



Multipress®

High performance lubricants
for extruding and rotary swaging

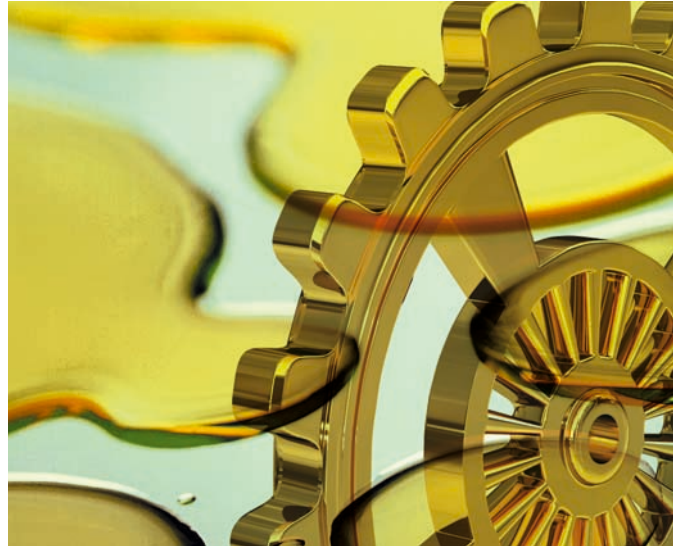
Multipress® – High performance lubricants for extrusion and rotary swaging

Our Multipress® extruding oils are specifically composed for the requirements of modern fast-running machines and the highly alloyed steels used in metal forming.

We develop extruding oils for the most diverse requirements in close practical cooperation with our customers, according to application with a high content of fatty components and EP-additives.

The consistently high quality of the lubricant components utilised results in the greatest possibly operating safety for the user. Multipress® extruding oils make ensure an efficient and cost-optimised production.

Zeller+Gmelin is certified to DIN EN ISO 9001:2008 and DIN EN ISO 14001:2004.



Advantages:

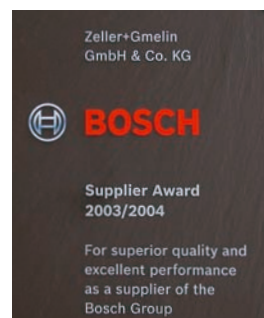
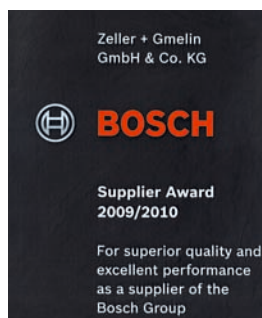
- can be used on single- and multi-stage presses
- lubrication: good EP properties, high pressure absorption capacity
- high temperature stability
- easy application, good adhesion
- good degreasing after processing
- compatible with surface coatings (bonderising, oxalic acid treatment, soaping) and follow-up operations
- protection against corrosion
- environmental friendly

We also offer advice on questions concerning lubrication and machining, laboratory monitoring of the products in use as well as help in lubricant disposal.

In the overview below you will find a comprehensive selection of Multipress® extrusion oils for non-cutting metal forming. Further products for special purposes are available upon request. Our technical service is available for advice concerning the usage.

Awards: July 2015 / July 2013 / March 2010 / June 2005 / June 2003

Received the Supplier Award for the **best lubricant supplier** of the Bosch group.



Multipress Extrusion oils - Type overview

Product	Prod.-No.	Description	Viscosity mm ² /s/40 °C	Low alloyed steels	Case hardened & tempering steels	Stainless steels	Non-ferrous heavy metals	Aluminium
Standard program								
Multipress SSP 120 Multipress SSP 70	21130 23620	Extremely high-additivated extruding oils for highest demands. Due to special EP-additives and polar agents perfectly suited for all kind of stainless steel and highly hardened and tempered steel.	120 70	● ●	● ●	● ●	○ ○	◐ ◐
Multipress Ultra 120 Multipress Ultra 70	22020 22480	Highly alloyed extruding oils for strong forming of high-strength steels as well as for manufacturing of complicated shaped tools, e.g. for hollow parts and cup pieces of polymer coated wire. Also well suitable as a punching and fine-cutting oil.	120 70	● ●	● ●	● ●	○ ○	● ●
Multipress Extra 120 Multipress Extra 70	81351 91151	Highly alloyed extruding oils for steels difficult to form as well as for manufacturing of complicated shaped tools.	120 70	● ●	● ●	◐ ◐	○ ○	◐ ◐
Multipress S 70	97250	Extruding oil for medium forming operations e.g. for production of cylinder head bolts with hexagon socket.	70	●	●	○	○	●
Multipress 70 Multipress 40	20880 20560	Extruding oils for simple to medium forming processes e.g. for production of DIN-screws.	70 40	● ●	◐ ◐	○ ○	○ ○	○ ○

Key: ● suitable ◐ suitable for metal forming up to medium difficulty ○ not suitable



Multipress Extrusion oils - Type overview

Product	Prod.-No.	Description	Viscosity mm ² /s/40 °C	Low alloyed steels	Case hardened & tempering steels	Stainless steels	Non-ferrous heavy metals	Aluminium
Full-synthetic oils, low in evaporation								
Multipress SPE 120	90300	Highly alloyed, fully synthetic extruding oils extreme low in evaporation for steels difficult to form with complicated dies on single- and multi-stage presses. Flash point > 240°C.	120	●	●	●	○	●
Multipress SPE 70	20950		70	●	●	●	○	●
Special oils for aluminium and non-ferrous metals								
Multipress AL 70	20371	Fully synthetic extruding oils with high content of fatty components, esp. for aluminium and non-ferrous heavy metals. Leaves no residues after thermal treatment.	70	○	○	○	●	●
Multipress AL 40	93914		40	○	○	○	●	●
Multi-purpose oil								
Multipress Universal 70	22630	Extruding oils for multifunctional use in extrusion presses and for slideway lubrication, especially for oil circuits that are not separated. Fulfills DIN 51517/part 3. With worldwide approval of company Schaeffler.	70	●	◐	○	◐	◐
Special types								
Multipress PEK	81101	Pigmented extruding oil for strong formings of highly hardened and tempered steels and stainless steels also of non-phosphated pre-material, especially for warm forming, also for pre-drawing and calibrating drawing.	-	●	●	●	○	◐

Key: ● suitable ◐ suitable for metal forming up to medium difficulty ○ not suitable



Multipress® – Oils for rotary swaging and gear forming

Rotary swaging – an innovative cold forming procedure with products from Zeller+Gmelin

Zeller+Gmelin has the ideal lubricant for this high-grade production process. Our products **Multipress RK 20 / RK 15** are high-performance lubricants for rotary swaging of steel. The lubricants are characterised by its excellent rinsing and cooling effect.

Recommended by leading manufacturers of rotary swaging machines.

We recommend **Multipress AL 40** as a rotary swaging oil for aluminium and non-ferrous heavy metals.

These rotary swaging oils are specially adjusted to our oils for gear forming. In this manner the overall efficiency is increased and optimised.

We recommend our products **Multipress SSP 70** or **Multidraw CF 4** for gear forming.



Product	Prod.-No.	Description	Viscosity mm ² /s/40 °C
Oils for rotary swaging			
Multipress RK 20 Multipress RK 15	23200 24900	Rotary swaging oils containing mineral oil for steel with approvals of leading manufacturer of rotary swaging machines.	20 15
Multipress AL 40	93914	Fully synthetic rotary swaging oil for aluminium and non-ferrous heavy metals.	40
Oils for gear forming			
Multipress SSP 70	23620	Gear forming oil for the highest requirements suitable for stainless steels, steels and to a limited extent for aluminium.	70
Multidraw CF 4	95151	Gear forming oil for high requirements suitable for stainless steels, steels and aluminium and to a limited extent for non-ferrous heavy metals.	40



Zeller+Gmelin GmbH & Co. KG is a medium-sized, independent chemical company with headquarters in Eisingen, Germany. The company employs over 850 employees worldwide. Of the 480 workers employed at the headquarters in Eisingen, approximately 20% work in research and development. This shows that Zeller+Gmelin is not only a manufacturer and supplier, but also an important development partner for the lubricant industry. After decades of specialization, there are now over 800 high performance lubricants in our product portfolio, which are divided into the following areas:

Machining

- Water-miscible and non-water-miscible cooling lubricants for metalworking
- Corrosion inhibitors

Forming

- Punching and deep drawing agents
- Wire drawing agents
- Cold mass forming products

Industrial lubricants

- High performance industrial greases
- Gear oils and hydraulic fluids
- Slide and guideway oils

Special lubricants

- Special lubricants for textile machines
- Separating agents for the wood and metal industry
- Lubricants for powder metallurgy

We are there for you in over 100 countries worldwide!



Zeller+Gmelin
Mineralöle · Druckfarben · Chemie

Zeller + Gmelin GmbH & Co.KG
Schlossstraße 20 · 73054 Eisingen, Germany
Fon +49 7161 802-0 · Fax +49 7161 802-520
info@zeller-gmelin.de · www.zeller-gmelin.de