

TK SELF SPINNING HEADS HYDROKINETIC



NEW
2026

The Group

Tecomec is based in Reggio Emilia, the cradle of farming and industrial development, and a region renowned worldwide for its top quality technology.

As part of the **Emak Group**, today Tecomec represents one of the major production centers of components and accessories for forestry, gardening, agriculture, cleaning and industrial applications.

Tecomec's divisions are:

Forestry

Forestry equipment & saw chain care and maintenance.

Gardening

Accessories and components for garden care.

Agriculture

Accessories and components for orchard and crop sprayers.

Cleaning

Accessories and components for high pressure washing and car-wash.

A Global Presence

The Tecomec Group reaches its customers thanks to a global and strategic presence consisting of production and distribution plants located in different countries:

- **Tecomec**, headquarter specialized in the production and distribution of components and accessories for the European market.
- **Speed Group**, producer of polyamide lines for garden and industrial uses.
- **Ningbo Tecomec Manufacturing**, producer of parts and accessories distributed by Tecomec.
- **Spraycom**, active in the wholesale trade of farming components and accessories in the Brazilian market.
- **Agres**, specialises in the design and manufacture of electronic components used in precision farming.
- **Markusson**, specialized in production of professional robotic sharpeners for chainsaw chains.
- **PNR Company**, specialized in production and distribution of spray nozzles and components for industrial applications.



The Cleaning Division



The product range includes **valves, guns, nozzles, rotating heads**, and accessories for high-pressure cleaners and cleaning systems, designed for applications such as **car wash, high-pressure cleaning, industrial, domestic and sanitizing uses.**

This line covers both the **professional** and **semi-professional** segments, serving manufacturers and distributors worldwide.

Our Offer

- **WIDE PRODUCT RANGE**
- **MORE THAN 6000 DIFFERENT ITEMS ALWAYS IN STOCK**
- **CO-DESIGN ENGINEERING CAPABILITIES**
- **GLOBAL FOOTPRINT**
- **VERTICAL PROCESS**
- **CERTIFIED PRODUCTS EXCEEDING MARKET STANDARDS**

Our Brands

Today, Tecomec's Cleaning Division offers complete solutions for **high-pressure cleaning, sanitation, and industrial cleaning.**

Tecomec has consolidated experience in industrial high pressure cleaning and car wash, while **PNR** specializes in the design, production, and distribution of spray nozzles and components for industrial applications (metallurgical, paper, chemical, pharmaceutical, and food industries).

**PRECISION AND POWER,
FOR EVERY CLEANING NEED.**



Design, production, and distribution of accessories and components for high-pressure cleaning and Car-Wash



tecomec.com



Design, production, and distribution of spray nozzles and components for industrial applications.



www.pnr.eu

SERIES TK

Hydrokinetic self-rotating heads
for cleaning containers and surfaces





TK1 A

20÷60 l/min

360° volumetric cleaning

Nozzles: 2 - 4 | 10÷250 bar | 20÷30 rpm



TK1 B

50÷200 l/min

360° volumetric cleaning

Nozzles: 2 - 4 | 10÷250 bar | 20÷30 rpm



TK2

20÷60 l/min

240° sectorial volumetric cleaning

Nozzles: 2 - 3 - 4 | 10÷250 bar | 90÷110 rpm



TK3

Ø 60mm | 10÷30 l/min

360° volumetric cleaning

Nozzles: 2 - 4 | 10÷250 bar | 25÷35 rpm



TK4

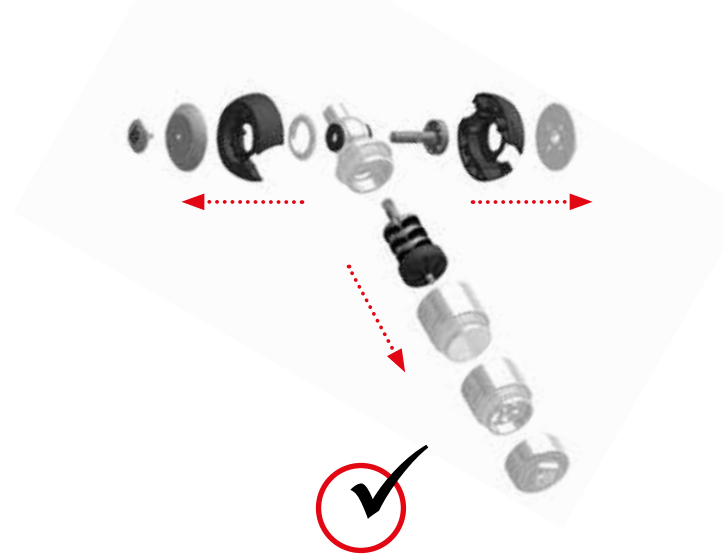
20÷60 l/min

FRONTAL cleaning 20°÷120°

Nozzles: 2 - 4 | 10÷250 bar | 90÷110 rpm

MAINTENANCE SIMPLE AND INTUITIVE

- Fast diagnostics and repairs.
- Easy disassembly and part replacement.
- Spare parts kits for enhanced durability.
- Multilingual manuals.



FEATURES

- Heads **calibrated** for specific flow rates and pressures.
- **High washing efficiency (95%)**, ensured by **minimal pressure drop**.
- **Number and type of nozzles** can be configured **based on flow/pressure** and application type.
- **Compatible nozzles**: straight and fan-shaped.
- **Universal Compatibility**.
- **Installation**: heads can operate in any position.
- **Detergent use**: heads are compatible with cleaning agents, including the most aggressive ones.
- The heads are supplied with **EPDM seals**. **Viton, NBR, and others are available upon request**.

ADVANTAGES

Savings and sustainability

Reduced consumption of water, chemicals and work.

Efficiency and safety

Effective and reliable cleaning.
Compact, robust, and safe design.

Customization

Custom versions available upon request.

CERTIFICATIONS



ATEX

Heads ATEX-certified for use in explosive environments.



MOCA

Heads MOCA-certified for use in food and pharmaceutical environments.

APPLICATIONS

TRANSPORTATION

Cleaning tank truck (food, chemical, cosmetics industries, etc.)

TK1 A



TK1 B



SILOS

Cleaning silos of all sizes and industries (winemaking, food, chemical, pharmaceutical, etc.)



BIN WASHER

Washing and sanitizing urban waste vehicles

TK2



TK3



IBC & SMALL CONTAINERS

Cleaning of closed containers such as IBCs, with small access openings (for food, chemical, agricultural, industrial use, etc.)



CAR-WASH

Portals for high-pressure, no-touch vehicle washing. Surface cleaning for conveyor belts.

TK4

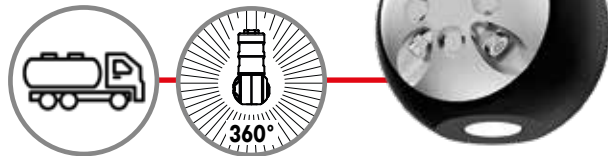


TK1 A

SELF SPINNING
HEADS

20÷60 l/min

360° volumetric
cleaning

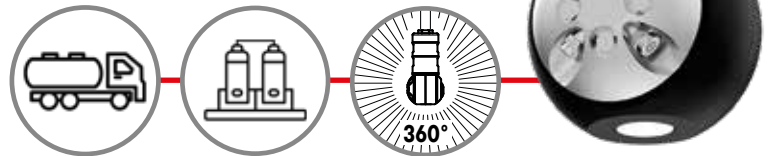


TK1 B

SELF SPINNING
HEADS

50÷200 l/min

360° volumetric
cleaning



TYPE	OPERATING FLOW RATE		COMPLETE CYCLE Rotations	COMPLETE CYCLE TIME	INLET	WEIGHT	
	l/min	USGpm				kg	oz
TK1 A	20 MIN	5.3 MIN	60	2' 30"	G 1" F or NPT 1" F	8,1	285,7
	60 MAX	15.85 MAX					
TK1 B	50 MIN	13.2 MIN	60	2' 30"	G 1" F or NPT 1" F	8,1	285,7
	200 MAX	52,8 MAX					



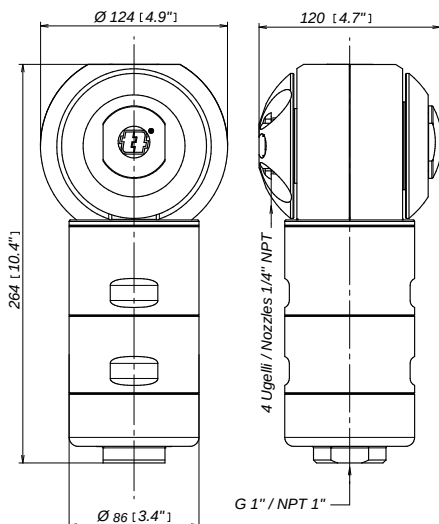
OPERATING PRESSURE	10 bar	MIN	1 MPa	145 psi	MIN
	250 bar	MAX	25 MPa	3630 psi	MAX
TEMPERATURE	0 °C	MIN	32 °F	MIN	
	90 °C	MAX	194 °F	MAX	
NUMBER OF ROTATIONS	20 rpm	MIN			
	30 rpm	MAX			
NOZZLE CONNECTION	1/4" NPT				
MATERIAL	AISI 316 Stainless Steel-PEEK Plastic				
SEAL MATERIAL	EPDM				

Made in Italy ON REQUEST, O-RING
IN VITON® OR NBR

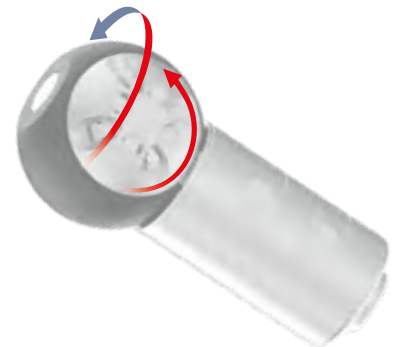


SUPPLIED COMPLETE
WITH INLET FILTER 32
MESH (600 MICRON)

DIMENSIONS



NUMBER OF NOZZLES

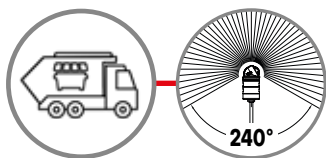


TK2

SELF SPINNING HEADS

20÷60 l/min

240° sectorial volumetric cleaning



TYPE	OPERATING FLOW RATE		COMPLETE CYCLE Rotations	COMPLETE CYCLE TIME	INLET	WEIGHT	
	l/min	USGpm				kg	oz
TK2	20 MIN	5.3 MIN	30	18"	G 1/2" F or NPT 1/2" F	6,2	219,0
	60 MAX	15.85 MAX					



Fill out the form
to define the
technical specifications
of the product



OPERATING PRESSURE	10 bar	MIN	1 MPa	145 psi	MIN
	250 bar	MAX	25 MPa	3630 psi	MAX
TEMPERATURE	0 °C	MIN	32 °F	MIN	
	90 °C	MAX	194 °F	MAX	
NUMBER OF ROTATIONS	90 rpm	MIN			
	110 rpm	MAX			
NOZZLE CONNECTION	1/8" NPT				
MATERIAL	AISI 316 Stainless Steel-PEEK Plastic				
SEAL MATERIAL	EPDM				

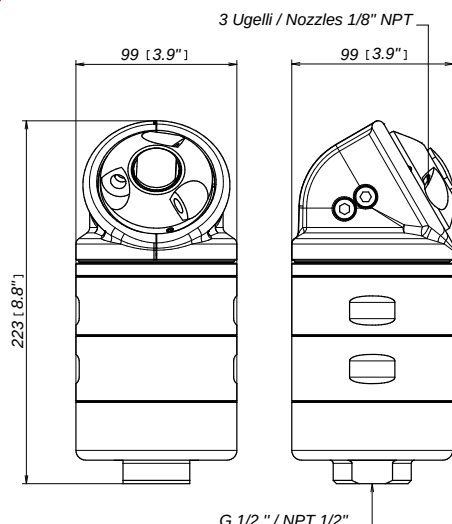
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IN VITON® OR NBR

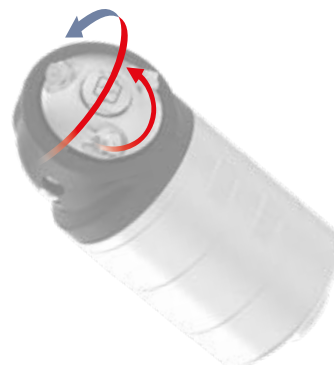


SUPPLIED COMPLETE
WITH INLET FILTER 32
MESH (600 MICRON)

DIMENSIONS



NUMBER OF NOZZLES

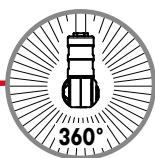


TK3

SELF SPINNING HEADS

10÷30 l/min

**360° volumetric
cleaning**



TYPE	OPERATING FLOW RATE		COMPLETE CYCLE Rotations	COMPLETE CYCLE TIME	INLET	WEIGHT	
	l/min	USGpm				kg	oz
TK3	10 MIN 30 MAX	2.64 MIN 7.92 MAX	40	1' 36"	G 1/2 F or NPT 1/2" F	2,4	82,9



Fill out the form
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technical specifications
of the product



OPERATING PRESSURE	10 bar	MIN	1 MPa	145 psi	MIN
	250 bar	MAX	25 MPa	3630 psi	MAX
TEMPERATURE	0 °C	MIN	32 °F	MIN	
	90 °C	MAX	194 °F	MAX	
NUMBER OF ROTATIONS	25 rpm	MIN			
	35 rpm	MAX			
NOZZLE CONNECTION	M4				
MATERIAL	AISI 316 Stainless Steel-PEEK Plastic				
SEAL MATERIAL	EPDM				

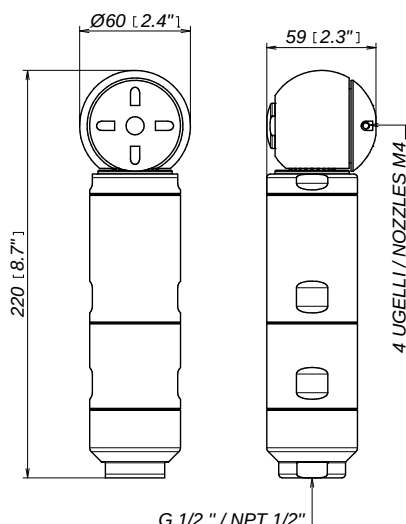
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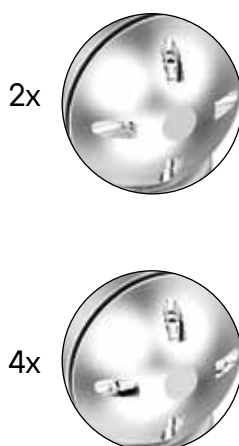


SUPPLIED COMPLETE
WITH INLET FILTER 32
MESH (600 MICRON)

DIMENSIONS



NUMBER OF NOZZLES



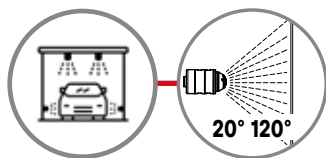
TK4

SELF SPINNING HEADS

20÷60 l/min

Frontal cleaning

20°÷120°



TYPE	OPERATING FLOW RATE		INLET	WEIGHT	
	l/min	USGpm		kg	oz
TK4	20 MIN 60 MAX	5.3 MIN 15.85 MAX	G 1/2 F or NPT 1/2" F	5,7	201,1



Fill out the form
to define the
technical specifications
of the product



OPERATING PRESSURE	10 bar	MIN	1 MPa	145 psi	MIN
	250 bar	MAX	25 MPa	3630 psi	MAX
TEMPERATURE	0 °C	MIN	32 °F	MIN	
	90 °C	MAX	194 °F	MAX	
NUMBER OF ROTATIONS	90 rpm	MIN			
	110 rpm	MAX			
NOZZLE CONNECTION	1/8" NPT				
MATERIAL	AISI 316 Stainless Steel-PEEK Plastic				
SEAL MATERIAL	EPDM				

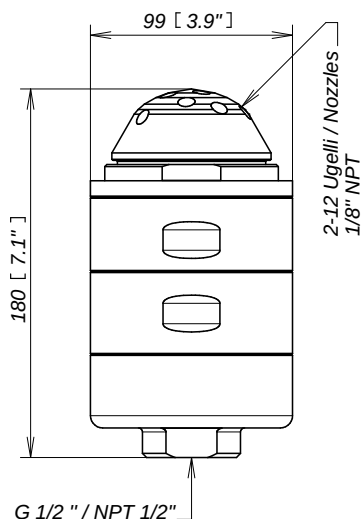
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SUPPLIED COMPLETE
WITH INLET FILTER 32
MESH (600 MICRON)

DIMENSIONS



SPRAY ANGLE



n° nozzles: min 2 - max 4





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