



MZ301HL™

Micro Sprinkler for
heap leaching applications.

MZ301HL™ is a heavy-duty micro-sprinkler engineered for overhead solution application in heap leaching operations. Designed for stable performance under aggressive chemical environments, it delivers uniform distribution, controlled droplet formation, and reliable coverage across engineered leach pads. Its optimized trajectory and droplet size improve wind resistance and enhance solution placement accuracy, supporting efficient and consistent mineral recovery.

Technical Data

- **Working pressure range:** 1.5-2.5 bar
- **Flow rate :** 106-325 lph
- **Coverage diameter:** 10-12.5 m'
- **Recommended filtration:** 300 micron (50 mesh)
- **Made of special material for acid/chemical resistance**

Features & Benefits

- Robust micro sprinkler for tough working conditions
- Made of special raw materials of high chemical resistance for mine's applications
- Excellent water distribution uniformity, for optimum efficiency
- Large droplet size ideal for wind resistance
- Low water trajectory optimum for Goldmine application
- Color-coded nozzles for easy flow rate management
- Up to 6.0m spacing

MZ301HL™

Performance Table MZ301 HL

Nozzle Size & Color	Pressure	Discharge Rate	Wetted Diameter	Precipitation Rate (mm/hr) / Spacing (m)			
mm	bar	lph	m	4 x 4	5x5	5 x 6	6 x 6
1.54 mm Orange	1.5	106	10	6.6	4.2	3.5	2.9
	2	122	10	7.6	4.9	4.1	3.4
	2.5	136	10.5	8.4	5.4	4.5	3.7
1.74 mm Black	1.5	140	10	8.8	5.6	4.7	3.9
	2	162	10.5	10.1	6.5	5.4	4.5
	2.5	181	10.5	11.2	7.2	6	5
1.98 mm Blue	1.5	175	10.5	10.9	7	5.8	4.8
	2	202	11	12.5	8	6.7	5.6
	2.5	226	11	14.1	9	7.5	6.2
2.2 mm Yellow	1.5	212	10.5	13.3	8.5	7.1	5.9
	2	245	11.5	15.2	9.7	8.2	6.8
	2.5	274	11.5	17.2	11	9.1	7.6
2.94 mm Red	1.5	251	11.5	15.4	9.8	8.4	6.8
	2	290	12	18.1	11.6	9.7	8
	2.5	324	12.5	20.3	13	10.8	9

- Tested at 50cm above soil.
- Tested in ideal laboratory conditions of temperature, wind and humidity.
- MSH: Maximum Stream Height above nozzle.
- Performance table prepared under laboratory conditions .
- For windy conditions use closer spacing between sprinklers and laterals.

CDU < 80%	80% ≤ CDU < 85%	85% ≤ CDU < 90%	CDU ≥ 90%
-----------	-----------------	-----------------	-----------

Nozzle Sizes



Keep in touch!

 info@metzerplas.com

 metzer-group.com



 metzer

Notwithstanding anything to the contrary, (A) any information, data, figures, descriptions or any other content included in, or referred to, this document (collectively - "Information") are provided merely (i) on an "as is", "as available" basis only, without any kind of representation, warranty, liability, responsibility and/or undertaking on the part of Metzerplas and/or anyone acting on its behalf, and (ii) for general, informational purposes only, and (B) the Information or any content contained in this document do not constitute, in any way, any professional advice, recommendation or guidance and/or any sort of consultancy and must not be relied on as such. In making a decision, the recipient or reader of the Information must rely solely on its own calculations and examination of the Information, including the merits and risks involved.