



1. Müller + Müller – Company overview

2. Product portfolio

3. Production process

4. Advantages at-a-glance

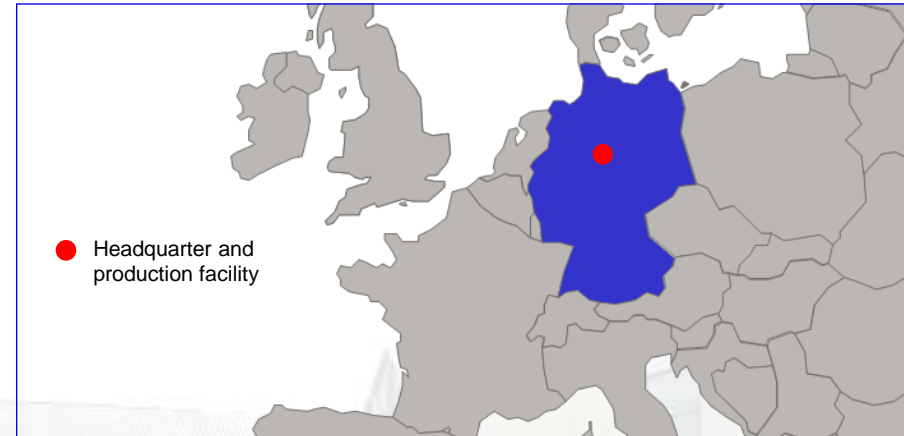


1. Müller + Müller - Company overview

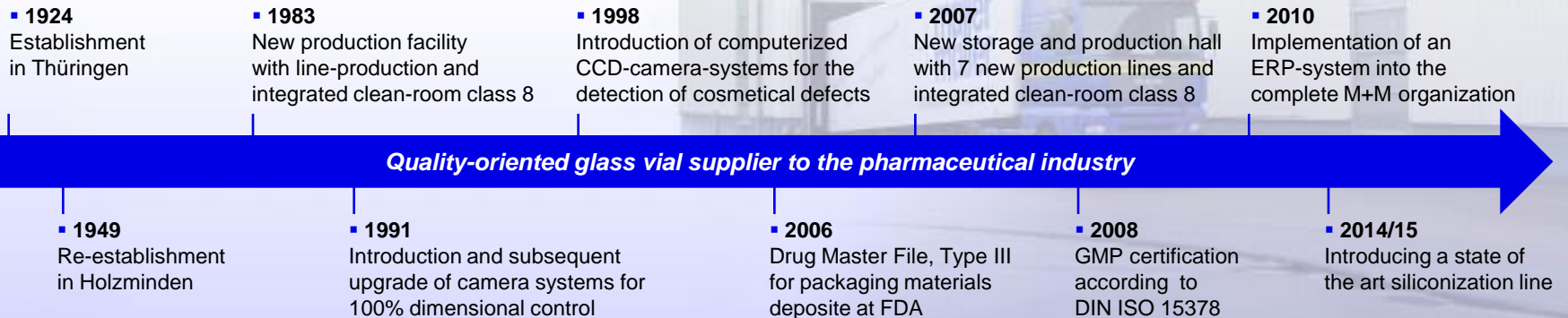
Overview

- ▶ **Müller + Müller manufactures and distributes primary packaging solutions for the global pharmaceutical industry**
- ▶ **Products:** injections vials, screw-neck vials, roll-neck vials, blow-back vials, snap-back vials – also offering customized solutions
- ▶ **Customers:** blue chip customer base
- ▶ **Quality certificates:** DIN EN ISO 9001:2008 and DIN ISO 15378:2011
- ▶ **Support for regulatory affairs:** FDA Drug Master File DMF-No. 14760 (Type III) and Health Canada Drug Master File DMF-No. 2010-064 (Type II)
- ▶ **Key financials:** sales of approx. €15m (2013A)
- ▶ **Location:** headquartered in Holzminden, Germany
- ▶ **Production capacity:** approx. 280m vials per year
- ▶ **Management:** Dr. Hubertus Müller-Stauch (CEO & Partner)
- ▶ **Employees:** approx. 130 FTE (2013A)

Locations



Milestones



2. Product portfolio

Products



Injection vials

- 2ml – 40ml and custom sizes
- According ISO 8362-1 or customized
- Borosilicate clear and amber, Type I



Screw-neck vials

- 2ml – 40ml and custom sizes
- According ISO 11418-7 or customized
- Borosilicate clear and amber, Type I



Special types of vials

- Roll-neck vials for different closure systems
- Snap-cap vials for solid or pulverized substances
- Vials with internal lip or blow-back flange

Glass tubing and manufacturers



Manufacturing sizes

Nominal volumes:	2ml-40ml
Min. tubing diameter:	12mm
Max. tubing diameter:	34mm

Suppliers of raw material

SCHOTT
glass made of ideas

GERRESHEIMER



Quality principles

We create safety and confidence by quality and competence!

Principles of Müller + Müller

1

- Customer satisfaction through high quality and excellent service

2

- Promoting a positive image for the pharmaceutical industry

3. Production process

Converting and forming process

Tube loader

Production process



Annealing



Inspection



Packaging process



Production process:

High quality and process capability through high-precision forming technology and glass expertise

Annealing:

Annealing oven technology developed by Müller + Müller

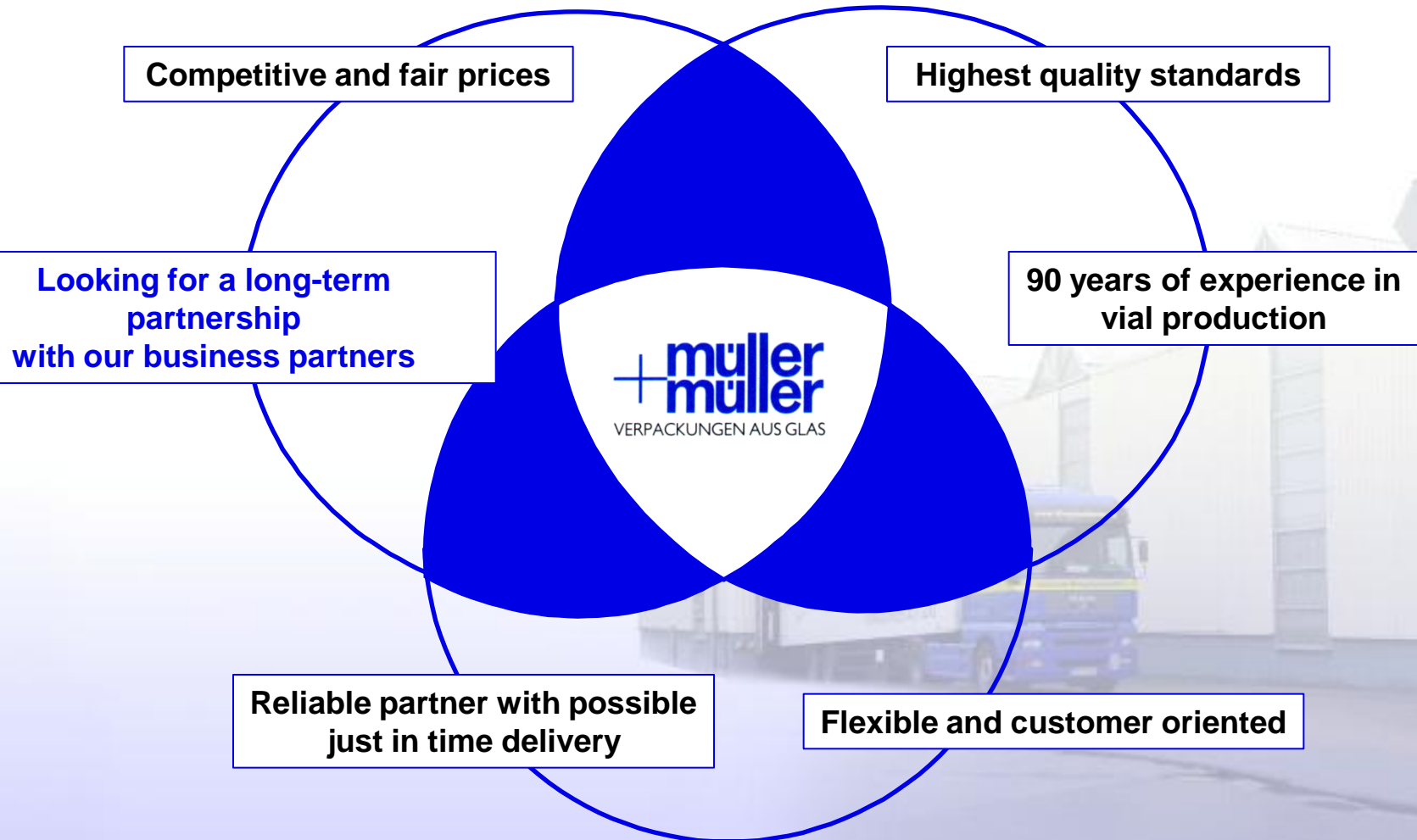
Inspection:

Continues dimensional and cosmetical control via real-time manufacturing data

Packaging process:

Visual control and final packaging in permanently monitored class 8 clean room conditions

4. Advantages at-a-glance



Contact

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