

OFFSET PRINTING

Lubrication for offset printing

Lubrication points in an offset printing machine include:

Chain systems, for which Dulub VISCACHAIN VC-28 and cleaner CLINLUB 677RS are recommended.

Gear sets and bearings supporting all rollers, for which DUADD CONI is recommended as additive to the circulation oil.

Other bearings, for which LAGERFETT MR16 is recommended.

Grippers transferring paper, for which SPRAY 3030 is recommended.

For high temp pump or bearings in UV curing section, LAGERFETT GU986 is recommended as the bearing grease.

Oil for chain lubrication

For the most commonly adopted roller chains, lubricants have to be able to flow into the contacting surfaces inside the pin and bushing/ plate/ roller. For this purpose, oils certainly outperform greases.

For chains operating below 110°C, we recommend:

Dulub VISCACHAIN VC-28

VC-28 is a synthetic fluid formulated to meet high demand of chain systems operating under severe conditions.

Good adhesivity keeps itself stay-in-place without splashing by centrifugal force. Good penetrating property promotes its creeping into gaps of chain link. Extreme pressure additive exhibits excellent boundary lubrication keeping the chain work longer. One can almost use VC-28 for all chain systems except high-temp applications.

Spray for chain lubrication

For manual lubrication, when there is difficult site or reinforced lubrication for certain situation, Dulub offers spray type lubricants for ease of application.

Dulub VISCACHAIN 28 SPRAY

This is the spray type of VISCACHAIN VC-28.

Lubricant cleaning agent

For lubricant cleaning in chain systems, care must be taken that the cleaning agent should leave a protective film as it cleans the residue off the chain surface. This ensures that the chain is protected against possible wear before application of fresh lubricant.

For this application, Dulub offers:

Dulub CLINLUB 677-RS

This is a cleaning agent for lubricant residue cleaning. It leaves a strong lubrication film while cleansing the residue which protects the sliding surface before re-lubrication.

Additive for circulation oil

There are gear sets driving cylinders and plain bearings supporting all rollers in the inking system. Obviously, one single circulation system for lubrication of both gear and plain bearing, which have different viscosity requirement for lubricant, is preferred.

To achieve this purpose, **Dulub DUADD CON1**

is recommended as the additive for the circulation oil.

DUADD CON1 is an additive with thixotropic and high-loading characteristics. It can be added to the circulation oil to exhibit an increased viscosity when working with gear motion and maintains the oil's regular viscosity when working with plain bearing motion.

Spray for grippers

For grippers, it is important to smoothen its catching and releasing function, while not contaminating the paper:

For this,

Dulub SPRAY 3030

is recommended. It is a spray type dry lubricant, and indicated for re-lubrication cycle of once or twice every morning and afternoon.

High-temp bearing grease

For high-temp pump and bearings in UV curing section,

Dulub LAGERFETT GU986

is recommended. This is a high/low temp high speed grease based on synthetic fluid and organic polymer.

The synthetic base offers a very good thermal stability, and the organic polymer thickener makes it stable against thermal stress attack. Thanks to its strong oil film, it can withstand high load and shows excellent anti-wear property.



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