



**WOERNER**

Lubrication Experts since 1922



# Kx cartridge system

Economical

Ecological

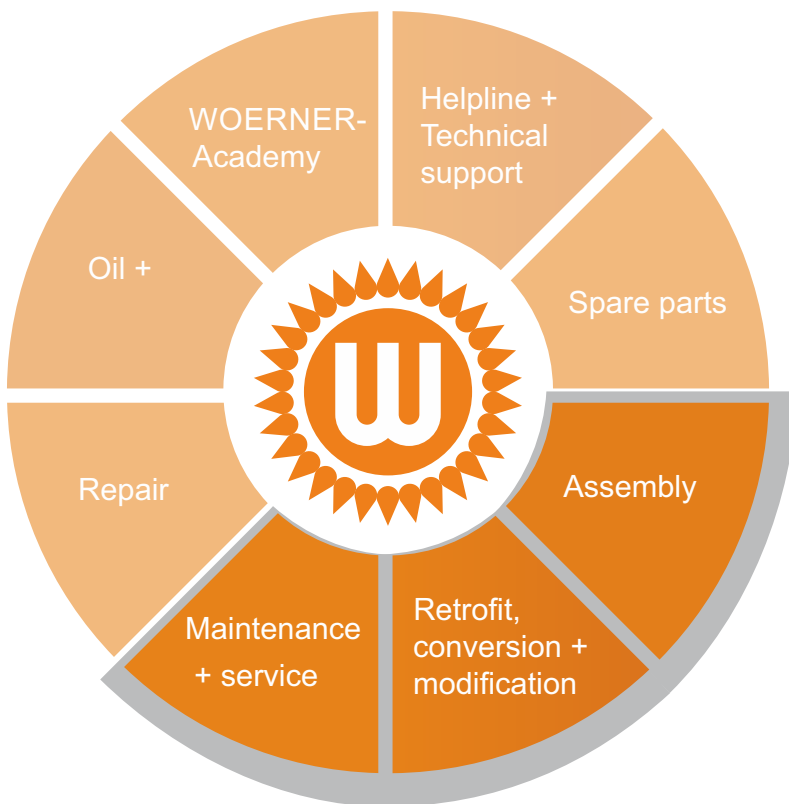
Suitable for





Since 1922 we have been passionate about “correct lubrication”. We develop and produce systems which minimise friction and wear in machines. Our aim is to pump the right quantity of lubricant to the right spot at the right time.

Short response times, fast support and suitable spares in stock – sometimes even after 50 years!



We offer you different service modules which you can combine into an optimum package. This means you get exactly the support you need.

To us, good service goes without saying. This is why we always offer you, our customers, our full support, no matter whether you need it one year, 25 years or more than 50 years after buying one of our products.

Make the most of our innovative Kx cartridge system for both new and existing plant.



# Cartridge system Kx: Simplified, safe lubricant handling

Central lubricating systems are often installed in places that are difficult to access or only accessible to a limited extent. This makes refilling the lubricant container a special challenge. Filling is often a messy affair, not least due to the restricted accessibility and limited space available. Grease and oil residue collect on the outside of the container, leading to an unsightly appearance and becoming a magnet for dirt and dust.

In addition to visual impact, incorrect or sloppy filling can also lead to functional problems with the entire central lubrication system, causing it to fail.



**Kx ESD cartridge  
conductive for ATEX  
applications**



**Kx transparent cartridge  
for industrial applications**

- Bubble-free filling of NLGI Class 0 to 2
- Max. filling volume 5,700 ml
- Filling in part quantities possible
- Closed container: minimum risk of contamination by dirt
- Simple handling
- Minimum residual volume of less than 1%
- Customer-specific filling of all lubricants possible
- Re-usable
- No design effort for new pump and no new purchase necessary thanks to re-use

The Kx cartridge system is an integrated system for safe lubricant/hazardous material handling, especially for industrial sectors such as the water, waste, construction, food and pharmaceutical industries, regardless of whether it is used within production or on the construction site. Refilling processes and cartridge exchange can be transferred from maintenance to the machine operators. The Kx cartridge system represents the first holistic approach to lubrication and greasing.

This means that the user can equip almost any pump unit on the market with the Kx system.

A large number of central lubrication pumps from different manufacturers can be retrofitted using adapters.

For WOERNER pumps, there are conversion kits already available for all pump units. For bearing-free or rotating use of the new Kx cartridge system, it can be equipped with a compression spring on request.



For adapter variants see data sheet P0915



# CLOSED-LOOP SYSTEM



Eco-friendly and careful use of resources is becoming increasingly important in all industrial sectors. The Kx cartridge system has been developed to reduce the ecological footprint. This system takes a holistic approach, taking the entire life cycle of the product into account, and also helps to save costs.

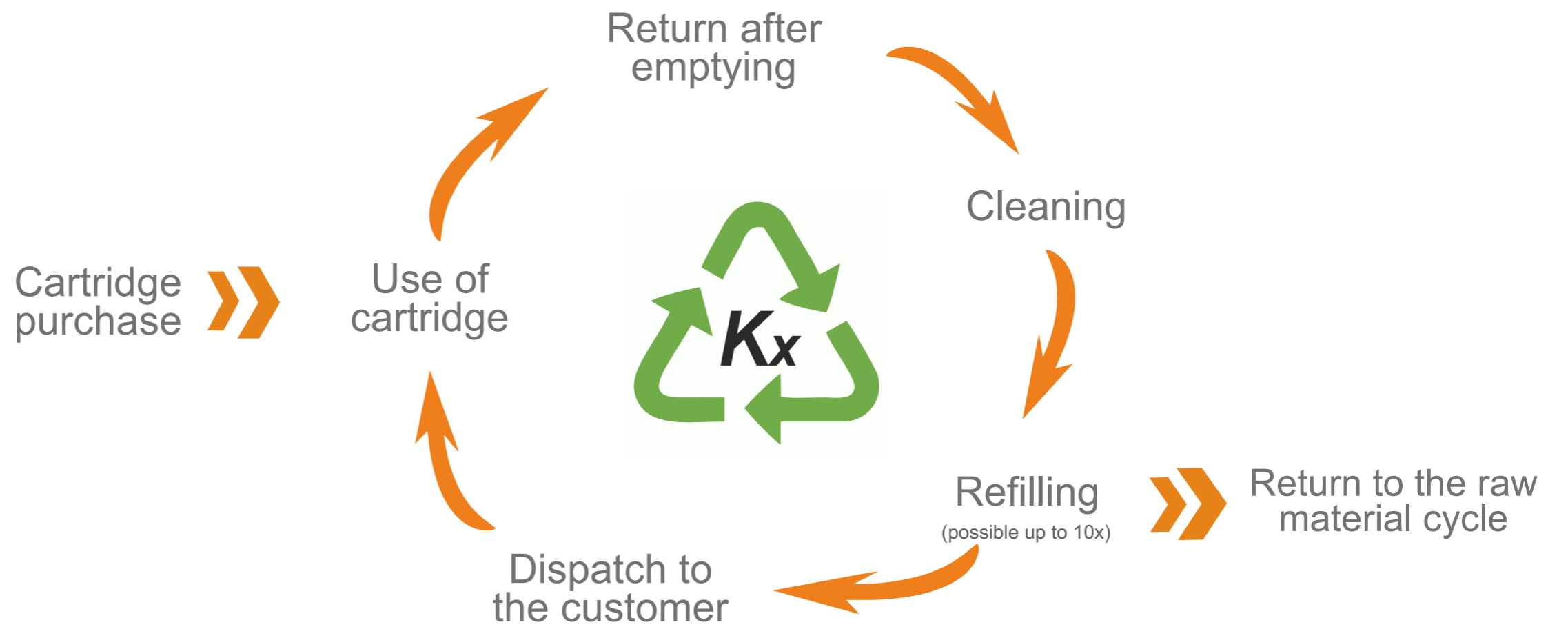
In order to implement the aspect of environmental protection in the best possible way and to combine this with savings for the user, the cartridge was designed for use in a closed-loop system. The customer purchases the cartridge for initial use. The only costs due for every further filling are the "refill" costs (cleaning and refill).

Any residual lubricant in the cartridge is checked for re-usability before cleaning and is therefore not lost.

The sturdy design and geometry make emptying and filling easy, which means that the cartridges can be reused up to 10 times on average.

**NO RESIDUAL LUBRICANT QUANTITIES**

At the end of its service life, the cartridge is returned to the raw material cycle.



# SAVING POTENTIAL

Bellows, a DIN cartridge or a hobcock/barrel are not usually emptied completely; a residual amount of lubricant remains and is thus not used. This is neither ecological nor economical. After use, the not-quite-empty lubricant container has to be sent for costly disposal.

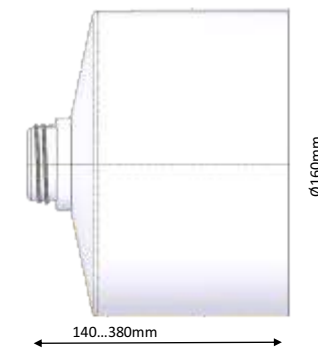


## Conservative estimate of “grease thrown away”

The following example calculation is based on the average residual volume of a 25 kg bucket (determined by various emptying attempts) and shows the monetary value that would be thrown away. The disposal costs are not included in this calculation

Residual volume in the bucket	Costs for grease €/kg	Buckets consumed p.A.	Residual quantity kg	Costs for residual quantity p.A.
2,0 kg	15,00 € netto	300 Stück	600 kg	9.000 €

## TECHNICAL DATA:



Material follower piston, ring and cylinder: Polypropylene  
 Sealant: NBR  
 Volume: min. 1,000 ml max. 5,700 ml

Thanks to the specially shaped follower piston combined with the cartridge body, almost complete emptying is possible (less than 1% residual volume). The Kx cartridge system is specified with a filling volume rather than a filling weight. The name is then derived from the filling volume: 3,600ml = K36

- Maximum 1% residual volume
- Lower procurement costs
- No disposal costs
- Re-use of the residual grease





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