

Scalable Precision for Final Assembly of Drug Delivery Devices

- ✓ Final assembly of pens and autoinjectors
- ✓ 5 parts / min
- ✓ Industrial-grade Swiss Quality



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Efficient

- **5 devices / min with just 1 m² (10 ft²)** – Ideal for pre-clinical studies, design verification and small batches
- **Large Variety of Devices** – Ypsomed YpsoMate, UnoPen, BD Vystra™, Physioject™ – further on request (we provide configuration services, proof of concept and technical batches)
- **Full Electric Version** – No pneumatic air consumption
- **Quick Changeover** – 5 min swift format change, tool-free

Safe

- **Automated Compatibility-check** – Checks, if coded format parts match recipe and batch-no., ensuring safety, compliance and reliability
- **Automated Handling of Rejects** – Operator interacts with 100% goods parts only, no risk of misplacement
- **Quick-release Coupling** – When each of your customers has its own format parts
- **Supports Frequent Operator Changes** – 30 min for basic training

Industrial-grade Technology

- **Proven Joining System** – Kistler sensors, actuator and controls
- **Seamless Scaleup** – Identical processing as high volume assembly machines (MDA 200) requiring limited assembly process re-validation
- **21 CFR Part 11 compliant** – Account management, batch report generation, audit trail & alarm list report
- **Factory Priming** – Fixed value or measurement-based dynamic priming
- **Advanced Analytics** – Onboard process analytics combined with OPC UA for offline analysis
- **Automated Syringe Handling** – Optional de-nesting from tub, incl. syringe QC



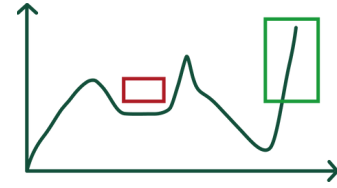
Flexible Investment

- Purchase
- Lease
- Rent
- As-a-Service



Birth-Certificate Ready

- BD iDFill™ ready
- Access process parameter record directly on the machine
- Inline marking of devices available on request



Industrial Process Capability

- Positioning of force-position envelope curve based on size of each device
- Safety Torque Off
- Max. 592 N, +/- 0.002 mm

Smart, Scalable & Sensor-Driven

- **Kistler's new NCFQ servo joining systems** – precise, industrial-scale, developed for high dynamics and process speeds
- **Piezoelectric technology** – for accurate, high-speed real-time measurements
- **Acceleration sensor** – short cycle times without compromises
- **Virtually maintenance-free** – without mechanical wear

Powered by:

KISTLER
measure. analyze. innovate.

Value Beyond the Machine: Data as Strategic Asset

- **RyConnect and RyEdge** - Structured, contextualized and reliable data
- **Data for All** – Machine insights accessible across operations, engineering, quality, supply chain and further partners
- **Seamless Integration** – Structured and reliable data flows into and from ERP, MES, QA, and analytics tools
- **Agile Operations** – Faster data-driven decision, improved OEE, empower collaboration
- **Continuous Improvement** – Machines that generate insights for continuous improvement and competitiveness

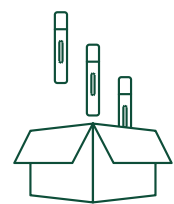
Rychiger Along the Supply-Chain



Fill & Finish



Final Assembly



Packaging