



**SPECIAL!**  
Waste-Water  
& Mining

# TRIGON

High-Tech Big Volume Gun

designed to handle  
Waste-water &  
Mining applications



# TRIGON

## High-Tech Big Volume Gun

Trigon is designed to cover a wide range of operating conditions in a variety of waste-water applications and in the mining industry. It is reliable by design and built to last !

Unique **Vari-Angle System!** This easy to adjust device is used to adapt the stream trajectory to the required application. Lowering the trajectory angle increases the efficiency of irrigation in windy conditions and reduces odors in waste-water disposal applications. It also helps to avoid obstacles, i.e. powerlines etc.



Adjustable stream trajectory with the Vari-Angle System

Waste-Water disposal with the Trigon 105





# Waste - Water



TRIGON 105 was designed for waste - water applications.

available models:

TRIGON 105 / PC VA10°-26° ww

TRIGON 105 / FC VA10°-26° ww

PC = Part & Full Circle  
 FC = Full Circle  
 VA = Variable Trajectory Angle  
 ww = Waste water



The Trigon 105 was designed for specific waste-water applications. It features a free flow passage to prevent clogging of liquids containing suspended particles. The drive arm and the part circle mechanism are strategically placed to avoid a build-up of solids which could cause a malfunction of the gun. **Most common applications are: municipality waste-water systems, effluent waters from food processing plants, treated manure, and many others. It is also salt water resistant.** For applications in more aggressive chemical conditions, contact us for more information.

TRIGON Waste-Water / taper bore nozzle, trajectory 24°

Pressure bar	Nozzle 12 mm - 0,47"			Nozzle 14 mm - 0,55"			Nozzle 16 mm - 0,63"			Nozzle 18 mm - 0,71"			Nozzle 20 mm - 0,79"			Nozzle 22 mm - 0,87"			Nozzle 24 mm - 0,94"		
	Flow		Radius	Flow		Radius	Flow		Radius	Flow		Radius	Flow		Radius	Flow		Radius	Flow		Radius
	m³/h	l/s	m	m³/h	l/s	m	m³/h	l/s	m	m³/h	l/s	m	m³/h	l/s	m	m³/h	l/s	m	m³/h	l/s	m
2,0	7,8	2,17	22,1	10,6	2,96	24,0	13,9	3,86	25,0	17,6	4,89	26,0	21,7	6,04	27,6	26,3	7,30	28,6	31,3	8,69	29,4
2,5	8,8	2,43	24,5	11,9	3,31	26,4	15,5	4,32	27,8	19,7	5,47	29,3	24,3	6,75	31,3	29,4	8,17	32,4	35,0	9,72	33,6
3,0	9,6	2,66	26,0	13,0	3,62	28,1	17,0	4,73	30,0	21,6	5,99	32,0	25,6	7,39	34,3	32,2	8,95	35,5	38,3	10,65	37,3
3,5	10,4	2,87	27,5	14,1	3,91	29,6	18,4	5,11	32,3	23,3	6,47	34,6	28,7	7,99	36,9	34,8	9,66	38,4	41,4	11,50	40,8
4,0	11,1	3,07	28,8	15,1	4,18	31,2	19,7	5,46	33,9	24,9	6,91	36,9	30,7	8,54	39,4	37,2	10,33	41,2	44,3	12,29	44,0
4,5	11,7	3,26	29,9	16,0	4,44	32,6	20,9	5,80	35,8	26,4	7,33	38,9	32,6	9,05	41,7	39,4	10,96	43,8	46,9	13,04	46,4
5,0	12,4	3,44	31,0	16,8	4,68	34,0	22,0	6,11	37,4	27,8	7,73	40,5	34,4	9,54	43,7	41,6	11,55	46,0	49,5	13,74	48,5
5,5	13,0	3,60	31,9	17,7	4,91	35,1	23,1	6,41	38,7	29,2	8,11	42,3	36,0	10,01	45,6	43,6	12,11	48,2	51,9	14,42	50,6
6,0	13,6	3,76	33,1	18,4	5,12	36,2	24,1	6,69	39,9	30,5	8,47	43,8	37,6	10,46	47,4	45,5	12,65	50,1	54,2	15,06	52,4

N.B. The performance data were obtained under ideal testing conditions and may be adversely affected by wind and other factors. Pressure refers to pressure at nozzle. Lowered trajectory angle improves the irrigation efficiency in windy conditions. For every 3° drop of the trajectory angle, the throw is reduced by approximately 3 - 4 %. For solid-set applications, it is advised to take into account the appropriate throw-reduction factor for local atmospheric conditions in order to assure overlapping and coverage of the irrigated area.

# Leach Mining



TRIGON 112 big volume gun, specifically engineered for this application

available models:

**TRIGON 112 / PC VA10°-26°**

PC = Part & Full Circle  
VA = Variable Trajectory Angle

**TRIGON 112**  
the only  
Big Volume Gun  
for efficient  
leach mining



The Trigon 112 is the only big volume gun specifically engineered for leach mining applications. Materials and components are carefully selected in order to withstand the corrosive medias used.

It allows to safely leach side slopes of heaps otherwise unaccessible, maximizing the result of the leaching process. On flat leach terrain, the use of the Trigon reduces labour. It also gives the possibility to control the droplet size and thus the evaporation rate within a certain range by selecting the appropriate nozzle size and operating pressure. For leach mining applications of ores other than gold, silver or copper, contact us for more information.

TRIGON Leach Mining / taper bore nozzle, trajectory 24°

Pressure bar	Nozzle 12 mm - 0,47"			Nozzle 14 mm - 0,55"			Nozzle 16 mm - 0,63"			Nozzle 18 mm - 0,71"			Nozzle 20 mm - 0,79"			Nozzle 22 mm - 0,87"			Nozzle 24 mm - 0,94"		
	Flow		Radius	Flow		Radius	Flow		Radius	Flow		Radius	Flow		Radius	Flow		Radius	Flow		Radius
	m³/h	l/s	m	m³/h	l/s	m	m³/h	l/s	m	m³/h	l/s	m	m³/h	l/s	m	m³/h	l/s	m	m³/h	l/s	m
2,0	7,8	2,17	22,1	10,6	2,96	24,0	13,9	3,86	25,0	17,6	4,89	26,0	21,7	6,04	27,6	26,3	7,30	28,6	31,3	8,69	29,4
2,5	8,8	2,43	24,5	11,9	3,31	26,4	15,5	4,32	27,8	19,7	5,47	29,3	24,3	6,75	31,3	29,4	8,17	32,4	35,0	9,72	33,6
3,0	9,6	2,66	26,0	13,0	3,62	28,1	17,0	4,73	30,0	21,6	5,99	32,0	25,6	7,39	34,3	32,2	8,95	35,5	38,3	10,65	37,3
3,5	10,4	2,87	27,5	14,1	3,91	29,6	18,4	5,11	32,3	23,3	6,47	34,6	28,7	7,99	36,9	34,8	9,66	38,4	41,4	11,50	40,8
4,0	11,1	3,07	28,8	15,1	4,18	31,2	19,7	5,46	33,9	24,9	6,91	36,9	30,7	8,54	39,4	37,2	10,33	41,2	44,3	12,29	44,0
4,5	11,7	3,26	29,9	16,0	4,44	32,6	20,9	5,80	35,8	26,4	7,33	38,9	32,6	9,05	41,7	39,4	10,96	43,8	46,9	13,04	46,4
5,0	12,4	3,44	31,0	16,8	4,68	34,0	22,0	6,11	37,4	27,8	7,73	40,5	34,4	9,54	43,7	41,6	11,55	46,0	49,5	13,74	48,5
5,5	13,0	3,60	31,9	17,7	4,91	35,1	23,1	6,41	38,7	29,2	8,11	42,3	36,0	10,01	45,6	43,6	12,11	48,2	51,9	14,42	50,6
6,0	13,6	3,76	33,1	18,4	5,12	36,2	24,1	6,69	39,9	30,5	8,47	43,8	37,6	10,46	47,4	45,5	12,65	50,1	54,2	15,06	52,4

N.B. The performance data were obtained under ideal testing conditions and may be adversely affected by wind and other factors. Pressure refers to pressure at nozzle. Lowered trajectory angle improves the irrigation efficiency in windy conditions. For every 3° drop of the trajectory angle, the throw is reduced by approximately 3 - 4 %. For solid-set applications, it is advised to take into account the appropriate throw-reduction factor for local atmospheric conditions in order to assure overlapping and coverage of the irrigated area.





# TRIGON

## High-Tech Big Volume Gun

Technical innovation  
is our challenge.  
The advantage for the user  
is our goal.™

### LIMITED WARRANTY AND DISCLAIMER

The following constitutes the full and complete limited warranty provided by Komet Standard in relation to its products. This limited warranty is in lieu of any and all other warranties, express or implied, including, but not limited to, any implied warranties of merchantability or fitness for particular purposes. No person or entity is authorized to incur or assume for Komet Standard any other expense, obligation or duty as to products designed, manufactured and/or distributed by Komet Standard.

So long as they are used under normal working conditions and in compliance with the manufacturer's working specifications and maintenance instructions, all products distributed by Komet Standard are warranted to be free of defects in material and workmanship for a period of one year from the date of the product's original shipment. Normal wear and tear arising from operation, damages due to improper or inadequate maintenance and damages due to presence of sand or mud and due to oxidation or any other chemical processes are specifically excluded from this limited warranty. This limited warranty does not apply to any product that has been altered in any way. Komet Standard undertakes, at its unquestionable judgement, to replace or repair free of charge those parts of the apparatus that proved to be faulty, providing that they are returned shipping charges prepaid. The exclusive and sole remedy with respect to above provisions is expressly limited to the repair or replacement of the part deemed to be faulty. Komet Standard shall not be liable for any crop damage, any direct, consequential or incidental damages to persons or things resulting from any use of Komet Standard's products.

Komet Standard reserves the right, at any time without notice, to alter or modify its products if deemed appropriate or necessary. Illustrations and instructions are for information purposes only and are not binding in any way. Any variations to the above provisions shall be accepted only if defined and confirmed in writing by Komet Standard. In case a legal dispute should arise, the place of jurisdiction is the Court of Trento.

