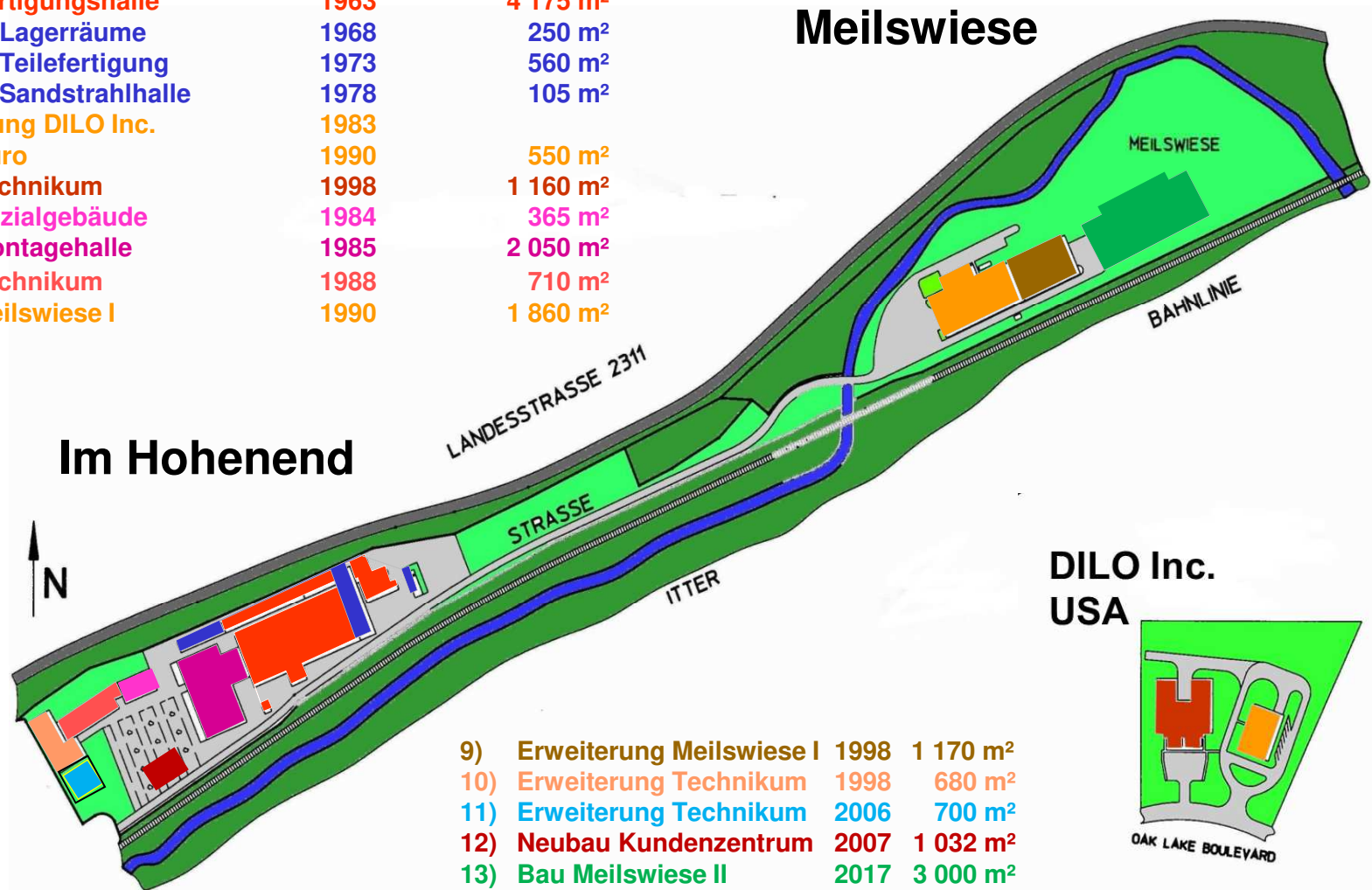
**Large Needle Looms PMF  
for Paper Machine Felts**



**Circular Needle Looms  
Beltex (PMF), Rontex**



- |    |                              |      |                       |
|----|------------------------------|------|-----------------------|
| 1) | Grundstückskauf: Im Hohenend | 1963 | 33 263 m <sup>2</sup> |
|    | Meilswiese                   | 1987 | 27 786 m <sup>2</sup> |
| 2) | Bau Fertigungshalle          | 1963 | 4 175 m <sup>2</sup>  |
| 3) | Anbau Lagerräume             | 1968 | 250 m <sup>2</sup>    |
|    | Anbau Teilefertigung         | 1973 | 560 m <sup>2</sup>    |
|    | Anbau Sandstrahlhalle        | 1978 | 105 m <sup>2</sup>    |
| 4) | Gründung DILO Inc.           | 1983 |                       |
|    | Bau Büro                     | 1990 | 550 m <sup>2</sup>    |
|    | Bau Technikum                | 1998 | 1 160 m <sup>2</sup>  |
| 5) | Bau Sozialgebäude            | 1984 | 365 m <sup>2</sup>    |
| 6) | Bau Montagehalle             | 1985 | 2 050 m <sup>2</sup>  |
| 7) | Bau Technikum                | 1988 | 710 m <sup>2</sup>    |
| 8) | Bau Meilswiese I             | 1990 | 1 860 m <sup>2</sup>  |



- |     |                          |      |                      |
|-----|--------------------------|------|----------------------|
| 9)  | Erweiterung Meilswiese I | 1998 | 1 170 m <sup>2</sup> |
| 10) | Erweiterung Technikum    | 1998 | 680 m <sup>2</sup>   |
| 11) | Erweiterung Technikum    | 2006 | 700 m <sup>2</sup>   |
| 12) | Neubau Kundenzentrum     | 2007 | 1 032 m <sup>2</sup> |
| 13) | Bau Meilswiese II        | 2017 | 3 000 m <sup>2</sup> |

# Endproducts

**DILO GROUP**  
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**automotive parts**



**filter media**



**geotextiles**



**insulation felts**



**natural fibre felts**



**tubular felts**

# Endproducts

**DILGROUP**  
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**floor coverings**



**wipes**



**cosmetic tissues**



**blankets**



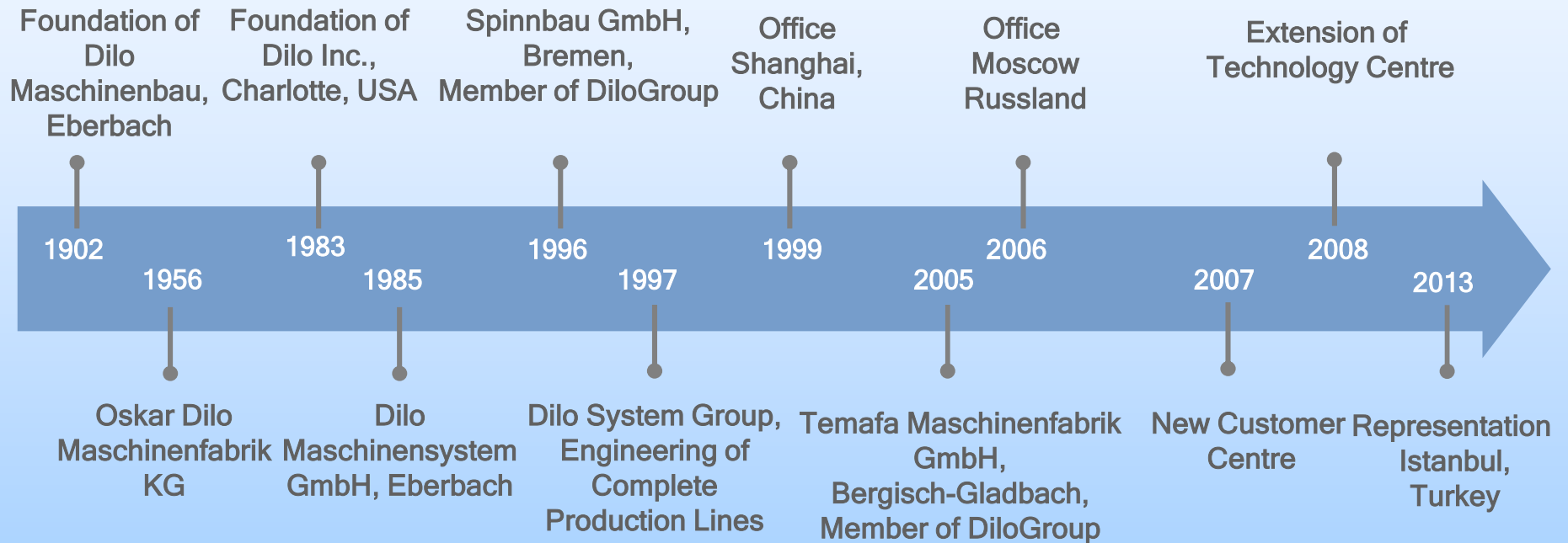
**artificial leather**



**medical products**



# Milestones



# Profile



- **Employees:**

**approx. 450**

- Oskar Dilo Maschinenfabrik KG
- Spinnbau GmbH
- Temafa Maschinenfabrik GmbH
- Dilo Maschinensystem GmbH
- Dilo Inc. Charlotte
- Dilo Moscow
- Dilo Shanghai
- Dilo Office Istanbul

- **Turnover:**

**approx. 110 Mio. Euro**

- **Activities:**

**> 80 countries**

- **Complete Lines Installed:**

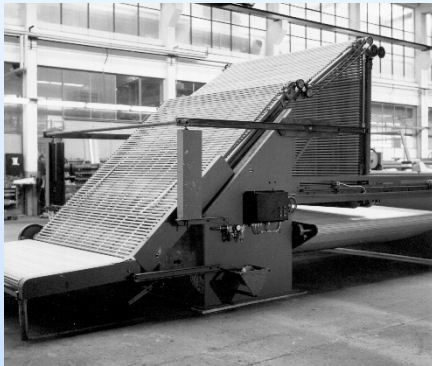
**> 300**

October 2013

## Innovations and Inventions

*1950*

Steilarmvliesleger



*1969*

DI-LOOP:  
Needle Felt Structuring  
and Patterning

*1990*

DI-LOOM PMF



*1971*

Random Card  
Technology

*1983*

DI-LOUR:  
Needle Felt Velours

*1967*

Circular Needling  
RONTEX, BELTEX



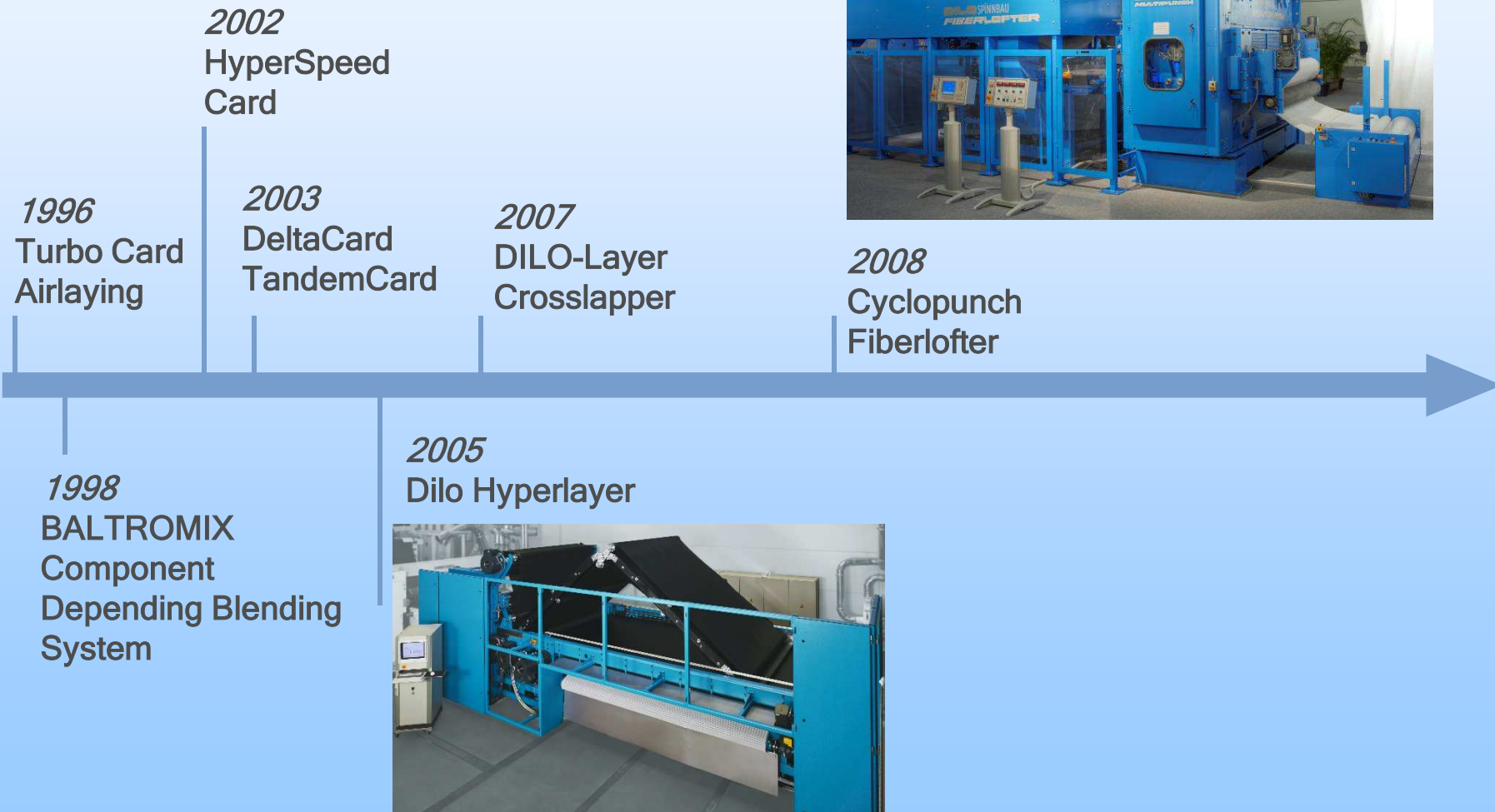
*1995*

Hyperpunch-Technology



# Innovations and Inventions

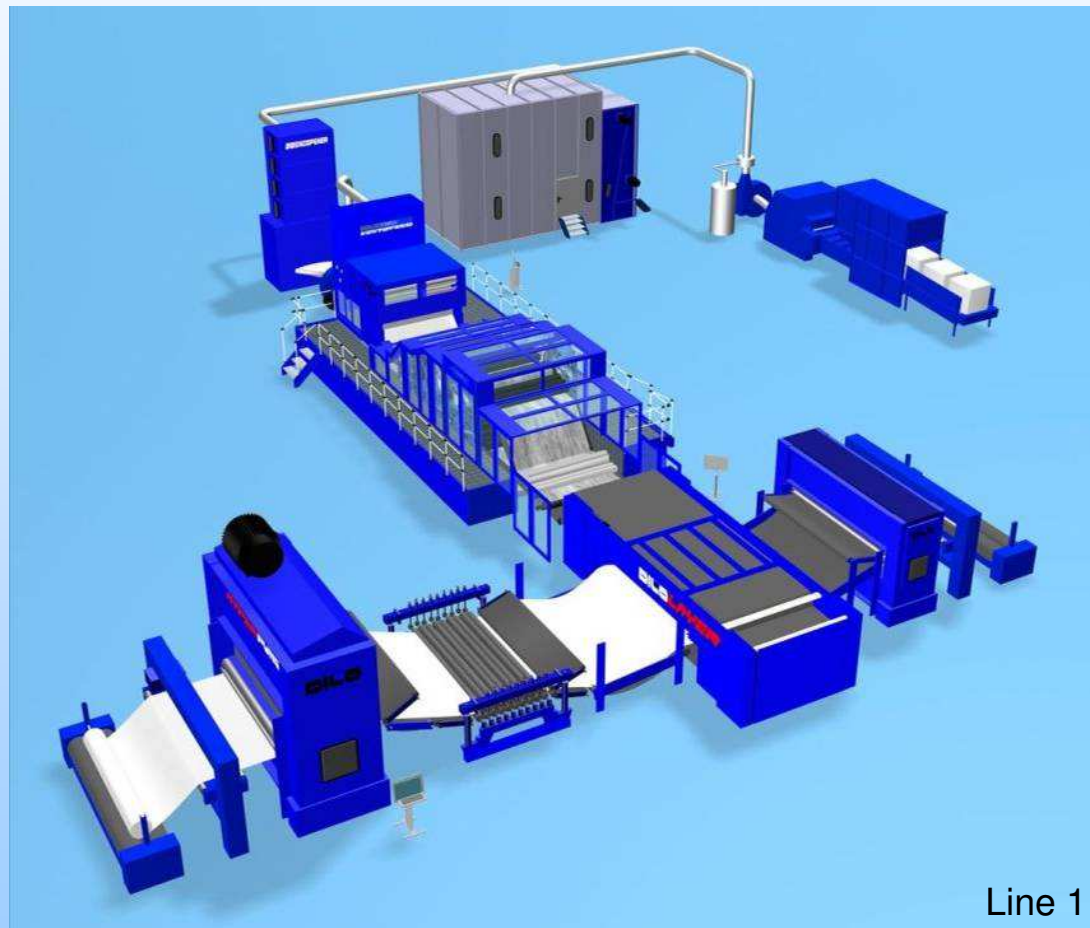
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# Technology Center



## Competence Center for Nonwovens

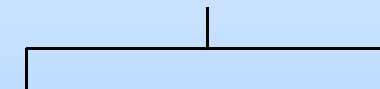


Bale opener with  
carding willow

Dosing opener DON

DeltaCard with Ventofeed

Dilo-Layer DLSC



Flor Control

Web drafter

Hyperpunch  
needleloom

QC

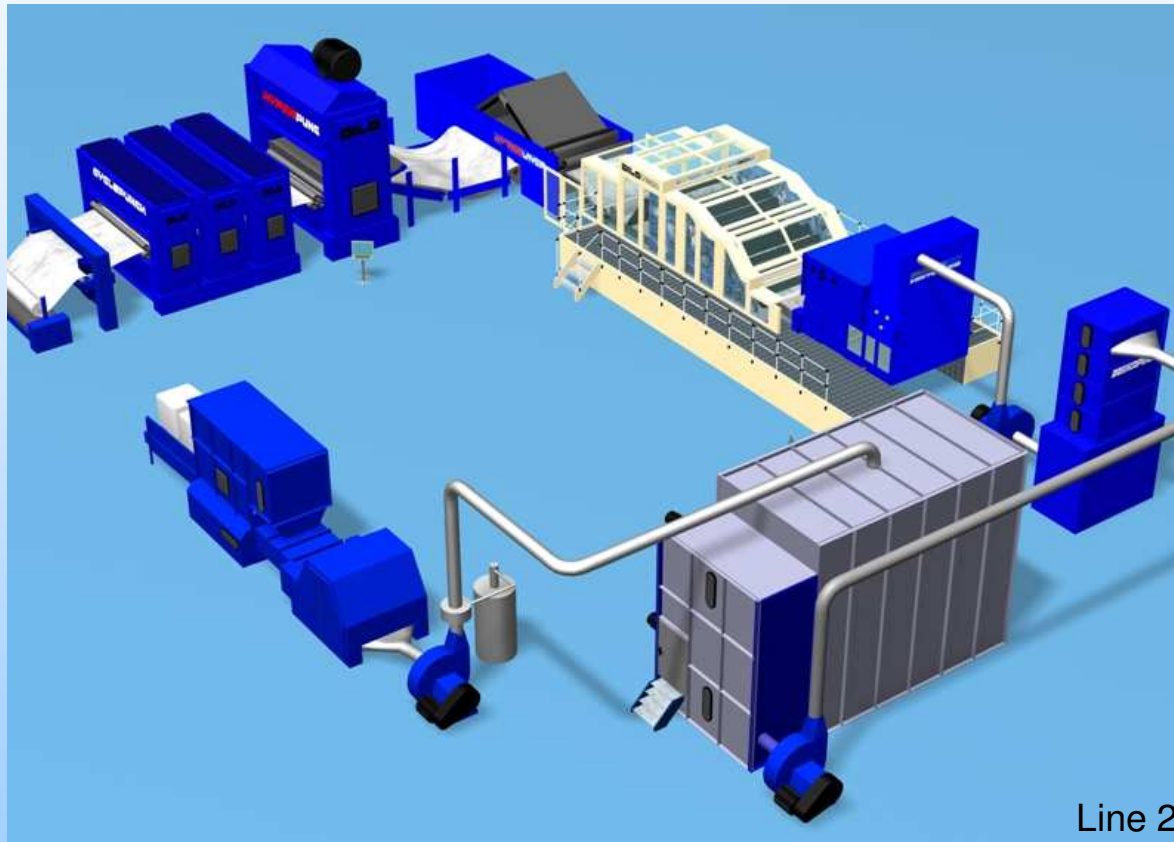
Winder

High performance  
needleloom

QC

Winder

# Technology Center



## Hyperneedling Technology

Bale opener  
Hyper-Speed Card HSP  
Dilo Hyperlayer HLSC  
Hyperpunch Needleloom  
Cyclopunch

## Airlaying Technology

Fiberlofter



**Thank you for your kind  
attention!**

**DILE**GROUP  
ENGINEERING FOR NONWOVENS