





THE ART OF PERFECTION

TechDay 2025

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Market Trends // Design

From interior...









Market Trends // Design

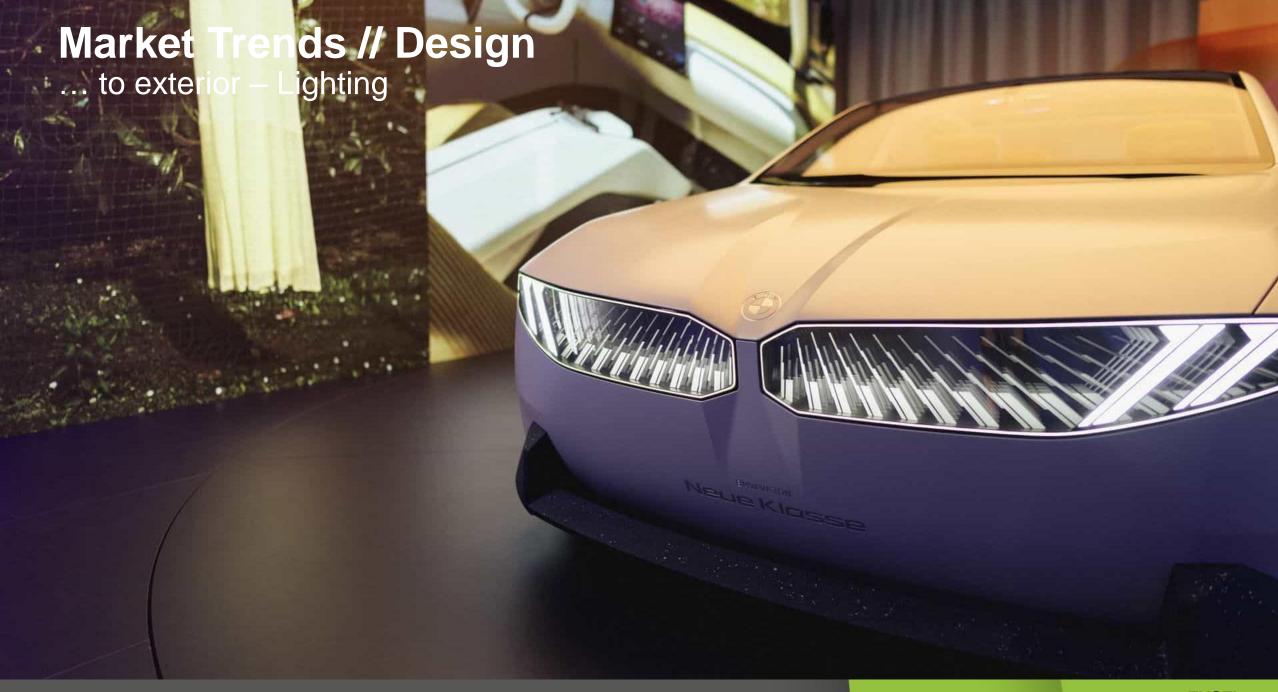
... to exterior – Smart panels



Market Trends // Design

... to exterior - Large surfaces





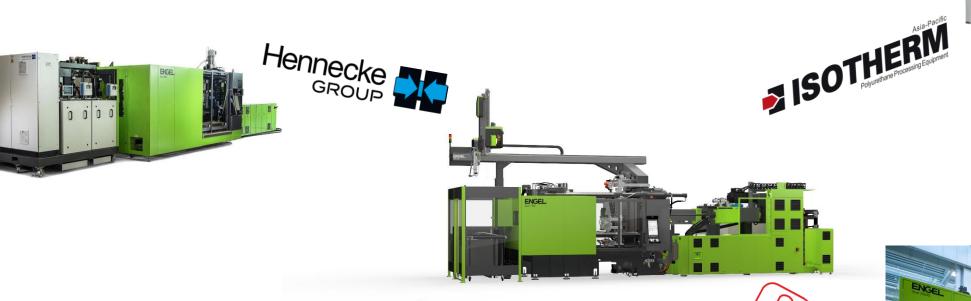
Be the first with ENGEL clearmelt

What's new?



ENGEL has ... Experience with all

Rich expertise and flexibility











ENGEL has... the CCC

Concentrated expertise in the clearmelt Competence Center

- Established in 2025
- 20 years of experience
- Interdisciplinary task force
- One face to the customer!
 - Full project handling by CCC
 - From RFI to after sales
- ENGEL as solution provider



ENGEL has... the CCC

Concentrated expertise in the clearmelt Competence Center

Full scale test equipment

- duo700 combi (vertical rotary table)
- duo1500 combi-m
- duo5500 combi-m
- CANNON PUR equipment
- CANNON Color unit

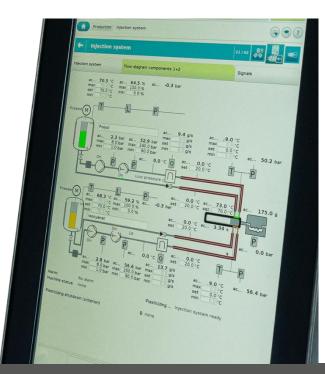


ENGEL has... the right Interface

Universal interface for plug and play

Integration **OLD**:

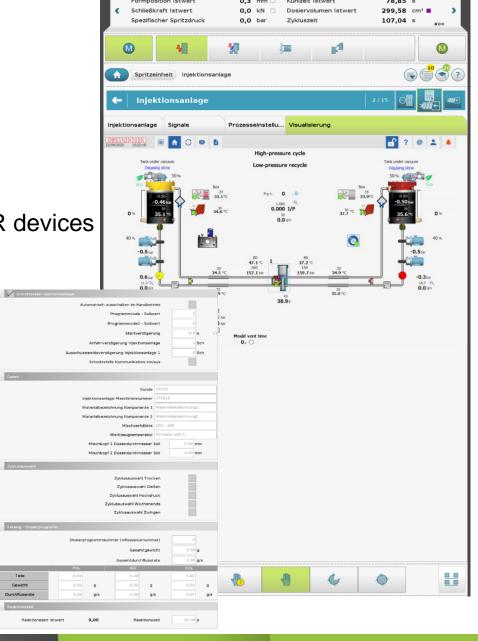
Once done for Hennecke



Integration **NEW**:

Universal interface

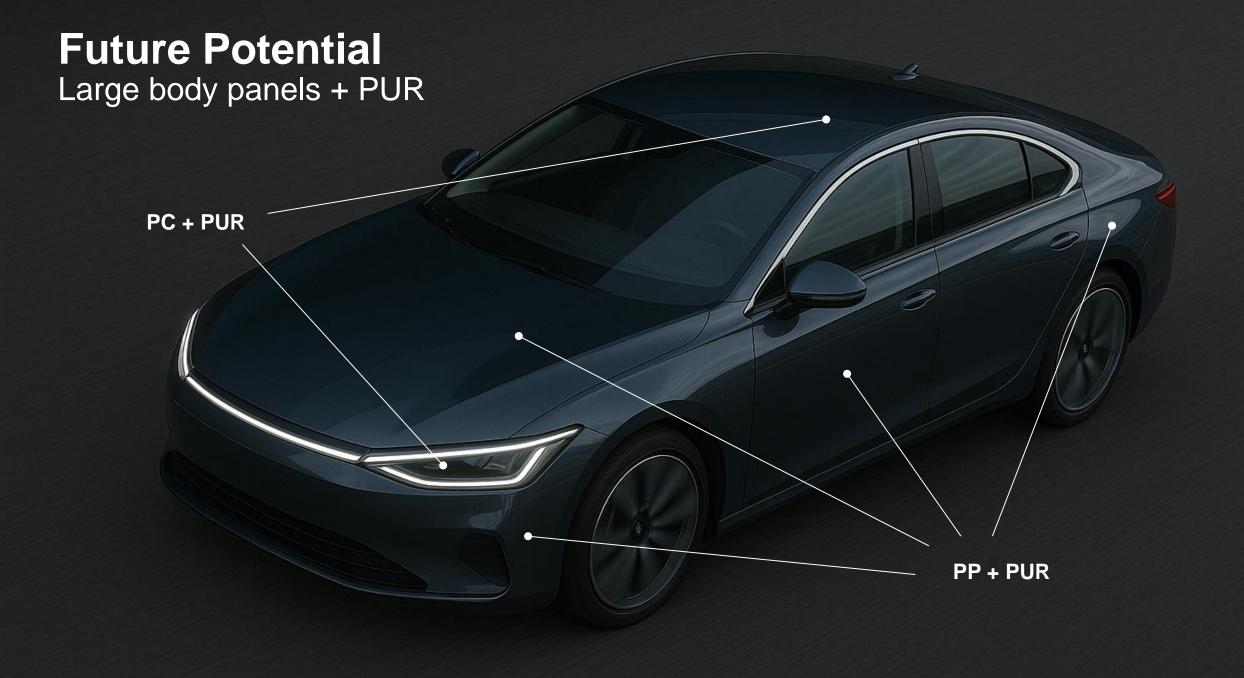
- Plug and Play for different PUR devices
- Collection of process data
- Monitoring in PD protocol



Be the first with ENGEL clearmelt

The future will be big and colorful!





ENGEL has... a strong Partnership with CANNON

The best out of two worlds



2 family-owned companies



- Comon mindset:
 - Quality
 - Innovation
 - Long-term vision
 - Sustainable progress



Seamless integration in ENGEL control



Global presence



- Overlapping areas of comfort
 - Solutions for small knobs and large car roofs



ENGEL has... a strong Partnership with CANNON

The best out of two worlds

Rear Lamp Concept

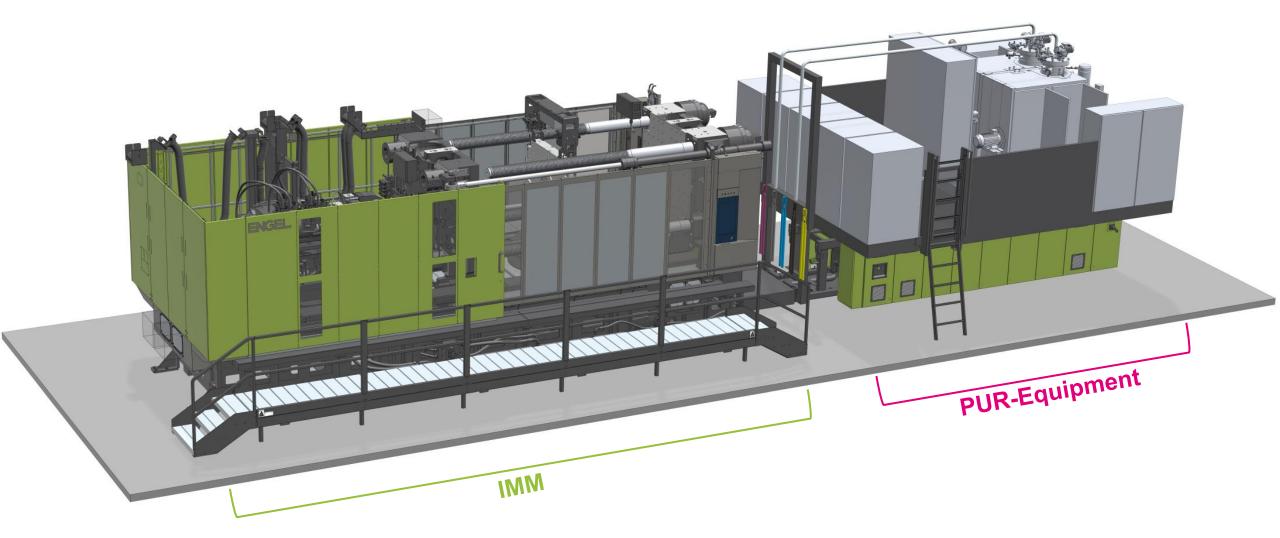
- Vertical rotary table
- Compact footprint
- Retrofitting possible
- Moulding concept in line with lighting standard



Integrated CANNON dosing unit for PUR

ENGEL... is innovative

Solutions for colour change / multi-colour





The ENGEL Strategy

Be ready for the future – ENGEL duo 5500 tech center machine

Production Solution for

- Complete roofs
- Bumpers
- Hoods
- ... every body panel

OEM benefit

- Up to 60% less CO₂ emission
- 99% VOC reduction
- 30% lower production cost



PUR Solution Toolbox

The right concept for every application

Structure						
Layers	PUR Thermoplast	PUR IMD Thermoplast	IMD Thermoplast 1 Thermoplast 2	PUR IMD Thermoplast 1 Thermoplast 2	PUR IMD Thermoplast IME	PUR IME Thermoplast 1 Thermoplast 2
Tool Technology						
Application Cell				23,22	- Cardion	

Purposefully combined processing technologies



Contact



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Cannon Group Key figures



Founded in 1962



30 companies



1400+ talents



Presence in **5** continents and **40+** countries through subsidiaries and agencies

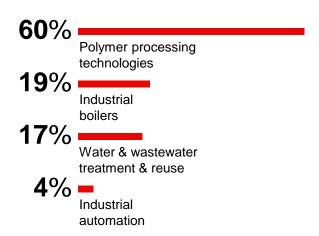


Global leader in liquid reactive polymer equipment



Cannon Group

CANNON acts globally



Americas

- Cannon USA
- MexiCannon
- Cannon do Brasil

Europe

- Cannon SpA (Italy, HQ)
- Cannon Afros
- Cannon Artes
- Cannon Automata
- Cannon Bono Energia
- Cannon Ergos
- Cannon Legos
- Cannon Micromec
- Cannon Tipos

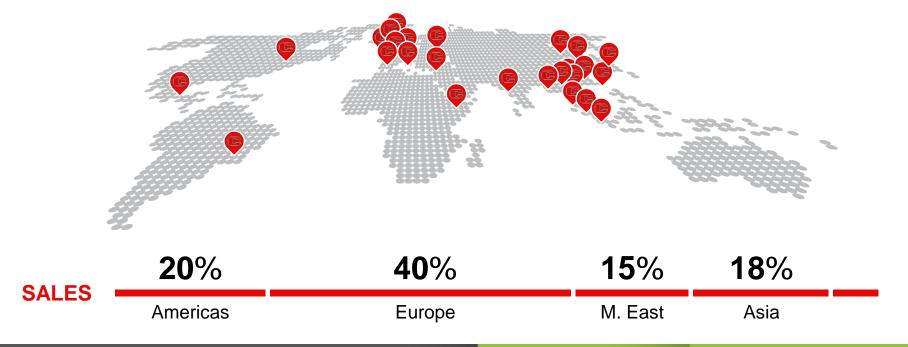
- Cannon Deutschland
- Cannon France
- Cannon Shelley (UK)
- Cannon Viking (UK)
- Cannon Istanbul (Turkey)
- Cannon Eurasia (Russia)

Middle East

Cannon Middle East (UAE)

Asia

- Cannon Indikos (India)
- Cannon Far East China,
 Singapore, Thailand, Vietnam,
 Malaysia, Indonesia (6 locations)
- Shinnon (China)
- Cannon Korea
- Nippon Cannon (Japan)



Dosing system for Sankt Valentin LAB



Dosing Unit:

- Model: A-Compact 40 FC HT
- Flowrate: 50 450 g/s
- Three mixing heads: two on fixed platen, one on the movable platen, two possible sizes (LN 5/3 and LN 10/3)

Color Units:

- Two color units: CCS 1 HT and CCS 5 HT
- Flowrate: 2 70 g/s
- Any type of color
- Colors available at both platens





Dosing system sizes



High pressure pumps dimensions:

- 2 cc/rev
- 6 cc/rev
- 12 cc/rev
- 30 cc/rev

Total flowrates (ratio I:P 2:1):

■ A-Compact 10 FC HT: 15 – 140 g/s

■ A-Compact 20 FC HT: 30 – 270 g/s

■ A-Compact 40 FC HT: 30 – 470 g/s

■ A-Compact 60 FC HT: 70 – 950 g/s

Mixing head sizes:

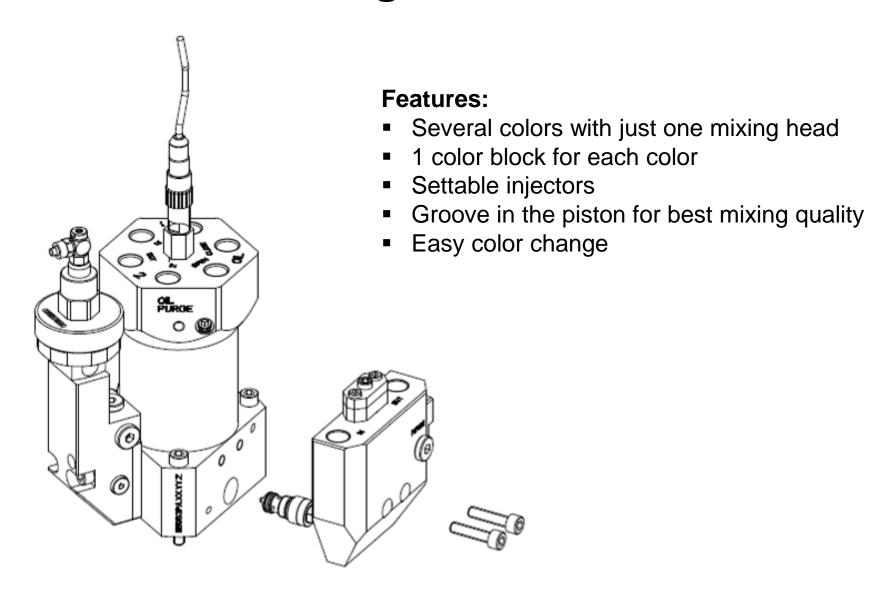
■ LN 5/3: 15 – 130 g/s

■ **LN 10/3**: 50 – 450 g/s



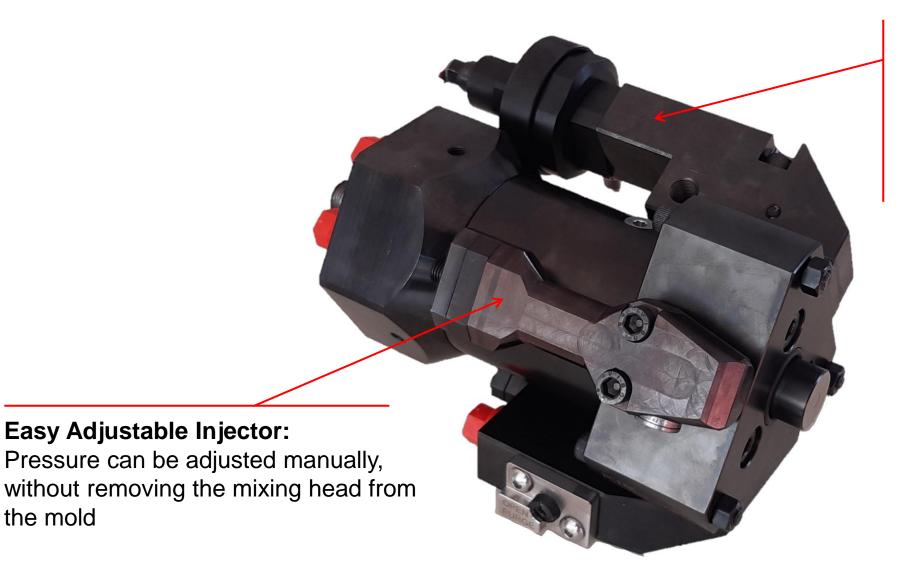


Color at the mixing head





Actuators configuration for injectors



ReCo Air:

Remote Control: Automatic adjustment of the pressure, via HMI of the dosing machine



Latest improvementsDOS



Characteristics:

- De-coupling mixing-dosing
- Control of mold backpressure
- Control of shrinkage
- Position controlled
- Pressure controlled
- Variable speed
- Thermoregulation system
- Integrated in the hydraulic system of the dosing unit

