

2024/25



Legende



Connecting thread (inch)



Application range (inch)



min. G/Min. at 1450 psi | min. G/Min. at
14'500/22'000 psi



Rotating jet



Thrust jet



Front jet



Jet angle backward



Jet angle forward



Dimensions [inch]



Weight [lb.]



Recycling



Maximum pressure (psi)

General terms of sale and delivery

General Information

enz® usa inc. / enz® technik ag offers a large range of high quality pipe cleaning tools. Since 1985, through innovative designs, we have assisted the sewer and pipe cleaning industry to remain on the forefront of new and creative technologies. This ensures superior quality and gives you, the customer, a product that is efficient and durable. We are interested in being your Partner and helping you find the best solution for your problems. With our know-how and efforts we will accept any new challenges to help keep you on the forefront of the newest techniques available.

The enz® products

All enz® tools are calibrated to Customer specific Pump and Hose specifications with our own JetCalc® Software to optimize the performance of your tool.

The enz® rotating nozzles are remarkable for their tremendous cleaning efficiency, which is based on a worldwide patented Drive and Brake jets design which increases and decreases the rotational speed with every half rotation therefore limiting the rotational speed.

The resulting pressure vibrations essentially contribute to the disintegration of the deposits. We also carry a complete line of Rotating Chain Scrapers and Percussion Milling Cutters. Our ceramic orifice inserts ensure that enz® tools have an outstanding durability. Our products are covered by International patents.

Warranty / Safety / Liability

enz® Pipe and Channel Cleaning Tools are designed for the highest possible performance. The materials and the heat treatment processes are selected for wear resistance and long life. enz® is applying the most up to date manufacturing and quality assurance methods.

The enz® organization is ISO 9001 and ISO 14001 compliant.

General Tool Warranty: enz® warrants the quality of all tools supplied for the duration of 12 months from date of purchase. The warranty is limited to the replacement of faulty parts or the in house repair of faulty tools. No warranty is accepted if tools are not used or maintained in strict compliance with the operating manual supplied by enz®.

Warranty on ceramic nozzles inserts: The orifice diameters of enz ceramic nozzles are warranted for wear for the duration of 5 years from the date of purchase when used with potable water. And 2 years from the date of purchase when used with recycled water. The warranty is limited to the free of charge exchange of worn inserts.

Warranty on Bulldog® nozzles: enz® warrants the internal mechanics of the Bulldog® nozzles for 1 year. No warranty on excessive wear of head or skid body due to prolonged or abusive use. Despite all due care, this documentation may contain errors. enz® technik ag and/or its Subsidiaries shall not be liable for any consequential damage. Technical modifications are reserved.

Our Distributor Network covers the United States and Canada

enz® usa inc

1585 Beverly Ct.

Unit 115

Aurora, IL 60502

Tel. 630-692-7880

Fax 630-692-7885

salesusa@enz.com

www.enz.com

TUBE CLEANING

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ACCESSORIES

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UC nozzles

enz® UC nozzles (with brake jet) are applied for industrial cleaning of heat exchangers and completely clogged tubes.

The cross jet, which directed to the front, cuts the material in the completely clogged pipe like a milling cutter. Simultaneously 2 radial jets of 60° - 90° clean the pipe wall. Through the same effect the removed material is flushed away. The cross jet causes a reaction force which, in many cases, makes it necessary to set the nozzle on a lance. The UC nozzles are available with or without thrust. Through all that, the UC nozzle has become a tool for universal use.

Applications

- For industrial cleaning of heat exchangers and completely clogged tubes



UC09



									
06.009-18-M-2	M7	0.5 - 0.7	4 / 4.8	90°: 2 x 0.45	-	45°: 2 x 0.45	0.4 x 1.5	0.04	14,500 / 22,000
06.009-18-MS-2	M7	0.5 - 0.7	7.9 / 9.5	90°: 2 x 0.45	3 x 0.60	45°: 2 x 0.45	0.4 x 1.5	0.04	14,500 / 22,000
06.009-18-N-1	1/16" NPT	0.5 - 0.7	4.0	90°: 2 x 0.45	-	45°: 2 x 0.45	0.4 x 1.5	0.04	14,500
06.009-18-NS-1	1/16" NPT	0.5 - 0.7	7.9	90°: 2 x 0.45	3 x 0.60	45°: 2 x 0.45	0.4 x 1.5	0.04	14,500
06.009-18-U-2	1/4" x 28UNF	0.5 - 0.7	4 / 4.8	90°: 2 x 0.45	-	45°: 2 x 0.45	0.4 x 1.5	0.04	14,500 / 22,000
06.009-18-UL-2	1/4" x 28UNF LH	0.5 - 0.7	4.0 / 4.8	90°: 2 x 0.45	-	45°: 2 x 0.45	0.4 x 1.5	0.04	14,500 / 22,000
06.009-18-ULS-2	1/4" x 28UNF LH	0.5 - 0.7	7.9 / 9.5	90°: 2 x 0.45	3 x 0.60	45°: 2 x 0.45	0.4 x 1.5	0.04	14,500 / 22,000
06.009-18-US-2	1/4" x 28UNF	0.5 - 0.7	7.9 / 9.5	90°: 2 x 0.45	3 x 0.60	45°: 2 x 0.45	0.4 x 1.5	0.04	14,500 / 22,000

UC09 with male thread



									
06.009-18-Ub-2	5/16" x 24 UNF (male)	0.5 - 0.7	4.0 / 4.8	90°: 2 x 0.45	-	45°: 2 x 0.45	0.4 x 1.4	0.04	14,500 / 22,000
06.009-18-Ubs-2	5/16" x 24 UNF (male)	0.5 - 0.7	7.9 / 9.5	90°: 2 x 0.45	3 x 0.60	45°: 2 x 0.45	0.4 x 1.4	0.04	14,500 / 22,000

UC13-18



									
06.013-18-2	1/8" BSPP	0.6 - 0.8	4.2 / 4.8	90°: 2 x 0.50	-	45°: 2 x 0.50	0.5 x 1.9	0.06	14,500 / 22,000

									
06.013-18-N-1	1/8" NPT	0.6 - 0.8	4.2	90°: 2 x 0.50	-	45°: 2 x 0.50	0.5 x 1.9	0.06	14,500
06.013-18-NS-1	1/8" NPT	0.6 - 0.8	7.4	90°: 2 x 0.50	3 x 0.60	45°: 2 x 0.50	0.5 x 1.9	0.06	14,500
06.013-18-S-2	1/8" BSPP	0.6 - 0.8	7.4 / 9.5	90°: 2 x 0.50	3 x 0.60	45°: 2 x 0.50	0.5 x 1.9	0.06	14,500 / 22,000
06.013-18-UA-2	1/4" x 28UNF	0.6 - 0.8	4.2 / 4.8	90°: 2 x 0.50	-	45°: 2 x 0.50	0.5 x 1.9	0.06	14,500 / 22,000
06.013-18-UAL-2	1/4" x 28UNF LH	0.6 - 0.8	4.2 / 4.8	90°: 2 x 0.50	-	45°: 2 x 0.50	0.5 x 1.9	0.06	14,500 / 22,000
06.013-18-UALS-2	1/4" x 28UNF LH	0.6 - 0.8	7.4 / 9.5	90°: 2 x 0.50	3 x 0.60	45°: 2 x 0.50	0.5 x 1.9	0.06	14,500 / 22,000
06.013-18-UAS-2	1/4" x 28UNF	0.6 - 0.8	7.4 / 9.5	90°: 2 x 0.50	3 x 0.60	45°: 2 x 0.50	0.5 x 1.9	0.06	14,500 / 22,000
06.013-18-UB-2	3/8" x 24UNF	0.6 - 0.8	4.2 / 4.8	90°: 2 x 0.50	-	45°: 2 x 0.50	0.5 x 1.9	0.06	14,500 / 22,000
06.013-18-UBL-2	3/8" x 24UNF LH	0.6 - 0.8	4.2 / 4.8	90°: 2 x 0.50	-	45°: 2 x 0.50	0.5 x 1.9	0.06	14,500 / 22,000
06.013-18-UBLS-2	3/8" x 24UNF LH	0.6 - 0.8	7.4 / 9.5	90°: 2 x 0.50	3 x 0.60	45°: 2 x 0.50	0.4 x 1.9	0.06	14,500 / 22,000
06.013-18-UBS-2	3/8" x 24UNF	0.6 - 0.8	7.4 / 9.5	90°: 2 x 0.50	3 x 0.60	45°: 2 x 0.50	0.5 x 1.9	0.06	14,500 / 22,000

UC13-30



									
06.013-30-2	1/8" BSPP	0.6 - 0.8	6.3 / 7.9	90°: 2 x 0.70	-	45°: 2 x 0.70	0.5 x 1.9	0.06	14,500 / 22,000
06.013-30-N-1	1/8" NPT	0.6 - 0.8	6.3	90°: 2 x 0.70	-	45°: 2 x 0.70	0.5 x 1.9	0.06	14,500
06.013-30-NS-1	1/8" NPT	0.6 - 0.8	11.1	90°: 2 x 0.70	-	45°: 2 x 0.70	0.5 x 1.9	0.06	14,500
06.013-30-S-2	1/8" BSPP	0.6 - 0.8	11.1 / 13.7	90°: 2 x 0.70	3 x 0.60	45°: 2 x 0.70	0.5 x 1.9	0.06	14,500 / 22,000
06.013-30-UA-2	1/4" x 28UNF	0.6 - 0.8	6.3 / 7.9	90°: 2 x 0.50	-	45°: 2 x 0.50	0.5 x 1.9	0.06	14,500 / 22,000
06.013-30-UAL-2	1/4" x 28UNF LH	0.6 - 0.8	6.3 / 7.9	90°: 2 x 0.70	-	45°: 2 x 0.70	0.5 x 1.9	0.06	14,500 / 22,000
06.013-30-UALS-2	1/4" x 28UNF LH	0.6 - 0.8	11.1 / 13.7	90°: 2 x 0.70	3 x 0.60	45°: 2 x 0.70	0.5 x 1.9	0.06	14,500 / 22,000
06.013-30-UAS-2	1/4" x 28UNF	0.6 - 0.8	11.1 / 13.7	90°: 2 x 0.70	3 x 0.60	45°: 2 x 0.70	0.5 x 1.9	0.06	14,500 / 22,000
06.013-30-UB-2	3/8" x 24UNF	0.6 - 0.8	6.3 / 7.9	90°: 2 x 0.70	-	45°: 2 x 0.70	0.5 x 1.9	0.06	14,500 / 22,000
06.013-30-UBL-2	3/8" x 24UNF LH	0.6 - 0.8	6.3 / 7.9	90°: 2 x 0.70	-	45°: 2 x 0.70	0.5 x 1.9	0.06	14,500 / 22,000
06.013-30-UBLS-2	3/8" x 24UNF LH	0.6 - 0.8	11.1 / 13.7	90°: 2 x 0.70	3 x 0.60	45°: 2 x 0.70	0.5 x 1.0	0.06	14,500 / 22,000

									
06.013-30-UBS-2	3/8" x 24UNF	0.6 - 0.8	11.1 / 13.7	90°: 2 x 0.70	3 x 0.60	45°: 2 x 0.70	0.5 x 1.9	0.06	14,500 / 22,000

UC18-30



									
06.018-30-A-2	1/8" BSPP	0.9 - 1.1	5.3 / 6.3	90°: 2 x 0.50	-	45°: 2 x 0.50	0.7 x 2.6	0.17	14,500 / 22,000
06.018-30-AS-2	1/8" BSPP	0.9 - 1.1	8.7 / 11.6	90°: 2 x 0.50	3 x M3	45°: 2 x 0.50	0.7 x 2.6	0.17	14,500 / 22,000
06.018-30-B-2	1/4" BSPP	0.9 - 1.1	5.3 / 6.3	90°: 2 x 0.50	-	45°: 2 x 0.50	0.7 x 2.6	0.17	14,500 / 22,000
06.018-30-BS-2	1/4" BSPP	0.9 - 1.1	8.7 / 11.6	90°: 2 x 0.50	3 x M3	45°: 2 x 0.50	0.7 x 2.6	0.17	14,500 / 22,000
06.018-30-NB-1	1/4" NPT	0.9 - 1.1	5.3	90°: 2 x 0.50	-	45°: 2 x 0.50	0.7 x 2.6	0.17	14,500
06.018-30-NBS-1	1/4" NPT	0.9 - 1.1	8.7	90°: 2 x 0.50	3 x M3	45°: 2 x 0.50	0.7 x 2.6	0.17	14,500
06.018-30-UBL-2	3/8" x 24UNF LH	0.9 - 1.1	5.3 / 6.3	90°: 2 x 0.50	-	45°: 2 x 0.50	0.7 x 2.6	0.17	14,500 / 22,000
06.018-30-UBLS-2	3/8" x 24UNF LH	0.9 - 1.1	8.7 / 11.6	90°: 2 x 0.50	3 x M3	45°: 2 x 0.50	0.7 x 2.6	0.17	14,500 / 22,000
06.018-30-UC-2	9/16" x 18UNF	0.9 - 1.1	5.3 / 6.3	90°: 2 x 0.50	-	45°: 2 x 0.50	0.7 x 2.6	0.17	14,500 / 22,000
06.018-30-UCL-2	9/16" x 18UNF LH	0.9 - 1.1	5.3 / 6.3	90°: 2 x 0.50	-	45°: 2 x 0.50	0.7 x 2.6	0.17	14,500 / 22,000
06.018-30-UCLS-2	9/16" x 18UNF LH	0.9 - 1.1	8.7 / 11.6	90°: 2 x 0.50	3 x M3	45°: 2 x 0.50	0.7 x 2.6	0.17	14,500 / 22,000
06.018-30-UCS-2	9/16" x 18UNF	0.9 - 1.1	8.7 / 11.6	90°: 2 x 0.50	3 x M3	45°: 2 x 0.50	0.7 x 2.6	0.17	14,500 / 22,000

UC18-50



									
06.018-50-A-2	1/8" BSPP	0.9 - 1.5	9.2 / 10.6	90°: 2 x 0.75	-	45°: 2 x 0.75	0.7 x 2.6	0.17	14,500 / 22,000
06.018-50-AS-2	1/8" BSPP	0.9 - 1.5	13.7 / 17.7	90°: 2 x 0.75	3 x M3	45°: 2 x 0.75	0.7 x 2.6	0.17	14,500 / 22,000
06.018-50-B-2	1/4" BSPP	0.9 - 1.5	9.2 / 10.6	90°: 2 x 0.75	-	45°: 2 x 0.75	0.7 x 2.6	0.17	14,500 / 22,000

									
06.018-50-BS-2	1/4" BSPP	0.9 - 1.5	13.7 / 17.7	90°: 2 x 0.75	3 x M3	45°: 2 x 0.75	0.7 x 2.6	0.17	14,500 / 22,000
06.018-50-NB-1	1/4" NPT	0.9 - 1.5	9.2	90°: 2 x 0.75	-	45°: 2 x 0.75	0.7 x 2.6	0.17	14,500
06.018-50-NBS-1	1/4" NPT	0.9 - 1.5	13.7	90°: 2 x 0.75	3 x M3	45°: 2 x 0.75	0.7 x 2.6	0.17	14,500
06.018-50-UBL-2	3/8" x 24UNF LH	0.9 - 1.5	9.2 / 10.6	90°: 2 x 0.75	-	45°: 2 x 0.75	0.7 x 2.6	0.17	14,500 / 22,000
06.018-50-UBLS-2	3/8" x 24UNF LH	0.9 - 1.5	13.7 / 17.7	90°: 2 x 0.75	3 x M3	45°: 2 x 0.75	0.7 x 2.6	0.17	14,500 / 22,000
06.018-50-UC-2	9/16" x 18UNF	0.9 - 1.5	9.2 / 10.6	90°: 2 x 0.75	-	45°: 2 x 0.75	0.7 x 2.6	0.17	14,500 / 22,000
06.018-50-UCL-2	9/16" x 18UNF LH	0.9 - 1.5	9.2 / 10.6	90°: 2 x 0.75	-	45°: 2 x 0.75	0.7 x 2.6	0.17	14,500 / 22,000
06.018-50-UCLS-2	9/16" x 18UNF LH	0.9 - 1.5	13.7 / 17.7	90°: 2 x 0.75	3 x M3	45°: 2 x 0.75	0.7 x 2.6	0.17	14,500 / 22,000
06.018-50-UCS-2	9/16" x 18UNF	0.9 - 1.5	13.7 / 17.7	90°: 2 x 0.75	3 x M3	45°: 2 x 0.75	0.7 x 2.6	0.17	14,500 / 22,000

UC18-70



									
06.018-70-B-2	1/4" BSPP	0.9 - 1.0	12.7 / 14.8	90°: 2 x 0.90	-	45°: 2 x 0.90	0.7 x 2.6	0.17	14,500 / 22,000
06.018-70-B5-2	1/4" BSPP	0.9 - 1.0	20.6 / 25.4	90°: 2 x 0.90	3 x M3	45°: 2 x 0.90	0.7 x 2.6	0.17	14,500 / 22,000
06.018-70-NB-1	1/4" NPT	0.9 - 1.0	12.7	90°: 2 x 0.90	-	45°: 2 x 0.90	0.7 x 2.6	0.17	14,500
06.018-70-NBS-1	1/4" NPT	0.9 - 1.0	20.6	90°: 2 x 0.90	3 x M3	45°: 2 x 0.90	0.7 x 2.6	0.17	14,500
06.018-70-UBL-2	3/8" x 24UNF LH	0.9 - 1.0	12.7 / 14.8	90°: 2 x 0.90	-	45°: 2 x 0.90	0.7 x 2.6	0.17	14,500 / 22,000
06.018-70-UBLS-2	3/8" x 24UNF LH	0.9 - 1.0	20.6 / 25.4	90°: 2 x 0.90	3 x M3	45°: 2 x 0.90	0.7 x 2.6	0.17	14,500 / 22,000
06.018-70-UC-2	9/16" x 18UNF	0.9 - 1.0	12.7 / 14.8	90°: 2 x 0.90	-	45°: 2 x 0.90	0.7 x 2.6	0.17	14,500 / 22,000
06.018-70-UCL-2	9/16" x 18UNF LH	0.9 - 1.0	12.7 / 14.8	90°: 2 x 0.90	-	45°: 2 x 0.90	0.7 x 2.6	0.17	14,500 / 22,000
06.018-70-UCLS-2	9/16" x 18UNF LH	0.9 - 1.0	20.6 / 25.4	90°: 2 x 0.90	3 x M3	45°: 2 x 0.90	0.7 x 2.6	0.17	14,500 / 22,000
06.018-70-UCS-2	9/16" x 18UNF	0.9 - 1.0	20.6 / 25.4	90°: 2 x 0.90	3 x M3	45°: 2 x 0.90	0.7 x 2.6	0.17	14,500 / 22,000

UC22



									
06.022-A-2	1/4" BSPP	1.0 - 1.1	6.6 / 7.9	90°: 2 x M4	-	45°: 2x M4	0.9 x 2.8	0.29	14,500 / 22,000
06.022-AS-2	1/4" BSPP	1.0 - 1.1	10.6 / 13.2	90°: 2 x M4	3 x M4	45°: 2 x M4	0.9 x 2.8	0.29	14,500 / 22,000
06.022-NA-1	1/4" NPT	1.0 - 1.1	6.6	90°: 2 x M4	-	45°: 2 x M4	0.9 x 2.8	0.29	14,500
06.022-NAS-1	1/4" NPT	1.0 - 1.1	10.6	90°: 2 x M4	3 x M4	45°: 2 x M4	0.9 x 2.8	0.29	14,500
06.022-NB-1	3/8" NPT	1.0 - 1.1	6.6	90°: 2 x M4	-	45°: 2 x M4	0.9 x 2.8	0.29	14,500
06.022-NBS-1	3/8" NPT	1.0 - 1.1	10.6	90°: 2 x M4	3 x M4	45°: 2 x M4	0.9 x 2.8	0.29	14,500
06.022-UB-2	9/16" x 18UNF	1.0 - 1.1	6.6 / 7.9	90°: 2 x M4	-	45°: 2 x M4	0.9 x 2.8	0.29	14,500 / 22,000
06.022-UBL-2	9/16" x 18UNF LH	1.0 - 1.1	6.6 / 7.9	90°: 2 x M4	-	45°: 2 x M4	0.9 x 2.8	0.29	14,500 / 22,000
06.022-UBLS-2	9/16" x 18UNF LH	1.0 - 1.1	10.6 / 13.2	90°: 2 x M4	3 x M4	45°: 2 x M4	0.9 x 2.8	0.29	14,500 / 22,000
06.022-UBS-2	9/16" x 18UNF	1.0 - 1.1	10.6 / 13.2	90°: 2 x M4	3 x M4	45°: 2 x M4	0.9 x 2.8	0.29	14,500 / 22,000

UC28



									
06.028-A-2	1/4" BSPP	1.4 - 1.6	6.6 / 7.9	90°: 2 x M4	-	45°: 2 x M4	1.1 x 3.3	0.46	14,500 / 22,000
06.028-AS-2	1/4" BSPP	1.4 - 1.6	10.6 / 13.2	90°: 2 x M4	3 x M4	45°: 2 x M4	1.1 x 3.3	0.46	14,500 / 22,000
06.028-B-2	3/8" BSPP	1.4 - 1.6	6.6 / 7.9	90°: 2 x M4	-	45°: 2 x M4	1.1 x 3.3	0.46	14,500 / 22,000
06.028-BS-2	3/8" BSPP	1.4 - 1.6	10.6 / 13.2	90°: 2 x M4	3 x M4	45°: 2 x M4	1.1 x 3.3	0.46	14,500 / 22,000
06.028-NB-1	3/8" NPT	1.4 - 1.6	6.6	90°: 2 x M4	-	45°: 2 x M4	1.1 x 3.3	0.46	14,500
06.028-NBS-1	3/8" NPT	1.4 - 1.6	10.6	90°: 2 x M4	3 x M4	45°: 2 x M4	1.1 x 3.3	0.46	14,500

									
06.028-UB-2	9/16" x 18UNF	1.4 - 1.6	6.6 / 7.9	90°: 2 x M4	-	45°: 2 x M4	1.1 x 3.3	0.46	14,500 / 22,000
06.028-UBL-2	9/16" x 18UNF LH	1.4 - 1.6	6.6 / 7.9	90°: 2 x M4	-	45°: 2 x M4	1.1 x 3.3	0.46	14,500 / 22,000
06.028-UBLS-2	9/16" x 18UNF LH	1.4 - 1.6	10.6 / 13.2	90°: 2 x M4	3 x M4	45°: 2 x M4	1.1 x 3.3	0.46	14,500 / 22,000
06.028-UBS-2	9/16" x 18UNF	1.4 - 1.6	10.6 / 13.2	90°: 2 x M4	3 x M4	45°: 2 x M4	1.1 x 3.3	0.46	14,500 / 22,000

UC nozzles 43'000 psi

enz® UC13-3 nozzle cleans tubes – e.g. industrial heat exchangers and pipework. An intelligently short design means the same nozzle cleans both straight and tubes with bends and works at pressures up to 3000 bar (>43kpsi).

Its strength is enz cross jet technology making it excellent at unplugging. Add enz interchangeable sapphire inserts that convert pump power to water jets with greater water density (i.e. best at penetrating coatings); plus enz water brake that controls nozzle rotation and you're guaranteed highest surface impact and best cleaning.

Application:

- unblock hard, tough deposits of polymer, mineral, salts, or carbonized scales and residues
- polish to permit inspection, e.g. IRIS – or simple universal cleaning
- for manual or automated tube cleaning – single or multi-lance



UC13-43K psi



									
06.013-UAL-3	1/4"-28 UNF LH	0.6 - 0.8	4.5 / 7.9	90°: 2 x M2.5	-	45°: 2 x M2.5	0.5 x 2.1	0.1	43,000
06.013-UALS-3	1/4"-28 UNF LH	0.6 - 1.0	5.3	90°: 2 x M2.5	3 x M2.5	45°: 2 x M2.5	0.5 x 2.1	0.1	43,000
06.013-UBL-3	3/8"-24 UNF LH	0.6 - 0.8	4.5 / 7.9	90°: 2 x M2.5	-	45°: 2 x M2.5	0.5 x 2.1	0.1	43,000
06.013-UBLS-3	3/8"-24 UNF LH	0.6 - 1.0	5.3	90°: 2 x M2.5	3 x M2.5	45°: 2 x M2.5	0.5 x 2.1	0.1	43,000

URX nozzles

enz® URX nozzles are designed for customers seeking best clean and polish of the inside of smaller pipes and tubes, e.g. in heat exchangers. You can clean the tubes up to 2500 bar (36,000 psi). Two 90° jets and option front jet can clean the hardest of deposits. Constructed around enz® magnetic-brake and "low-leakage" design, rotation speed is controlled at a constant speed, this nozzle can remove more scale material faster and to highest standards.



URX19



								
525.019A	9/16" UNF LH	0.9 - 1.3	7	2 x M3	*	0.8 x 3.2	0.31	36,000
525.019B	M14 x 1.5 LH	0.9 - 1.3	7	2 x M3	*	0.8 x 3.2	0.31	36,000

UR nozzles

enz® UR nozzles are used to clean and in particular to polish the inside of smaller pipes and tubes, e.g. in heat exchangers. The enz® water-brake makes them spin at a constant speed. You can clean the tubes up to 1500 bar (22,000 psi). The 90° and 45° jets clean the hardest of deposits while pulling the nozzle into the tube and flushing the debris out.



UR6

							
05.006-12-m-1	M5	0.3 - 0.5	3.2	45°: 2 x 0.45, 90°: 2 x 0.45	0.2 x 1.7	0.02	14,500

UR8

							
05.008-14-M-1	M5	0.4 - 0.5	3.7	45°: 2 x 0.45, 90°: 2 x 0.45	*	0.3 x 1.7	14,500

UR10

							
05.010-20-M-2	M7	0.5 - 0.6	5.3	45°: 2 x 0.45, 90°: 2 x 0.45	0.4 x 1.0	0.02	22,000
05.010-20-N-1	1/16" NPT	0.5 - 0.6	4.7	45°: 2 x 0.45, 90°: 2 x 0.45	0.4 x 1.0	0.02	14,500
05.010-20-U-2	1/4" UNF	0.5 - 0.6	5.3	45°: 2 x 0.45, 90°: 2 x 0.45	0.4 x 1.0	0.02	22,000
05.010-30-M-2	M7	0.5 - 0.6	7.9	45°: 2 x 0.55, 90°: 2 x 0.50	0.4 x 1.0	0.02	22,000
05.010-30-N-1	1/16" NPT	0.5 - 0.6	6.6	45°: 2 x 0.55, 90°: 2 x 0.50	0.4 x 1.0	0.02	14,500

							
05.010-30-U-2	1/4" UNF	0.5 - 0.6	7.9	45°: 2 x 0.55, 90°: 2 x 0.50	0.4 x 1.0	0.02	22,000
05.010-40-M-2	M7	0.5 - 0.6	10.6	45°: 2 x 0.65, 90°: 2 x 0.60	0.4 x 1.0	0.02	22,000
05.010-40-N-1	1/16" NPT	0.5 - 0.6	8.7	45°: 2 x 0.65, 90°: 2 x 0.60	0.4 x 1.0	0.02	14,500
05.010-40-U-2	1/4" x UNF	0.5 - 0.6	10.5	45°: 2 x 0.65, 90°: 2 x 0.60	0.4 x 1.0	0.02	22,000

UR 10 Long

							
05.010-20-LM-2	M7	0.5 - 0.6	5.3	45°: 2 x 0.45, 90°: 2 x 0.45	0.4 x 1.3	0.03	22,000
05.010-20-LN-1	1/16" NPT	0.5 - 0.6	4.8	45°: 2 x 0.45, 90°: 2 x 0.45	0.4 x 1.3	0.03	14,500
05.010-20-LU-2	1/4" UNF	0.5 - 0.6	5.3	45°: 2 x 0.45, 90°: 2 x 0.45	0.4 x 1.3	0.03	22,000
05.010-30-LM-2	M7	0.5 - 0.6	7.9	45°: 2 x 0.55, 90°: 2 x 0.50	0.4 x 1.3	0.03	22,000
05.010-30-LN-1	1/16" NPT	0.5 - 0.6	6.6	45°: 2 x 0.55, 90°: 2 x 0.50	0.4 x 1.3	0.03	14,500
05.010-30-LU-2	1/4" UNF	0.5 - 0.6	7.9	45°: 2 x 0.55, 90°: 2 x 0.50	0.4 x 1.3	0.03	22,000
05.010-40-LM-2	M7	0.5 - 0.6	10.6	45°: 2 x 0.65, 90°: 2 x 0.60	0.4 x 1.3	0.03	22,000
05.010-40-LN-1	1/16" NPT	0.5 - 0.6	8.7	45°: 2 x 0.65, 90°: 2 x 0.60	0.4 x 1.3	0.03	14,500
05.010-40-LU-2	1/4" UNF	0.5 - 0.6	10.5	45°: 2 x 0.65, 90°: 2 x 0.60	0.4 x 1.3	0.03	22,000

UR13

							
05.013-20-2	1/8" BSPP	0.6 - 0.8	5.3	45°: 2 x 0.45, 90°: 2 x 0.45	0.5 x 1.2	0.4	22,000
05.013-20-N-1	1/8" NPT	0.6 - 0.8	4.8	45°: 2 x 0.45, 90°: 2 x 0.45	0.5 x 1.2	0.04	14,500
05.013-20-UB-2	3/8" UNF	0.6 - 0.8	5.3	45°: 2 x 0.45, 90°: 2 x 0.45	0.5 x 1.2	0.04	22,000
05.013-30-2	1/8" BSPP	0.6 - 0.8	7.9	45°: 2 x 0.55, 90°: 2 x 0.50	0.5 x 1.2	0.04	22,000
05.013-30-N-1	1/8" NPT	0.6 - 0.8	6.6	45°: 2 x 0.55, 90°: 2 x 0.50	0.5 x 1.2	0.04	14,500
05.013-30-UB-2	3/8" UNF	0.6 - 0.8	7.9	45°: 2 x 0.55, 90°: 2 x 0.50	0.5 x 1.2	0.04	22,000
05.013-40-2	1/8" BSPP	0.6 - 0.8	10.6	45°: 2 x 0.65, 90°: 2 x 0.60	0.5 x 1.2	0.04	22,000
05.013-40-N-1	1/8" NPT	0.6 - 0.8	8.7	45°: 2 x 0.65, 90°: 2 x 0.60	0.5 x 1.2	0.04	14,500
05.013-40-UB-2	3/8" UNF	0.6 - 0.8	10.6	45°: 2 x 0.65, 90°: 2 x 0.60	0.5 x 1.2	0.04	22,000

UR 13 Long

							
05.013-20-L-2	1/8" BSPP	5.3	5.3	45°: 2 x 0.45, 90°: 2 x 0.45	0.5 x 1.6	0.07	22,000
05.013-20-LN-1	1/8" NPT	0.6 - 0.8	4.8	45°: 2 x 0.45, 90°: 2 x 0.45	0.5 x 1.6	0.07	14,500
05.013-20-LUB-2	3/8" UNF	0.6 - 0.8	5.3	45°: 2 x 0.45, 90°: 2 x 0.45	0.5 x 1.6	0.07	22,000
05.013-30-L-2	1/8" BSPP	0.6 - 0.8	7.9	45°: 2 x 0.55, 90°: 2 x 0.50	0.5 x 1.6	0.07	22,000

							
05.013-30-LN-1	1/8" NPT	0.6 - 0.8	6.6	45°: 2 x 0.55, 90°: 2 x 0.50	0.5 x 1.6	0.07	14,500
05.013-30-LUB-2	3/8" UNF	0.6 - 0.8	7.9	45°: 2 x 0.55, 90°: 2 x 0.50	0.5 x 1.6	0.07	22,000
05.013-40-L-2	1/8" BSPP	0.6 - 0.8	10.6	45°: 2 x 0.65, 90°: 2 x 0.60	0.5 x 1.6	0.07	22,000
05.013-40-LN-1	1/8" NPT	0.6 - 0.8	8.7	45°: 2 x 0.65, 90°: 2 x 0.60	0.5 x 1.6	0.07	14,500
05.013-40-LUB-2	3/8" UNF	0.6 - 0.8	10.6	45°: 2 x 0.65, 90°: 2 x 0.60	0.5 x 1.6	0.07	22,000

UR17



								
05.017-30-B-2	1/4" BSPP	0.7 - 1	7.9	45°: 2 x 0.50, 90°: 2 x 0.50	*	0.7 x 1.5	0.1	22,000
05.017-30-NB-1	1/4" NPT	0.7 - 1	6.6	45°: 2 x 0.50, 90°: 2 x 0.50	*	0.7 x 1.5	0.1	14,500
05.017-30-UC-2	9/16" UNF	0.7 - 1	7.9	45°: 2 x 0.50, 90°: 2 x 0.50	*	0.7 x 1.5	0.1	22,000
05.017-50-B-2	1/4" BSPP	0.7 - 1	13.2	45°: 2 x 0.70, 90°: 2 x 0.65	*	0.7 x 1.5	0.1	22,000
05.017-50-NB-1	1/4" NPT	0.7 - 1	10.6	45°: 2 x 0.70, 90°: 2 x 0.65	*	0.7 x 1.5	0.1	14,500
05.017-50-UC-2	9/16" UNF	0.7 - 1	13.2	45°: 2 x 0.70, 90°: 2 x 0.65	*	0.7 x 1.5	0.1	22,000

UR 17 Long



								
05.017-30-LB-2	1/4" BSPP	0.7 - 1	7.9	45°: 2 x 0.50, 90°: 2 x 0.50	*	0.7 x 2.0	0.2	22,000

								
05.017-30-LNB-1	1/4" NPT	0.7 - 1	6.6	45°: 2 x 0.50, 90°: 2 x 0.50	*	0.7 x 2.0	0.2	14,500
05.017-30-LUC-2	9/16" UNF	0.7 - 1	7.9	45°: 2 x 0.50, 90°: 2 x 0.50	*	0.7 x 2.0	0.15	22,000
05.017-50-LB-2	1/4" BSPP	0.7 - 1	13.2	45°: 2 x 0.70, 90°: 2 x 0.65	*	0.7 x 2.0	0.2	22,000
05.017-50-LNB-1	1/4" NPT	0.7 - 1	10.6	45°: 2 x 0.70, 90°: 2 x 0.65	*	0.7 x 2.0	0.2	14,500
05.017-50-LUC-2	9/16" UNF	0.7 - 1	13.2	45°: 2 x 0.70, 90°: 2 x 0.65	*	0.7 x 2.0	0.2	22,000

UR 22

								
05.022-A-2	1/4" BSPP	1 - 1.3	6.1	45°: 2 x M4, 80°: 2 x M4	*	0.9 x 1.9	0.2	22,000
05.022-NB-1	3/8" NPT	1 - 1.3	4.5	45°: 2 x M4, 80°: 2 x M4	*	0.9 x 1.9	0.2	14,500
05.022-UB-2	9/16" UNF	1 - 1.3	6.1	45°: 2 x M4, 80°: 2 x M4	*	0.9 x 1.9	0.2	22,000

UR 22 Long

								
05.022-LA-2	1/4" BSPP	1 - 1.3	6.1	45°: 2 x M4, 80°: 2 x M4	*	0.9 x 2.5	0.4	22,000
05.022-LNB-1	3/8" NPT	1 - 1.3	4.5	45°: 2 x M4, 80°: 2 x M4	*	0.9 x 2.5	0.4	14,500
05.022-LUB-2	9/16" UNF	1 - 1.3	6.1	45°: 2 x M4, 80°: 2 x M4	*	0.9 x 2.5	0.4	22,000

UR 28



								
05.028-A-2	1/4" BSPP	1.2 - 1.7	7.9	45°: 2 x M4, 90°: 2 x M4	*	1.1 x 2.2	0.4	22,000
05.028-NB-1	3/8" NPT	1.2 - 1.7	6.6	45°: 2 x M4, 90°: 2 x M4	*	1.1 x 2.2	0.4	14,500
05.028-UB-2	9/16" UNF	1.2 - 1.7	7.9	45°: 2 x M4, 90°: 2 x M4	*	1.1 x 2.2	0.4	22,000

Bulldog 37

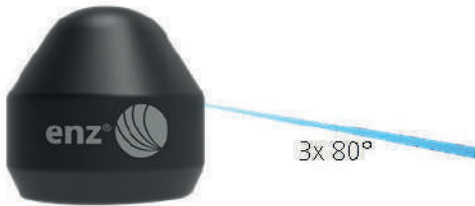
The enz® Bulldog® 1000 bar rotating nozzle is specially designed for internal pipe cleaning up to 1000 bar. It is suitable for removing even the most stubborn deposits from the pipe walls. Thanks to its clever bearing system, the Bulldog® is virtually leak-free, resulting in higher efficiency. In addition, the forward-facing cross-jet cuts out the material from the blocked pipe like a milling cutter.

Applications

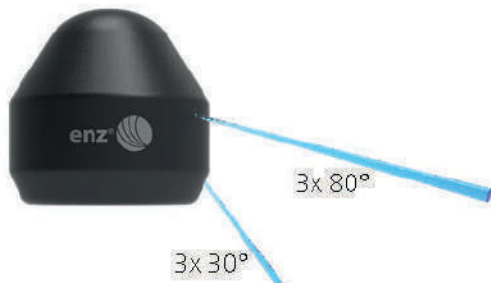
- Cleaning of heat exchangers in chemical and nuclear plants
- General industrial cleaning
- All in one nozzle: unplugging, polisher, universal



50x.0xx



501.xx



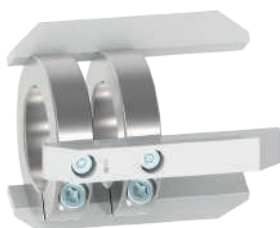
504.xx



506.xx

Bulldog 37

								
504.037	M24 x 1.5	1.6 - 3.9	6.1	45°: 3 x M6, 75°: 3 x M6	-	1.5 x 5.6	1.10	14,500
504.037N	1/2" NPT	1.6 - 3.9	6.1	45°: 3 x M6, 75°: 3 x M6	-	1.5 x 5.6	1.10	14,500
506.037	M24 x 1.5	1.6 - 3.9	7.1	45°: 3 x M6, 75°: 3 x M6	2 x M4	1.5 x 5.6	1.10	14,500
506.037N	1/2" NPT	1.6 - 3.9	7.1	45°: 3 x M6, 75°: 3 x M6	2 x M4	1.5 x 5.6	1.10	14,500

Accessory and wearing parts Bulldog 37

				
00500.0375	 Head Bulldog 37		1.2 x 1.2	0.26
500.037100	 Cage for Bulldog 37	3.9 - 9.8	3.0 x 3.5	0.800

Bulldog 60

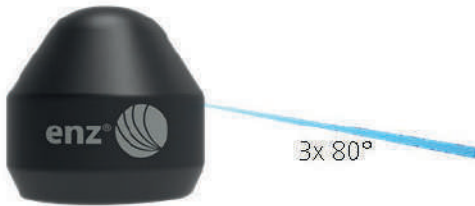
The enz® Bulldog® 1000 bar rotating nozzle is specially designed for internal pipe cleaning up to 1000 bar. It is suitable for removing even the most stubborn deposits from the pipe walls. Thanks to its clever bearing system, the Bulldog® is virtually leak-free, resulting in higher efficiency. In addition, the forward-facing cross-jet cuts out the material from the blocked pipe like a milling cutter.

Applications

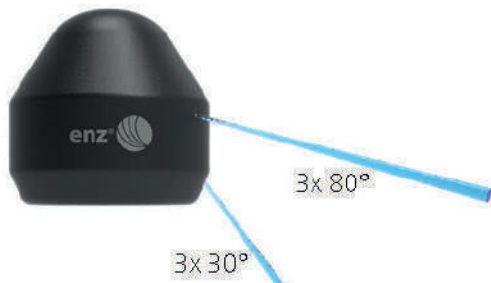
- Cleaning of heat exchangers in chemical and nuclear plants
- General industrial cleaning
- All in one nozzle: unplugging, polisher, universal



50x.0xx



501.xx



504.xx



506.xx

Bulldog® 60

									
501.060	M24 x 1.5	3 - 6	10.6	80°: 6 x M6	-	-	2.4 x 7.3	5.3	14,500
501.060N	1/2" NPT	3 - 6	10.6	80°: 6 x M6	-	-	2.4 x 7.3	5.31	14,500
504.060	M24 x 1.5	3 - 6	12.2	80°: 3 x M6, 45: 3 x M6	-	-	2.4 x 7.3	5.31	14,500
504.060N	1/2" NPT	3 - 6	12.2	80°: 3 x M6, 45: 3 x M6	-	-	2.4 x 7.3	5.31	14,500
506.060	M24 x 1.5	3 - 6	13.2	80°: 3 x M6, 45: 3 x M6	-	2 x M6	2.4 x 7.3	5.31	14,500
506.060N	1/2" NPT	3 - 6	13.2	80°: 3 x M6, 45: 3 x M6	-	2 x M6	2.4 x 7.3	5.31	14,500

Accessory and wearing parts Bulldog® 60

				
00500.0608N	 Thrust part	M24 x 1.5, 1/2" NPT	6 x M6	1.5 x 2.5
00500.06051	 Head universal Bulldog 60			2.0 x 1.7
500.060101	 Cage for Bulldog 2.4"			5.3 x 5.5

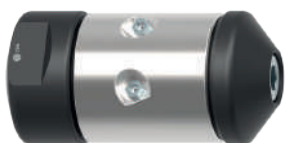
RGS, HRH, KBR, KBRV

The maximum power rotating nozzles enz® are most efficient in cleaning the inside wall of pipes with a pressure up to 1000 bar. They are most appropriate to remove harder deposits from the pipe walls and are for tube and pipe cleaning.

Applications

- Cleaning of heat exchangers in chemical and nuclear plants and for general industrial pipe cleaning



RGS nozzles

							
05.0401	M24 x 1.5	1.7 - 2.1	11	75°: 4 x M6	1.6 x 4.2	1.54	14,500
05.0501	M24 x 1.5	2.1 - 3	11	75°: 4 x M6	2.0 x 4.8	2.76	14,500

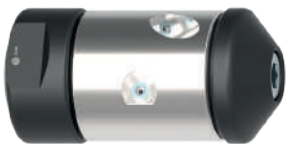
HRH nozzles

							
05.0402	M24 x 1.5	1.7 - 2.1	11	45°: 4 x M6	1.6 x 4.2	1.54	14,500
05.0502	M24 x 1.5	2.1 - 3	11	45°: 4 x M6	2.0 x 4.8	2.76	14,500

KBR nozzles

							
05.0404	M24 x 1.5	1.7 - 2.1	11	45°: 2 x M6, 90°: 2 x M6	1.6 x 4.2	1.54	14,500
05.0504	M24 x 1.5	2.1 - 3	11	45°: 2 x M6, 90°: 2 x M6	2.0 x 4.8	2.77	14,500

KBRV nozzles



							
05.0405	M24 x 1.5	1.7 - 2.1	11	4 x M6	1.6 x 4.2	1.54	14,500
05.0505	M24 x 1.5	2.1 - 3	11	4 x M6	2.0 x 4.8	2.77	14,500

UB360

The enz® UB360® is specially designed for internal pipe cleaning up to 1000 bar. Thanks to its clever bearing system, like the Bulldog®, it's virtually leak-free, resulting in highest cleaning efficiency. It's intelligent, robust, extending frame is suitable for removing even the most stubborn deposits from pipe walls of 300mm (12") up to in excess 1200mm (48") diameter.

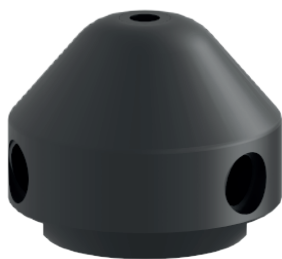


UB360



							
505.060	M24 x 1.5	11.8 - 43.3	10.6	6 / 3 x M8	11.8 x 39.5	35.27	14,500

Accessory and wearing parts UB360



									
00500.0605012		Propeller head RGS 11.5mm Bulldog 60			37				14,500
00500.0605007		Propeller head RGS 7mm Bulldog 60			21.1				14,500
00500.0605003		Propeller head RGS 3mm Bulldog 60			11				14,500
C360		Pulling eye M10							
00500.060		Swivel 60	M24 x 1.5	3 - 6	11	6 x M6	2.4 x 7.3	5.3	14,500
500.060300P		Scissors skid with polyurethane wheels	M24 x 1.5	12 - 43			12 - 43 x 30	24.7	15,000
500.060300JP		Scissors skid with polyurethane wheels	M24 x 1.5	12 - 43			12 - 43 x 30	23.8	15,000
500.060300S		Scissors skid with steel wheels	M24 x 1.5	12 - 43			12 - 43 x 30	23.3	15,000

								
500.060300JS		Scissors skid with steel wheels	M24 x 1.5	12 - 43		12 - 43 x 30	22.5	15,000
500.060300J		Scissors skid with hand lever	M24 x 1.5	12 - 43		12 - 43 x 30	21.1	15,000
500.06009050		Set propeller tube 2"		5.5 - 12				15,000
500.06009120		Set propeller tube 4.7"		12 - 18				15,000
500.06009200		Set propeller tube 7.8"		18 - 26				15,000
500.06009300		Set propeller tube 11.8"		26 - 34				15,000
500.06009400		Set propeller tube 15.7"		34 - 47				15,000

SC1500

The SC1500 is nozzle to clean and prepare surfaces. Due to the sapphire inserts with the flow straightener and the water break it has a very high water jet density. It can be run with little flow with two or four inserts up to 1500 bar | 22kpsi. The front cover helps to extend the lifetime of the nozzle.



Surface cleaner



						
18.040-B-2	3/8" BSPP	3.4	2 / 4 x M10	2.0 x 4.2	1.9	22,000
18.040-C-2	1/2"	3.4	2 / 4 x M10	2.0 x 4.2	1.9	22,000
18.040-MB-2	M26 x 1.5	3.4	2 / 4 x M10	2.0 x 4.2	1.9	22,000
18.040-NB-1	3/8" NPT	2.6	2 / 4 x M10	2.0 x 4.2	1.9	14,500
18.040-UBL-2	9/16" UNF LH	3.4	2 / 4 x M10	2.0 x 4.2	1.9	22,000

Surface cleaner accessories



		
0018.0405-2		Protection case SC 1500 black
584.08		Copper washer Ø8.4x16
584.0814		Copper washer Ø8.2x14
66.18040-xx-2		Shoc protection kit

MJ

The rotating enz® nozzle for cleaning surfaces is remarkable for its high efficiency. It outperforms conventional flat jet or round jet nozzles with a large margin.

Applications

- To remove deposits of concrete-slurry, cleaning of store fronts, steps, walls, traffic signboards etc.

Additional info

- Other thread types are available on request.
- The MJ4ST can accommodate water temperatures of up to 150°C.



MJ6

							
550.06001	3/8" BSPP	1.45	0.6 - 2.8	30°	1.7 x 4.3	1.10	7,500
550.06002	3/8" NPT	1.45	0.6 - 2.8	30°	1.7 x 4.3	1.10	7,500
550.06003	1/2" BSPP	1.45	0.6 - 2.8	30°	1.7 x 4.3	1.10	7,500
550.06004	1/2" NPT	1.45	0.6 - 2.8	30°	1.7 x 4.3	1.10	7,500
550.06005	1/4" BSPP	1.45	0.6 - 2.8	30°	1.7 x 4.3	1.10	7,500
550.06011	9/16" x 18 UNF LH	1.45	0.6 - 2.8	30°	1.7 x 4.3	1.10	7,500
550.06012	M24 x 1.5 LH	1.45	0.6 - 2.8	30°	1.7 x 4.3	1.10	7,500
550.06015	M26 x 1.5	1.45	0.6 - 2.8	30°	1.7 x 4.3	1.10	7,500

MJ4

							
550.04001	3/8" BSPP	1.45	0.6 - 2.8	22°	1.7 x 4.3	1.10	7,500
550.04002	3/8" NPT	1.45	0.6 - 2.8	22°	1.7 x 4.3	1.10	7,500
550.04003	1/2" BSPP	1.45	0.6 - 2.8	22°	1.7 x 4.3	1.10	7,500
550.04004	1/2" NPT	1.45	0.6 - 2.8	22°	1.7 x 4.3	1.10	7,500
550.04005	1/4" BSPP	1.45	0.6 - 2.8	22°	1.7 x 4.3	1.10	7,500
550.04011	9/16" x 18 UNF LH	1.45	0.6 - 2.8	22°	1.7 x 4.3	1.10	7,500
550.04012	M14 x 1.5 LH	1.45	0.6 - 2.8	22°	1.7 x 4.3	1.10	7,500
550.04015	M26 x 1.5	1.45	0.6 - 2.8	22°	1.7 x 4.3	1.10	7,500

MJ4ST

							
550.04001ST	3/8" BSPP	1.45	0.6 - 2.8	22°	1.7 x 4.3	1.10	7,500
550.04002ST	3/8" NPT	1.45	0.6 - 2.8	22°	1.7 x 4.3	1.10	7,500
550.04003ST	1/2" BSPP	1.45	0.6 - 2.8	22°	1.7 x 4.3	1.10	7,500

							
550.04004ST	1/2" NPT	1.45	0.6 - 2.8	22°	1.7 x 4.3	1.10	7,500
550.04005ST	1/4" BSPP	1.45	0.6 - 2.8	22°	1.7 x 4.3	1.10	7,500

MJ3



							
550.03001	3/8" BSPP	1.72	0.6 - 2.8	20°	1.7 x 4.3	1.46	11,500
550.03002	3/8" NPT	1.72	0.6 - 2.8	20°	1.7 x 4.3	1.46	11,500
550.03003	1/2" BSPP	1.72	0.6 - 2.8	20°	1.7 x 4.3	1.46	11,500
550.03004	1/2" NPT	1.72	0.6 - 2.8	20°	1.7 x 4.3	1.46	11,500
550.03005	1/4" BSPP	1.72	0.6 - 2.8	20°	1.7 x 4.3	1.46	11,500
550.03011	9/16" x 18 UNF LH	1.72	0.6 - 2.8	20°	1.7 x 4.3	1.46	11,500
550.03012	M14 x 1.5 LH	1.72	0.6 - 2.8	20°	1.7 x 4.3	1.46	11,500
550.03013	M24 x 1.5 RH	1.72	0.6 - 2.8	20°	1.7 x 4.3	1.46	11,500
550.03017	M26 x 1.5	1.72	0.6 - 2.8	20°	1.7 x 4.3	1.46	11,500

MJ2



							
550.02001	9/16" x 18 UNF LH	1.98	0.6 - 2.8	20°	1.9 x 5.2	2.76	15,000
550.02002	M14 x 1.5 LH	1.98	0.6 - 2.8	20°	1.9 x 5.2	2.76	15,000
550.02007	3/8" BSPP	1.98	0.6 - 2.8	20°	1.9 x 5.2	2.76	15,000
550.02008	3/8" NPT	1.98	0.6 - 2.8	20°	1.9 x 5.2	2.76	15,000
550.02009	1/2" BSPP	1.98	0.6 - 2.8	20°	1.9 x 5.2	2.76	15,000
550.02010	1/2" NPT	1.98	0.6 - 2.8	20°	1.9 x 5.2	2.76	15,000
550.02011	1/4" BSPP	1.98	0.6 - 2.8	20°	1.9 x 5.2	2.76	15,000

MJ1



							
550.01001	9/16" x 18 UNF LH	2.38	0.6 - 2.8	20°	1.9 x 5.2	2.76	22,000
550.01002	M14 x 1.5 LH	2.38	0.6 - 2.8	20°	1.9 x 5.2	2.76	22,000
550.01003	M24 x 1.5 LH	2.38	0.6 - 2.8	20°	1.9 x 5.2	2.76	22,000
550.01007	M26 x 1.5	2.38	0.6 - 2.8	20°	1.9 x 5.2	2.76	22,000

MJ25



							
550.25001	9/16" - 18 UNF LH	3.04	0.6 - 2.8	20°	1.9 x 5.2	2.86	36,000
550.25002	M14 x 1.5 LH	3.04	0.6 - 2.8	20°	1.9 x 5.2	2.86	36,000
550.25005	M26 x 1.5	3.04	0.6 - 2.8	20°	1.9 x 5.2	2.86	36,000

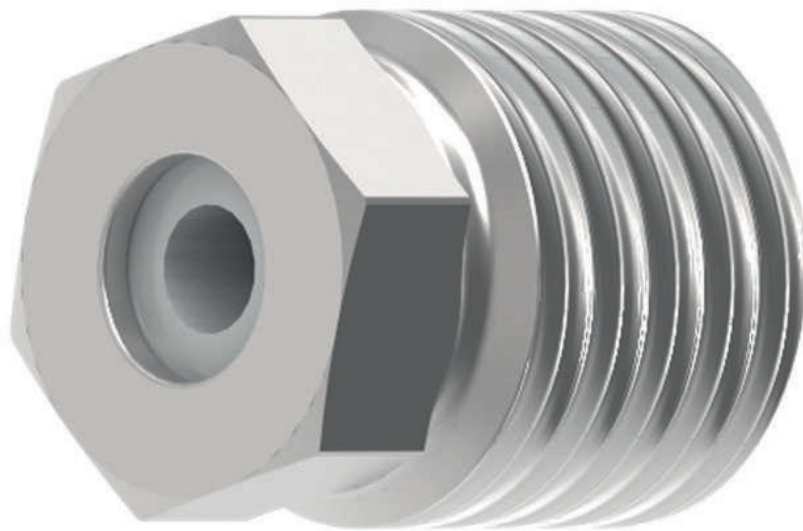
Accessory and wearing parts MJ nozzles



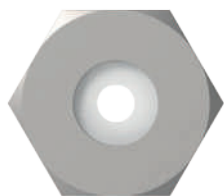
			
550.99007		Repair Kit for MJ 4 + MJ 6	0.044
550.99007ST		Repair Kit for MJ 4 ST	0.044
550.99006		Repair Kit for MJ 1, MJ2, MJ 3 + MJ 25	0.044

ceramic nozzle inserts

These stainless steel ceramic inserts with flow straightener provide a very compact and aggressive water jet. The integrated jet stabilizer ensures a concentrated and powerful water jet density. The service life of a JetMax ceramic insert is much longer than that of hardened steel nozzles or other drilled inserts. Ceramic inserts are particularly suitable for use with recycled water.



Round jet



					
22.025		Ceramic insert Ø 0.4 - 0.16 inch	G 1/4"	0.022	7,250
22.04		Ceramic insert Ø 0,01 - 0,06 inch	M4	0.022	22,000
22.06		Ceramic insert Ø 0,01 - 0.2 inch	M6	0.022	14,500
22.08		Ceramic insert Ø 0,04 - 0.13 inch	M8	0.022	22,000
22.10		Ceramic insert Ø 0,04 - 0,15 inch	M10 x 1	0.022	22,000

Fan jet



						
22.025F		Ceramic insert fan jet	G 1/4"	30°	0.033	7,250
22.08F		Ceramic insert fan jet	M8	30°	0.022	7,250
22.10F		Ceramic insert fan jet	M10 x 1	30°	0.022	7,250

Sapphire nozzle inserts

These stainless steel sapphire inserts stand out from the competition and outperform other materials such as ceramic or steel. This is thanks to a very compact and aggressive water jet. The integrated jet stabilizer ensures a concentrated and powerful water jet density. The service life of a sapphire insert is much longer than that of hardened steel nozzles or other drilled inserts. Sapphire inserts are used primarily in the clean-water jetting industry. Sapphire inserts are less suitable for dirty water (recycled water).



Sapphire nozzle inserts



						 max
23.10ST		Sapphire Insert Ø 0.25 - 1.3 mm	M10	0.4 x 0.75	0.015	44,000

Steel nozzle inserts

These steel inserts stand out from the competition. These inserts have an excellent price-performance ratio. They are more durable than sapphire inserts, but they have a shorter service life. Unlike ceramic inserts, they are not suitable for use with recycled water. We commonly see them in the water jetting industry and recommend them for use in this industry, particularly with clean water.



Steel nozzle inserts



				
22S03		Steel inserts, hardened, M3 Ø 0.3 - 1.2 mm	0.028	44,000
22S04		Steel inserts, hardened, M4 Ø 0.3 - 1.2 mm	0.028	44,000

Hose protection

enz® hose protection provides optimum protection for the hose's rubber or plastic coating against environmental influences.



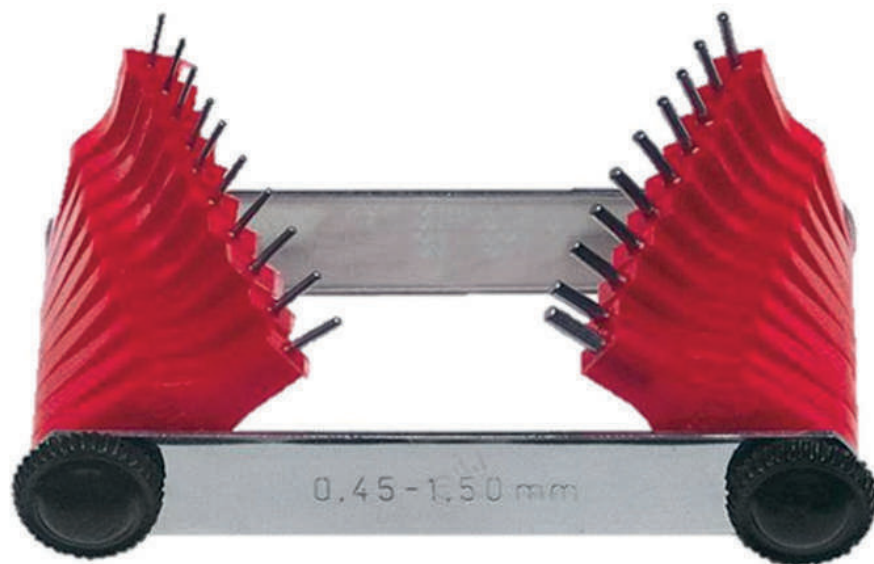
Hose protection



					
91M		Steel-Banane small	5.1+	11.81 x 14.57	5.6
91		Steel-Banane middle	6.7+	13.78 x 17.72	9.46
91A		Steel-Banane big	6.7+	23.62 x 26.38	11.88
91.05B		Flex guide for hoses with fix hanger	6.7+	18.23 x 5.2 x 8.98	15.43
91.07B		Flex guide for hoses with fix hanger	6.7+	22.8 x 5.2 x 10	20.28
91.05M		Flex guide	4.3+	3.15 x 11.81	4.28
91.05		Flex guide for hoses with brackets	8.3+	18.23 x 5.2 x 8.98	15.43
91.07		Flex guide for hoses with brackets	8.3+	22.8 x 5.2 x 10	20.28
92		High vac. protective plastic hose	5.9+	3.1#4.0 x 35.5	5.5
92A		High vac. protective plastic hose	3.5+	2.0#2.5 x 35.5	3.0

Maintenance

Regular maintenance and cleaning the nozzles daily prevents interruptions in operations and extends the service life of the nozzles. enz® sells various tools and products that come in handy when doing so. Reamers should never be used for cleaning.



Maintenance tools & nozzle care



			
C101		Socket wrench 0.2 inch	0.11
C149		Socket wrench 0.2 inch	0.15
C261		Socket wrench 3.5 mm	0.11
C260		Socket wrench Futuro 0.28 inch	0.15
C104		Socket wrench 0.2 inch	0.15
C131		Socket wrench cross handle 0.4 inch	0.05
C160		Socket wrench cross handle 0.3 inch	0.11
C205		Nozzle Maintenance Set	0.96
C200		Nozzle gauge	0.66
C201		Nozzle gauge	0.44
C202		Set Nozzle Cleaning-Tool	0.06
C191		Oil Spray Bio, 500 ml	1.1
C109		Loctite 638 - 50 ml / 1.69 oz	0.15
C192		Loctite 243 - 50 ml / 1.69 oz	0.15
C227		Loctite 270 - 50 ml / 1.69 oz	0.15



1585 Beverly Ct. - Unit 115, Aurora, IL 60502 - Phone 630-692-7880 / Fax 630-692-7885

Date: _____

Ship: _____

Purchase Order: _____

Ordered by: _____

Bill to Company: _____

Ship to Company: _____

All merchandise returned due to customer error or without proper authorization will be subject to a 15% re-stocking fee.

Qty.	Item Number	Flowrate GPM	Pump Pressure PSI	Hose		Hose Length Feet	Hose Dia. Inch	Connecting Thread	Remarks	List Price Each	Qty. Price
				Rubber	Plastic						
									Total Item Amount =		
									Total Minus Discount =		
All requests must have the GPM's, PSI, hose type and hose length for the order to be complete.											

Date:



1585 Beverly Ct. - Unit 115, Aurora, IL 60502 - Phone 630-692-7880 / Fax 630-692-7885

Date: _____

Ship: _____

Purchase Order: _____

Ordered by: _____

Bill to Company: _____

Ship to Company: _____

All merchandise returned due to customer error or without proper authorization will be subject to a 15% re-stocking fee.

[illegible]

Date:

enz[®] usa inc.
1585 Beverly Ct.
Unit 115
Aurora, IL 60502
Phone 630-692-7880
Fax 630-692-7885
salesusa@enz.com
www.enz.com

