

TWIN

HYDROJET

Dust suppression gun



- High performance
- Wide range of operation
- Easy to use
- Maintenance free
- Slow reverse
- Variable trajectory

specifically engineered

TWIN

HYDROJET

TWIN HYDROJET dust suppression guns have been specifically designed to provide immediate and efficient dampening, wetting of large areas with minimal water application rates. The high frequency drive mechanism

provides a fine water curtain and gives excellent water distribution, thus avoiding erosion and run-off. Immediately upon start-up, the stream break-up is activated, also helping to prevent erosion and runoff.

TWIN HYDROJET dust suppression guns are easy to use, self-adjusting and maintenance free. Rotation speed remains constant with all pressure and nozzle combinations.



Hydrojet AP 140

44° part and full circle nozzles Ø 18–32mm



Hydrojet AP 101

44° part and full circle nozzles Ø 14–26mm

Angle of trajectory

The standard angle of trajectory is 44°.

Variable trajectory angle

Where trajectory angles other than 44° are needed to suit specific stock pile configurations, the variable trajectory angle device **VARI-ANGLE** is recommended. It allows to lower the trajectory angle. A lower water stream is less affected by the influence of wind, resulting in a more efficient wetting of the area requiring dust suppression.

Construction and materials

This product has been specially engineered for reliability and high performance in adverse environmental conditions.

TWIN HYDROJET dust suppression guns are ruggedly constructed from carefully selected materials

All moving parts are fully sealed. The specially designed and patented low-

er bearing assembly features a built-in break system, which is self-adjusting to the operating pressure.

The brake pads are constructed of an advanced hard wearing material for maximum reliability. Lower bearing assembly does not include ball bearings which can be subject to seizure due to water or sand infiltration.



Corrosion protection

First choice materials combined with the protective coating each gun receives after assembly, ensure good protection against a normal industrial environment. The gun is available as optional in a hard anodized, special

version. All aluminium parts are individually hard anodized prior to assembly. The hard anodizing of the gun, combined with the additional coating ensures maximum protection against adverse environments.

Rotation

The gun operates both part and full circle. The shift from part to full circle operation is fast and simple. The rotation speed is constant in both directions. This reduces vibrations and stress, both on the gun and its support. An easy to operate speed selector allows three rotation speeds.

Maintenance

All moving parts are sealed and lubricated for the life time of the gun. No further maintenance is required



komet AP 101-44°

Trajectory 44°

Pressure bar	Nozzle Ø 14 mm - 0,55"			Nozzle Ø 16 mm - 0,63"			Nozzle Ø 18 mm - 0,71"			Nozzle Ø 20 mm - 0,79"			Nozzle Ø 22 mm - 0,87"			Nozzle Ø 24 mm - 0,94"			Nozzle Ø 26 mm - 1,02"		
	Flow m ³ /h	Throw radius m	Height max. m.	Flow m ³ /h	Throw radius m	Height max. m.	Flow m ³ /h	Throw radius m	Height max. m.	Flow m ³ /h	Throw radius m	Height max. m.	Flow m ³ /h	Throw radius m	Height max. m.	Flow m ³ /h	Throw radius m	Height max. m.	Flow m ³ /h	Throw radius m	Height max. m.
		R	H		R	H		R	H		R	H		R	H		R	H		R	H
3	13,0	29,5	10,5	17,0	31,0	11,7	21,6	33,0	11,5	25,6	35,0	12,0	32,2	37,5	12,3	38,3	39,5	12,7	41,1	41,5	13,0
4	15,1	32,0	12,5	19,7	34,0	13,5	24,9	36,0	14,0	30,7	38,5	14,5	37,2	41,0	15,0	44,3	43,0	15,5	51,9	45,0	16,0
5	16,8	34,0	14,5	22,0	36,0	15,0	27,8	39,0	16,0	34,4	41,0	16,5	41,6	43,5	17,0	49,5	45,5	18,0	58,1	47,5	19,0
6	18,4	36,0	15,5	24,1	38,5	16,5	30,5	41,0	17,5	37,6	43,5	18,0	45,5	45,5	19,0	54,2	47,5	20,5	63,6	50,0	21,0
7	19,9	37,5	17,0	26,0	40,5	17,5	32,9	43,0	18,5	40,7	45,5	19,5	49,2	47,5	20,5	58,5	49,5	22,0	68,7	52,0	23,0
8	21,3	39,0	18,0	27,8	42,0	19,0	35,2	45,0	20,0	43,5	47,5	21,0	52,6	49,5	22,0	62,6	51,5	23,5	73,5	54,0	25,0

P.S.: The performance data were obtained under ideal testing conditions and may be adversely effected by wind and other factors. Pressure refers to pressure at nozzle. For use with higher pressure rates please request specifications. R = radius of throw in meters. Nozzle at 1,5 m of ground level. H = maximum stream height in meters above nozzle.

komet AP 140-44°

Trajectory 44°

Pressure bar	Nozzle Ø 18mm - 0,71"			Nozzle Ø 20 mm - 0,79"			Nozzle Ø 22 mm - 0,87"			Nozzle Ø 24 mm - 0,94"			Nozzle Ø 26 mm - 1,02"			Nozzle Ø 28 mm - 1,10"			Nozzle Ø 30 mm - 1,18"			Nozzle Ø 32 mm - 1,26"		
	Flow m ³ /h	Throw radius m	Height max. m.	Flow m ³ /h	Throw radius m	Height max. m.	Flow m ³ /h	Throw radius m	Height max. m.	Flow m ³ /h	Throw radius m	Height max. m.	Flow m ³ /h	Throw radius m	Height max. m.	Flow m ³ /h	Throw radius m	Height max. m.	Flow m ³ /h	Throw radius m	Height max. m.	Flow m ³ /h	Throw radius m	Height max. m.
		R	H		R	H		R	H		R	H		R	H		R	H		R	H		R	H
3	21,6	35,0	12,8	25,6	37,0	13,0	32,2	39,5	13,1	38,3	41,5	13,2	41,1	43,5	13,4	52,2	45,0	13,7	59,9	47,5	14,0	68,1	49,0	14,1
4	24,9	38,0	15,0	30,7	40,5	15,5	37,2	43,0	16,0	44,3	45,0	16,5	51,9	47,0	17,0	60,2	49,5	17,5	69,1	51,5	18,0	78,7	53,0	18,5
5	27,8	41,0	16,5	34,4	43,0	17,5	41,6	45,5	18,0	49,5	47,5	19,0	58,1	49,5	20,0	67,3	52,5	20,5	77,3	54,5	21,5	88,0	56,0	22,0
6	30,5	43,0	18,0	37,6	45,5	19,0	45,5	47,5	20,0	54,2	49,5	21,5	63,6	52,0	22,5	73,8	55,0	23,0	84,7	57,0	23,5	96,4	59,0	24,5
7	32,9	45,0	19,5	40,7	47,5	20,5	49,2	49,5	21,5	58,5	51,5	23,0	68,7	54,0	24,0	79,7	57,5	25,0	91,5	59,5	26,0	104,1	61,5	27,0
8	35,2	47,0	21,0	43,5	49,5	22,0	52,6	51,5	23,0	62,6	53,5	24,5	73,5	56,0	26,0	85,2	59,0	26,5	97,8	61,5	27,5	111,3	63,5	28,5

P.S.: The performance data were obtained under ideal testing conditions and may be adversely effected by wind and other factors. Pressure refers to pressure at nozzle. For use with higher pressure rates please request specifications. R = radius of throw in meters. Nozzle at 1,5 m of ground level. H = maximum stream height in meters above nozzle.

komet AP 101-44° - US units

Trajectory 44°

Pressure psi	Nozzle Ø 0,55"			Nozzle Ø 0,63"			Nozzle Ø 0,71"			Nozzle Ø 0,79"			Nozzle Ø 0,87"			Nozzle Ø 0,94"			Nozzle Ø 1,02"		
	Flow gpm	Throw radius ft	Height max. ft	Flow gpm	Throw radius ft	Height max. ft	Flow gpm	Throw radius ft	Height max. ft	Flow gpm	Throw radius ft	Height max. ft	Flow gpm	Throw radius ft	Height max. ft	Flow gpm	Throw radius ft	Height max. ft	Flow gpm	Throw radius ft	Height max. ft
		R	H		R	H		R	H		R	H		R	H		R	H		R	H
50	62	98	37	81	107	39	103	114	41	127	122	42	153	130	43	183	136	44	214	143	45
60	68	107	42	89	113	44	113	121	46	139	129	47	168	136	49	200	142	51	235	149	53
70	74	111	45	96	119	47	122	127	50	150	135	52	182	142	54	216	148	57	254	156	60
80	79	116	49	103	124	50	130	132	54	160	139	56	194	147	58	231	154	62	271	162	65
90	83	120	52	109	129	54	138	137	57	170	145	59	206	152	62	245	159	67	288	167	70
100	88	123	54	115	133	57	145	141	60	179	149	63	217	156	66	258	163	71	303	171	74
110	92	127	57	120	137	60	152	146	63	188	154	66	228	161	69	271	167	75	318	176	79
120	96	129	59	126	140	62	159	150	65	197	158	69	238	164	72	283	171	78	332	180	82

P.S.: The performance data were obtained under ideal testing conditions and may be adversely effected by wind and other factors. Pressure refers to pressure at nozzle. For use with higher pressure rates please request specifications. R = radius of throw in feet. Nozzle at 5 feet above ground level. H = maximum stream height above nozzle in feet.

komet AP 140-44° - US units

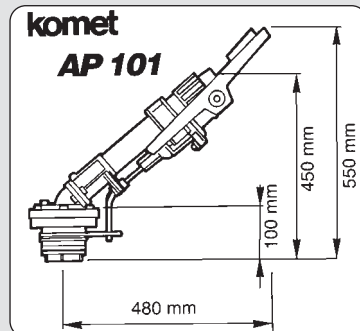
Trajectory 44°

Pressure psi	Nozzle Ø 0,71"			Nozzle Ø 0,79"			Nozzle Ø 0,87"			Nozzle Ø 0,94"			Nozzle Ø 1,02"			Nozzle Ø 1,10"			Nozzle Ø 1,18"			Nozzle Ø 1,26"		
	Flow gpm	Throw radius ft	Height max. ft	Flow gpm	Throw radius ft	Height max. ft	Flow gpm	Throw radius ft	Height max. ft	Flow gpm	Throw radius ft	Height max. ft	Flow gpm	Throw radius ft	Height max. ft	Flow gpm	Throw radius ft	Height max. ft	Flow gpm	Throw radius ft	Height max. ft	Flow gpm	Throw radius ft	Height max. ft
		R	H		R	H		R	H		R	H		R	H		R	H		R	H		R	H
50	103	120	44	127	129	45	153	136	46	183	142	47	214	149	48	249	157	50	285	163	51	325	170	52
60	113	127	49	139	135	50	168	142	52	200	149	54	235	155	56	272	165	58	313	172	60	356	176	62
70	122	133	53	150	141	55	182	148	57	216	154	60	254	162	63	294	171	65	338	178	67	384	183	70
80	130	138	57	160	145	59	194	153	61	231	160	65	271	168	68	314	178	70	361	183	73	411	189	76
90	138	143	60	170	151	62	206	158	65	245	165	70	288	173	73	334	182	76	383	189	78	436	195	81
100	145	147	63	179	155	66	217	162	69	258	169	74	303	177	77	352	187	80	404	194	83	459	200	87
110	152	152	66	188	160	69	228	167	72	271	173	78	318	182	82	369	192	84	423	197	88	482	205	91
120	159	156	68	197	166	72	238	170	75	283	177	81	332	186	85	385	196	87	442	203	91	503	209	94

P.S.: The performance data were obtained under ideal testing conditions and may be adversely effected by wind and other factors. Pressure refers to pressure at nozzle. For use with higher pressure rates please request specifications. R = radius of throw in feet. Nozzle at 5 feet above ground level. H = maximum stream height above nozzle in feet.

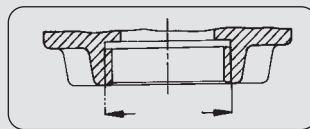
Dimensions: The HYDROJET dust suppression guns have the following dimensions:

Hydrojet AP 101

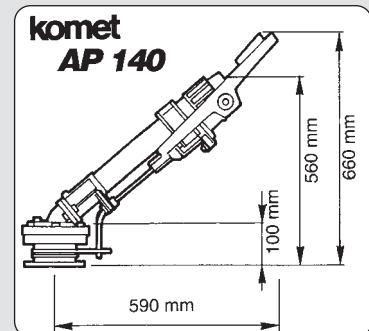


Connections:

Standard connection is 2" BSPF.
Thread NPTF is available on request.

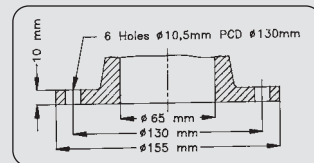


Hydrojet AP 140



Connections:

Standard connection is flange,
O.D. \varnothing 155 mm (6 1/16"), number of
holes 6, bore \varnothing 10.5 mm (13/32").
PCD of holes 130 mm (5 1/8").



Int. pat. pending





For dust suppression, mining or environmental applications of the gun in a particularly corrosive environment, we can offer alternative solutions. Call us with your specific requirements so we can propose the best possible solutions to your problem.

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 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.



Komet Standard s.r.l. I - 38014 Gardolo/TN **tel.** (+ 39) 0461 990138 **fax** (+ 39) 0461 990201
web: www.kometirrigation.com **e-mail:** komet@kometirrigation.com