

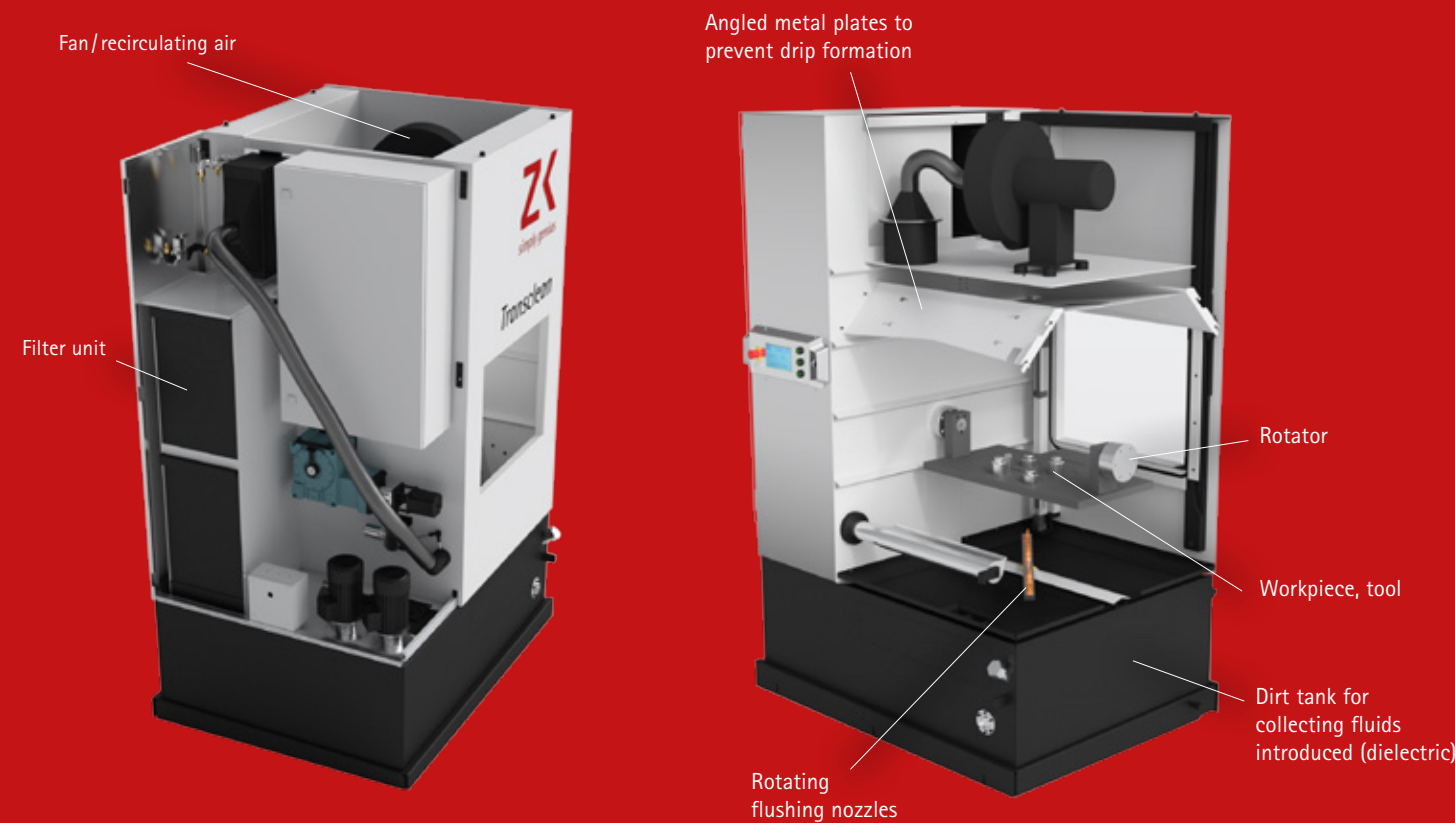


Transclean – automatic washing and drying

The advantages at a glance

- Cleans workpieces, tools and electrodes
- Suitable for all clamping systems
- Also cleans wire EDM clamping frames
- Stand-alone operation
- Use in all fully automated cells
- Use in mono cells, e.g. milling cell with minimum charge lubrication or eroding cell
- Can be used as transfer station
- Different washing programmes can be selected
- Washing fluid can be regenerated
- Economical energy consumption
- Plug and play – just set-up and start

Transclean – automatic cleaning station



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ZK
simply genius

Data box

| Machine Data | Transclean |
|------------------------------------|--|
| Height | 2500 mm |
| Width | 1700 mm |
| Depth | 1300 mm |
| Weight | 1500 kg |
| Capacity | 6 kW / 400 Volt |
| Dirt tank | 230 l |
| Chip basket | 3 l |
| Filling quantity of cleaning fluid | 200 l (max. 265 l) |
| Pallet size (max.) | 600 x 400 x 300 mm (x, y, z) |
| Pallet weight (max.) | 250 kg |
| Clamping systems | PARTOOL: Power-Grip EROWA: ITS, UPC, PowerChuck 3R: Makro, Dynafix |

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ZK EDM | ZK AUTOMATION | ZK SOFTWARE

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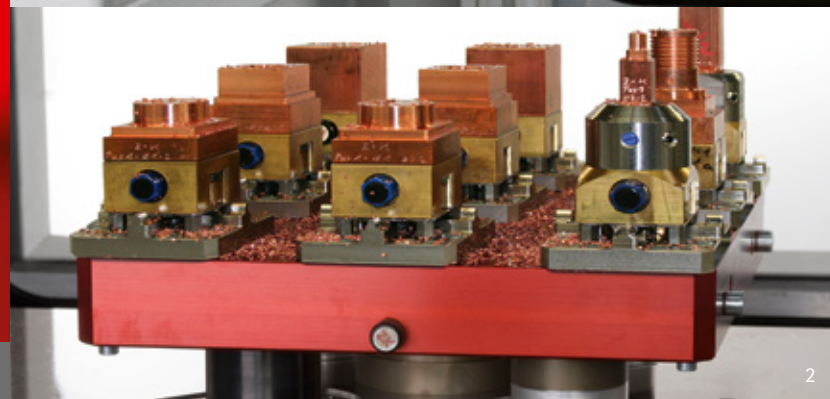
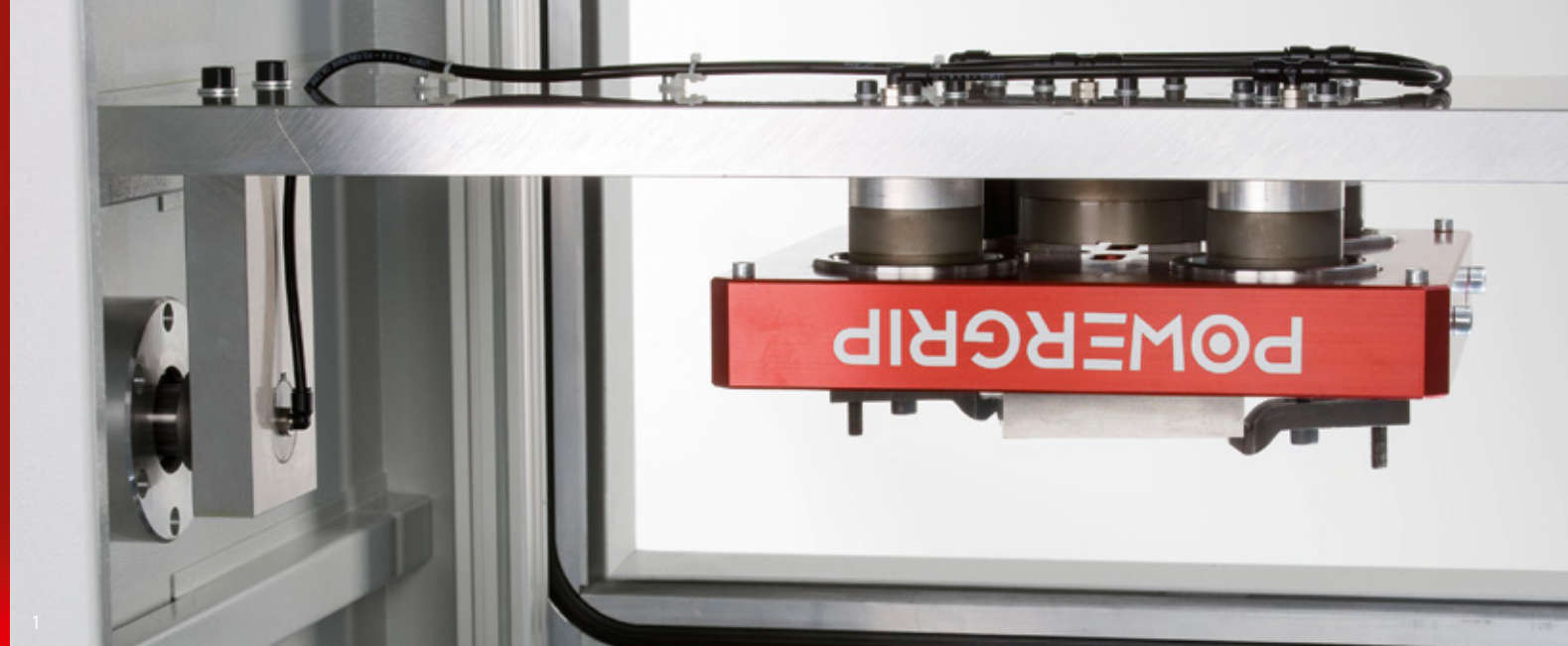
for tools, workpieces and electrodes

economical
independent
efficient



Save costs – increase efficiency.

That is *Transclean's* greatest advantage. Because time-consuming manual cleaning becomes a thing of the past when you use this system. Workpieces, electrodes, tools – everything is automatically cleaned while your employees follow more important process workflows. And the best thing is: By integrating the cleaning station into fully automatic operation, you are closing the last gap in your process chain. With it you also have your measuring process automatically under control.



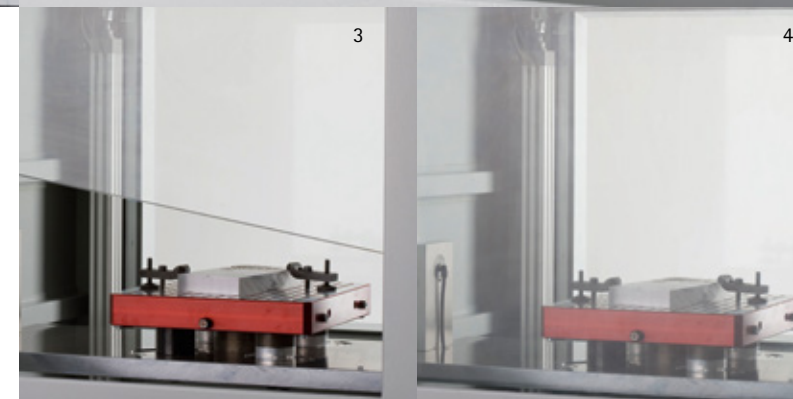
- 1 Tilting and movement of the pallet (cleaning position)
- 2 Pallet with several copper electrodes
- 3 Single copper electrode

And this is how the *Transclean* works

It could be compared with a car wash. It's not as big, of course, but just as perfect. You „drive“ in dirty at the front – and emerge lovely and clean at the other end. The working principle is the same. After the machine has been started, a specially developed fluid – our *ZK-Cleanfit* – flows around the workpiece/electrode under pressure. An automatic tilting and rotating movement by the mounted pallet ensures that the fluid reaches all the corners of the workpiece/electrode. Chips and dirt particles are rinsed off into the chip basket. The washing process is finished after a few minutes. An air nozzle blows the pallet dry. Ready for the next job.

Different programs for time-saving cleaning

Different washing programs for different degrees of soiling or pieces to be cleaned can be set at the control panel. This means electrodes require significantly less time than workpieces, for example. For your working processes, this means: You save time and employee capacity. According to our experience so far, up to 80 percent compared with manual cleaning.



- 1 Turning the pallet
- 2 Chip basket with filter/washing nozzle system
- 3+4 Lowerable protective panel
- 5+6 Washing process

Going easy on resources

Our engineers have thought of that, too. The special cleaning fluid develops low flash-off, which escapes when the doors are opened, however. Special safety precautions and protective measures are thus not required. The fluid can also be reused at any time. It is cleaned in the closed *Transclean* system, dirt particles are filtered out. The cleaned fluid is fed back into the fluid tank and used again during the next washing process. This goes easy on the environment and material requirements.

ZK-Cleanfit

This is the name of the fluid that makes sure your parts get cleaned. Its composition is specially geared to the requirements of tooling and mould building and the dirt deposits that occur there. The fluid is exclusively available through Zimmer & Kreim. (service@zk-system.com)

The result counts

Whether fully automated or stand-alone – the *Transclean* provides perfect results. It starts with the commissioning process: Set-up and start – cleaning using the *Transclean* is child's play, particularly in stand-alone operation. In the fully automated process, *Transclean* is operated through the *Chameleon* handling system and controlled by the *zuk* software. Alongside cleaning, the *Transclean* also takes over the task of a transfer station. Which means there are several arguments in favour of you installing a *Transclean* in your plant: Improved processing times and higher quality while saving costs at the same time. Quite simply a clean solution.