

**WALTERSCHEID**

*Safety first –*  
**The right way to guard  
PTO drive shafts!**



**GKN Walterscheid GmbH**

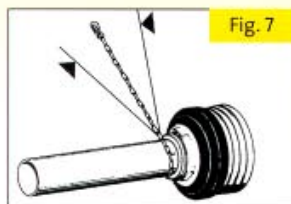
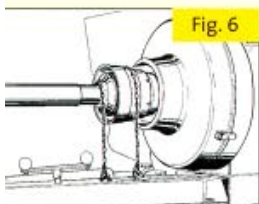
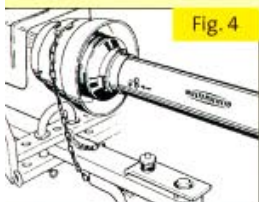
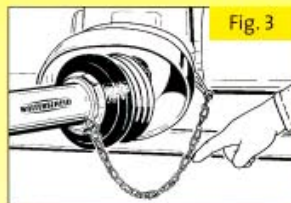
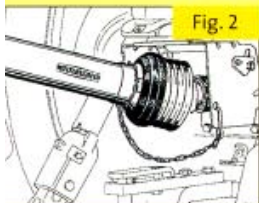
# Your health has priority!

Unguarded PTO drive shafts or defective guards can lead to serious accidents and even fatal injuries!

So, only ever work with a guarded PTO drive shaft and avoid damage to the guards!  
We'll show you what counts ...



Tractor-side master shield and implement-side safety shield must overlap the guard cones of the PTO drive shaft by at least 50 mm. Observe the manufacturer's operating instructions!



## Fully guarded PTO drive shafts

Only work with a fully guarded driveline. Tractor-side master shield, PTO drive shaft guard and implement-side safety shield must be installed at all times and guarantee an overlap in all operating positions.

Pay attention to sufficient overlap of the guard tubes. If the PTO drive shaft is too short, the guard tubes will be destroyed by compression. Always aim for the greatest possible overlap (see Fig. 1)!

## The right way to secure safety chains

The safety chain prevents the PTO drive shaft guard from rotating and causing accidents as a result. In addition, correctly installed safety chains extend the service life of the PTO drive shaft guard.

Safety chains must be attached in such a way that a sufficient swivelling range of the PTO drive shaft is ensured in all operating positions. Safety chains must not get caught up on the drawbar hitch or other components (see Figs. 2 and 3).

On a wide-angle PTO drive shaft, the safety chain of the double-yoke guard cone must be fitted in such a way that it contacts roughly 1/4 of the cone's circumference in all operating positions – even when cornering (see Figs. 4 and 5).

The safety chain must not slip off the double-yoke guard cone, e.g. due to being too long and/or inappropriately fixed. If necessary, adjust the length of the safety chain. On the implement side, attach the safety chains to the fastening points provided by the implement manufacturer (see Fig. 6).

The chain should preferably be fixed at right angles to the PTO drive shaft. Lateral deviation:  $\pm 15^\circ$  (see Fig. 7).



Ensure that the safety chains are sufficiently long in all operating conditions!



# Your safety is our concern!



## Swivelling range and clearance

Ensure that there is sufficient clearance in the swivelling range of the PTO drive shaft in all operating conditions. Contact with tractor or implement parts (e.g. trailer hitch, drawbar) can cause damage (see Figs. 8 and 9).


**Tip:** Check the swivelling range and clearance with a drive shaft half.

## PTO drive shafts in parking position

Always disconnect the complete PTO drive shaft from the tractor. Position and secure the disconnected PTO drive shaft in the mount provided by the respective implement manufacturer (see Figs. 10 and 11).

## Maintenance and cleaning

The PTO drive shaft guard can be dismantled for maintenance and cleaning of the PTO drive shaft. Observe the manufacturer's operating instructions in this context. When used in winter, the guard tubes must be greased to avoid freezing (see Figs. 12 and 13).

 **Always switch off the engine and remove the key before starting maintenance work on the PTO drive shaft!**



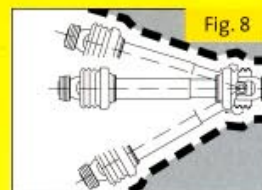
Only buy PTO drive shafts with the CE mark. It is the manufacturer's confirmation that the PTO drive shaft meets the applicable safety requirements and can be used without risk.

A complete PTO drive shaft guard and its correct use are the best guarantee for preventing accidents at work.

Act responsibly and preserve the full effectiveness and durability of all guard components!



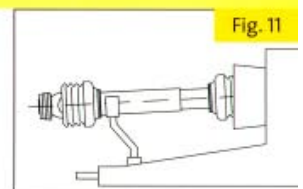
Sufficient overlapping of the profile tubes is also important. Observe the manufacturer's operating instructions in this context!



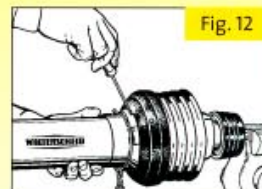
Sufficient clearance in the entire swivelling range.



Insufficient clearance – guard tube destroyed.



Never use the safety chain to hang up the PTO drive shaft! This will destroy it!



## POWER DRIVE PTO drive shaft guard PG 20 – PG 30\*

\* Not interchangeable with SD 05, 15, 25, 35



The PTO drive shaft guard consists of modules of completely new design. The internal reinforcement permits the use of particularly flexible shapes and materials for the cones. This is an important feature in that the flexibility of the cone virtually rules out the possibility of damage.



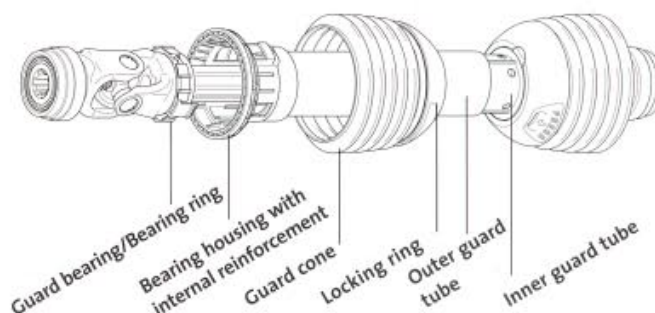
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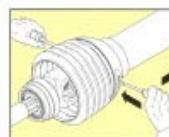
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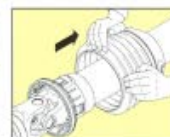
### Space for assembly and maintenance

The guard cones can be pushed back to facilitate cleaning, assembly and maintenance. This gives you ample working space.

#### Dismantling



Undo both locks  
with a tool.



Pull back the  
guard cone.



Ample working space for  
coupling and uncoupling  
all PTO drive shaft  
quick-disconnect locks.

#### Assembly



Slide on the guard  
cone until it engages  
automatically.

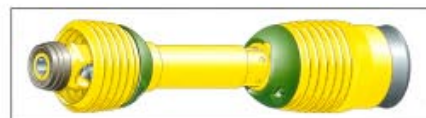
### Only one safety chain thanks to profiled guard tubes



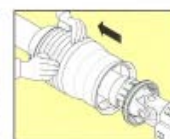
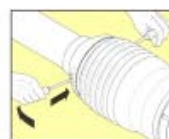
The new, thick-walled guard tubes prevent deformation and damage by external forces. The profiled design means that the two guard halves can no longer rotate relative to each other, making the tractor-side safety chain superfluous.

### Full guard with no safety chain at all

Full-guard versions with neither an implement-side safety shield nor a safety chain are also possible. In this case, rotation of the guard is prevented by connection to the implement.



#### Dismantling



Undo both locks  
with a tool.  
Pull back the  
full-guard cone.