

User Manual

Fasteners, Lubricants

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Marel Stork Poultry Processing B.V.
Boxmeer, The Netherlands

Marel Stork Poultry Processing Inc.
Gainesville, USA

Marel Townsend Further Processing B.V.
Boxmeer, The Netherlands

Marel Townsend Further Processing Inc.
Des Moines, USA

Marel Meat Processing B.V.
Boxmeer, The Netherlands

Marel Meat Processing Inc.
Des Moines, USA

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This is the original English language document.

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Fasteners

Scope

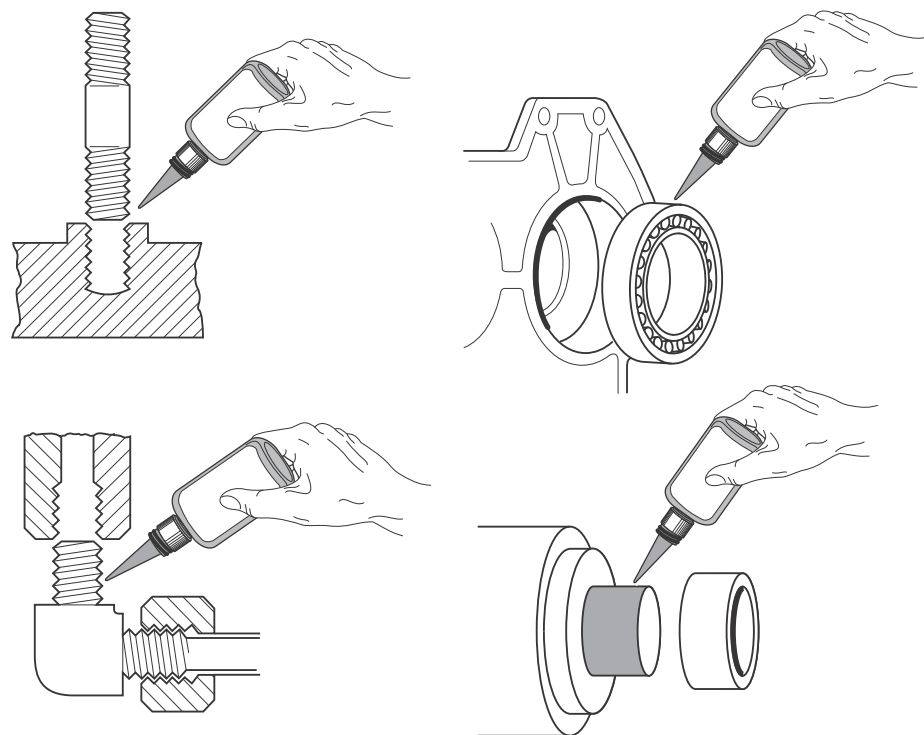


Figure 1 Examples of liquid compounds, liquid sealants and jointing compounds

We give you information about the liquid compounds, the liquid sealants and the jointing compounds that we use in our machines.

We apply the liquid compounds to lock the thread.

Do not forget this when you replace parts. You can see the remainder of the liquid compound when you disassemble the parts. Apply the correct liquid compound when you assemble or replace these parts.

We apply the liquid sealant on the connections that must not leak.

You can see the remainder of the liquid sealant when you disassemble the parts. Apply the correct liquid sealant when you assemble or replace these parts.

We apply the jointing compounds to bond the components permanently.

You cannot disassemble these components.

In some cases it is possible to disassemble the parts.

Our service department can tell you how to disassemble these parts.

Choice of compound

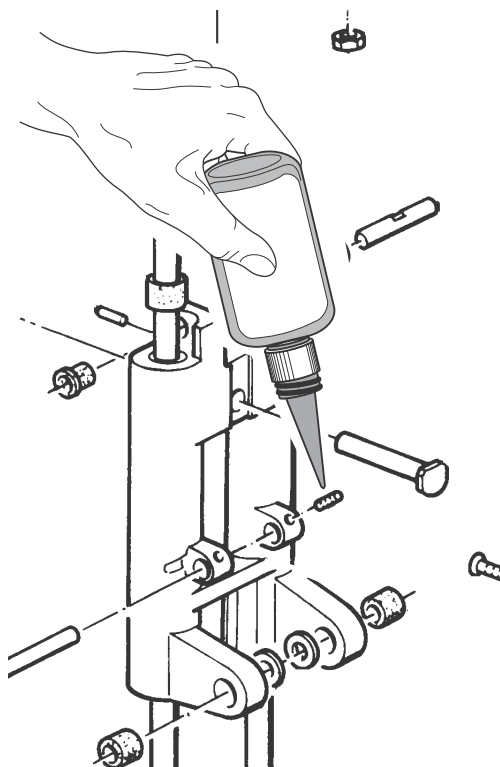


Figure 2 Apply the liquid compound



NOTE

Apply the correct liquid compound to prevent that the components get loose.

The liquid compounds, the liquid sealants and the jointing compounds that we use are from the brand LOCTITE.

Get in touch with your local LOCTITE supplier for more details.

We apply these products from the LOCTITE range, see Table 1.

Table 1 When to apply which loctite



Drawing symbol + Code	Description	Loctite	Details
	Removable thread lock	Loctite 542 Loctite 242 Loctite 248	Diameter < 3/4" Clearance < 0.25mm Diameter < M50
	High strength thread lock	Loctite 2701 Loctite 271 Loctite 277 Loctite 268	Diameter < M20 Diameter < M20 Diameter < M80 Diameter < M50

Table 1 When to apply which loctite








Drawing symbol + Code	Description	Loctite	Details
	Gasket seal	Loctite 510 Loctite 515	Clearance < 0.25mm Diameter < 2"
	Hydraulic / pneumatic sealant	Loctite 542 Loctite 545 Loctite 248	Diameter < 3/4" Diameter < 2" Diameter < M50
	High strength retainer	Loctite 603	
	High strength retainer	Loctite 638	
	Fit cylindrical parts	Loctite 641	
	High-strength bonding	Loctite 648	
	Instant adhesive	Loctite 480	
	Instant adhesive	Loctite 495	

Table 1 When to apply which loctite

Drawing symbol + Code	Description	Loctite	Details
	Screw-thread sealant	Loctite 577 Loctite 561	
	Steam and water sealant	Loctite 5366	
	Sealing cord thread lock	Loctite 55	

How to use



NOTE

Use safety requirements of the supplier when you apply these compounds and sealants.

Follow the instructions for use from the supplier of the liquid compound, the liquid sealant and the jointing compound.

- Degrease, clean and dry surfaces for the best bond.
- Warm up the connection if the disassembly is difficult. Do not use a naked flame for this (like a burner) but preferably use a hot-air drier.

Lubricants

Scope

In this chapter you find information on the grease and the oil in your machine.

Grease








Grease the threaded connections with food grade anti seize grease.

Grease the bearings with food grade grease.

When you have to apply different grease, then the user manual describes this clearly.

See Table 2.

Table 2 Greases, food grade

Drawing symbol and code	Application	Brand	Product
	Anti seize		White food grade grease
			Never-Seeze food grade grease
	Bearings		Obeen FS 2
			Cassida grease RLS 2
			Cassida EPS2

Oils

In the maintenance chapter of the user manual for your machine you find the oil type and the viscosity you must use.




In the oil table you find for each oil type (1) per viscosity (2) the correct oil from different brands.

- "CLP" means mineral oil.
- "CLP PAO" means synthetic oil, Poly-Alpha-Olefin.

- “CLP HC” means food grade oil as per National Sanitation Foundation, NSF, classification H1.
- “Ambient temperature in °C” means the temperature around the motor reducer in the machine.

See Table 3 and Figure 3.

Table 3 Explanation of symbols in oil table

Symbol	Meaning
	Oil
	Hydraulic oil
	Food grade

	Oil		Ambient temperature in °C	ARAL	bp	Castrol	Shell	FUCHS	Mobil	KLÜBER LUBRICATION	TOTAL	TEXACO	Q8
	Type	Viscosity at 40 °C in mm ² /s											
	CLP	220	-15	Degol PAS 220	Energol GR-XP 220	Optigear BM 220	Omala S2 G 220	Renolin CLP 220	Mobilgear 600 XP 220	Küberoil GEM 1 - 220 N	Carter EP 220	Meropa 220	Goya 220
	CLP PAO	150	-20	Degol PAS 150	Energol HTX 150	Optigear synthetic X 150	Omala S4 GX 150	Renolin Unisyn CLP 150	Mobil SHC Gear 150	Küberoil GEM 4 - 150 N	Carter SH 150	Pinnacle EP150	Schumann 150
	CLP HC	150	-15			Optileb GT 150	Cassida GL 150	Geralyn SF 150	Mobil SHC Cibus 150	Küberoil 4 UH 1 - 150 N	Nevastane SL 150		
	CLP HC	220	-15	Eural Gear 220		Optileb GT 220	Cassida GL 220	Geralyn SF 220	Mobil SHC Cibus 220	Küberoil 4 UH 1 - 220 N	Nevastane SL 220		
	CLP	68	-15	Degol BG 68	Energol GR-XP 68	Optigear BM 68	Omala S2 G 68	Renolin B 20 VG 68	Mobilgear 600 XP 68	Küberoil GEM 1 - 68 N	Carter EP 68		Goya 68
	CLP HC	68	-15	Eural Hyd 68		Optileb HY 68	Cassida HF 68	Geralyn SF 68	Mobil SHC Cibus 68	Küberoil 4 UH 1 - 68 N	Nevastane SL 68		

Figure 3 Oil table

	Hydraulic oil		Viscosity at 40 °C in mm ² /s	ARAL	bp	Castrol	Shell	FUCHS	Mobil	KLÜBER LUBRICATION	TOTAL	TEXACO	Q8
	Type	Food grade											
			46	Vitan HF 46	Vitan HF 46	Dual range HV 46	Tellus S2 V 46	Renolin B15 VG 46	Hydraulic oil AW 46		Azolla ZS 46	Rando HDZ 46	
			46	Eural Hyd 46		Optileb HY 46	Cassida HF 46	Cassida Fluid HF 46	DTE FM 46			Cygnus 46	

