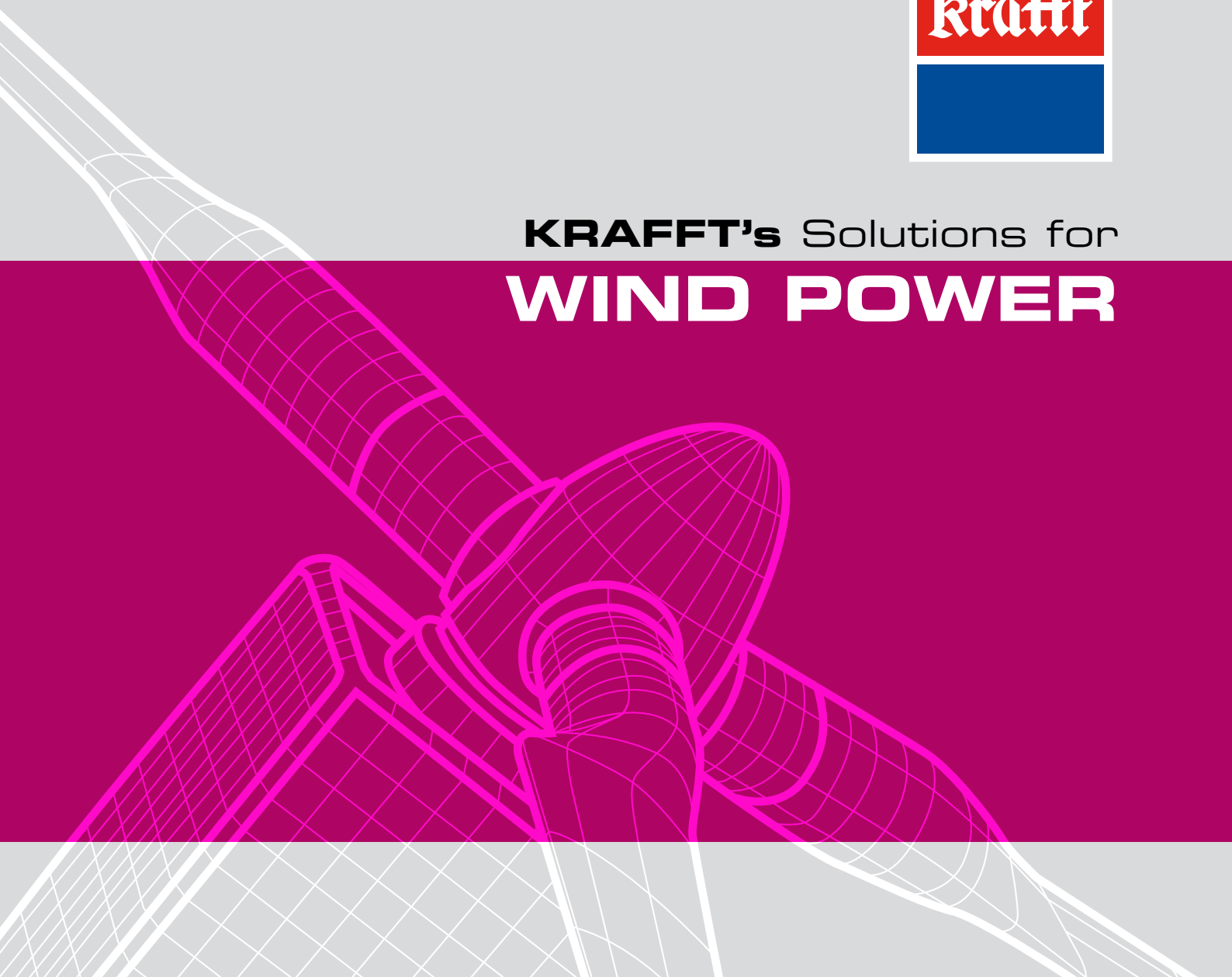




KRAFFT's Solutions for
WIND POWER





SILICONES AND HYBRID POLYMERS*

Silicones and hybrid polymers with high mechanical performances, suitable for adhesion and for sealing as well where the conditions require high resistance.

NOVATTANE 3100

Two-component polyurethane adhesive for repair and maintenance.

SILKRON POLYMER H-200

Like H-100, but with very high initial tack (green strength)

SILKRON POLYMER H-100

High modulus one-component hybrid adhesive (semi-structural). For flexible union, paintable and with high resistance to UV. Suitable for many kinds of substrates like metal, polycarbonate, wood, glass, glass fibre, concrete, etc.

SILKRON POLYMER H-75

Medium modulus one-component hybrid adhesive/sealant, more for sealing than adhesion. For flexible union, paintable and with high resistance to UV. Suitable for many kinds of substrates like metal, polycarbonate, wood, glass, glass fibre, concrete, etc.

POLIFLEX PRO

Transparent (crystal clear) one-component hybrid adhesive/sealant. It cures quickly at room temperature. Paintable and with high resistance to UV. Sealing for any kind of joint.

SILKRON HT

This one-component RTV silicone range is available in neutral and in acetoxy cure. Resistant to high temperature (up to 300°C). good resistance to vibrations, humidity and against most of the chemicals. It is used mainly as sealant/adhesive for high temperature where the hybrid can not resist.

SILKRON SPG

One-component acetoxy silicone. Resistant to oil, some chemicals and to high temperature.



	2-COMPONENT PU	HYBRID POLYMERS			SILICONES	
	NOVATTANE 3100	H-100	H-200	Poliflex PRO or H-75	HT	SPG
Tack free time (min)	N.A.	35	20	35	10	15
Shore A hardness	75 (Shore D)	51	53	32	50	28
Module at 100% elongation (MPa)	N.A.	1,7	1,75	0,68	1,7	0,5
Elongation at break (%)	5	350	250	380	220	300
Tensile strength (MPa)	33	2,9	3,8	1,8	4	1,3
Temperature resistance (°C)	-30 to 90	-30 to 90	-30 to 90	-30 to 90	-60 to 280	-60 to 220

* Please contact Krafft to have information about the full range .

ANTIFREEZE COOLANT *



ENERGY PLUS:

It is a high performance "LONG LIFE" coolant. It is prepared with mono-ethylene-glycol and a special additives package based on the new organic technology. These additives are specially designed to protect against corrosion all the different metals existing in a coolant circuit, even the light alloys. It is free of nitrites, amines, phosphates (NAP free) and silicates.

ECO PLUS:

It is a coolant prepared with propylene-glycol instead of the usual mono-ethylene-glycol: it is then a non toxic product. It provides also high performances like the Energy Plus and it is based also on the new organic technology additives.

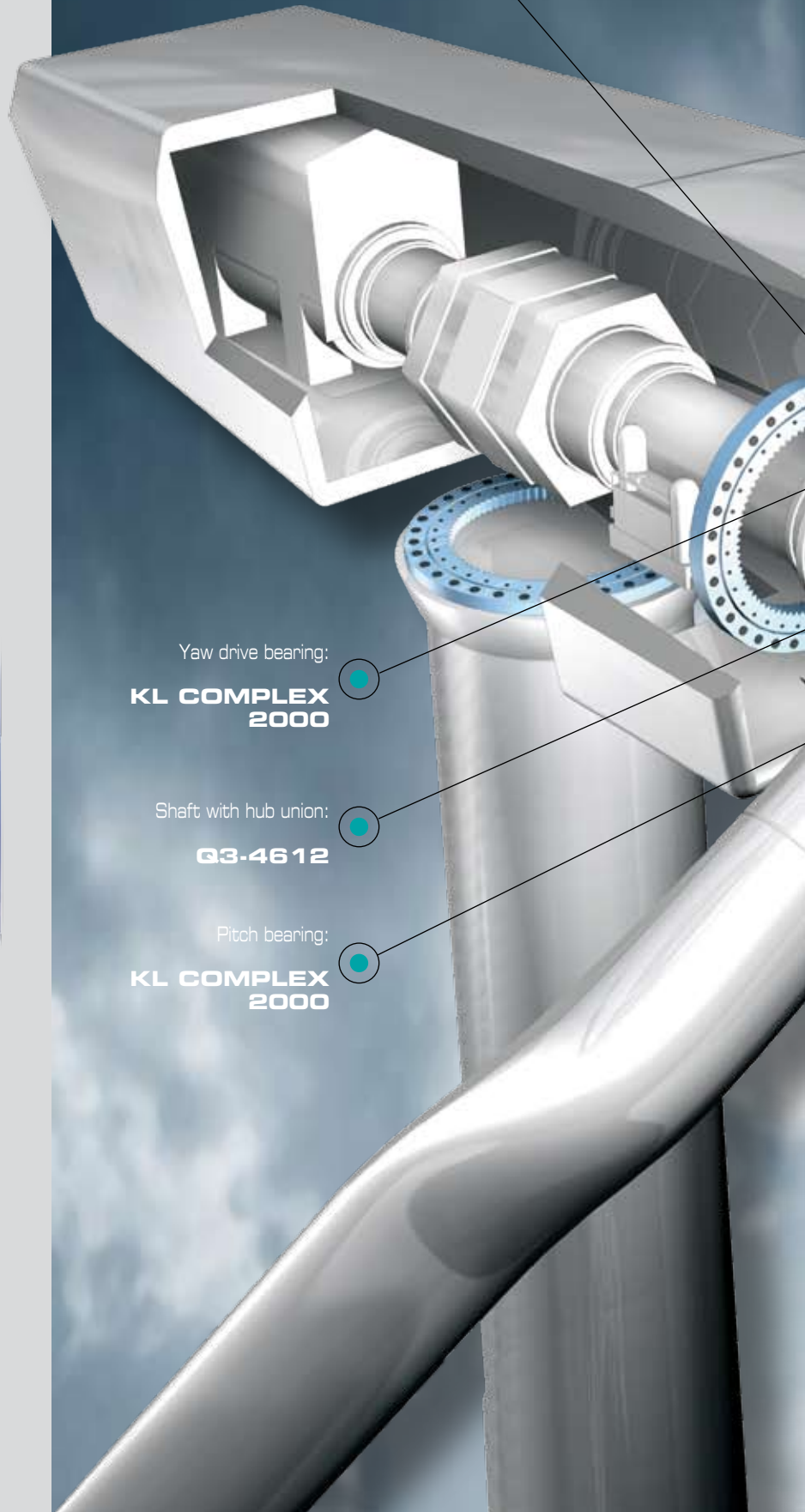


Blade with hub union:

Antiseize 907

Assembly:

Q3-4612



Yaw drive bearing:

KL COMPLEX 2000

Shaft with hub union:

Q3-4612

Pitch bearing:

KL COMPLEX 2000

* Please contact Krafft to have information about the full range .

CORROSION PROTECTION

KAVITER ML

- It is a penetrating product, water repellent and corrosion protector for metallic surfaces.
- The dry coat is waxy and soft.
- It can be applied by spraying, so it is also suitable for cavities.
- It exists in bulk or in aerosol forms.
- It is also recommended to keep parts on the warehouse protected against the corrosion

STEC Galva range: technical sprays

This is a range of galvanization sprays providing a high protection against corrosion

STEC GALVA FLASH

- > 3.000 hours resistance to salt spray (ASTM B 117)
- Mirror effect: very shiny

STEC GALVA MATT

- > 3.000 hours resistance to salt spray (ASTM B 117)
- High purity zinc (99%)
- Matt finish

STEC GALVA INOX

- > 1.300 hours resistance to salt spray (ASTM B 117)
- Special for aluminium and stainless steel
- Perfect finish



CLEANERS

Krafft offers an extensive range of cleaners for professionals.

SHAMPOO HD-180 ENERGIK PLUS

It is an alkaline shampoo that allows to clean without rubbing. It is not recommended for light alloys like aluminium. In this case, the HD-200 is the recommended one.

SHAMPOO HD-200 ENERGIK

It is a alkaline shampoo that allows to clean without rubbing, but this one is also suitable to clean light alloys like aluminium.



RECOMMENDED
FOR BLADE
CLEANING IN
**WIND
ENERGY
MARKET**



LUBRICANTS

PASTES and GREASES

PASTES*

Q3-4612

This paste contains a high quantity of solid lubricants, a synergic mixture of MoS₂ and graphite.

Applications:

- For threaded connections to avoid seizing and to allow an easy dismantling even after years
- As a priming paste for new parts (running in): the main application is gears
- As assembly paste particularly for tight fit or assembly with interference, for example bearing on shaft
- As lubricant for very high load and low speed

Characteristics:

- Very high load capacity
- It protects the parts during running in
- It avoids stick-slip effect under high load and low speed

ANTI-SEIZE 907

It is a high quality anti-seize copper paste for threaded connections

Characteristics:

- High temperature resistance (the solid particles are resistant up to 1.100°C)
- Good protection against corrosion
- It allows an easy dismantling even after years

GREASES*

We are presenting here just some greases of our range. To have a more complete range, please contact Krafft.

KMS

Multipurpose grease with MoS₂ for high load.

Characteristics:

- High load capacity
- Temperature range: -30°C up to +130°C (peak of 150°C)
- It provides an emergency lubrication thanks to the solid lubricants

KL COMPLEX 2000

Lithium complex grease with solid lubricants and adhesion improver: for very high load and low speed.

Applications:

- Bearings under very high load and low speed: for example the pitch bearings, the yaw drive bearing, the nacelle orientation bearing
- Open gears under high load

Characteristics:

- Very high load capacity
- Extraordinary adhesion, so it stays on place under very high loads and vibration
- Very high water resistance
- Temperature range: -10°C up to +150°C
- Provides an emergency lubrication thanks to the solid lubricants

KL COMPLEX 150

Multipurpose lithium complex grease for high temperature and with EP characteristics

Applications

- Multipurpose grease for high temperature
- Bearing under high temperature or high load and/or high speed: for example bearings of electrical motors, fans...

Characteristics

- High load capacity (EP additives)
- Good working temperature range: -20°C up to +160°C (peak of 200°C)
- Thanks to its special thickener, long lasting grease
- Good speed factor
- High corrosion protection
- Long lasting



* Please contact Krafft to have information about the full range .



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