

LANG
TECHNIK

simple. gripping. future.



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G Automation from one source



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Support: +49 7023 9585-0 (world-wide) / +1 252 446 9850 (USA only)
Warning: Only to be used in enclosed machines!

32250 (shank: Ø 27 mm)
34250 (shank: Ø 34 mm)

RPM:
5.000 - 8.000

LANG

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ORIGINAL
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COPY

CLEANING FAN

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130 Clean•Tec Cleaning Fan



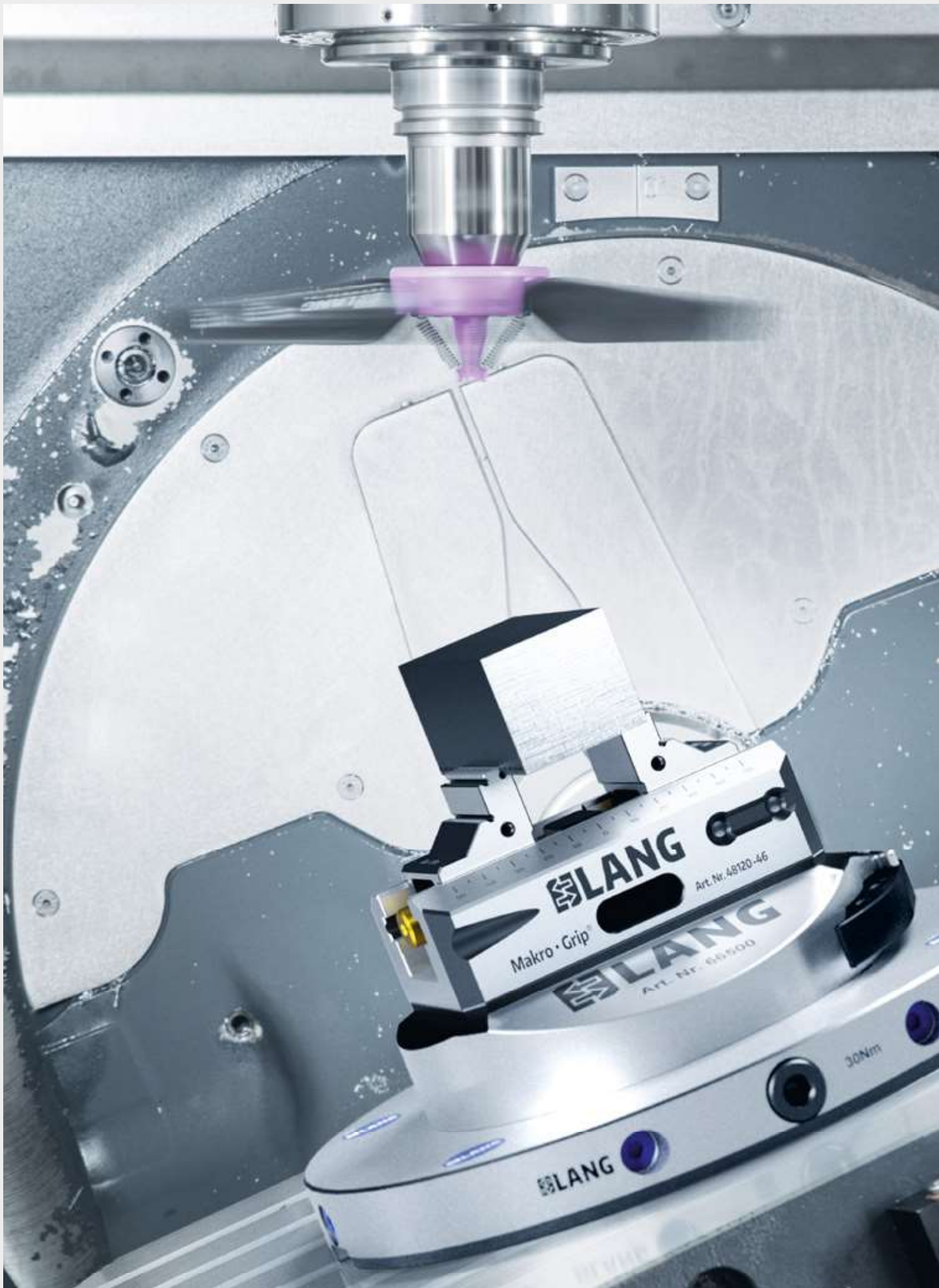
CLEANING FAN

CONVENTIONAL WORKHOLDING

MAKRO-GRIP® 5-AXIS VICES

MAKRO-GRIP® STAMPING TECHNOLOGY

ZERO-POINT CLAMPING SYSTEM





Clean•Tec Cleaning Fan

The Clean•Tec Cleaning Fan cleans the machine interior after machining processes, removing chips and coolant without the operator having to open the machine tool door. As a final step in the machining process, the fan is called up via the machine program and selected from the tool magazine. Its blades are opened and closed by controlling the speed of the machine tool spindle.

→ Cleanliness

No swarf and coolant outside the machine tool

→ Energy Savings

Expensive compressed air not needed

→ Unmanned Cleaning

Especially essential in the automated production

Clean•Tec Technology



Save expensive compressed air – use Clean•Tec



- 1 Fibreglass compound body with steel centre core. Can be clamped in every common shank Ø 20 mm
- 2 Rigid retaining spring for the secure folding of blades after the cleaning process
- 3 Strong and wear-resistant carbon fibre wings for best durability – even with tough chipping
- 4 Slim design for space-saving storage in the tool magazine



**WITH EVERY CLEAN•TEC
FAN SOLD, 2 EUROS WILL
BE DONATED TO THE
“HERZ FÜR KINDER”-
FOUNDATION.**

Learn more on page 135



The Clean•Tec wings open and close automatically by switching the machine tool spindle on and off.

Use recommendations

Acceleration

Turn clockwise to clean the parts. By rotating the spindle the wings will open. We recommend to accelerate in 2 stages:

1. Accelerate to 2.000 RPM

2. Accelerate to the operating RPM

(Clean·Tec works efficiently at 4.000 RPM already!)



Motion

Move the rotating fan with a distance of **100 – 150 mm** above the workpiece and apply a feed rate of **3 – 10 m/min**. Then return to the tool change position.



The design of Clean·Tec allows you to wash workpieces and fixtures using coolant – **with the machine spindle turned off and the Clean·Tec blades folded!** – This enhances the cleaning effect and makes perfect sense if pockets and bores are commonly packed with swarf and chips.

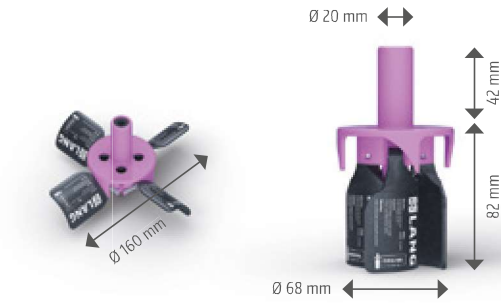


For smooth processes in automated, unmanned production Clean·Tec is a must-have! It is ideal for cleaning workpieces, fixtures and the machine table prior to an automatic unloading.



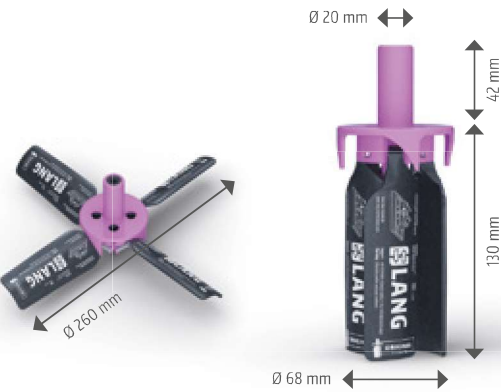
The Clean·Tec Cleaning Fan is stored just like a common tool in the tool magazine and selected automatically via a CNC program. Thanks to its compact design (only Ø 68 mm) tool pockets neighboring the Clean·Tec's storage place can be equipped with other tools and don't have to be left empty.

Clean·Tec Cleaning Fan



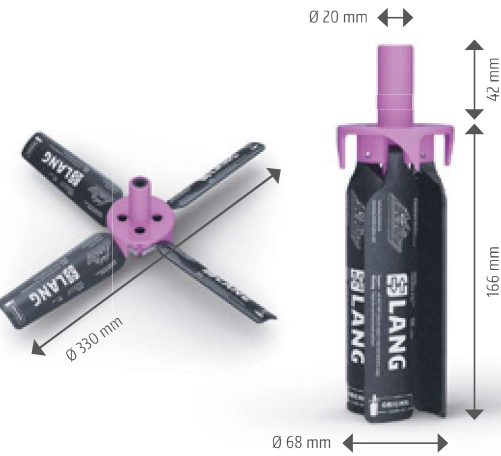
CLEAN·TEC 160

ITEM NO.	Ø WITH OPEN WINGS	RPM RANGE	PRICE
30160	160 mm	6.000 – 12.000 RPM	



CLEAN·TEC 260

ITEM NO.	Ø WITH OPEN WINGS	RPM RANGE	PRICE
30260	260 mm	5.000 – 8.000 RPM	



CLEAN·TEC 330

ITEM NO.	Ø WITH OPEN WINGS	RPM RANGE	PRICE
30330	330 mm	3.000 – 8.000 RPM	



SPARE PART KIT, 4 PCS. FIBREGLASS WINGS AND SPRINGS

ITEM NO.	FOR	PRICE
30164	30160	
30264	30260	
30334	30330	