

# TAIFUN-CLEAN® rotating nozzles

Rotating nozzles for contactless surface cleaning

70-70VA-70EX-90-130-130EX-190



## Key Facts

- ✓ **Non-contact cleaning with pulsating compressed air**
- ✓ **Great cleaning depth** via special **compressed air nozzles with beam bundling**
- ✓ **Protecting the material surface** through contactless cleaning
- ✓ **For structured components** and complex component geometries

## Product Description

The TAIFUN-CLEAN® rotating nozzles are intended for use in the TAIFUN-CLEAN® surface cleaning devices. They generate a pulsating, highly turbulent airflow with a high cleaning effect through the rotating movement.

- Contactless cleaning or drying via pulsating air vortex
- Stable pressure-independent rev speed thanks to its patented, integrated control
- Ideal solution for structured components thanks to the angled nozzle position
- Suitable for retrofitting into existing production plants
- Option: Rev speed monitoring
- Additional variants available: CR, EX
- Special variants are possible

# Technical Data

## Standard 01

|                                                          | TCR-7A-030    | TCR-7A-070    | TCR-7A-090    | TCR-7A-130    | TCR-7A-190    |
|----------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|
| Version                                                  | Standard      | Standard      | Standard      | Standard      | Standard      |
| Diameter                                                 | 31 mm         | 68 mm         | 95 mm         | 135 mm        | 195 mm        |
| Working width                                            | 50 mm         | 100 mm        | 120 mm        | 160 mm        | 240 mm        |
| Working distance                                         | 20 - 50 mm    | 20 - 50 mm    | 20 - 70 mm    | 20 - 70 mm    | 20 - 70 mm    |
| Operating air pressure for cleaning system (recommended) | 1.5 – 3.5 bar | 1.5 – 3.5 bar | 1.5 – 3.5 bar | 1.5 – 3.5 bar | 1.5 – 3.5 bar |
| Operating air pressure for cleaning system (min. – max.) | 1.5 – 5.0 bar | 1.5 – 5.0 bar | 1.5 – 5.0 bar | 1.5 – 5.0 bar | 1.5 – 5.0 bar |
| Operating temperature                                    | 5 - 50 °C     | 5 - 50 °C     | 5 - 50 °C     | 5 - 50 °C     | 5 - 50 °C     |
| Weight                                                   | 0.18 kg       | 0.2 kg        | 0.25 kg       | 0.25 kg       | 0.3 kg        |

## Standard 02

|                                                          | TCR-7A-070-S01 | TCR-7A-070-S02 | TCR-7A-070-S05 | TCR-7A-070-S06 | TCR-7A-070-S07 |
|----------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|
| Version                                                  | Standard       | Standard       | Standard       | Standard       | Standard       |
| Diameter                                                 | 68 mm          | 68 mm          | 68 mm          | 68 mm          | 68 mm          |
| Working width                                            | 60 mm          | 30 mm          | 100 mm         | 100 mm         | 100 mm         |
| Working distance                                         | 20 - 50 mm     | 20 - 50 mm     | 20 - 50 mm     | 20 - 50 mm     | 20 - 50 mm     |
| Operating air pressure for cleaning system (recommended) | 1.5 – 3.5 bar  | 1.5 – 3.5 bar  | 1.5 – 3.5 bar  | 1.5 – 3.5 bar  | 1.5 – 3.5 bar  |
| Operating air pressure for cleaning system (min. – max.) | 1.5 – 5.0 bar  | 1.5 – 5.0 bar  | 1.5 – 5.0 bar  | 1.5 – 5.0 bar  | 1.5 – 5.0 bar  |
| Operating temperature                                    | 5 - 50 °C      | 5 - 50 °C      | 5 - 50 °C      | 5 - 50 °C      | 5 - 50 °C      |
| Weight                                                   | 0.3 kg         | 0.3 kg         | 0.3 kg         | 0.3 kg         | 0.3 kg         |

## Standard 03

|                                                          | TCR-7A-130-S05 | TCR-7A-130-S06 |
|----------------------------------------------------------|----------------|----------------|
| Version                                                  | Standard       | Standard       |
| Diameter                                                 | 135 mm         | 135 mm         |
| Working width                                            | 160 mm         | 160 mm         |
| Working distance                                         | 20 - 70 mm     | 20 - 70 mm     |
| Operating air pressure for cleaning system (recommended) | 1.5 – 3.5 bar  | 1.5 – 3.5 bar  |
| Operating air pressure for cleaning system (min. – max.) | 1.5 – 5.0 bar  | 1.5 – 5.0 bar  |
| Operating temperature                                    | 5 - 50 °C      | 5 - 50 °C      |
| Weight                                                   | 0.3 kg         | 0.3 kg         |

Ex application

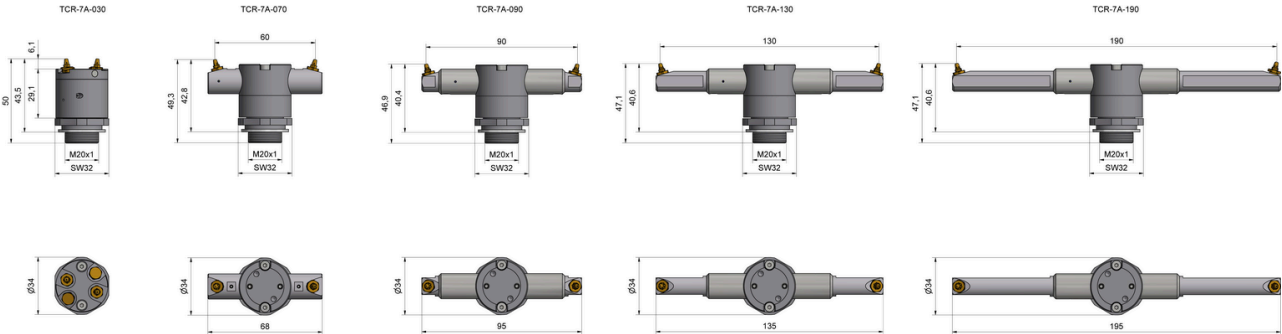
|                                                          | TCR-7A-070-EX  | TCR-7A-130-EX  |
|----------------------------------------------------------|----------------|----------------|
| Version                                                  | EX application | EX application |
| Diameter                                                 | 68 mm          | 135 mm         |
| Working width                                            | 100 mm         | 160 mm         |
| Working distance                                         | 20 - 50 mm     | 20 - 70 mm     |
| Operating air pressure for cleaning system (recommended) | 1.5 – 3.5 bar  | 1.5 – 3.5 bar  |
| Operating air pressure for cleaning system (min. – max.) | 1.5 – 5.0 bar  | 1.5 – 5.0 bar  |
| Operating temperature                                    | 5 - 50 °C      | 5 - 50 °C      |
| Weight                                                   | 0.2 kg         | 0.25 kg        |

Clean room application

|                                                          | TCR-7A-030-VA | TCR-7A-070-VA | TCR-7A-070-S07-VA |
|----------------------------------------------------------|---------------|---------------|-------------------|
| Version                                                  | Clean room    | Clean room    | Clean room        |
| Diameter                                                 | 31 mm         | 68 mm         | 68 mm             |
| Working width                                            | 50 mm         | 100 mm        | 100 mm            |
| Working distance                                         | 20 - 50 mm    | 20 - 50 mm    | 20 - 50 mm        |
| Operating air pressure for cleaning system (recommended) | 1.5 – 3.5 bar | 1.5 – 3.5 bar | 1.5 – 3.5 bar     |
| Operating air pressure for cleaning system (min. – max.) | 1.5 – 5.0 bar | 1.5 – 5.0 bar | 1.5 – 5.0 bar     |
| Operating temperature                                    | 5 - 50 °C     | 5 - 50 °C     | 5 - 50 °C         |
| Weight                                                   | 0.18 kg       | 0.2 kg        | 0.3 kg            |

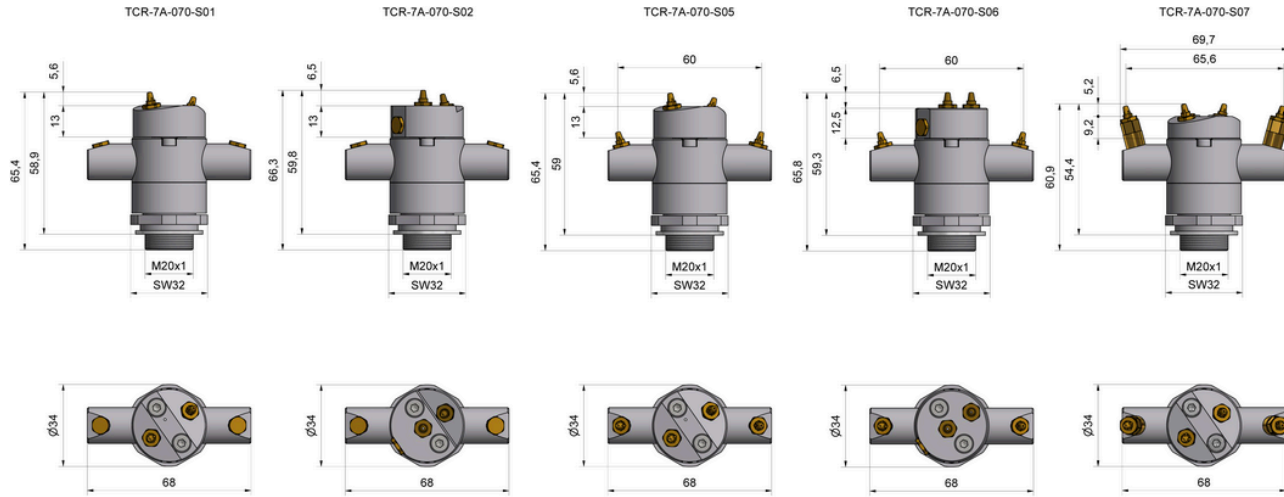
Technical Drawings

Standard 01



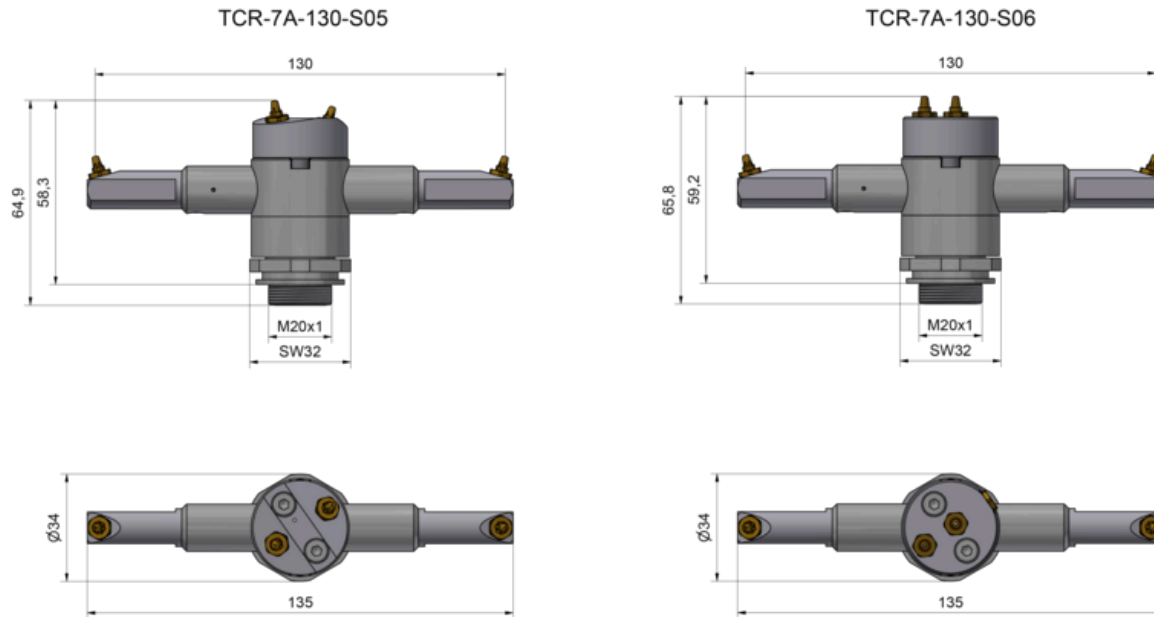
SW: Schlüsselweite  
Wrench size

## Standard 02



SW: Schlüsselweite  
Wrench size

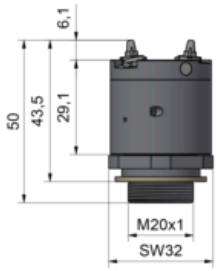
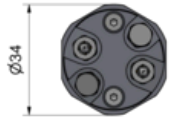
## Standard 03



SW: Schlüsselweite  
Wrench size

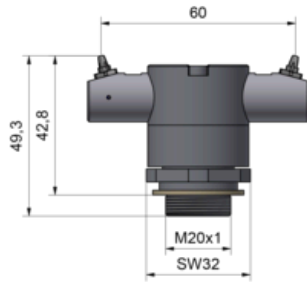
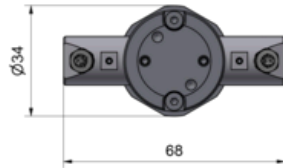
VA

TCR-7A-030-VA

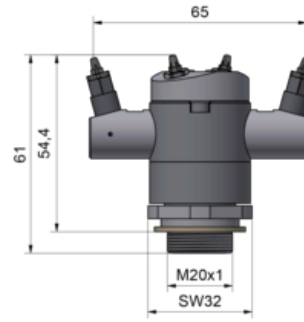
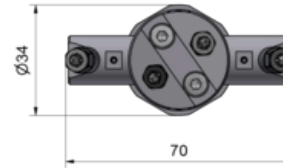


SW: Schlüsselweite  
Wrench size

TCR-7A-070-VA

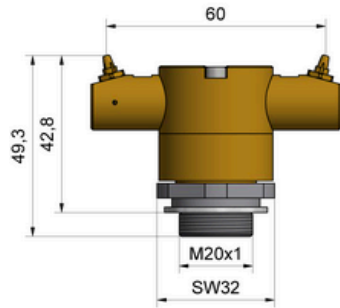
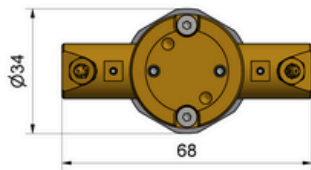


TCR-7A-070-S07-VA



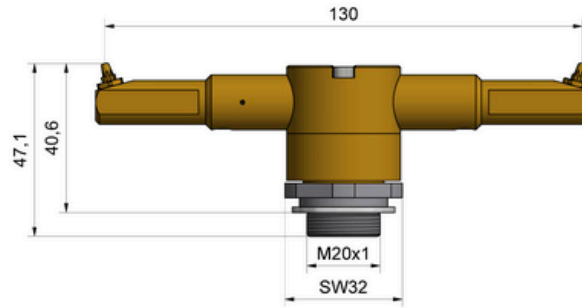
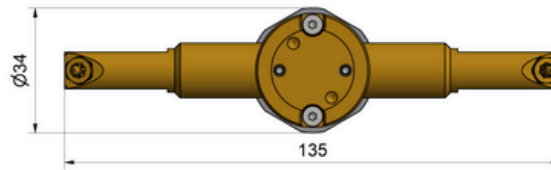
EX

TCR-7A-070-EX



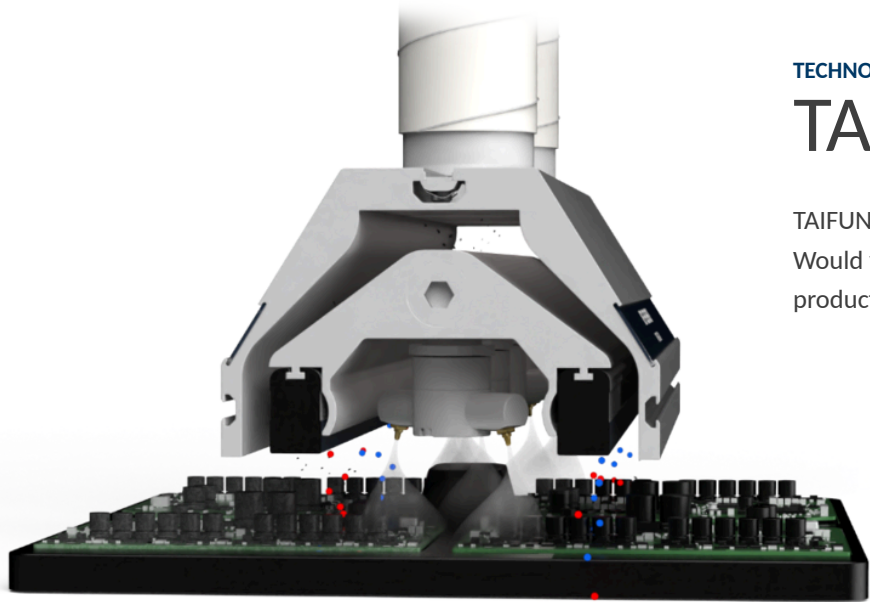
SW: Schlüsselweite  
Wrench size

TCR-7A-130-EX



# Air Consumption

| Model                        | 1.0 bar | 1.5 bar | 2.0 bar | 3.5 bar |
|------------------------------|---------|---------|---------|---------|
| NI/min at operating pressure |         |         |         |         |
| TCR-7A-030                   | -       | 180     | 220     | 340     |
| TCR-7A-030-VA                | -       | 180     | 220     | 340     |
| TCR-7A-070                   | 140     | 180     | 220     | 340     |
| TCR-7A-070-VA                | 140     | 180     | 220     | 340     |
| TCR-7A-070-EX                | 140     | 180     | 220     | 340     |
| TCR-7A-070-S01               | 155     | 200     | 240     | 365     |
| TCR-7A-070-S02               | 50      | 66      | 85      | 125     |
| TCR-7A-070-S05               | 270     | 340     | 415     | 635     |
| TCR-7A-070-S06               | 165     | 210     | 260     | 400     |
| TCR-7A-070-S07               | 250     | 325     | 400     | 610     |
| TCR-7A-070-S07-VA            | 250     | 325     | 400     | 610     |
| TCR-7A-090                   | 160     | 200     | 250     | 400     |
| TCR-7A-130                   | 160     | 200     | 250     | 400     |
| TCR-7A-130-EX                | 160     | 200     | 250     | 400     |
| TCR-7A-130-S05               | 290     | 375     | 460     | 720     |
| TCR-7A-130-S06               | 185     | 230     | 290     | 460     |
| TCR-7A-190                   | 160     | 200     | 250     | 400     |



## TECHNOLOGY TAIFUN-CLEAN®

TAIFUN-CLEAN® begins where others have reached their limits.  
Would you like to learn more about the technology behind our  
product?