

## UR nozzles automated and manual

The enz® UR nozzles are designed for radial cleaning of smaller pipes and lines, e.g., in heat exchangers. The enz® water brake ensures a constant rotational speed. Pipes can be cleaned at pressures up to 1,500 bar (22,000 psi). Its compact design allows cleaning of straight and bent pipes. Jets aligned at 90° or 45° remove even the toughest deposits. They pull the nozzle into the pipe while flushing out the debris. UR nozzles are suitable for manual use on cleaning lances and for automated cleaning systems.










### Applications

- Cleaning heat exchangers in chemical, nuclear, atomic plants as well as general industrial cleaning












**UR6**



									
05.006-12-m-1	M5	0.3 - 0.5	3.2	2 x 0.45, 2 x 0.45	0.2 x 1.7	ok	ok	0.02	14,500










**UR8**



									
05.008-14-M-1	M5	0.4 - 0.5	3.7	2 x 0.45, 2 x 0.45	* 0.3 x 1.7	ok	ok	0.02	14,500

**UR10**



									
05.010-20-M-2	M7	0.5 - 0.6	5.3	2 x 0.45, 2 x 0.45	0.4 x 1.0	ok	ok	0.02	22,000
05.010-20-N-1	1/16" NPT	0.5 - 0.6	4.7	2 x 0.45, 2 x 0.45	0.4 x 1.0	ok	ok	0.02	14,500
05.010-20-U-2	1/4" UNF	0.5 - 0.6	5.3	2 x 0.45, 2 x 0.45	0.4 x 1.0	ok	ok	0.02	22,000
05.010-30-M-2	M7	0.5 - 0.6	7.9	2 x 0.55, 2 x 0.50	0.4 x 1.0	ok	ok	0.02	22,000
05.010-30-N-1	1/16" NPT	0.5 - 0.6	6.6	2 x 0.55, 2 x 0.50	0.4 x 1.0	ok	ok	0.02	14,500
05.010-30-U-2	1/4" UNF	0.5 - 0.6	7.9	2 x 0.55, 2 x 0.50	0.4 x 1.0	ok	ok	0.02	22,000
05.010-40-M-2	M7	0.5 - 0.6	10.6	2 x 0.65, 2 x 0.60	0.4 x 1.0	ok	ok	0.02	22,000
05.010-40-N-1	1/16" NPT	0.5 - 0.6	8.7	2 x 0.65, 2 x 0.60	0.4 x 1.0	ok	ok	0.02	14,500

05.010-40-U-2	1/4" x UNF	0.5 - 0.6	10.5	2 x 0.65, 2 x 0.60	0.4 x 1.0	ok	ok	0.02	22,000

**UR10 Long**












05.010-20-LM-2	M7	0.5 - 0.6	5.3	2 x 0.45, 2 x 0.45	0.4 x 1.3	ok	ok	0.03	22,000
05.010-20-LN-1	1/16" NPT	0.5 - 0.6	4.8	2 x 0.45, 2 x 0.45	0.4 x 1.3	ok	ok	0.03	14,500
05.010-20-LU-2	1/4" UNF	0.5 - 0.6	5.3	2 x 0.45, 2 x 0.45	0.4 x 1.3	ok	ok	0.03	22,000
05.010-30-LM-2	M7	0.5 - 0.6	7.9	2 x 0.55, 2 x 0.50	0.4 x 1.3	ok	ok	0.03	22,000
05.010-30-LN-1	1/16" NPT	0.5 - 0.6	6.6	2 x 0.55, 2 x 0.50	0.4 x 1.3	ok	ok	0.03	14,500
05.010-30-LU-2	1/4" UNF	0.5 - 0.6	7.9	2 x 0.55, 2 x 0.50	0.4 x 1.3	ok	ok	0.03	22,000
05.010-40-LM-2	M7	0.5 - 0.6	10.6	2 x 0.65, 2 x 0.60	0.4 x 1.3	ok	ok	0.03	22,000
05.010-40-LN-1	1/16" NPT	0.5 - 0.6	8.7	2 x 0.65, 2 x 0.60	0.4 x 1.3	ok	ok	0.03	14,500
05.010-40-LU-2	1/4" UNF	0.5 - 0.6	10.5	2 x 0.65, 2 x 0.60	0.4 x 1.3	ok	ok	0.03	22,000

**UR13**












05.013-20-2	1/8" BSPP	0.6 - 0.8	5.3	2 x 0.45, 2 x 0.45	0.5 x 1.2	ok	ok	0.04	22,000
05.013-20-N-1	1/8" NPT	0.6 - 0.8	4.8	2 x 0.45, 2 x 0.45	0.5 x 1.2	ok	ok	0.04	14,500
05.013-20-UB-2	3/8" UNF	0.6 - 0.8	5.3	2 x 0.45, 2 x 0.45	0.5 x 1.2	ok	ok	0.04	22,000

									
05.013-30-2	1/8" BSPP	0.6 - 0.8	7.9	2 x 0.55, 2 x 0.50	0.5 x 1.2	ok	ok	0.04	22,000
05.013-30-N-1	1/8" NPT	0.6 - 0.8	6.6	2 x 0.55, 2 x 0.50	0.5 x 1.2	ok	ok	0.04	14,500
05.013-30-UB-2	3/8" UNF	0.6 - 0.8	7.9	2 x 0.55, 2 x 0.50	0.5 x 1.2	ok	ok	0.04	22,000
05.013-40-2	1/8" BSPP	0.6 - 0.8	10.6	2 x 0.65, 2 x 0.60	0.5 x 1.2	ok	ok	0.04	22,000
05.013-40-N-1	1/8" NPT	0.6 - 0.8	8.7	2 x 0.65, 2 x 0.60	0.5 x 1.2	ok	ok	0.04	14,500
05.013-40-UB-2	3/8" UNF	0.6 - 0.8	10.6	2 x 0.65, 2 x 0.60	0.5 x 1.2	ok	ok	0.04	22,000











**UR13 Long**



									
05.013-20-L-2	1/8" BSPP	5.3	5.3	2 x 0.45, 2 x 0.45	0.5 x 1.6	ok	ok	0.07	22,000
05.013-20-LN-1	1/8" NPT	0.6 - 0.8	4.8	2 x 0.45, 2 x 0.45	0.5 x 1.6	ok	ok	0.07	14,500
05.013-20-LUB-2	3/8" UNF	0.6 - 0.8	5.3	2 x 0.45, 2 x 0.45	0.5 x 1.6	ok	ok	0.07	22,000
05.013-30-L-2	1/8" BSPP	0.6 - 0.8	7.9	2 x 0.55, 2 x 0.50	0.5 x 1.6	ok	ok	0.07	22,000
05.013-30-LN-1	1/8" NPT	0.6 - 0.8	6.6	2 x 0.55, 2 x 0.50	0.5 x 1.6	ok	ok	0.07	14,500
05.013-30-LUB-2	3/8" UNF	0.6 - 0.8	7.9	2 x 0.55, 2 x 0.50	0.5 x 1.6	ok	ok	0.07	22,000
05.013-40-L-2	1/8" BSPP	0.6 - 0.8	10.6	2 x 0.65, 2 x 0.60	0.5 x 1.6	ok	ok	0.07	22,000
05.013-40-LN-1	1/8" NPT	0.6 - 0.8	8.7	2 x 0.65, 2 x 0.60	0.5 x 1.6	ok	ok	0.07	14,500
05.013-40-LUB-2	3/8" UNF	0.6 - 0.8	10.6	2 x 0.65, 2 x 0.60	0.5 x 1.6	ok	ok	0.07	22,000











**UR17**



										
05.017-30-B-2	1/4" BSPP	0.7 - 1	7.9	2 x 0.50, 2 x 0.50	*	0.7 x 1.5	ok	ok	0.1	22,000
05.017-30-NB-1	1/4" NPT	0.7 - 1	6.6	2 x 0.50, 2 x 0.50	*	0.7 x 1.5	ok	ok	0.1	14,500
05.017-30-UC-2	9/16" UNF	0.7 - 1	7.9	2 x 0.50, 2 x 0.50	*	0.7 x 1.5	ok	ok	0.1	22,000
05.017-50-B-2	1/4" BSPP	0.7 - 1	13.2	2 x 0.70, 2 x 0.65	*	0.7 x 1.5	ok	ok	0.1	22,000
05.017-50-NB-1	1/4" NPT	0.7 - 1	10.6	2 x 0.70, 2 x 0.65	*	0.7 x 1.5	ok	ok	0.1	14,500
05.017-50-UC-2	9/16" UNF	0.7 - 1	13.2	2 x 0.70, 2 x 0.65	*	0.7 x 1.5	ok	ok	0.1	22,000











**UR17 Long**



										
05.017-30-LB-2	1/4" BSPP	0.7 - 1	7.9	2 x 0.50, 2 x 0.50	*	0.7 x 2.0	ok	ok	0.2	22,000
05.017-30-LNB-1	1/4" NPT	0.7 - 1	6.6	2 x 0.50, 2 x 0.50	*	0.7 x 2.0	ok	ok	0.2	14,500
05.017-30-LUC-2	9/16" UNF	0.7 - 1	7.9	2 x 0.50, 2 x 0.50	*	0.7 x 2.0	ok	ok	0.2	22,000
05.017-50-LB-2	1/4" BSPP	0.7 - 1	13.2	2 x 0.70, 2 x 0.65	*	0.7 x 2.0	ok	ok	0.2	22,000
05.017-50-LNB-1	1/4" NPT	0.7 - 1	10.6	2 x 0.70, 2 x 0.65	*	0.7 x 2.0	ok	ok	0.2	14,500
05.017-50-LUC-2	9/16" UNF	0.7 - 1	13.2	2 x 0.70, 2 x 0.65	*	0.7 x 2.0	ok	ok	0.2	22,000











**UR22**



										
05.022-A-2	1/4" BSPP	1 - 1.3	6.1	2 x M4, 2 x M4	*	0.9 x 1.9	ok	ok	0.2	22,000
05.022-NB-1	3/8" NPT	1 - 1.3	4.5	2 x M4, 2 x M4	*	0.9 x 1.9	ok	ok	0.2	14,500
05.022-UB-2	9/16" UNF	1 - 1.3	6.1	2 x M4, 2 x M4	*	0.9 x 1.9	ok	ok	0.2	22,000











**UR22 Long**



										
05.022-LA-2	1/4" BSPP	1 - 1.3	6.1	2 x M4, 2 x M4	*	0.9 x 2.5	ok	ok	0.4	22,000
05.022-LNB-1	3/8" NPT	1 - 1.3	4.5	2 x M4, 2 x M4	*	0.9 x 2.5	ok	ok	0.4	14,500
05.022-LUB-2	9/16" UNF	1 - 1.3	6.1	2 x M4, 2 x M4	*	0.9 x 2.5	ok	ok	0.4	22,000

**UR28**



										
05.028-A-2	1/4" BSPP	1.2 - 1.7	7.9	2 x M4, 2 x M4	*	1.1 x 2.2	ok	ok	0.4	22,000
05.028-NB-1	3/8" NPT	1.2 - 1.7	6.6	2 x M4, 2 x M4	*	1.1 x 2.2	ok	ok	0.4	14,500
05.028-UB-2	9/16" UNF	1.2 - 1.7	7.9	2 x M4, 2 x M4	*	1.1 x 2.2	ok	ok	0.4	22,000



## URX nozzles automated

The enz® URX nozzles are designed for users who require optimal cleaning and polishing of pipe interiors, e.g., in heat exchangers. The URX nozzles are rated for a maximum operating pressure of 2,500 bar (36,000 psi). Two 90° water jets, as well as an optionally available front jet, enable the reliable removal of even the toughest deposits. Thanks to its sophisticated design, the nozzle operates with particularly low leakage. In combination with the enz® magnetic brake, the rotational speed is regulated to a constant level, allowing more deposits to be removed in a single operation. The URX nozzles are suitable for use with automated cleaning systems.

### Applications

- Cleaning and polishing of pipe interiors
- Cleaning of heat exchangers
- General industrial cleaning

