

TUNAP Industry



Plastic injection molding at TUNAP

High-performance lubricants for the plastics industry



Branches of the plastics industry

Overview



Construction products

31%

Windows, doors, profiles, sanitary ware, cable ducts, insulation, tanks, flooring, etc.



Technical plastic product

30%

Supplier for the industrial sectors automotive industry, electrical engineering, mechanical engineering, medical technology, etc.



Packaging

23 %

Consumer packaging for the food, beverage, pharmaceutical and other industries as well as industrial packaging, for example for the automotive industry or mechanical engineering.



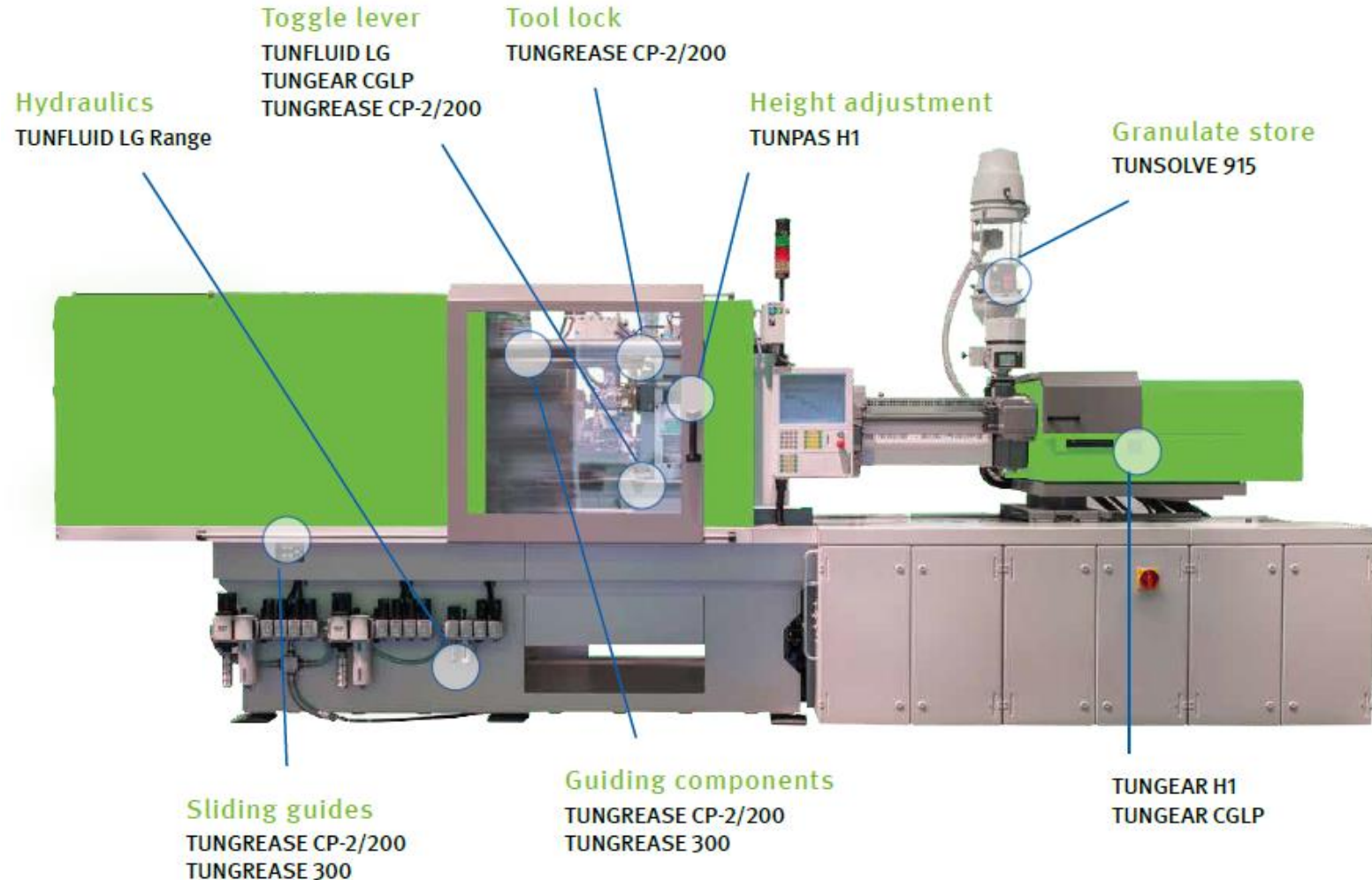
Consumer products

16 %

Household, leisure, toys, garden tools, furniture parts etc.

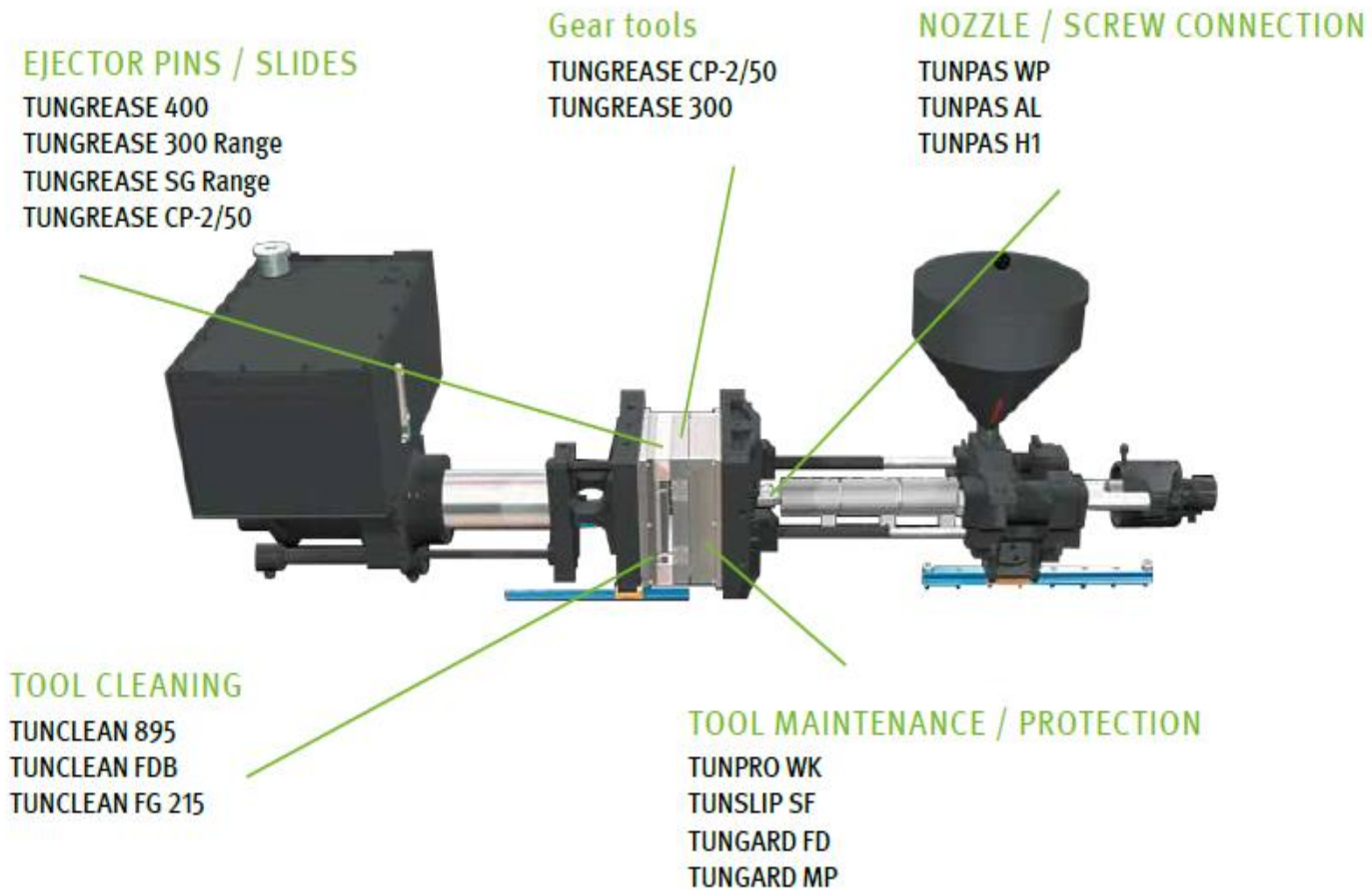
Plastic injection molding

Overview products and applications



Plastic injection molding

Overview products and applications





Plastic injection molding

Product Highlights



Maintenance Portfolio

Certificates



NSF

H1 lubricants are used where there may be occasional or technically unavoidable contact with food products.



Kosher

Labelling for products that are classified as kosher (fit, pure) according to Jewish dietary laws.



Halal

Labelling for products that are halal (permissible, allowed) according to Islamic law.



ISO 21469

Strict regulation from formulation, ingredients, production, handling, packaging, storage and use ensures the highest quality.



TUNGREASE SG

Chemically inert special grease for long-term lubrication at extremely high temperatures

- ✓ Enables long tool life even with minimum quantity lubrication
- ✓ Very good site stability prevents lubricant from entering the mold
- ✓ Very good compatibility with plastics, evaporation stability and temperature resistance
- ✓ Service temperature range from -40 to 300 °C

Application examples

For lubrication of ejector pins with tight tolerances and low loaded folding units, sliders, pawl pulls, etc.





TUNGREASE CP-2/200

Fully synthetic high-performance grease for universal lubrication of dynamically loaded components

- ✓ Excellent pressure absorption capacity for optimum wear protection for extended component and machine life
- ✓ For extended component and machine life
- ✓ Special water resistance and excellent corrosion protection
- ✓ Enable reliable lubrication
- ✓ Service temperature range from -40 to 140 °C

Application examples

For universal lubrication of highly loaded slides, sleeves, guide elements with higher pressures or ball screw spindles in the plasticizing unit (approved by Wittmann Battenfeld).





TUNGREASE 400

Chemically inert special grease for long-term lubrication at extremely high temperatures and very high loads

- ✓ Reliable long-term lubrication of highly stressed components
- ✓ Particularly high thermal stability with extremely low evaporation loss
- ✓ Allows extended relubrication intervals
- ✓ Service temperature range from -40 to 300 °C

Application examples

For long-term lubrication of extremely highly loaded components such as punches and columns in combination with extremely high temperatures.





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Maintenance products

TUNAP products	Description
TUNFLUID LG series	H1 multigrade oils for lubrication and power transmission
TUNAIR PAO series	Fully synthetic H1 compressor and hydraulic oil
TUNGARD FD	Synthetic H1 multipurpose oil
TUNPRO WK	Anti-corrosion wax for toolmaking
TUNSLIP SF	Silicone-free release agent and lubricant
TUNCLEAN 895	Highly volatile cleaner with high cleaning power
TUNCLEAN FDB	H1 and K1 solvent cleaners with medium evaporation number
TUNGARD MP	Fully synthetic H1 rust remover



Summery

Plastic injection molding at TUNAP

- ✓ TUNAP offers a **full range** of high performance lubricants for the plastics industry
- ✓ Our **high-performance lubricants** are also **certified/registered for use in the food sector** in accordance with **international requirements** and thus contribute to a high level of production safety
- ✓ Our high-performance lubricants contribute to **higher production safety**, increase machine utilization and enable **savings in maintenance**
- ✓ High-performance lubricants with low labeling **contribute to maintaining the health of production workers**