AEROTECH® Universal

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The AEROTECH suction turbine is a simple and cost-efficient method to optimize the manufacturing process.

It is a very variable and versatile tool clamping system.

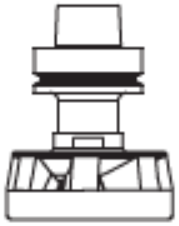
With the help of fluid mechanics different tasks of machining get solved finally

- The AEROTECH-tool holders and all spare parts are LEUCO-branded
- It is an open interface, that means that it is suitable for all LEUCO standard shanks up to Ø 16 mm.
- Except for a few collet dimensions all parts are available ex stock.

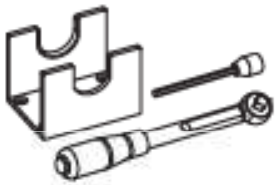
LEUCO AEROTECH® → Program

184652
Aerotech 9 Fan
Aerotech 9 Flügel

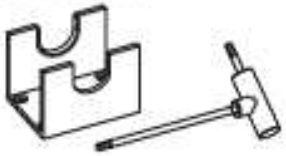
184665
Aerotech 7 Fan
Aerotech 7 Flügel



184666
Kit with Torque Wrench
Montagekit mit Drehmomentschluessel



184663
Kit with Hexagonal Screwdriver
Montagekit mit Spannschluessel



Router
Fräser

Collet
Spannzange

184653	Ø 6 mm	184660	Ø 9.525 mm (3/8")	184661	Ø 12.7 mm (1/2")
184659	Ø 6.35 mm (1/4")	184655	Ø 10 mm	184657	Ø 14 mm
184654	Ø 8 mm	184656	Ø 12 mm	184662	Ø 15.875 (5/8")
				184658	Ø 16 mm

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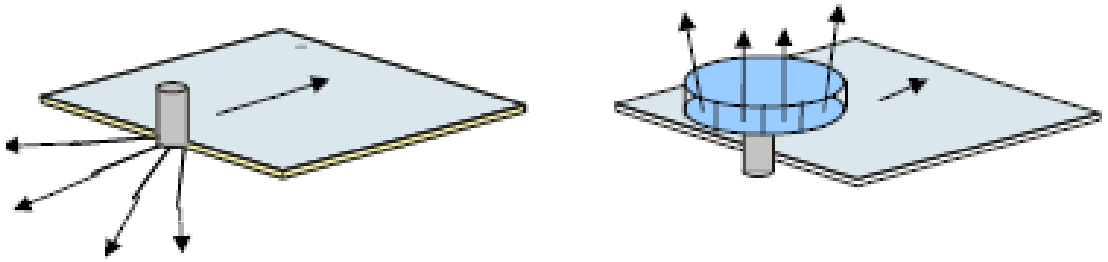
LEUCO AEROTECH® → Program Details

Class-No.	Ident-No.	Product description	Status
933285	**184652**	**Aerotech Turbine with HSK 63F (9-fan)**	**on stock**
	184665	*Aerotech Turbine withHSK 63F (7-fan)*	O
933280	*184653*	*Collet 6 mm*	O
	184654	*Collet 8 mm*	O
	184655	**Collet 10 mm**	**on stock**
	184656	**Collet 12 mm**	**on stock**
	184657	**Collet 14 mm**	**on stock**
	184658	**Collet 16 mm**	**on stock**
	184659	*Collet 1/4"*	O
	184660	**Collet 3/8"**	**on stock**
	184661	**Collet 1/2"**	**on stock**
	184662	*Collet 5/8"*	O
985202	**184663**	**Mounting device incl. hexagon key**	**on stock**
	184666	**Mounting device incl. torque wrench 40Nm**	**on stock**
985730	**184664**	**Hexagon key**	**on stock**
	184667	**Torque wrench 40Nm**	**on stock**

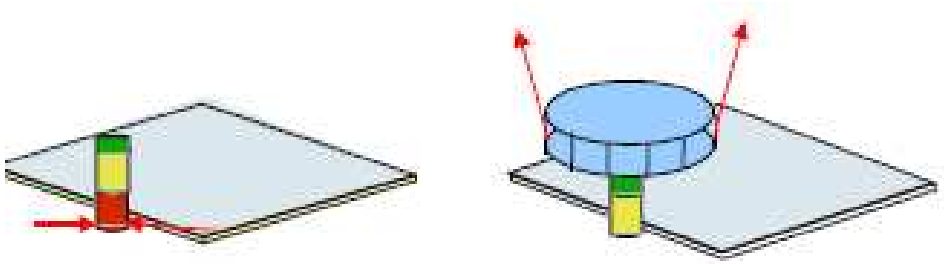
LEUCO AEROTECH® → Benefits

1. Stopping of the chip stream



The kinetic energy of the chip stream is directed towards the exhaustion with the turbine's air velocity of 80 m/sec.
The required energy for this is gained from the rotation. Thus, suction is done with the highest efficiency, virtually without lost power.

2. Cooling of the tool



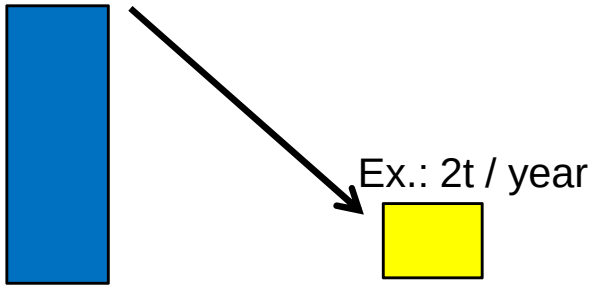
The tool body is cooled by up to 800 cbm/h.
On the one hand, the emerging heat of the cutting is dissipated as well as the heat load of the tool is reduced.
In practice, differences in temperature of 80° C have been measured. I.e. milling is done instead of 135° C at 55 ° C, which protects the tool and workpiece.

LEUCO AEROTECH® → Benefits

3. Reduction of amount of dust

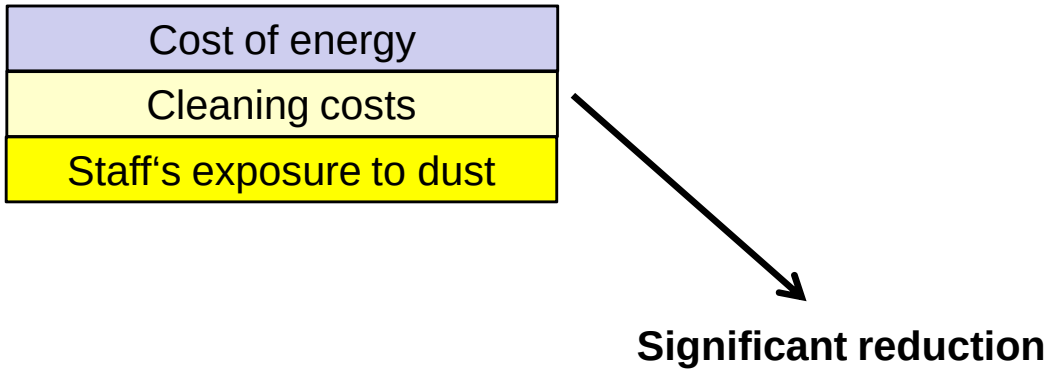
Measurements have shown how much chips are not landing in the machine bed, but on the safety mats, consoles etc. instead per year.
There are tons!

Ex.: 10t / year



4. Cleaning and maintenance

Due to the lower dust levels employees, machine and mechanics are protect .
The cleaning efforts on machines and workpieces get reduced.
Energy expenditure is reduced thanks to significantly less free dust, and fewer additional cleanings are necessary.
Each gram of dust that is captured during the production process protects humans and the environment!

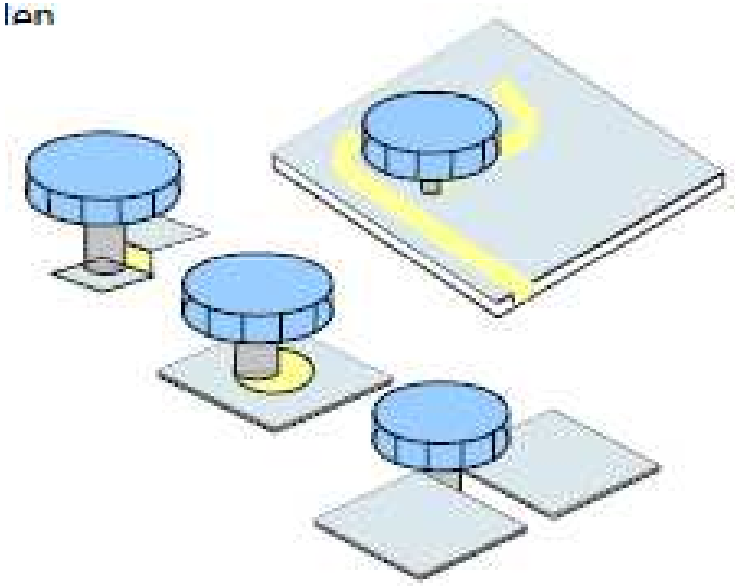


5. Machine technique /Applications

Leading machine manufacturers use the Aerotech-technology already.
Here, the change in the balance quality due to the capture of a residual piece by the turbine is taken into account as well as the impact on the spindle.

Many manufacturing processes can be significantly improved with the Aerotech.

For example:
- Grooves in roller shutters
- Rabbets
- Milling of pockets
- Dividing cuts



LEUCO AEROTECH® → Marketing

- The AEROTECH comes in an attractively designed packaging.
- Documents available:
  - Brochure (in progress)
  - Operating manual GER, ENG
    (FRA, ESP and other languages to follow shortly)
  - Internal handout with guidelines for Sales Reps

LEUCO AEROTECH® → Sales

- Read the **internal guideline** for sales reps carefully! It contains important information for the testing of the AEROTECH at the customers', in particular, which details must be clarified / checked before running it.

- Concentrate first on applications for the **9-fan**-version!

- Possible applications for the **7-fan** version should be clarified with Application Engineering / Product Management beforehand.

- The shank-type tools must be clamped at 40 Nm tightening force. Therefore we do recommend to offer the customer the "Mounting device incl. torque wrench "(Id.-No. 184666)!

- Prices: - separate price lists for Germany, subsidiaries and export partners

LEUCO AEROTECH® → Result

Example:
Comparison: Left side with AEROTECH / right side conventional