

Percussion milling cutters

The enz golden jet® impact drilling cutters range from 4" to 24" pipe diameter. In many cases, the use of a Percussion Milling Cutter is the only alternative to digging up pipes under foundations or roads.

Percussion Milling Cutters are specifically designed to remove stubborn deposits like concrete, injection cement, calcareous and mineral deposits. They are equipped with tungsten carbide and/or diamond tipped teeth. They work with a percussion system of 600-3000 impulses per minute and up to 12 tons of impact force.

Please ask for special equipment for plastic pipes!
When using the pull rod (drawing device) the cutters can be driven with half the water quantity (from 8").

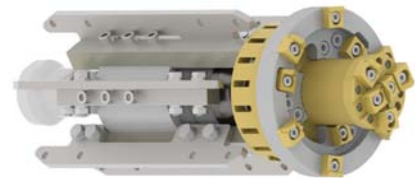
Characteristics

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

All impact drilling cutters can be operated without impacts by means of a simple mechanical change over.

Applications

- To remove concrete, injection cement, calcarious layers etc.
- Ø 4"-24"



Percussion milling cutters

Impact drilling cutters 1", 1 1/4"

			
	14.100	14.120	14.150
	1	1	1
	4	5	6
	26	26	40
	3 × M10	3 × M10	3 × M10
	3 × M10	3 × M10	3 × M10
	—	—	—
	3.5 × 13.6	4.3 × 13.6	5.4 × 15.4
	26.67	30.44	47.56
	2,175	2,175	2,175
	—	—	—
			
	14.200* Standard Housing 14.200	14.225* Standard Housing 14.200	14.250* Standard Housing 14.200
	1 / 1 1/4	1 / 1 1/4	1 / 1 1/4
	8	9	10
	52	52	66
	3 × M10	3 × M10	3 × M10
	3 × M10	3 × M10	3 × M10
	—	—	—
	6.9 × 22.8	7.9 × 22.8	8.8 × 22.8
	69.78	77.11	74.22
	2,175	2,175	2,175
	—	—	—

To mill in deformed plastic or glass fiber pipes, please ask for special ground tooth.

	Connecting thread [inch]		Rotating nozzles		Maximum pressure [psi]
	Application range [inch]		Thrust jet		Recycling
	min. gpm at 1450 psi at the nozzle		Front jet		
	Measures [inch]		Weight [lb.]		

Percussion milling cutters

Impact drilling cutters 1", 1 1/4"

			
	14.300* Standard Housing 14.300	14.350* Standard Housing 14.300	14.400* Standard Housing 14.300
	1 / 1 1/4	1 / 1 1/4	1 / 1 1/4
	12	14	16
	80	80	80
	3 × M10	3 × M10	3 × M10
	3 × M10	3 × M10	3 × M10
	—	—	—
	10.8 × 27.9	12.8 × 27.9	14.7 × 27.9
	177.78	182.22	197.78
	2,175	2,175	2,175
	—	—	—
			
	14.450* Standard Housing 14.300 + adapter plates	14.500* Standard Housing 14.300 + adapter plates	14.600* Standard Housing 14.300 + adapter plates
	1 / 1 1/4	1 / 1 1/4	1 / 1 1/4
	18	20	24
	105	118	132
	3 × M10	3 × M10	3 × M10
	3 × M10	3 × M10	3 × M10
	—	—	—
	16.7 × 27.9	18.7 × 27.9	22.6 × 27.9
	237.78	246.67	266.67
	2,175	2,175	2,175
	—	—	—

To mill in deformed plastic or glass fiber pipes, please ask for special ground tooth.



	Connecting thread [inch]		Rotating nozzles		Maximum pressure [psi]
	Application range [inch]		Thrust jet		Recycling
	min. gpm at 1450 psi at the nozzle		Front jet		
	Measures [inch]		Weight [lb.]		

Percussion milling cutters

Accessory and wearing parts



Cutter head

14.200K	→ 14.200, changeable	Ø 8"
14.225K*	→ 14.225, changeable	Ø 9"
14.250K	→ 14.250, changeable	Ø 10"
14.300K	→ 14.300, changeable	Ø 12"
14.350K	→ 14.350, changeable	Ø 14"
14.375K	→ 14.375, changeable	Ø 15"
14.400K	→ 14.400, changeable	Ø 16"
14.450K	→ 14.450, changeable	Ø 18"
14.500K	→ 14.500, changeable	Ø 20"
14.600K	→ 14.600, changeable	Ø 24"

* 14.225K in combination with 14.200 will need to order skid Art. No. 0014.2257



Hub

14.200NA	→ 14.200K, 14.250K	Ø 8" - 10"
14.300NA	→ 14.300K, 14.350K, 14.375K	Ø 12" - 14"
14.400NA	→ 14.400K, 14.450K	Ø 16" - 18"
14.500NA	→ 14.500K	Ø 20"
14.600NA	→ 14.600K	Ø 24"



Adapter plates

14.450KU	for the enlargement of the skids diameter (12 parts)	Ø 18" - 24"
----------	--	-------------



Diamond crown

0014.100D	→ 14.100K	Ø 4"
0014.150D	→ 14.150K	Ø 6"
0014.200D	→ 14.200K	Ø 8"
0014.250D	→ 14.250K	Ø 10"
0014.300D	→ 14.300K	Ø 12"
0014.350D	→ 14.350K	Ø 14"
0014.400D	→ 14.400K	Ø 16"

	Connecting thread [inch]		Rotating nozzles		Measures [inch]
	Application range [inch]		Thrust jet		Weight [lb.]
	min. gpm at 1450 psi at the nozzle		Front jet		Recycling



Percussion milling cutters



Pull rod

14.2215ZS → pulling of the cutter Ø 8" - 24"



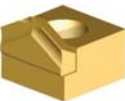
Center head with hole

15.ZKB → cutters



Universal cutting tooth, can be used as offset application both inside and outside

15.ZU → cutters Ø 4" - 24"



Universal cutting tooth, specifically for plastic pipes, can be used as offset application both inside and outside

15.ZU-GSL → cutters Ø 4" - 24"



Center teeth

15.Z1 → cutters Ø 5" - 6"



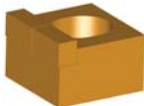
Center teeth

15.Z1-100 → cutters Ø 4"



Universal cutting tooth for centre cap

15.Z1-ZK → cutters Ø 8" - 24"



Carbide tooth

15.ZHU → cutters Ø 4" - 24"



Diamond tooth

15.ZDSU-30 → cutters Ø 4" - 24"



Diamond tooth

15.ZDSU-60 → cutters Ø 4" - 24"



	Connecting thread [inch]		Rotating nozzles		Measures [inch]
	Application range [inch]		Thrust jet		Weight [lb.]
	min. gpm at 1450 psi at the nozzle		Front jet		Recycling

Percussion milling cutters



Center tooth for centre cap

15.ZS → Chain scraper 10.20043R ∅ 8" - 24"



Swivel joint with thrust jets

24.125S → cutters ∅ 4" - 24"



Cam plate

14.K04 0.16" Hub for cutters ∅ until 6"

14.K05 0.20" Hub for cutters ∅ from 8" - 24"



Disc spring

14. T1



Sliding disc

14.G → cutters



Nord Lock for teeth

65212.08 (always as pairs)



Extension for the shaft of impact drilling

0014.30011 for cutter 12"



Additional weight

0014.3008 ∅ 12" - 24"back



Spacers for cutter heads

14.D 1 pair

	Connecting thread [inch]		Rotating nozzles		Measures [inch]
	Application range [inch]		Thrust jet		Weight [lb.]
	min. gpm at 1450 psi at the nozzle		Front jet		Recycling

Percussion milling cutters

IMC recycling impact drilling cutters



	14.200R	14.225R	14.250R
	1 1/4	1 / 1 1/4	1 / 1 1/4
	8	9	10
	48	53	53
	3 × M10	3 × M10	3 × M10
	3 × M10	3 × M10	3 × M10
	—	—	—
	7 × 23	8 × 23	9 × 23
	95.6	101.4	115.7
	2,175	2,175	2,175
	✓	✓	✓



	Connecting thread [inch]		Rotating nozzles		Measures [inch]
	Application range [inch]		Thrust jet		Weight [lb.]
	min. gpm at 1450 psi at the nozzle		Front jet		Recycling

Percussion milling cutters

Accessory and wearing parts



Cutter head

14.200K	→ 14.200, changeable	Ø 8"
14.225K*	→ 14.225, changeable	Ø 9"
14.250K	→ 14.250, changeable	Ø 10"

* 14.225K in combination with 14.200 will need to order skid item no. 0014.2257

Hub



14.200NAR	→ 14.200K, 14.225K, 14.250K	Ø 8" - 10"
-----------	-----------------------------	------------



Diamond crown

0014.200D	→ 14.200K	Ø 8"
0014.250D	→ 14.250K	Ø 10"



Pull rod

14.1615ZS	→ pulling of the cutter	Ø 8" - 10"
-----------	-------------------------	------------



Center head with hole

15.ZKB	→ cutters
--------	-----------



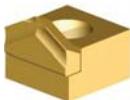
Center head without hole

15.ZKW	→ cutters
--------	-----------



Universal cutting tooth, can be used as offset application both inside and outside

15.ZU	→ cutters	Ø 8" - 10"
-------	-----------	------------



Universal cutting tooth, specifically for plastic pipes, can be used as offset application both inside and outside

15.ZU-GSL	→ cutters	Ø 8" - 10"
-----------	-----------	------------

	Connecting thread [inch]		Rotating nozzles		Measures [inch]
	Application range [inch]		Thrust jet		Weight [lb.]
	min. gpm at 1450 psi at the nozzle		Front jet		Recycling

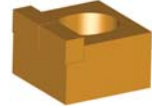


Percussion milling cutters



Universal cutting tooth for centre cap

15.Z1-ZK → cutters Ø 8" - 10"



Carbide tooth

15.ZHU → cutters Ø 8" - 10"



Diamond tooth

15.ZDSU-30 → cutters Ø 8" - 10"



Diamond tooth

15.ZDSU-60 → cutters Ø 8" - 10"



Swivel joint with thrust jets

24.125S → cutters Ø 8" - 10"



Cam plate

14.KR25W 0.09" Hub Ø until 6"



	Connecting thread [inch]		Rotating nozzles		Measures [inch]
	Application range [inch]		Thrust jet		Weight [lb.]
	min. gpm at 1450 psi at the nozzle		Front jet		Recycling