



CHIP FAN



BLANG

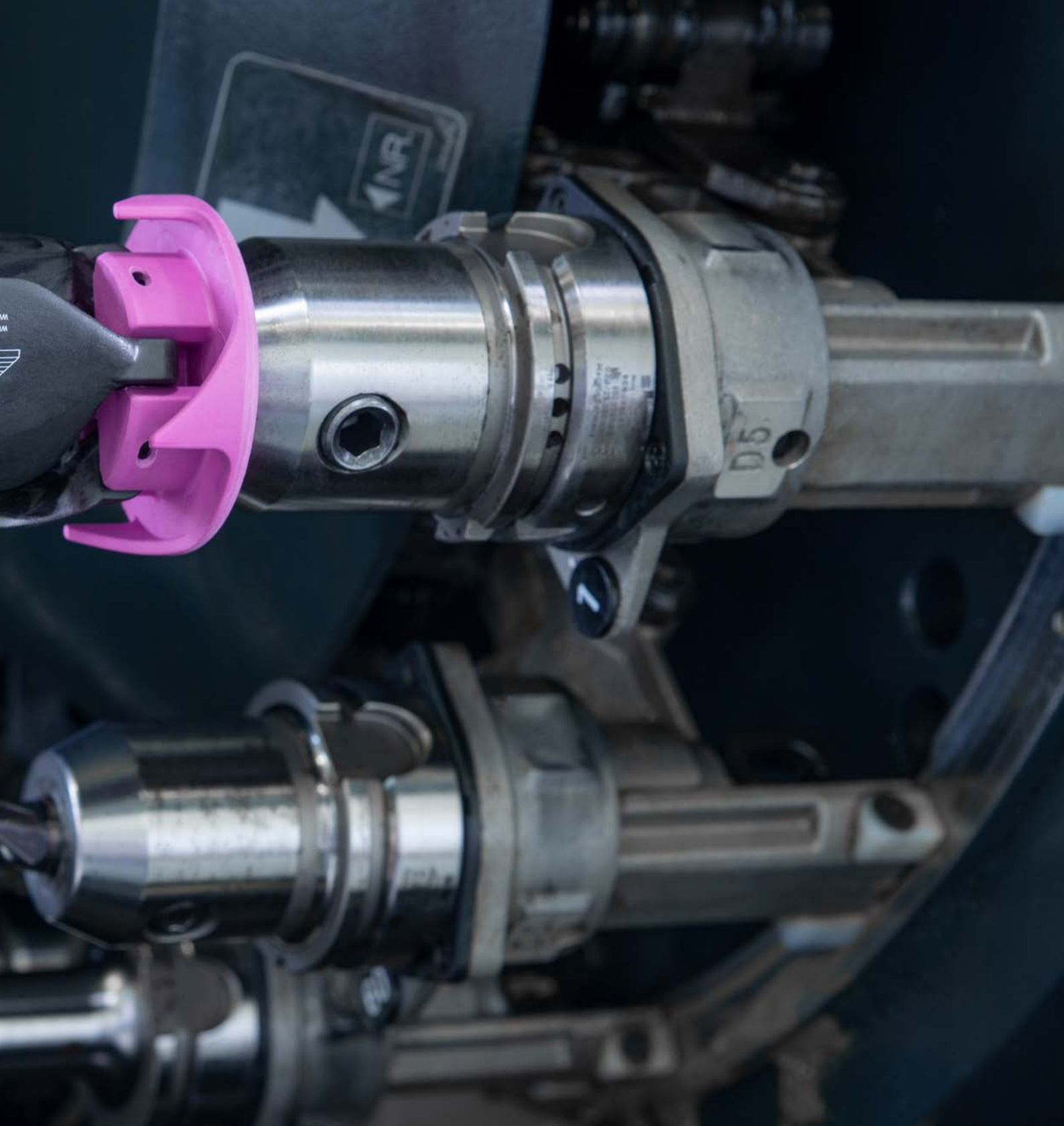
Item No.:
30260 (Shank: Ø 20 mm)
30260 (Shank: Ø 3/4")
PPAK: 5.000 - 8.000

Support: +49 7023 9585-0 (world-wide) / +1 262 446 9850 (USA only)
Warning: Only to be used in enclosed machines!



Innovative Workholding
& Automation from one source

www.blang-technik.de
www.blang-technovation.com



218 Clean·Tec Chip Fan



simple.
automatic.
cleaning.



Automatic cleaning of workpieces and fixtures after the machining process

The Clean·Tec chip fan ensures and enables:

CLEANLINESS

ENERGY SAVINGS

UNMANNED CLEANING

The Clean·Tec, “The Original” Chip 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 Chip 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. Especially in automated manufacturing the Clean·Tec is a must-have. Prior to the automatic unloading, the Chip Fan cleans all relevant interfaces between workholding fixtures and thus ensures a clean and reliable process.

Benefits of the Clean·Tec chip fan:



Clean machining environment thanks to in-process cleaning



Energy savings and no need for expensive compressed air



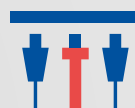
Ideal for unmanned, automated manufacturing



Flexible application possibilities due to different sizes



Suitable for every standard tool holder



Space savings in the tool magazine thanks to the slim design

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 \varnothing 20 mm
- 2 Rigid retaining spring for the secure folding of blades after the cleaning process
- 3 Strong and wear-resistant carbon fibre blades 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 221



The Clean·Tec blades 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 blades 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

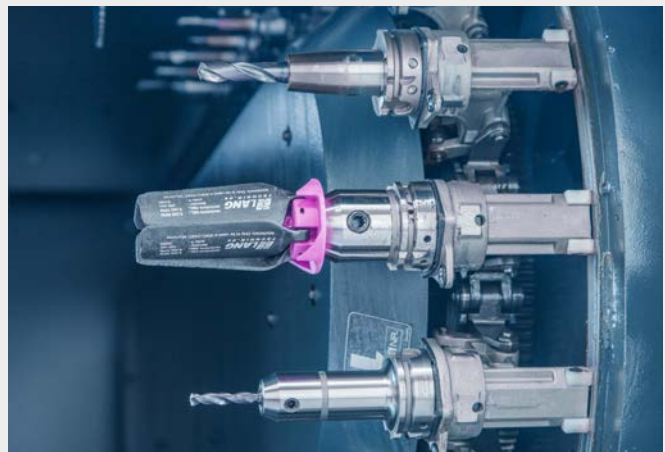
Move the rotating fan with a distance of **100 – 150 mm** above the workpiece and apply a feed rate of **3 – 10 m/min**. Then return to the tool change position.



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.



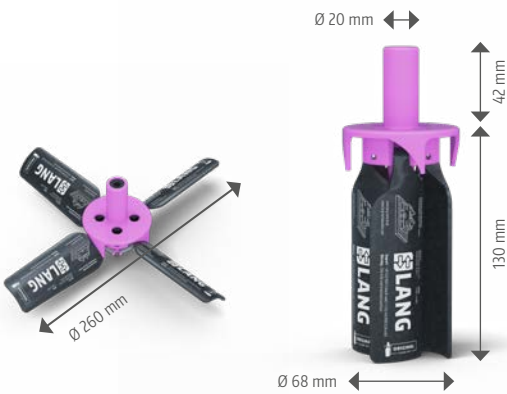
The Clean·Tec Chip Fan is stored just like a common tool in the tool magazine and selected automatically via a CNC program. Thanks to its compact design (only \varnothing 68 mm) tool pockets neighboring the Clean·Tec's storage place can be equipped with other tools and don't have to be left empty.

Clean·Tec Chip Fan



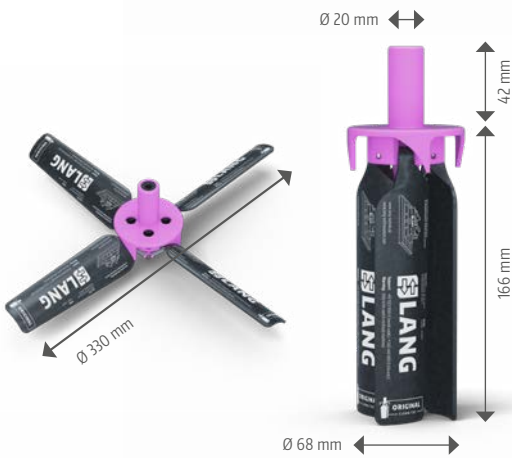
CLEAN·TEC 160

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



CLEAN·TEC 260

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



CLEAN·TEC 330

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



SPARE PART KIT, 4 PCS. BLADES AND SPRINGS

ITEM NO.	FOR
30164	30160
30264	30260
30334	30330