

2026/27



Legend



Connecting thread (inch)



Application range (inch)



min. G/Min. at 1,450 psi | min. G/Min. at
14,500/22,000 psi



Rotating jet



Thrust jet



Front jet



Jet angle backward



Jet angle forward



Dimensions (inch)



Manual use



Automatic use



Weight (lb.)



Recycling



Maximum pressure (psi)

Milling cutters without impact

These enz® rotating cutters work without impacts. The cutter heads are equipped with hard metal plates, which are able to remove the most any kind of deposits. Their field of application is versatile. Layers of mineral deposits, concrete or concrete sludges can be milled out with them as well as roots and wood.

Applications

- Removal of concrete or concrete sludges
- Removal of layers of mineral deposits
- Removal of roots and wood



Cutters without impact 1/4"



								
13.028N	1/4" NPT	1.2	5	3 x M4	3 x M4	1.1 x 3.2	0.6	5,000

Cutters without impact 1/2" - 1"



										
13.040TR	1/2"	1.7 - 2.4	8	2 x M6	4 x M6	-	1.6 x 4.3	1.65	ok	3,600
13.060TR	1"	2.4 - 3.1	13	2 x M6	4 x M8	-	2.4 x 5.1	4.40	ok	3,600

Accessory and wearing parts cutters without impact



					
09.420050F		Tool Case for CB50 + 13.040TR		10.04 x 8.07 x 2.36	1.32
0013.0605TR		Milling Cutter Head 2.4"	2 - 3		1.43
0013.0405TR		Milling Cutter Head complete for 1.6"	2 - 2		0.66
0013.0404TR-48		Wear resistant ring for Milling Cutter 40 mm			0.15
0013.0407TR-48		Wear ring for milling cutter 40 mm			0.23
0013.0604TR-68		Wear resistant ring milling cutter 60 mm			0.28

			
0013.0607TR-68			0.28
16.16Z			0.06
16.19Z			0.06
0013.0606TR			0.022
FS242			
FS1010			
C20			

Cutting balls

The enz® cutting ball operates without impact but features an optional vibration function (not CB50).

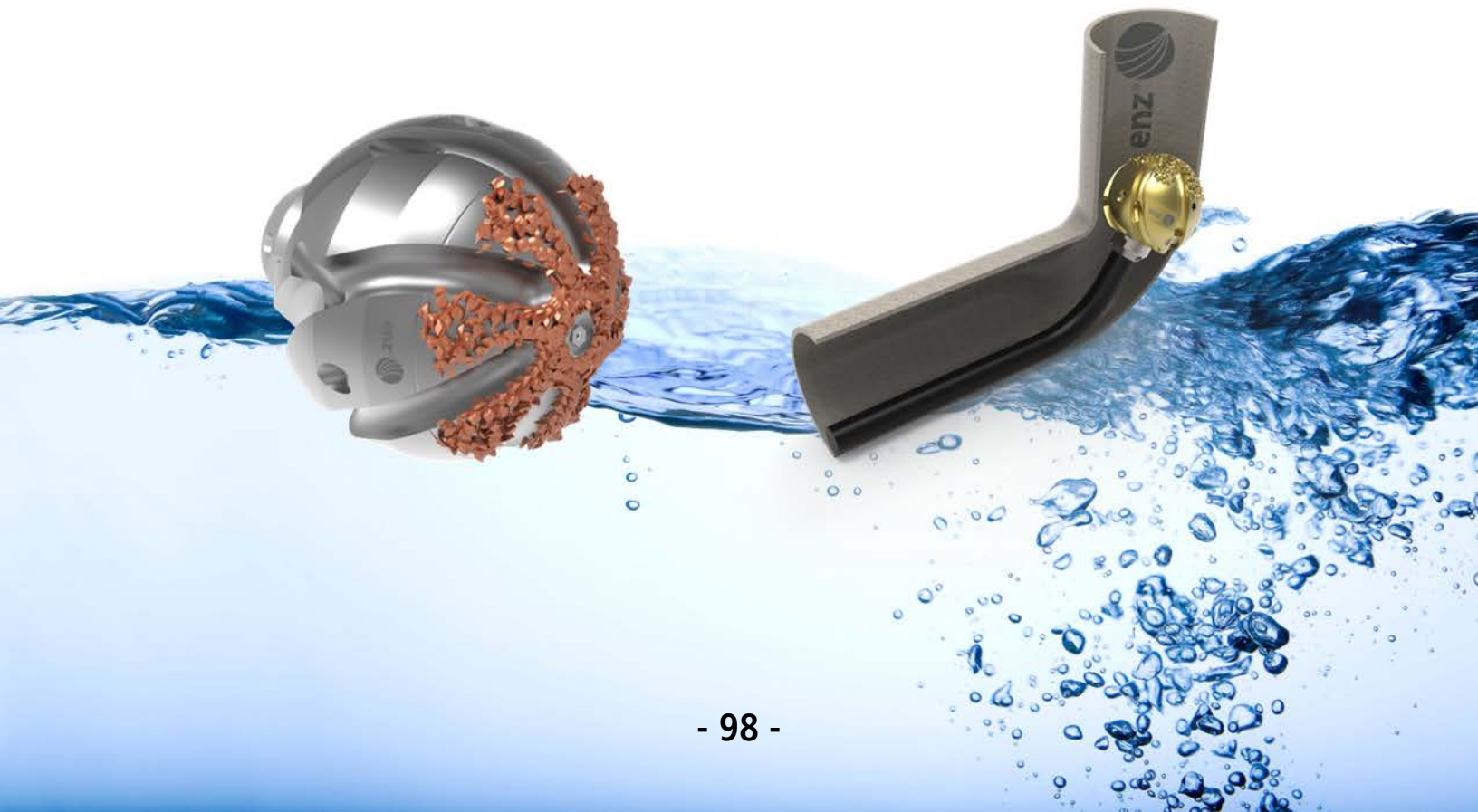
The cutting ball is equipped with a carbide frontal cutter, making it suitable for pipes with a blockage level of over 50%.

The lateral cutting edges are self-sharpening and retain their sharpness throughout their entire service life.

The application range of the cutting ball is highly versatile. Thanks to its spherical shape, it easily navigates bends without damaging the pipe. The proven enz® counter-rotation principle ensures low rotational speeds and contributes significantly to durability and long service life.

Applications

- For removing root intrusions, mineral deposits, and limescale



CB50 1/4" NPT - 1/2"

								
420.050AN	1/4" NPT	2.2 - 4.0	6.6	4 x M6	-	1.9 x 2.4	0.9	2,900
420.050BN	3/8" NPT	2.2 - 4.0	6.6	4 x M6	-	1.9 x 2.4	0.9	2,900
420.050BSN	3/8" NPT	2.2 - 4.0	14.5	4 x M6	4x Ø 1.3mm	1.9 x 2.4	0.9	2,900
420.050C	BSPP 1/2"	2.2 - 4.0	6.6	4 x M6	-	1.9 x 2.3	0.9	2,900
420.050CS	BSPP 1/2"	2.2 - 4.0	14.5	4 x M6	4x Ø 1.3mm	1.9 x 2.3	0.9	2,900

CB70 1/2"

									
420.070A	1/2"	3 - 5	13	6 x M6	-	2.67 x 3.6	2.43	ok	2,900
420.070AS	1/2"	3 - 5	21	6 x M6	3 x M4	2.67 x 3.6	2.43	ok	2,900

CB70 1/2" CC

									
425.070A	1/2"	3 - 5	16	6 x M6	-	2.67 x 3.6	2.43	ok	2,900
425.070AS	1/2"	3 - 5	21	6 x M6	3 x M4	2.67 x 3.6	2.43	ok	2,900

Cutting balls



CB90 1/2"



420.090A	1/2"	4 - 6	16	6 x M6	-	3.5 x 3.8	4.94	ok	2,900
420.090AS	1/2"	4 - 6	21	6 x M6	3 x M4	3.5 x 3.8	4.94	ok	2,900

CB90 1/2" CC



425.090A	1/2"	4 - 6	16	6 x M6	-	*	3.5 x 3.8	4.94	ok	2,900
425.090AS	1/2"	4 - 6	21	6 x M6	3 x M4	*	3.5 x 3.8	4.94	ok	2,900

Accessory cutting balls



00420.0702		Locking pin for cutting ball Ø70	0.5
00420.0902		Locking pin	0.5
857.1230		Cylinder pin Ø 12x30	0.1

Impact milling cutters

These tools are a radical innovation for milling-off deposits in pipes. The enz® impact milling cutters are designed to remove the most stubborn deposits like concrete, injection cement, mineral deposits etc. They work with a percussion system of 600-3000 impulses per minute and up to 12 tons of impact force. When using the pull rod (drawing device) the cutters can be driven with half the water quantity (from 200 mm).

Characteristics

- superior performance compared to other cutters
- extended tooth life
- easy handling
- low maintenance cost
- proven design

All impact milling cutters can be operated without impact.



Impact milling cutters 500 - 600 (19.7" - 23.6")



								 max
14.500	1 1/4"	20	119	3 x M10	3 x M10	18.7 x 28.0	244.71	2,100
14.600	1 1/4"	24	132	3 x M10	3 x M10	22.6 x 28.0	264.56	2,100

Cutting teeth



			
1419.0825		Cylinder-head screw for cam plate M8	0.008
15.Z1		Milling tooth for center	0.18
15.ZHU		Circumferential milling tooth	0.24
15.ZU		Universal milling tooth (all Ø)	0.18
15.ZU-GSL		Milling tooth for plastic	0.11
15.ZD		Diamant milling tooth	0.17
15.Z1-100		Impact tooth for center	0.13
65212.08		Nord-Lock washer M8	0.002

Accessory and wearing parts impact milling cutters



				
0014.0616T		Cylinder-head screw for cam plates M6 x 16		0.008
0014.1503		Head cover for impact milling cutter Ø 3.9" - 5.9"	3.9 - 4.7	0.522
14.D		Spacers		0.65
14.K05		Cam plate 0.19"		0.97
14.T1		Disk spring quenched and tempered 0.14"		0.22
0010.3809		Kufenrolle Ø 2.36"		0.93
0010.38091		Skid roller for skid centre Ø 1.57"		
0014.3003		Head Cover for cutter Ø 7.9" - 23.6"		
0014.3007		Skid for IMC 400 - 600	15.8" - 23.6"	4.4
14.500K		Impact milling-cutter head 19.7"	20	37.48
14.600K		Impact milling-cutter head 23.6"	24	41.89
0014.3008		Additional weight for impact milling cutter	12 - 24	14.88

				
14.500NA		Hub for impact drilling-cutter 19.7"	20	28.00
14.600NA		Hub for impact drilling-cutter 23.6"	24	28.00
0014.30011		Shaft extension		0.99
14.450KU		Adapter plates for skids 17.7"	18 - 24	35.27
14.2215ZS		Pull-rod M22x1.5 x 8"	8 - 24	2.21
14.G		Glide plate cutter 200 - 600		0.55
14.K04		Cam plate 0.16"		1.01

Recycling impact milling cutters

The new impact milling cutter family called IMC can be used with recycling water. Thanks to its high-impact performance and diamond or carbide teeth, the milling cutter is an excellent choice for removing the hardest deposits, such as concrete and limescale. You can use it with or w/out impact depending on the pipe material. Furthermore you can work in pipes from 100 mm - 450 mm (4" - 18").

Advantages

- high performance due to high impact
- recycling water
- simple maintenance
- low cost to operate



IMC 100 - 150 (3.9" - 5.9")



									
14.100R	1"	3.9	26	3 x M8	3 x M10	3.5 x 13.8	27.1	ok	2,200
14.120R	1"	4.7	31	3 x M8	3 x M10	4.4 x 13.8	30.20	ok	2,200
14.150R	1"	5.9	40	3 x M8	3 x M10	5.4 x 13.8	35.9	ok	2,200

IMC 200 - 450 (7.9" - 17.7")



										
14.200R	1", 1 1/4"	7.9	53	3 x M10	3 x M10		6.8 x 23.6	95.68	ok	2,200
14.225R	1", 1 1/4"	8.9	58.1	3 x M10	3 x M10		7.9 x 23.6	101.41	ok	2,200
14.250R	1", 1 1/4"	9.9	63.4	3 x M10	3 x M10		8.7 x 23.6	115.74	ok	2,200
14.300R	1", 1 1/4"	11.8	73.9	3 x M10	3 x M10		11.8 x 28	211.6	ok	2,200
14.350R	1", 1 1/4"	13.8	73.9	3 x M10	3 x M10		13.8 x 28	218.2	ok	2,200
14.400R	1", 1 1/4"	15.8	92.5	3 x M10	3 x M10	-	15.2 x 28	251.3	ok	2,200
14.450R	1", 1 1/4"	17.7	92.5	3 x M10	3 x M10	-	17.1 x 28	258	ok	2,200

Retrofit kits



				
14.100KR-KIT		Retrofit kit from 14.1xxR (Ø 4.7" + 5.9") to 14.100R (Ø 3.9")	3.9	10.36
14.120KR-KIT		Retrofit kit from 14.1xxR (Ø 3.9" + 5.9") to 14.120R (Ø 4.7")	4.7	13.36

				
14.150KR-KIT		Retrofit kit from 14.1xxR (Ø 3.9" + 4.7") to 14.150R (Ø 5.9")	5.9	19.14
14.200KR-KIT		Retrofit kit from 14.2xxR (Ø 8.9" + 9.9") to 14.200R (Ø 7.9")	7.9	8.8
14.225KR-KIT		Retrofit kit from 14.2xxR (Ø 7.9" + 9.9") to 14.225R (Ø 8.9")	8.9	19.84
14.250KR-KIT		Retrofit kit from 14.2xxR (Ø 7.9" + 8.9") to 14.250R (Ø 9.9")	9.9	20.1
14.400R-KIT		Retrofit kit from 14.3xxR (Ø11.8" + 13.8") to 14.400R (Ø15.8")	15.8	93
14.450R-KIT		Retrofit kit from 14.3xxR (Ø11.8" + 13.8") to 14.450R (Ø17.7")	17.7	99

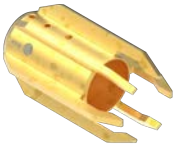
Cutting teeth



			
15.Z1		Milling tooth for center	0.18
15.ZHU		Circumferential milling tooth	0.24
15.ZU		Universal milling tooth (all Ø)	0.18
15.ZU-GSL		Milling tooth for plastic	0.11
1419.0825		Cylinder-head screw for cam plate M8	0.008
15.ZD		Diamant milling tooth	0.17

			
15.Z1-100		Impact tooth for center	0.13
65212.08		Nord-Lock washer M8	0.002

Cages



				
0014.1004R		Cage Ø 3.9"	3.9	7.0
0014.1204R		Cage Ø 4.7"	4.7	8.6
0014.1504R		Cage Ø 5.9"	5.9	8.6
617.1025		Set screw for cage installation M10x25		

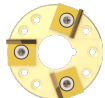
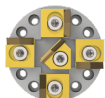
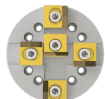
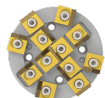
Hubs



				
14.200NAR		Hub for recycling impact milling cutter 14.2xxR	7.9 - 9.8	16.7
14.300NAR		Hub for recycling impact milling cutter for 14.3xxR	11.8 - 14.8	33.46
14.400NAR		Hub for recycling impact milling cutter for 14.4x0R	15.8 - 17.7	44.04

Center caps and cutter heads

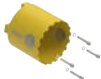
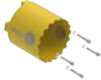
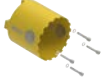
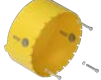


15.ZK		Center cap with teeth		1.98
15.ZKB		Center cap with borehole for pull rod		1.32
1420.0640		Cylinder screw M6x40		
14.100KR		Impact milling cutter head for Ø 3.9"	3.9	7.8
14.120KR		Cutter head with teeth for Ø 120mm (4.7")	4.7	7.8
14.150KR		Cutter head with teeth for Ø 150mm (5.9")	5.9	7.8
14.200KR		Cutter head with teeth Ø 200mm (7.9")	7.9	8.16
14.225KR		Cutter head with teeth Ø 225mm (8.9")	8.9	8.16
14.250KR		Cutter head with teeth Ø 250mm (9.8")	9.8	12.13
14.300KR		Cutter head with teeth Ø 300mm (11.8")	11.8	16.54
14.400KR		Cutter head with teeth Ø 400mm (15.8")	15.8	30.81
14.450KR		Cutter head with teeth Ø 450mm (17.7")	17.7	36.55

				
14.350KR		Cutter head with teeth Ø 350mm (13.8")	13.8	21.83
14.375KR		Cutter head with teeth Ø 375mm (15")	14.76	26.455

Diamond crown drill bits



				
14.100D		Diamond crown drill bit Ø 3.9"	3.9	1.87
14.120D		Diamond crown drill bit Ø 4.7"	4.7	2.42
14.150D		Diamond crown drill bit Ø 5.9"	5.9	4.96
14.200D		Diamond crown drill bit Ø 7.8"	7.8	6.83
14.250D		Diamond crown drill bit Ø 9.9"	9.9	6.83
14.300D		Diamond crown drill bit Ø 11.8"	11.8	15.65
14.350D		Diamond crown drill bit Ø 13.8"	13.8	28.6
14.400D		Diamond crown drill bit Ø 15.8"	15.7	34.52

Miscellaneous



0014.00021		Skid roller Ø 2.36" to IMC 11.8 - 17.7"		11.8 - 17.7			0.68
0014.0616T		Cylinder-head screw for cam plates M6 x 16					0.008
0014.1503		Head cover for impact milling cutter Ø 3.9" - 5.9"		3.9 - 4.7			0.522
0014.20071R		Skid for impact milling cutter recycling 7.9" RP		7			1.64
0014.2007R		Skid for IMC 200		7.9			1.64
0014.221554		Center screw					0.441
0014.2257R		Skid for IMC 225-250		8.9 - 9.9			2.11
0014.25071R		Skid roller Ø 1.57" for IMC 9.9"		9.9			0.25
0014.300712R		Skid without flaps for IMC 300 - 450		11.8 - 15.7			5.11
0014.300722R		Skid with flaps for IMC 300 - 450		11.8 - 17.7			5.45
0014.30076R		Rail clip IMC 11.8" - 17.7"		11.8 - 17.7			0.32
0014.NAR11		Locking nut to IMC					0.57
124.12		Hex nut for skid rollers M12					
1359.161220		Shoulder bolt for skid roller M12					
14.99001		Torque wrench (12 - 180 Nm)					0.24
14.99002		Hex socket 3/4" SW 41					0.24

							
14.99003		Transition piece with magnet 3/4" to 1/2"					0.24
14.99004		Hand lever grease gun					0.24
14.99009		Grease gun adapter for swivel joint					0.24
14.D		Spacers					0.65
14.K05		Cam plate 0.19"					0.97
14.KW05		Cam plate 5mm without screws					
14.T1		Disk spring quenched and tempered 0.14"					0.22
20141.08SS		Nord-Lock wedge lock washer M8 SS					0.008
20141.10SPSS		Nord-Lock wedge lock washer M10 SPSS					0.008
24.125S		1" m - 1 1/4" f		3 x M10	3.2 x 5.0	4.08	3,600
567.17342		Washer M16 for skid rollers					
C191		Oil Spray Bio, 500 ml					1.1
C192		Loctite 243 - 50 ml / 1.69 oz					0.15
14.ZSR		Pull rod M16					2.65
14.KR35W		Cam plate 0.14"					1.79
0014.NAR08		Aluminum bronze washer					0.21
14.D80		Spacer Ø 3.15"					0.44

14.99008		High-performance grease					0.88	