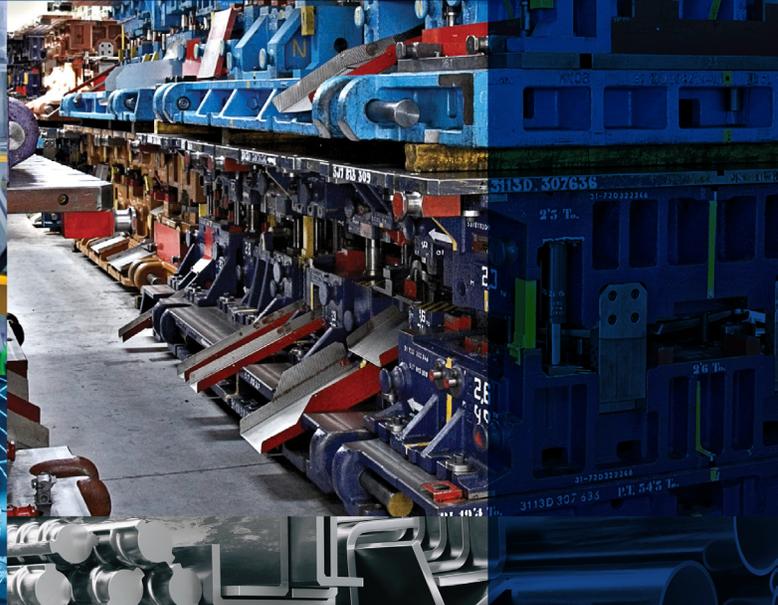


Metal Forming Lubricants



Innovative Lubricants for Current Stamping Challenges

SUBSTRATE CHALLENGES

As higher yield strength steel alloys are developed and commercialized, formability decreases, while work hardening and associated spring back become more pronounced, often accelerating tool and coating wear. Selecting a lubricant that is designed to meet increasingly difficult forming conditions is a necessity for robust process design. FUCHS' lubricant product range is comprised of all lubricant types used in press working for all alloys including ferrous, aluminum, magnesium and coated steels.

PROCESS CHALLENGES

The growing variety of steel grades and part complexities used in finished product designs demand lubricants with the versatility to meet all die lube needs in the shop, while also providing corrosion protection to multiple substrate surface types. Ultimately, the lubricant residue must be compatible with the available cleaning system, or be sufficiently inert that cleaning is not required before further processing or assembly. FUCHS chemistries provide you with choices to optimize your entire process including cleaning, corrosion protection, adhesives or paint applications.

HSE CHALLENGES

Employees and employers alike demand fluids that are safe in the work place. The regulatory environment demands innovation in lubricant design to assure compliance and minimize costs and risks related to fluid use, recirculation, treatment or disposal. FUCHS press lubes are designed to meet or exceed the latest regulations, and most often in advance of regulatory needs, such as chlorinated paraffin replacement.



Lubricants Overview To Meet Process Challenges

Type	Product	Description
Synthetic water extendible series	ECODRAW BG	Unique active extreme pressure additives for advanced high strength steel alloys.
	ECODRAW EG	Peerless non-corrosive performance on zinc-coated substrates.
	ECODRAW HVE	Industry leader for versatile “house lube”.
	ECODRAW HVRG	Versatile and robust in-die performance with exceptional corrosion protection.
	RENOFORM SYN 4000	Formulated for clean, low foaming performance with yellow metals.
	RENOFORM SYN 7000	Heavy duty fluids with advanced corrosion protection and bio-stability for recirculation.
Water-miscible series	MONTGOMERY DB 4265C	Comprehensive industry leader, versatile “house lube”.
	MONTGOMERY DB 4265BW	Increased oil content, versatile.
	RENOFORM OS 7800	Chlorine-free, heavy duty, multi-metal, excellent wetting, ease of cleaning and bio-stability.
	RENOFORM OS 4000	Chlorine and sulfur free, extremely clean and versatile.
	RENOFORM OS 2800	Acceptable chlorinated paraffin with excellent corrosion protection and bio-stability.
Neat oils series	RENOFORM SV	Complete range of vanishing fluids.
	RENOFORM OL 1000	Low VOC replacements for vanishing fluids.
	RENOFORM OL 7000	Chlorine-free, moderate to heavy duty, wide viscosity range, versatile and clean.
	RENOFORM OL 8000	Chlorine-free, extreme duty fine blanking applications.
	RENOFORM OL 2000	Acceptable chlorinated paraffin with excellent corrosion protection.
	RENOFORM EXT	Universal extrusion and cold forming fluids.

FUCHS Lubricants

Innovation to provide process reliability

FUCHS Lubricants Co. understands the challenges in today's metal forming applications. Light weighting of components, diverse substrates, productivity, regulatory challenges, and increasing part complexities will all continue to create substantial changes to the industry and require more robust lubricants to meet your process requirements. FUCHS has developed a comprehensive portfolio of metal forming lubricants to advance your operation now and into the future.



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