



Eco friendly machining



Characteristics

- Usable for
 - Stainless steel
 - Low-alloy steel
 - Brass
 - Aluminum
 - Copper
 - Fused alloys
- Compatible with micro pump systems (VIP4)
- Compatible with Venturi systems (MKD)
- Greater duration to the tools job
- Decrease cycle time

MK 150

MKL oil used in minimal systems for all the alloys of good tough ability

MKD is a lubricating cooling grease not mixable with water.

MKD is a straight coolant lubricant containing iso-paraffins for the machining and not cutting shaping of NF materials, aluminium and its alloys.

contains a completely odourless, aromatic-free hydrocarbon with a narrow boiling curve.

The active-agent combination consists of native greases and oils.

This combinations of additives enables superior surface finishes of the manufactured workpieces and long tool life to be achieved.

is used as supplied and can be applied, for example, by dipping, rolling or spraying to be workpieces to be shaped



Depending on the geometry of the parts produced and the type of application procedure, it is sometimes possible to dispense with subsequent degreasing operations. Workpieces produced with MK 150 can be degreased in commercially available industrial cleaners.

Order Informations

INFORMATIONS ON SPECIFIC WEIGHT AND DIMENSIONS

PART NUMBER	DESCRIPTION
3226664	MK 150 20 Liter Pack

AVERAGE CHEMICAL AND PHYSICAL PROPERTIES

Density a 20° C	0,86 Kg/lt
Viscosity a 40° C	13 cSt
Flashpoint	70°C
Temperature a °C	240°C

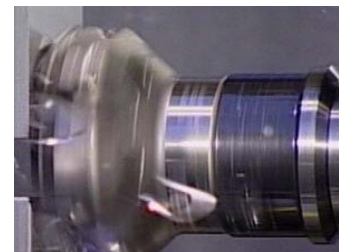
Ideal for

Good tough ability

Applications

- Turning
- rolling
- drilling
- Thread
- Cutting
- Punching
- Sawing

Example near dry machining





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Contacts

www.dropsa.com
sales@dropsa.com

ITALY

Dropsa SpA
t. +39 02-250791
f.+39 02-25079767

U.K.

Dropsa (UK) Ltd
t. +44 (0)1784-431177
f. +44 (0)1784-438598

GERMANY

Dropsa GmbH
t. +49 (0)211-394-011
f. +49 (0)211-394-013

FRANCE

Dropsa Ame
t. +33 (0)1-3993-0033
f. +33 (0)1-3986-2636

SPAIN

Polydrop, S.A.
t. +34 (0)93-260-22-50
f. +34 (0)93-260-22-51

U.S.A.

Dropsa Corporation
t. +1 586-566-1540
f. +1 586-566-1541

AUSTRALIA

Dropsa Australia Ltd.
t. +61 (0)2-9938-600644
f. +61 (0)2-9938-6611

BRAZIL

Dropsa do Brazil
t. +55 (0)11-563-10007
f. +55 (0)11-563-19408

CHINA

Dropsa Lubrication Systems
(Shanghai) Co.,Ltd
t. +86 (021) 67740275
f. +86 (021) 67740205

Systems MQL Informations

MINIMAL QUANTITY LUBRICATION (MQL) & NEAR DRY MACHINING

The aim of near dry machining is to replace traditional coolant and pure oil flood systems in a machining environment with an accurately controlled compressed air stream that carries minimal quantities of oil lubrication in an "aerosol" format to the cutting surface. This ensures lubrication of the cutting surface and allows for high performance machining.

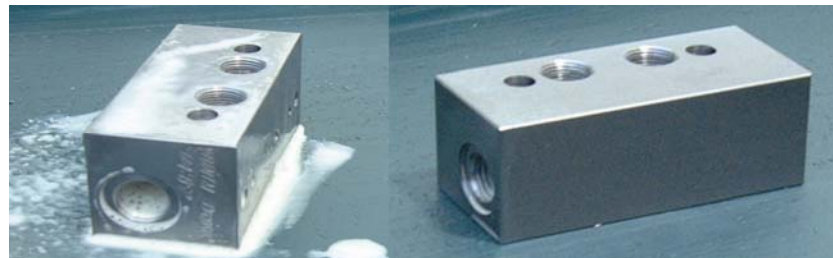
Lubricating Aerosol is transported to the cutting surface in two ways:



With **External** Lubrication: oil is transported via a nozzle to the cutting surface.

Dropsa has a complete product line from simple, easy to install products such as the **Grip** and **Vip4Tools** series for External lubrication (please ask for documentation).

With **Internal** or "through-the-tool" lubrication: oil is transported through internal lubrication holes in the cutting tools. The **MKD-Dual** product leads the way with patented technology that generates specifically profiled micron-sized oil aerosol particles that can be injected through existing spindles and tool-holders to the leading edge of the cutting tool.



THE BENEFIT OF DROPSA NEAR-DRY MACHINING TECHNOLOGY

- **Reduce work cycle** times, generally by **25% to 80%**.
- **Increase tool life** thus increasing time between tool change and gain productivity.
- Better **surface finish** and **tolerances** can be achieved.
- **Eliminate coolant** – make your plant more environmentally friendly.
- Parts finish machining with a fine **rust inhibiting oil coating** – not coolant contamination.
- **Water** and **oil** consumption drastically **reduced**.
- Our technology works on diverse **materials** and **machining operations**.
- Eliminate capital cost of high pressure thru-tool coolant system on new systems.
- Side-by-side Implementation parallel to existing coolant system gives you peace of mind and maximum flexibility.
- MKD DUAL Uses Patented Auto-adaptive technology eliminating complex and continual adjustment between tool change.

Coolant is eliminated



Cycle times are reduced



Tool life is increased



ADVICE ON TOOLING AND APPLICATIONS AVAILABLE