

SCHNEIDER
DIAMANTWERKZEUGE

PRODUCT PROGRAMME

Product catalog for
robots of the brand

IMS*

PRODUCT PROGRAMME 2025

TABLE OF CONTENTS

Robot type	Page
IMS* TURBO 4/MIDI 4/DRIVEplus (big motor)*	3
IMS* DRIVE/DRIVEplus (small motor)*	29
IMS* MICRO*	51
IMS* NANO*	75
IMS* Changeover System MICRO/ NANO*	90
IMS* TURBO 3*	99
IMS* MIDI/MINI (until 2010)*	133

The tables of contents in this catalog are interactive. A click will lead you directly to the desired target page.





 	<p>Premium Diamond Tools for High-Performance Material Removal and Long Service Life</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • Reinforced Concrete • Concrete • Cast Iron • Deposits / Fouling • Vitrified Clay 	<p>Page 5</p>
 	<p>Field-Proven Standard Diamond Tools with Outstanding Value for Purchase Investment</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • Reinforced Concrete • Concrete • Cast Iron • Deposits / Fouling • Vitrified Clay 	<p>Page 10</p>
 	<p>High-Tech Milling Tools made of PCD with Unbeatable Cutting and Stock Removal Performance for Almost Every Material</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • Concrete • UV CIPP • PVC • Deposits / Fouling • Roots • Vitrified Clay • Felt CIPP 	<p>Page 13</p>
 	<p>Absolutely Smooth-Running and Precise PCD Cutting Tools for Opening CIPP - Optimized for UV CIPP -</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • UV CIPP • PVC • Felt CIPP 	<p>Page 17</p>
 	<p>Absolutely Smooth-Running and Precise PCD Cutting Tools for Opening CIPP - All Kinds of CIPP and PVC -</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • UV CIPP • PVC • Felt CIPP 	<p>Page 20</p>
 	<p>Milling Tools with Diamond Granules for Opening CIPP - Optimal for UV CIPP and Lined Cast Iron Pipes -</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • UV CIPP • PVC • Felt CIPP 	<p>Page 21</p>
 	<p>Cost-Efficient Milling Tools with Carbide Granulate Tipping for Opening and Reworking CIPP</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • UV CIPP • Roots • PVC • Felt CIPP 	<p>Page 22</p>



VHM•LINE



Special Milling Tools for Processing Steel and Cast Iron

Materials to be processed

- Cast Iron
- Steel

Page 23



Functional Accessories

High-quality brushes, adapters, extensions, etc.

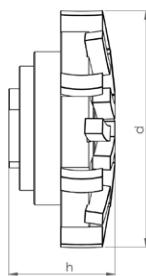
Page 24



IMS* TURBO 4/MIDI 4/DRIVEplus (big motor)*



Mushroom-head milling cutter spring-mounted



Materials to be processed

- Reinforced Concrete
- Cast Iron
- Concrete
- Vitrified Clay
- Deposits / Fouling

Field of Application

- Removal of intruding laterals
- Surface grinding and milling
- Removal of intruding obstacles
- Milling of offset socket transitions

Article-No.	Pipe Ø mm	d mm	h mm	Segments	Weight kg
20044 P 3/4" SG	200-300	90	40	21	0.7
20045 P 3/4" SG	300-450	90	40	21	0.7
20046 P 3/4" SG	450-600	90	40	21	0.7



Mushroom-head milling cutter machined for minimum runout



Materials to be processed

- Reinforced Concrete
- Cast Iron
- Concrete
- Vitrified Clay
- Deposits / Fouling

Field of Application

- Removal of intruding laterals
- Surface grinding and milling
- Milling of offset socket transitions

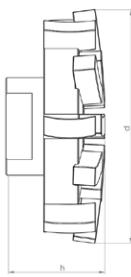
Article-No.	Pipe Ø mm	d mm	h mm	Segments	Weight kg
20006 P 3/4" SG	200-300	80	30	21	0.45
20007 P 3/4" SG	300-450	80	30	21	0.45
20008 P 3/4" SG	450-600	80	30	21	0.45



IMS* TURBO 4/MIDI 4/DRIVEplus (big motor)*



Mushroom-head milling cutter machined for minimum runout



Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

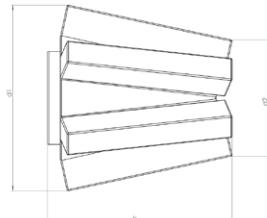
Field of Application

- Removal of intruding laterals
- Surface grinding and milling
- Milling of offset socket transitions

Article-No.	Pipe Ø mm	d mm	h mm	Segments	Weight kg
20024 P 3/4" SG	200-300	70	30	18	0.35
20025 P 3/4" SG	300-450	70	30	18	0.35
20026 P 3/4" SG	450-600	70	30	18	0.35



Tapered milling cutter machined for minimum runout



Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals

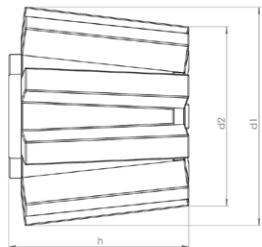
Article-No.	d1 mm	d2 mm	h mm	Segments	Weight kg
20051 P 3/4" SG	44	28	44	6	0.15



IMS* TURBO 4/MIDI 4/DRIVEplus (big motor)*



Tapered milling cutter machined for minimum runout



Materials to be processed

- Reinforced Concrete
- Concrete
- Cast Iron
- Vitrified Clay

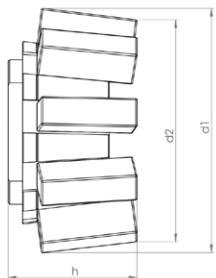
Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals

Article-No.	d1 mm	d2 mm	h mm	Segments	Weight kg
20004 P 3/4" SG	52	42	40	9	0.3



Tapered milling cutter machined for minimum runout



Materials to be processed

- Reinforced Concrete
- Concrete
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals

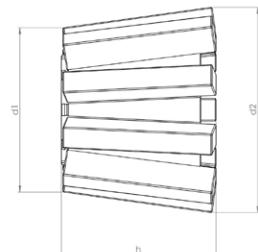
Article-No.	d1 mm	d2 mm	h mm	Segments	Weight kg
20001 P 3/4" SG	52	46	25	9	0.2



IMS* TURBO 4/MIDI 4/DRIVEplus (big motor)*



V-shape milling cutter machined for minimum runout



Materials to be processed

- Reinforced Concrete
- Concrete
- Cast Iron
- Vitrified Clay

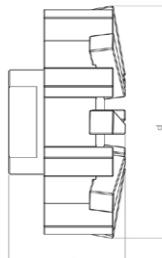
Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals

Article-No.	d1 mm	d2 mm	h mm	Segments	Weight kg
20039 P 3/4" SG	42	52	42	9	0.3



Inlet milling cutter machined for minimum runout



Materials to be processed

- Reinforced Concrete
- Concrete
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals

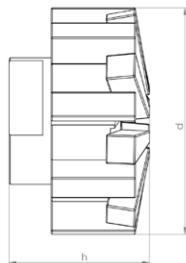
Article-No.	d mm	h mm	Segments	Weight kg
20015 P 3/4" SG	68	33	16	0.4



IMS* TURBO 4/MIDI 4/DRIVEplus (big motor)*



Inlet milling cutter machined for minimum runout



Materials to be processed

- Reinforced Concrete
- Concrete
- Cast Iron
- Vitrified Clay

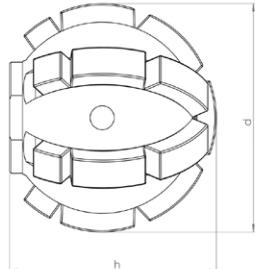
Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals

Article-No.	d mm	h mm	Segments	Weight kg
20047 P 3/4" SG	55	35	16	0.3



Ball milling cutter



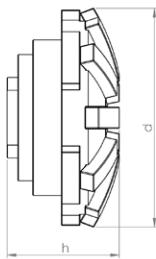
Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20020 P 3/4" SG	50	46	19	0.3


N-TEC II®
Mushroom-head milling cutter spring-mounted

Materials to be processed

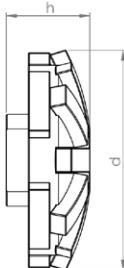
- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Removal of intruding laterals
- Surface grinding and milling
- Removal of intruding obstacles
- Milling of offset socket transitions

Article-No.	Pipe Ø mm	d mm	h mm	Segments	Weight kg
20036 3/4" SG	200-300	80	42	15	0.75
20037 3/4" SG	300-450	80	42	15	0.75
20038 3/4" SG	450-600	80	42	15	0.75

Note: Milling tools in other segment hardnesses are available on request.

N-TEC II®
Mushroom-head milling cutter

Materials to be processed

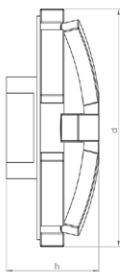
- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Removal of intruding laterals
- Surface grinding and milling
- Milling of offset socket transitions

Article-No.	Pipe Ø mm	d mm	h mm	Segments	Weight kg
20031 3/4" SG	200-300	70	30	15	0.35
20032 3/4" SG	300-450	70	30	15	0.35
20033 3/4" SG	450-600	70	30	15	0.35

Note: Milling tools in other segment hardnesses are available on request.


N-TEC II® Mushroom-head milling cutter

Materials to be processed

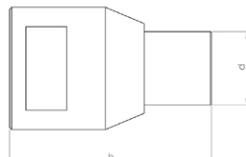
- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Removal of intruding laterals
- Surface grinding and milling
- Milling of offset socket transitions

Article-No.	Pipe Ø mm	d mm	h mm	Segments	Weight kg
21006 3/4" SG	200-300	70	30	10	0.3
21007 3/4" SG	300-450	70	30	10	0.3
21008 3/4" SG	450-600	70	30	10	0.3

Note: Milling tools in other segment hardnesses are available on request.

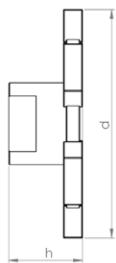
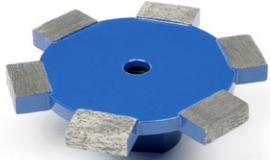
N-TEC II® Slot milling cutter

Materials to be processed

- Reinforced Concrete
- Concrete
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of cracks and sockets

Article-No.	d mm	h mm	Segments	Weight kg
20009 3/4" SG	18	50	1	0.1

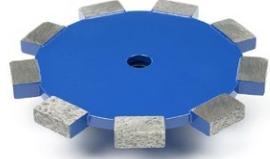

N•TEC II® Disk milling cutter

Materials to be processed

- Reinforced Concrete
- Vitrified Clay
- Concrete

Field of Application

- Milling of circumferential slots on laterals

Article-No.	d mm	h mm	Segments	Weight kg
20041 3/4" SG	85	27	6	0.3

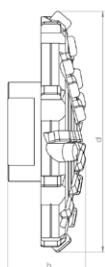
N•TEC II® Disk milling cutter

Materials to be processed

- Reinforced Concrete
- Vitrified Clay
- Concrete

Field of Application

- Milling of circumferential slots on laterals

Article-No.	d mm	h mm	Segments	Weight kg
20042 3/4" SG	110	27	9	0.45


BLACK•LINE Mushroom-head milling cutter

Materials to be processed

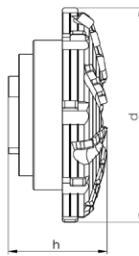
- Concrete
- Deposits / Fouling
- UV CIPP
- Roots
- PVC
- Vitrified Clay
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

- Surface milling
- Removal of intruding obstacles
- Milling of offset socket transitions

Article-No.	Pipe Ø mm	d mm	h mm	Segments	Weight kg
BL 11426 3/4" SG	200-450	63	25	28	0.2
BL 11401 3/4" SG	300-600	75	27	32	0.25

BLACK•LINE Mushroom-head milling cutter spring-mounted

Materials to be processed

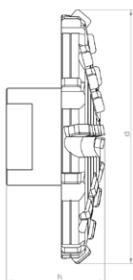
- Concrete
- Deposits / Fouling
- UV CIPP
- Roots
- PVC
- Vitrified Clay
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

- Surface milling
- Removal of intruding obstacles
- Milling of offset socket transitions

Article-No.	Pipe Ø mm	d mm	h mm	Segments	Weight kg
BL 11458 3/4" SG	200-300	80	38	32	0.7
BL 11459 3/4" SG	300-450	80	38	32	0.7
BL 11460 3/4" SG	450-600	80	38	32	0.7


BLACK•LINE Mushroom-head milling cutter center cutting

Materials to be processed

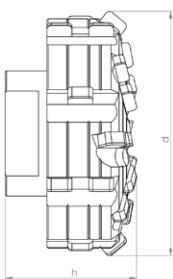
- Concrete
- Deposits / Fouling
- UV CIPP
- Roots
- PVC
- Vitrified Clay
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

- Frontal milling
- Surface milling
- Removal of intruding obstacles
- Milling of offset socket transitions

Article-No.	Pipe Ø mm	d mm	h mm	Segments	Weight kg
BL 11427 3/4" SG	200-450	65	27	30	0.2
BL 11402 3/4" SG	300-600	75	33	34	0.3

BLACK•LINE Inlet milling cutter

Materials to be processed

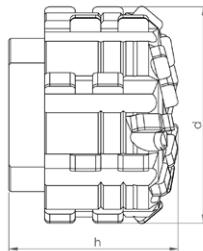
- Concrete
- Deposits / Fouling
- UV CIPP
- Roots
- PVC
- Vitrified Clay
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

- Opening of laterals and inlet lines
- Preparatory milling of laterals
- Removal of intruding laterals
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11409 3/4" SG	55	30	28	0.35


BLACK•LINE Inlet milling cutter

Materials to be processed

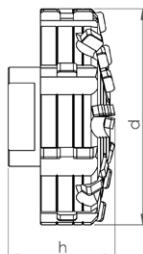
- Concrete
- Deposits / Fouling
- UV CIPP
- Roots
- PVC
- Vitrified Clay
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

- Opening of laterals and inlet lines
- Preparatory milling of laterals
- Removal of intruding laterals
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11451 3/4" SG	45	32	32	0.2

BLACK•LINE Inlet milling cutter center cutting

Materials to be processed

- Concrete
- Deposits / Fouling
- UV CIPP
- Roots
- PVC
- Vitrified Clay
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

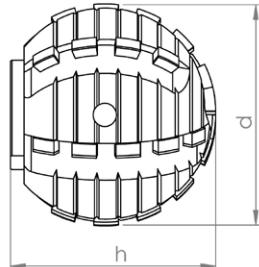
Field of Application

- Opening of laterals and inlet lines
- Preparatory milling of laterals
- Removal of intruding laterals
- Frontal milling
- Surface milling
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11452 3/4" SG	70	32	34	0.4



BLACK•LINE Ball milling cutter



Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

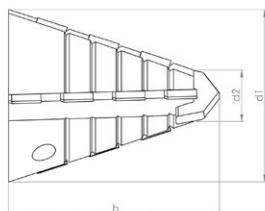
- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11410 3/4" SG	50	45	30	0.4



IMS* TURBO 4/MIDI 4/DRIVEplus (big motor)*

linerCUT Pro® Tapered milling cutter with tungsten carbide tip



Materials to be processed

- UV CIPP
- Felt CIPP
- PVC

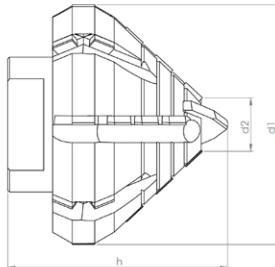
Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d1 mm	d2 mm	h mm	Segments	Weight kg
BL 11463 3/4" SG	40	18	47	14	0.14

linerCUT Pro® Taper/cylinder milling cutter with tungsten carbide tip



Materials to be processed

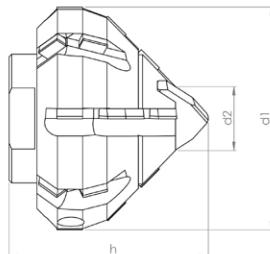
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d1 mm	d2 mm	h mm	Segments	Weight kg
BL 11441 3/4" SG	55	20	46	24	0.3


linerCUT Pro® Taper/cylinder milling cutter with tungsten carbide tip

Materials to be processed

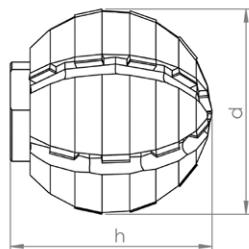
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d1 mm	d2 mm	h mm	Segments	Weight kg
BL 11439 3/4" SG	45	20	40	22	0.2

linerCUT Pro® Ball milling cutter

Materials to be processed

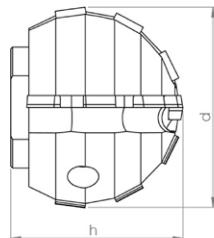
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11444 3/4" SG	50	55	24	0.5


linerCUT Pro® Ball milling cutter

Materials to be processed

- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

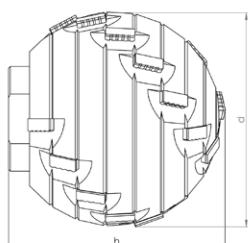
- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11443 3/4" SG	40	36	12	0.2



IMS* TURBO 4/MIDI 4/DRIVEplus (big motor)*

linerCUT Pro® 2.0 Ball milling cutter



Materials to be processed

- UV CIPP
- Felt CIPP
- PVC

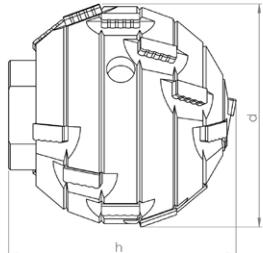
Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11449 3/4" SG	50	52	22	0.5

linerCUT Pro® 2.0 Ball milling cutter



Materials to be processed

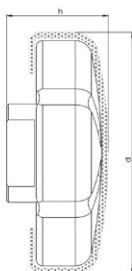
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11448 3/4" SG	40	40	18	0.25

**D•GRIT****Inlet milling cutter****Materials to be processed**

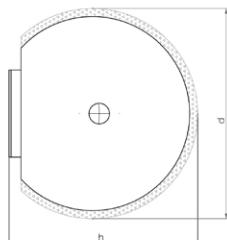
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
70011 3/4" SG	70	30	Diamond	0.5

D•GRIT**Ball milling cutter****Materials to be processed**

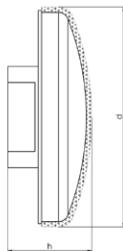
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
70002 3/4" SG	50	48	Diamond	0.45

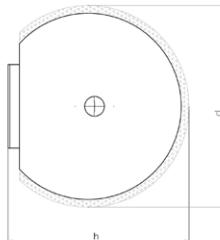

HM•LINE Mushroom-head milling cutter

Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50003 3/4" SG	67	30	Carbide	0.3

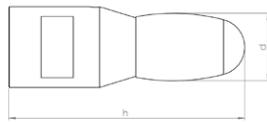
HM•LINE Ball milling cutter

Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50001 3/4" SG	50	50	Carbide	0.6


VHM•LINE oval shaped

Materials to be processed

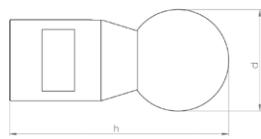
- Cast Iron
- Steel

Note: Use on concrete or vitrified clay will destroy the cutting elements!

Field of Application

- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
60007 3/4" SG	16	62	1	0.15

VHM•LINE ball shaped

Materials to be processed

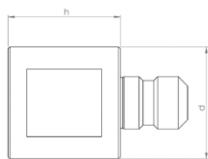
- Cast Iron
- Steel

Note: Use on concrete or vitrified clay will destroy the cutting elements!

Field of Application

- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
60008 3/4" SG	25	60	1	0.15

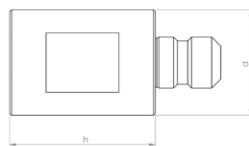

Extension 30 mm

Description

CNC fabricated tool extension for increased working radius of robot arm.

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
90120 3/4" SG	30	30	0.15

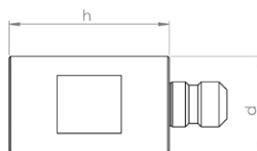
Extension 40 mm

Description

CNC fabricated tool extension for increased working radius of robot arm.

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
90121 3/4" SG	30	40	0.2

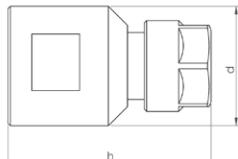
Extension 50 mm

Description

CNC fabricated tool extension for increased working radius of robot arm.

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
90122 3/4" SG	30	50	0.25

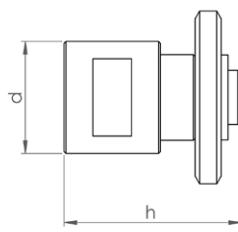

Adapter for mounting commercially available shank tools Ø 6 mm

Description

CNC fabricated collet chuck adapter for mounting commercially available shank tools.
 e.g. burrs, brushes, flap grinders etc...
 Mounting: Shank Ø 6-6,5 mm

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
90171 3/4" SG	30	40	0.1

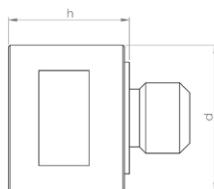
Adapter for mounting of 3 cutting discs

Description

CNC fabricated adapter for mounting of 3 cutting discs.
 Mounting shaft Ø 22,2 mm
 includes cutting discs and locking disc
NOTE: This adapter cannot be used to mount a single cutting disc!

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
90168 3/4" SG	30	46	0.2

Adapter for mounting of brushes and cutting discs

Description

CNC fabricated adapter for mounting of brushes and cutting discs.
 Thread: M14 (14 mm O.D.)
 Centering ring for cutting disc: Ø 22,2 mm
NOTE: When mounting wheel brushes or cutting discs, a locking disc is also required!

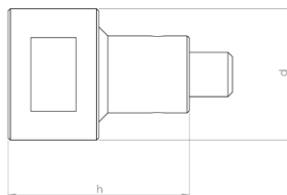
Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
90112 3/4" SG	30	25	0.11



Adapter from 3/4"SG to M10SG



Description

CNC fabricated adapter that permits the use of tools with M10SG threads (small motor).

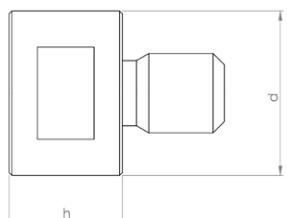
Robot examples: **IMS DRIVE/ DRIVEplus/ MICRO**

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
90175 3/4" SG	30	40	0.09

Adapter from 3/4"SG to 5/8"UNC



Description

CNC fabricated adapter that permits the use of tools with 5/8"UNC threads.

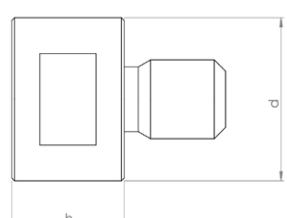
Examples robot manufacturers: **IMS/ Subtech etc.....**

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
90177 3/4" SG	30	20	0.08

Adapter from 3/4"SG to M14



Description

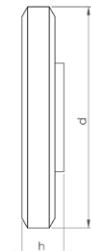
CNC fabricated adapter that permits the use of tools with M14 threads.

Examples robot manufacturers: **IST/ IBG/ Schwalm etc.....**

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
90176 3/4" SG	30	20	0.08


Locking disc for mounting of wheel brushes and cutting discs

Description

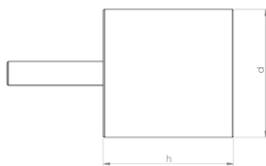
Thread: M14 (14 mm O.D.)

NOTE: Wheel brushes and cutting discs must be mounted using matching adapters!

Specification

Steel, burnished

Article-No.	d mm	h mm	Weight kg
SP 90110	45	8,5	0,07

Mounted point-cylindrical

Description

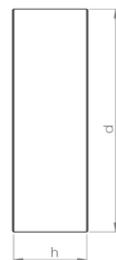
Corundum mounted point, for working on steel and cast iron.

NOTE: Only useable with adapter!

Specification

Corundum

Article-No.	d mm	h mm	Weight kg
81002	32	32	0,08

Cup wheel Ø 80 mm

Description

Corundum cup wheel, for working on steel and cast iron.

Mounting hole Ø 22,2 mm

NOTE: May be used only with matching adapter and locking disc!

Specification

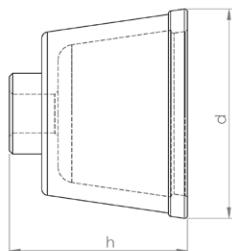
Corundum

Article-No.	d mm	h mm	Weight kg
81003	80	28	0,2



IMS* TURBO 4/MIDI 4/DRIVEplus (big motor)*

Cup brush Ø 65 mm



Description

Premium rotary wire brush for finishing work on CIPP liners and PVC.

Mounting hole M14 (14 mm thread O.D.)

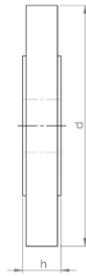
NOTE: May be used only with matching adapter!

Specification

Wire thickness: Ø 0,8 mm

Article-No.	d mm	h mm	Weight kg
80020	65	50	0.25

Wheel brush Ø 100 mm



Description

Premium rotary wire brush for finishing work on CIPP liners and PVC.

Mounting hole Ø 22,2 mm

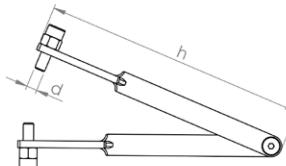
NOTE: May be used only with matching adapter and locking disc!

Specification

Wire thickness: Ø 0,5 mm

Article-No.	d mm	h mm	Weight kg
80018	100	15	0.2

Pin-tipped tongs for safe tool changeover



Description

The tongs are fitted with pin (with adjustable gripping depth) which are inserted into the gripping holes of the milling tools, permitting safe changeover without risking damage to the tooling.

Specification

Steel

Article-No.	d mm	h mm	Weight kg
92002	5	150	0.125



IMS* DRIVE/DRIVEplus (small motor)*

 	<p>Premium Diamond Tools for High-Performance Material Removal and Long Service Life</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • Reinforced Concrete • Concrete • Cast Iron • Deposits / Fouling • Vitrified Clay 	<p>Page 31</p>
 	<p>Field-Proven Standard Diamond Tools with Outstanding Value for Purchase Investment</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • Reinforced Concrete • Concrete • Cast Iron • Deposits / Fouling • Vitrified Clay 	<p>Page 33</p>
 	<p>High-Tech Milling Tools made of PCD with Unbeatable Cutting and Stock Removal Performance for Almost Every Material</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • UV CIPP • Roots • PVC • Felt CIPP 	<p>Page 35</p>
 	<p>Absolutely Smooth-Running and Precise PCD Cutting Tools for Opening CIPP - Optimized for UV CIPP -</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • UV CIPP • PVC • Felt CIPP 	<p>Page 41</p>
 	<p>Absolutely Smooth-Running and Precise PCD Cutting Tools for Opening CIPP - All Kinds of CIPP and PVC -</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • UV CIPP • PVC • Felt CIPP 	<p>Page 42</p>
 	<p>Milling Tools with Diamond Granules for Opening CIPP - Optimal for UV CIPP and Lined Cast Iron Pipes -</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • UV CIPP • PVC • Felt CIPP 	<p>Page 43</p>
 	<p>Cost-Efficient Milling Tools with Carbide Granulate Tipping for Opening and Reworking CIPP</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • UV CIPP • Roots • PVC • Felt CIPP 	<p>Page 44</p>



VHM•LINE



Special Milling Tools for Processing Steel and Cast Iron

Materials to be processed

- Cast Iron
- Steel

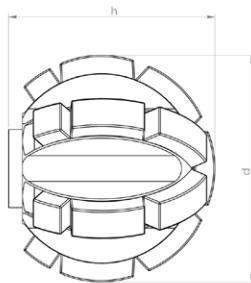
Page 47



Functional Accessories

High-quality brushes, adapters, extensions, etc.

Page 48

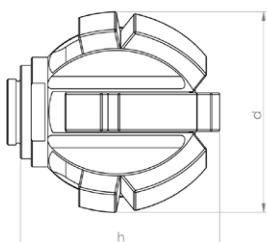

Ball milling cutter Type ProView®

Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20102 P M10SG	50	44	19	0.25

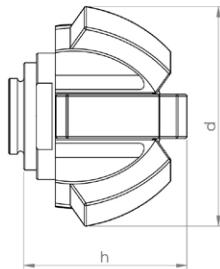

Ball milling cutter Type ProView®

Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20101 P M10SG	38	33	13	0.14

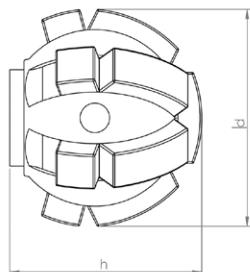

Half-ball milling cutter Type ProView®

Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20103 P M10SG	38	24	7	0.09

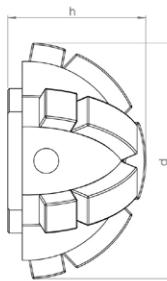

N-TEC II® Ball milling cutter

Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20021 M10SG	40	37	13	0.2

N-TEC II® Half-ball milling cutter

Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

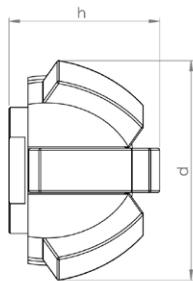
Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Frontal milling
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20034 M10SG	50	29	13	0.15



N-TEC II® Half-ball milling cutter



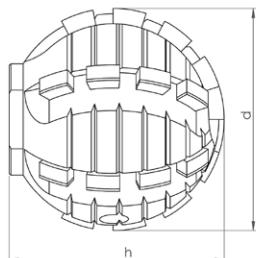
Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Frontal milling
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20035 M10SG	36	25	7	0.1


BLACK•LINE Ball milling cutter

Materials to be processed

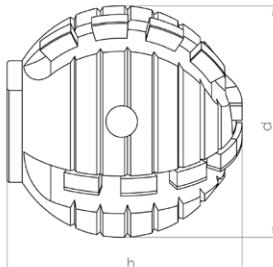
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11446 M10SG	40	42	26	0.25

BLACK•LINE Ball milling cutter

Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

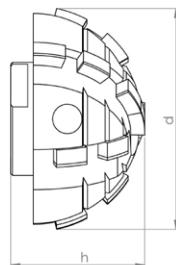
Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11414 M10SG	40	42	18	0.25



BLACK•LINE Half-ball milling cutter



Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

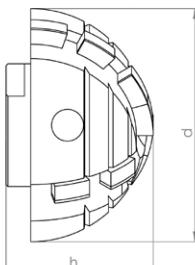
Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11465 M10SG	40	25	16	0.15

BLACK•LINE Half-ball milling cutter



Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

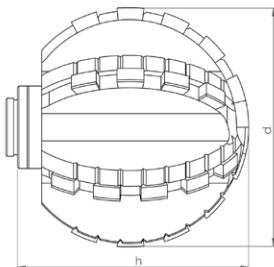
- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11428 M10SG	40	25	12	0.07



IMS* DRIVE/DRIVEplus (small motor)*

BLACK•LINE Ball milling cutter Type ProView®



Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

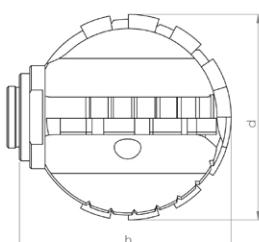
Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11108 M10SG	50	46	30	0.15

BLACK•LINE Ball milling cutter Type ProView®



Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

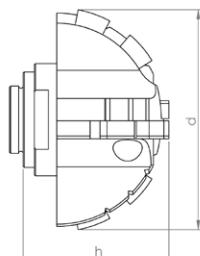
- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11103 M10SG	40	38	18	0.15



IMS* DRIVE/DRIVEplus (small motor)*

BLACK•LINE Half-ball milling cutter Type ProView®



Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

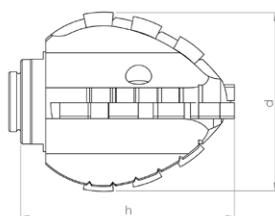
Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11106 M10SG	40	24	12	0.07

BLACK•LINE Double-cone milling cutter Type ProView®



Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

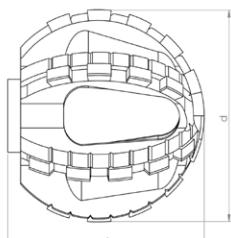
- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11107 M10SG	36	41	16	0.1



IMS* DRIVE/DRIVEplus (small motor)*

BLACK•LINE Ball milling cutter Type ProView®



Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

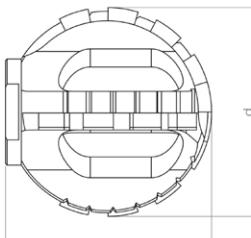
Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11114 M10SG	50	46	30	0.15

BLACK•LINE Ball milling cutter Type ProView®



Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

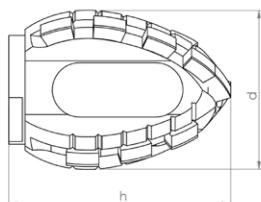
Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11110 M10SG	40	38	18	0.15



BLACK•LINE Double-cone milling cutter Type ProView®



Materials to be processed

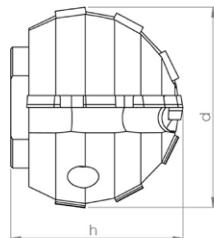
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11112 M10SG	36	41	16	0.1


linerCUT Pro® Ball milling cutter

Materials to be processed

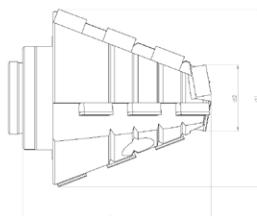
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11443 M10SG	40	36	12	0.2

linerCUT Pro® Tapered milling cutter with PCD tip

Materials to be processed

- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

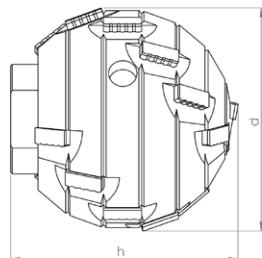
- Opening of laterals and inlet lines

Article-No.	d1 mm	d2 mm	h mm	Segments	Weight kg
BL 11469 M10SG	30	10	30	14	0.06



IMS* DRIVE/DRIVEplus (small motor)*

***linerCUT Pro® 2.0* Ball milling cutter**



Materials to be processed

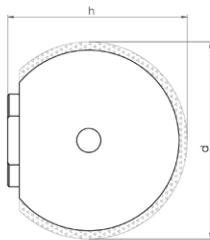
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11448 M10SG	40	40	18	0.25

**D•GRIT****Ball milling cutter****Materials to be processed**

- UV CIPP
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
70001 M10SG	40	38	Diamond	0.25

D•GRIT**Half-ball milling cutter****Materials to be processed**

- UV CIPP
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines
- CIPP liner finishing

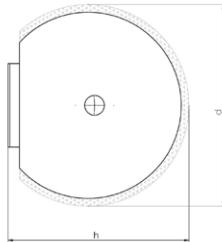
Article-No.	d mm	h mm	Grit	Weight kg
700081	50	25	Diamond	0.1

Note: Tool can only be used with matching adapter 91012 M10SG



IMS* DRIVE/DRIVEplus (small motor)*

HM•LINE Ball milling cutter



Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50002 M10SG	40	42	Carbide	0.3

HM•LINE Half-ball milling cutter



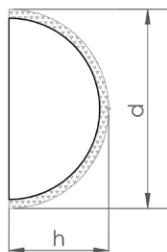
Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50004 M10SG	40	30	Carbide	0.15


HM•LINE Half-ball milling cutter

Materials to be processed

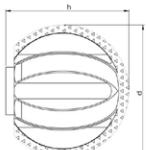
- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
510011	50	25	Carbide	0.1

Note: Tool can only be used with matching adapter 91012 M10SG

HM•LINE Ball milling cutter Type ProView®

Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

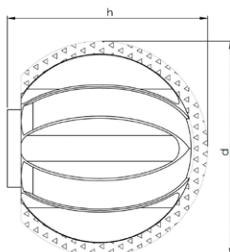
Article-No.	d mm	h mm	Weight kg
50203 M10SG	45	42	0.2



IMS* DRIVE/DRIVEplus (small motor)*

HM•LINE

Ball milling cutter Type ProView®



Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

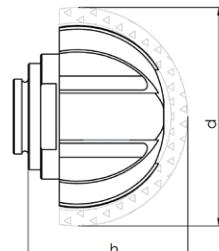
Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50201 M10SG	34	30	Carbide	0.11

HM•LINE

Half-ball milling cutter Type ProView®



Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

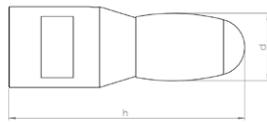
- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50202 M10SG	32	21	Carbide	0.07



IMS* DRIVE/DRIVEplus (small motor)*

VHM•LINE oval shaped



Materials to be processed

- Cast Iron
- Steel

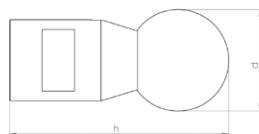
Note: Use on concrete or vitrified clay will destroy the cutting elements!

Field of Application

- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
60001 M10SG	16	55	1	0.15

VHM•LINE ball shaped



Materials to be processed

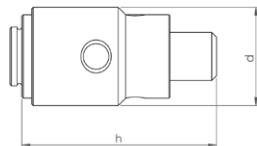
- Cast Iron
- Steel

Note: Use on concrete or vitrified clay will destroy the cutting elements!

Field of Application

- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
60002 M10SG	25	56	1	0.15

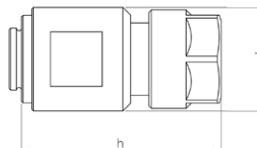

Extension 30 mm

Description

CNC fabricated tool extension for increased working radius of robot arm.

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
91010 M10SG	20	40	0.08

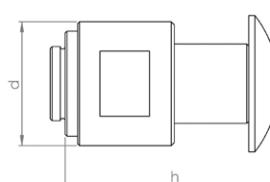
Adapter for mounting commercially available shank tools Ø 6 mm

Description

CNC fabricated collet chuck adapter for mounting commercially available shank tools.
e.g. burrs, brushes, flap grinders etc...
Mounting: Shank Ø 6-6,5 mm

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
91011 M10SG	20	40	0.07

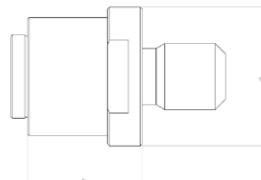
Adapter for mounting of 2 wheel brushes

Description

CNC fabricated adapter for mounting of 2 wheel brushes.
Mounting shaft Ø 12,7 mm
includes locking screw and cupped washer
NOTE: This adapter cannot be used to mount a single brush!

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
91009 M10SG	20	32	0.05


Adapter for mounting milling tools with 3/8"UNF thread

Description

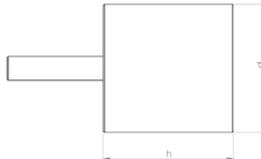
CNC fabricated adapter that permits the use of tools with 3/8"UNF threads.

Examples robot manufacturers: **Dancutter/ Streicher/ Hächler etc.....**

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
91012 M10SG	20	16,5	0.04

Mounted point-cylindrical

Description

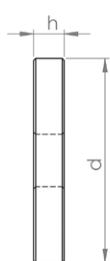
Corundum mounted point, for working on steel and cast iron.

NOTE: Only useable with adapter!

Specification

Corundum

Article-No.	d mm	h mm	Weight kg
81002	32	32	0.08

Wheel brush Ø 45 mm

Description

Premium rotary wire brushes for finishing work on CIPP liners and PVC.

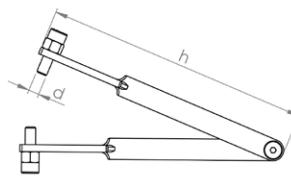
Mounting hole Ø 12,7 mm

NOTE: May be used only with matching adapter! Packing unit: 2 pieces

Specification

Wire thickness: Ø 0,3 mm

Article-No.	d mm	h mm	Weight kg
80025	45	8	0.05

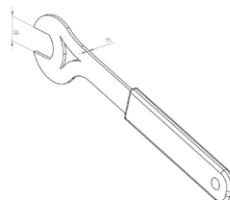

Pin-tipped tongs for safe tool changeover

Description

The tongs are fitted with pin (with adjustable gripping depth) which are inserted into the gripping holes of the milling tools, permitting safe changeover without risking damage to the tooling.

Specification

Steel

Article-No.	d mm	h mm	Weight kg
92002	5	150	0.125

Open-end wrench 17 mm

Description

The flat design of the wrench is particularly well suited for milling tools with low base height.

Specification

Steel

Article-No.	d mm	h mm	Weight kg
92001 SW17	17	2	0.08





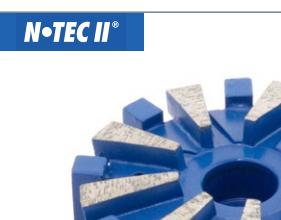
N-TEC II® PREMIUM

Premium Diamond Tools for High-Performance Material Removal and Long Service Life

Materials to be processed

• Reinforced Concrete	• Concrete	• Cast Iron
Concrete	• Deposits / Fouling	• Vitrified Clay

Page 53



N-TEC II®

Field-Proven Standard Diamond Tools with Outstanding Value for Purchase Investment

Materials to be processed

• Reinforced Concrete	• Concrete	• Cast Iron
	• Deposits / Fouling	• Vitrified Clay

Page 54



BLACK-LINE

High-Tech Milling Tools made of PCD with Unbeatable Cutting and Stock Removal Performance for Almost Every Material

Materials to be processed

• UV CIPP	• Roots	• PVC	• Felt CIPP
-----------	---------	-------	-------------

Page 56



linerCUT Pro®

Absolutely Smooth-Running and Precise PCD Cutting Tools for Opening CIPP - Optimized for UV CIPP -

Materials to be processed

• UV CIPP	• PVC	• Felt CIPP
-----------	-------	-------------

Page 62



linerCUT Pro® 2.0

Absolutely Smooth-Running and Precise PCD Cutting Tools for Opening CIPP - All Kinds of CIPP and PVC -

Materials to be processed

• UV CIPP	• PVC	• Felt CIPP
-----------	-------	-------------

Page 64



D-GRIT

Milling Tools with Diamond Granules for Opening CIPP - Optimal for UV CIPP and Lined Cast Iron Pipes -

Materials to be processed

• UV CIPP	• PVC	• Felt CIPP
-----------	-------	-------------

Page 65



HM-LINE

Cost-Efficient Milling Tools with Carbide Granulate Tipping for Opening and Reworking CIPP

Materials to be processed

• UV CIPP	• Roots	• PVC	• Felt CIPP
-----------	---------	-------	-------------

Page 67

**VHM•LINE**

Special Milling Tools for Processing Steel and Cast Iron

Materials to be processed

- Cast Iron
- Steel

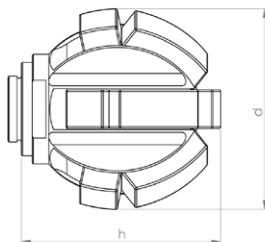
Page 71



Functional Accessories

High-quality brushes, adapters, extensions, etc.

Page 72

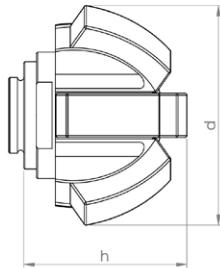

Ball milling cutter Type ProView®

Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20101 P M10SG	38	33	13	0.14

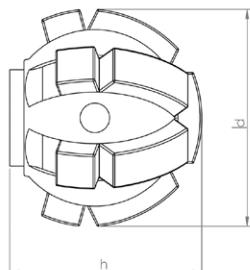

Half-ball milling cutter Type ProView®

Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20103 P M10SG	38	24	7	0.09

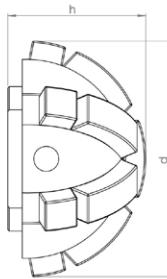

N-TEC II® Ball milling cutter

Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20021 M10SG	40	37	13	0.2

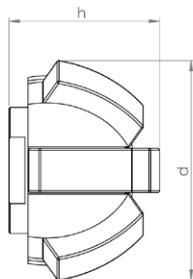
N-TEC II® Half-ball milling cutter

Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Frontal milling
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20034 M10SG	50	29	13	0.15

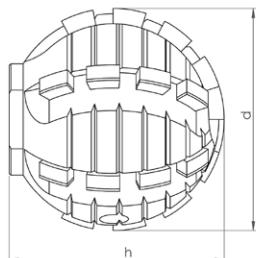

N-TEC II® Half-ball milling cutter

Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Frontal milling
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20035 M10SG	36	25	7	0.1


BLACK•LINE Ball milling cutter

Materials to be processed

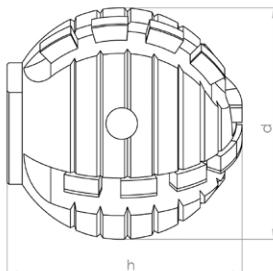
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11446 M10SG	40	42	26	0.25

BLACK•LINE Ball milling cutter

Materials to be processed

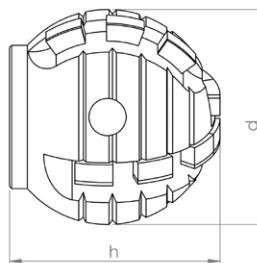
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11414 M10SG	40	42	18	0.25


BLACK•LINE Ball milling cutter

Materials to be processed

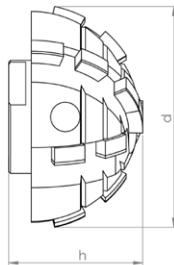
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11408 M10SG	30	32	14	0.1

BLACK•LINE Half-ball milling cutter

Materials to be processed

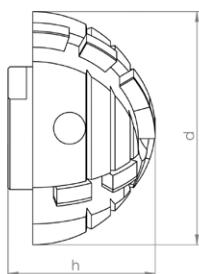
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11465 M10SG	40	25	16	0.15


BLACK-LINE Half-ball milling cutter

Materials to be processed

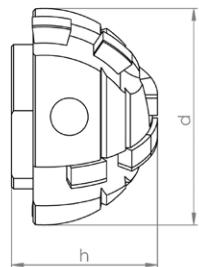
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11428 M10SG	40	25	12	0.07

BLACK-LINE Half-ball milling cutter

Materials to be processed

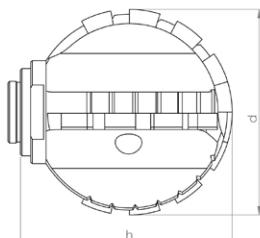
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11429 M10SG	30	20	8	0.06


BLACK•LINE Ball milling cutter Type ProView®

Materials to be processed

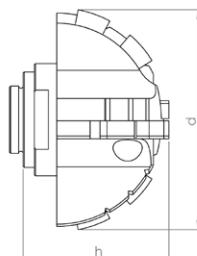
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11103 M10SG	40	38	18	0.15

BLACK•LINE Half-ball milling cutter Type ProView®

Materials to be processed

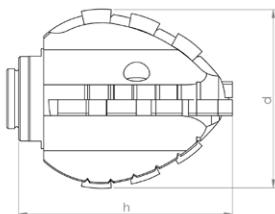
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11106 M10SG	40	24	12	0.07


BLACK•LINE Double-cone milling cutter Type ProView®

Materials to be processed

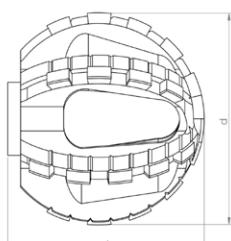
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11107 M10SG	36	41	16	0.1

BLACK•LINE Ball milling cutter Type ProView®

Materials to be processed

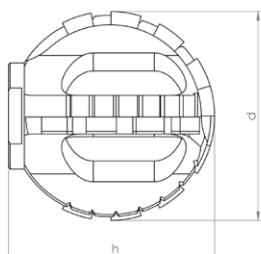
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11114 M10SG	50	46	30	0.15


BLACK-LINE Ball milling cutter Type ProView®

Materials to be processed

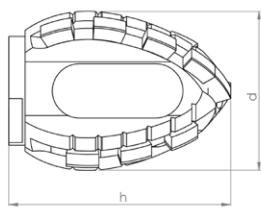
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11110 M10SG	40	38	18	0.15

BLACK-LINE Double-cone milling cutter Type ProView®

Materials to be processed

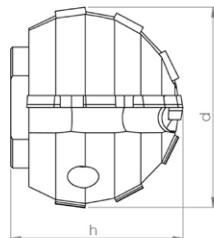
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11112 M10SG	36	41	16	0.1


linerCUT Pro® Ball milling cutter

Materials to be processed

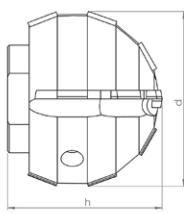
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11443 M10SG	40	36	12	0.2

linerCUT Pro® Ball milling cutter

Materials to be processed

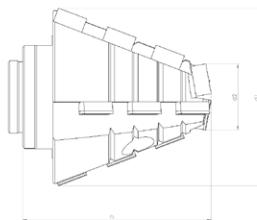
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11442 M10SG	30	29	14	0.1

**linerCUT Pro® Tapered milling cutter with PCD tip****Materials to be processed**

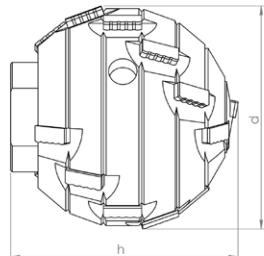
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d1 mm	d2 mm	h mm	Segments	Weight kg
BL 11469 M10SG	30	10	30	14	0.06


linerCUT Pro® 2.0 Ball milling cutter

Materials to be processed

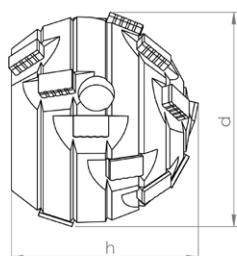
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11448 M10SG	40	40	18	0.25

linerCUT Pro® 2.0 Ball milling cutter

Materials to be processed

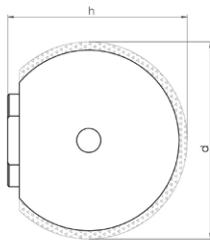
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11447 M10SG	30	25	16	0.1

**D•GRIT****Ball milling cutter****Materials to be processed**

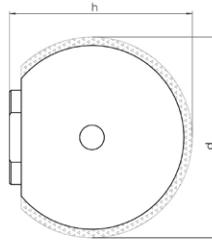
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
70001 M10SG	40	38	Diamond	0.25

D•GRIT**Ball milling cutter****Materials to be processed**

- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
70003 M10SG	30	30	Diamond	0.15

**D•GRIT****Half-ball milling cutter****Materials to be processed**

- UV CIPP
- Felt CIPP
- PVC

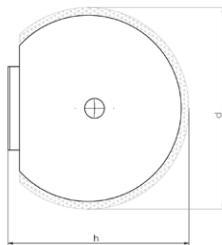
Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
700081	50	25	Diamond	0.1

Note: Tool can only be used with matching adapter 91012 M10SG

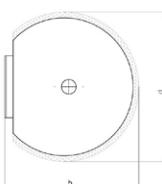
**HM•LINE****Ball milling cutter****Materials to be processed**

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50002 M10SG	40	42	Carbide	0.3

HM•LINE**Ball milling cutter****Materials to be processed**

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50005 M10SG	30	32	Carbide	0.15

**HM•LINE****Half-ball milling cutter****Materials to be processed**

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50004 M10SG	40	30	Carbide	0.15

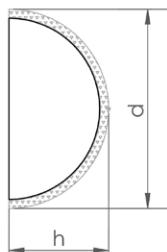
HM•LINE**Half-ball milling cutter****Materials to be processed**

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Weight kg
50009 M10SG	30	20	0.09


HM•LINE Half-ball milling cutter

Materials to be processed

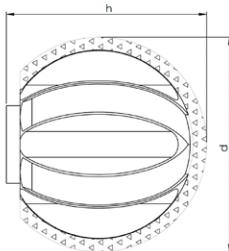
- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
510011	50	25	Carbide	0.1

Note: Tool can only be used with matching adapter 91012 M10SG

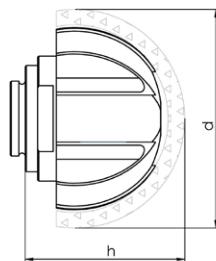
HM•LINE Ball milling cutter Type ProView®

Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50201 M10SG	34	30	Carbide	0.11

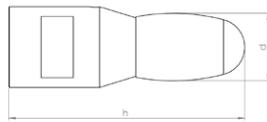
**HM•LINE****Half-ball milling cutter Type ProView®****Materials to be processed**

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50202 M10SG	32	21	Carbide	0.07


VHM•LINE oval shaped

Materials to be processed

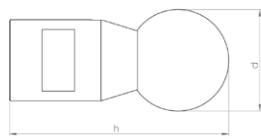
- Cast Iron
- Steel

Note: Use on concrete or vitrified clay will destroy the cutting elements!

Field of Application

- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
60001 M10SG	16	55	1	0.15

VHM•LINE ball shaped

Materials to be processed

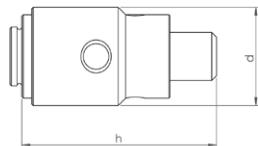
- Cast Iron
- Steel

Note: Use on concrete or vitrified clay will destroy the cutting elements!

Field of Application

- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
60002 M10SG	25	56	1	0.15

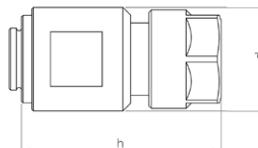

Extension 30 mm

Description

CNC fabricated tool extension for increased working radius of robot arm.

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
91010 M10SG	20	40	0.08

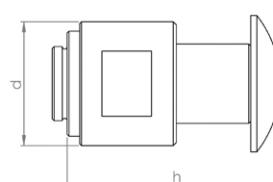
Adapter for mounting commercially available shank tools Ø 6 mm

Description

CNC fabricated collet chuck adapter for mounting commercially available shank tools.
e.g. burrs, brushes, flap grinders etc...
Mounting: Shank Ø 6-6,5 mm

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
91011 M10SG	20	40	0.07

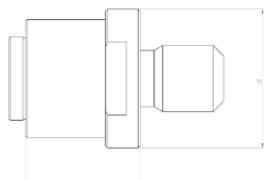
Adapter for mounting of 2 wheel brushes

Description

CNC fabricated adapter for mounting of 2 wheel brushes.
Mounting shaft Ø 12,7 mm
includes locking screw and cupped washer
NOTE: This adapter cannot be used to mount a single brush!

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
91009 M10SG	20	32	0.05


Adapter for mounting milling tools with 3/8"UNF thread

Description

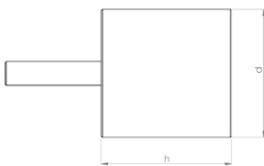
CNC fabricated adapter that permits the use of tools with 3/8"UNF threads.

Examples robot manufacturers: **Dancutter/ Streicher/ Hächler etc.....**

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
91012 M10SG	20	16,5	0.04

Mounted point-cylindrical

Description

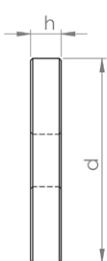
Corundum mounted point, for working on steel and cast iron.

NOTE: Only useable with adapter!

Specification

Corundum

Article-No.	d mm	h mm	Weight kg
81002	32	32	0.08

Wheel brush Ø 45 mm

Description

Premium rotary wire brushes for finishing work on CIPP liners and PVC.

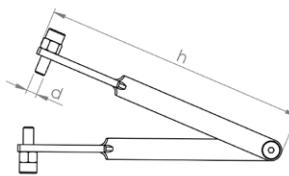
Mounting hole Ø 12,7 mm

NOTE: May be used only with matching adapter! Packing unit: 2 pieces

Specification

Wire thickness: Ø 0,3 mm

Article-No.	d mm	h mm	Weight kg
80025	45	8	0.05

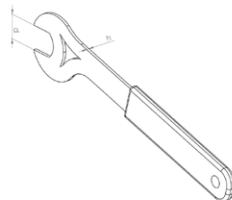

Pin-tipped tongs for safe tool changeover

Description

The tongs are fitted with pin (with adjustable gripping depth) which are inserted into the gripping holes of the milling tools, permitting safe changeover without risking damage to the tooling.

Specification

Steel

Article-No.	d mm	h mm	Weight kg
92002	5	150	0.125

Open-end wrench 17 mm

Description

The flat design of the wrench is particularly well suited for milling tools with low base height.

Specification

Steel

Article-No.	d mm	h mm	Weight kg
92001 SW17	17	2	0.08



N-TEC II® PREMIUM



Premium Diamond Tools for High-Performance Material Removal and Long Service Life

Materials to be processed

• Reinforced Concrete	• Concrete	• Cast Iron
Concrete	• Deposits / Fouling	• Vitrified Clay

Page 77

N-TEC II®



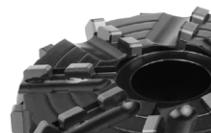
Field-Proven Standard Diamond Tools with Outstanding Value for Purchase Investment

Materials to be processed

• Reinforced Concrete	• Concrete	• Cast Iron
	• Deposits / Fouling	• Vitrified Clay

Page 78

BLACK•LINE



High-Tech Milling Tools made of PCD with Unbeatable Cutting and Stock Removal Performance for Almost Every Material

Materials to be processed

• UV CIPP	• Roots	• PVC	• Felt CIPP
-----------	---------	-------	-------------

Page 79

linerCUT Pro®



Absolutely Smooth-Running and Precise PCD Cutting Tools for Opening CIPP - Optimized for UV CIPP -

Materials to be processed

• UV CIPP	• PVC	• Felt CIPP
-----------	-------	-------------

Page 82

linerCUT Pro® 2.0



Absolutely Smooth-Running and Precise PCD Cutting Tools for Opening CIPP - All Kinds of CIPP and PVC -

Materials to be processed

• UV CIPP	• PVC	• Felt CIPP
-----------	-------	-------------

Page 83

D•GRIT



Milling Tools with Diamond Granules for Opening CIPP - Optimal for UV CIPP and Lined Cast Iron Pipes -

Materials to be processed

• UV CIPP	• PVC	• Felt CIPP
-----------	-------	-------------

Page 84

HM•LINE



Cost-Efficient Milling Tools with Carbide Granulate Tipping for Opening and Reworking CIPP

Materials to be processed

• UV CIPP	• Roots	• PVC	• Felt CIPP
-----------	---------	-------	-------------

Page 85



VHM•LINE



Special Milling Tools for Processing Steel and Cast Iron

Materials to be processed

- Cast Iron
- Steel

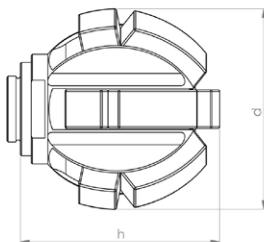
Page 87



Functional Accessories

High-quality brushes, adapters, extensions, etc.

Page 88

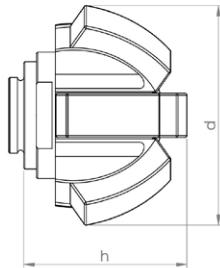

Ball milling cutter Type ProView®

Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20101 P M7SG	38	33	13	0.14

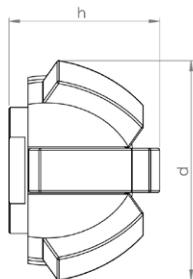

Half-ball milling cutter Type ProView®

Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20103 P M7SG	38	24	7	0.09

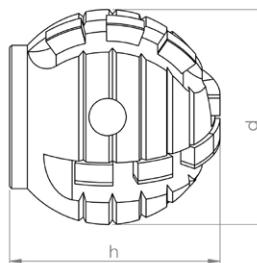

N-TEC II® Half-ball milling cutter

Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Frontal milling
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20035 M7SG	36	25	7	0.1


BLACK•LINE Ball milling cutter

Materials to be processed

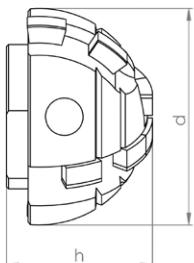
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11408 M7SG	30	32	14	0.1

BLACK•LINE Half-ball milling cutter

Materials to be processed

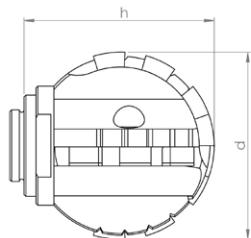
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11429 M7SG	30	20	8	0.06


BLACK-LINE Ball milling cutter Type ProView®

Materials to be processed

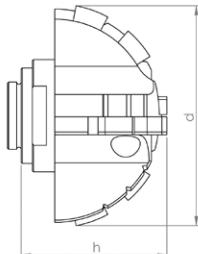
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11101 M7SG	32	30	14	0.06

BLACK-LINE Half-ball milling cutter Type ProView®

Materials to be processed

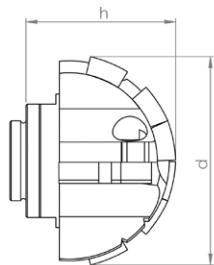
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11106 M7SG	40	24	12	0.07


BLACK•LINE Half-ball milling cutter Type ProView®

Materials to be processed

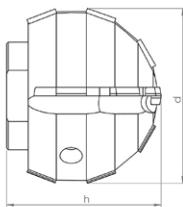
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11105 M7SG	30	20	10	0.05

**linerCUT Pro® Ball milling cutter****Materials to be processed**

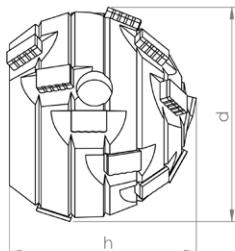
- UV CIPP
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11442 M7SG	30	29	14	0.1

**linerCUT Pro® 2.0 Ball milling cutter****Materials to be processed**

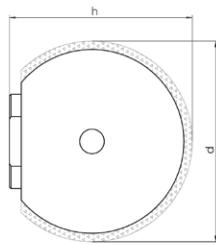
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11447 M7SG	30	25	16	0.1

**D•GRIT****Ball milling cutter****Materials to be processed**

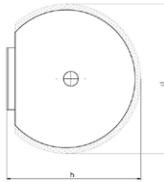
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
70003 M7SG	30	30	Diamond	0.15


HM•LINE Ball milling cutter

Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50005 M7SG	30	32	Carbide	0.15

HM•LINE Half-ball milling cutter

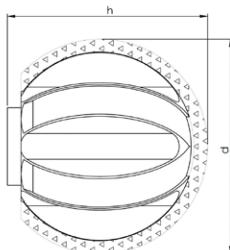
Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Weight kg
50009 M7SG	30	20	0.09

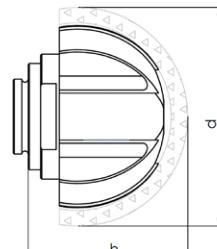
**HM•LINE****Ball milling cutter Type ProView®****Materials to be processed**

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50201 M7SG	34	30	Carbide	0.11

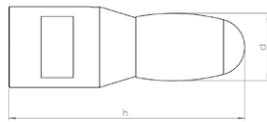
HM•LINE**Half-ball milling cutter Type ProView®****Materials to be processed**

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50202 M7SG	32	21	Carbide	0.07


VHM•LINE oval shaped

Materials to be processed

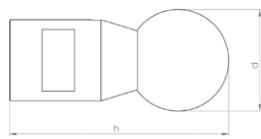
- Cast Iron
- Steel

Note: Use on concrete or vitrified clay will destroy the cutting elements!

Field of Application

- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
60001 M7SG	16	55	1	0.15

VHM•LINE ball shaped

Materials to be processed

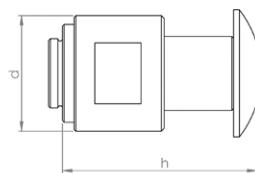
- Cast Iron
- Steel

Note: Use on concrete or vitrified clay will destroy the cutting elements!

Field of Application

- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
60002 M7SG	25	56	1	0.15


Adapter for mounting of 2 wheel brushes

Description

CNC fabricated adapter for mounting of 2 wheel brushes.

Mounting shaft Ø 12,7 mm

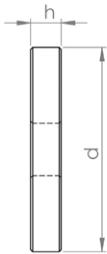
includes locking screw and cupped washer

NOTE: This adapter cannot be used to mount a single brush!

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
91007 M7SG	20	32	0.05

Wheel brush Ø 45 mm

Description

Premium rotary wire brushes for finishing work on CIPP liners and PVC.

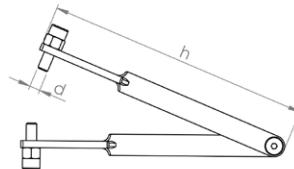
Mounting hole Ø 12,7 mm

NOTE: May be used only with matching adapter! Packing unit: 2 pieces

Specification

Wire thickness: Ø 0,3 mm

Article-No.	d mm	h mm	Weight kg
80025	45	8	0.05

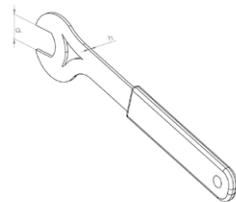
Pin-tipped tongs for safe tool changeover

Description

The tongs are fitted with pin (with adjustable gripping depth) which are inserted into the gripping holes of the milling tools, permitting safe changeover without risking damage to the tooling.

Specification

Steel

Article-No.	d mm	h mm	Weight kg
92002	5	150	0.125

**Open-end wrench 17 mm****Description**

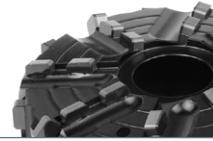
The flat design of the wrench is particularly well suited for milling tools with low base height.

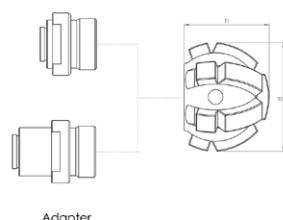
Specification

Steel

Article-No.	d mm	h mm	Weight kg
92001 SW17	17	2	0.08



 	<p>Field-Proven Standard Diamond Tools with Outstanding Value for Purchase Investment</p> <p>Materials to be processed</p> <table border="0"> <tr> <td>• Reinforced Concrete</td> <td>• Concrete</td> <td>• Cast Iron</td> </tr> <tr> <td>Concrete</td> <td>• Deposits / Fouling</td> <td>• Vitrified Clay</td> </tr> </table>	• Reinforced Concrete	• Concrete	• Cast Iron	Concrete	• Deposits / Fouling	• Vitrified Clay	Page 91
• Reinforced Concrete	• Concrete	• Cast Iron						
Concrete	• Deposits / Fouling	• Vitrified Clay						
 	<p>High-Tech Milling Tools made of PCD with Unbeatable Cutting and Stock Removal Performance for Almost Every Material</p> <p>Materials to be processed</p> <table border="0"> <tr> <td>• UV CIPP</td> <td>• Roots</td> <td>• PVC</td> <td>• Felt CIPP</td> </tr> </table>	• UV CIPP	• Roots	• PVC	• Felt CIPP	Page 92		
• UV CIPP	• Roots	• PVC	• Felt CIPP					
 	<p>Milling Tools with Diamond Granules for Opening CIPP - Optimal for UV CIPP and Lined Cast Iron Pipes -</p> <p>Materials to be processed</p> <table border="0"> <tr> <td>• UV CIPP</td> <td>• PVC</td> <td>• Felt CIPP</td> </tr> </table>	• UV CIPP	• PVC	• Felt CIPP	Page 94			
• UV CIPP	• PVC	• Felt CIPP						
 	<p>Cost-Efficient Milling Tools with Carbide Granulate Tipping for Opening and Reworking CIPP</p> <p>Materials to be processed</p> <table border="0"> <tr> <td>• UV CIPP</td> <td>• Roots</td> <td>• PVC</td> <td>• Felt CIPP</td> </tr> </table>	• UV CIPP	• Roots	• PVC	• Felt CIPP	Page 95		
• UV CIPP	• Roots	• PVC	• Felt CIPP					
	<p>Functional Accessories</p> <p>High-quality brushes, adapters, extensions, etc.</p>	Page 96						


N-TEC II® Ball milling cutter -Changeover System-

Materials to be processed

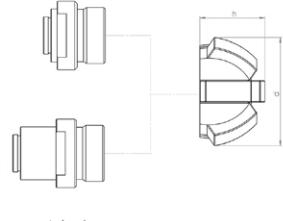
- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20030	38	30	13	0.11

Note: Tool can only be used with matching adapter!

N-TEC II® Half-ball milling cutter -Changeover System-

Materials to be processed

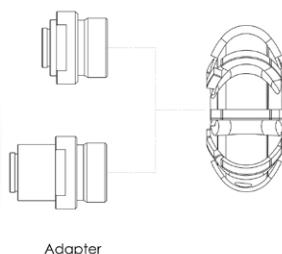
- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20029	36	21	7	0.06

Note: Tool can only be used with matching adapter!


BLACK•LINE Inlet milling cutter -Changeover System-

Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

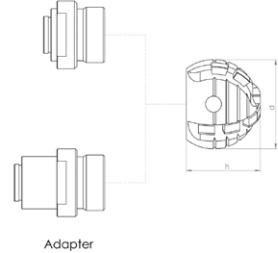
Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11436	50	25	28	0.2

Note: Tool can only be used with matching adapter!

BLACK•LINE Ball milling cutter -Changeover System-

Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

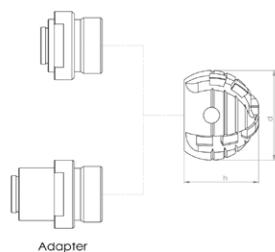
Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11435	36	30	14	0.09

Note: Tool can only be used with matching adapter!


BLACK-LINE Ball milling cutter -Changeover System-

Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

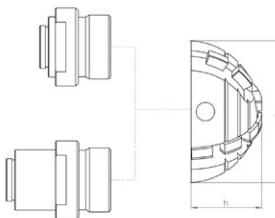
Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11434	32	25	12	0.06

Note: Tool can only be used with matching adapter!

BLACK-LINE Half-ball milling cutter -Changeover System-

Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

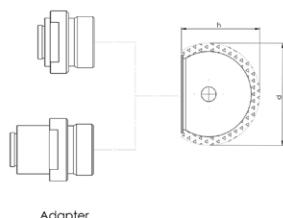
Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11433	40	20	12	0.09

Note: Tool can only be used with matching adapter!

**D•GRIT****Ball milling cutter -Changeover System-****Materials to be processed**

- UV CIPP
- PVC
- Felt CIPP

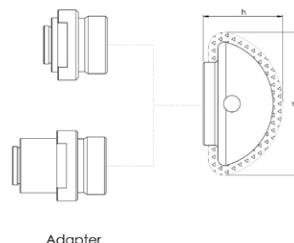
Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
70005	30	25	Diamond	0.07

Note: Tool can only be used with matching adapter!

D•GRIT**Half-ball milling cutter -Changeover System-****Materials to be processed**

- UV CIPP
- PVC
- Felt CIPP

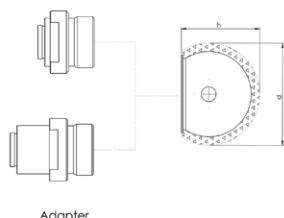
Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
70004	40	22	Diamond	0.1

Note: Tool can only be used with matching adapter!

**HM•LINE****Ball milling cutter -Changeover System-**

Adapter

Materials to be processed

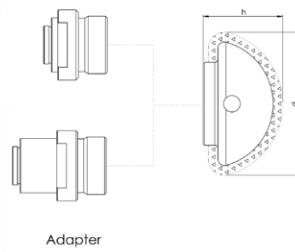
- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50011	30	26	Carbide	0.1

Note: Tool can only be used with matching adapter!

HM•LINE**Half-ball milling cutter -Changeover System-**

Adapter

Materials to be processed

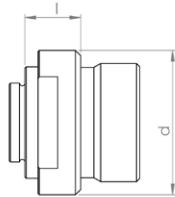
- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50010	40	20	Carbide	0.13

Note: Tool can only be used with matching adapter!

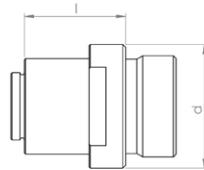

Adapter MICRO -Changeover System- short version

Description

CNC fabricated adapter for use of milling tools with
-Changeover System-

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
91001 M10SG	22	8	0.03

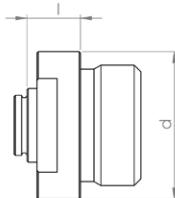
Adapter MICRO -Changeover System- long version

Description

CNC fabricated adapter for use of milling tools with
-Changeover System-

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
91002 M10SG	22	18	0.04

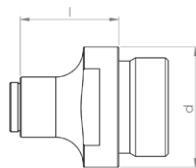
Adapter NANO -Changeover System- short version

Description

CNC fabricated adapter for use of milling tools with
-Changeover System-

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
91005 M7SG	22	8	0.03

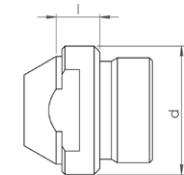

Adapter NANO -Changeover System- long version

Description

CNC fabricated adapter for use of milling tools with
-Changeover System-

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
91006 M7SG	22	18	0.04

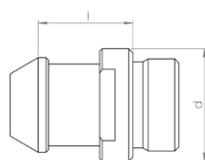
Adapter MICRO (until 2010) -Changeover System- short version

Description

CNC fabricated adapter for use of milling tools with
-Changeover System-

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
91003 M8/60°	22	7,5	0.04

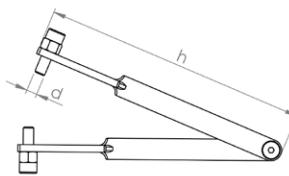
Adapter MICRO (until 2010) -Changeover System- long version

Description

CNC fabricated adapter for use of milling tools with
-Changeover System-

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
91004 M8/60°	22	18	0.05

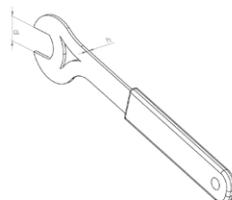

Pin-tipped tongs for safe tool changeover

Description

The tongs are fitted with pin (with adjustable gripping depth) which are inserted into the gripping holes of the milling tools, permitting safe changeover without risking damage to the tooling.

Specification

Steel

Article-No.	d mm	h mm	Weight kg
92002	5	150	0.125

Open-end wrench 17 mm

Description

The flat design of the wrench is particularly well suited for milling tools with low base height.

Specification

Steel

Article-No.	d mm	h mm	Weight kg
92001 SW17	17	2	0.08



 	<p>Premium Diamond Tools for High-Performance Material Removal and Long Service Life</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • Reinforced Concrete • Concrete • Cast Iron • Deposits / Fouling • Vitrified Clay 	<p>Page 101</p>
 	<p>Field-Proven Standard Diamond Tools with Outstanding Value for Purchase Investment</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • Reinforced Concrete • Concrete • Cast Iron • Deposits / Fouling • Vitrified Clay 	<p>Page 109</p>
 	<p>High-Tech Milling Tools made of PCD with Unbeatable Cutting and Stock Removal Performance for Almost Every Material</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • Concrete • UV CIPP • PVC • Deposits / Fouling • Roots • Vitrified Clay • Felt CIPP 	<p>Page 112</p>
 	<p>Absolutely Smooth-Running and Precise PCD Cutting Tools for Opening CIPP - Optimized for UV CIPP -</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • UV CIPP • PVC • Felt CIPP 	<p>Page 119</p>
 	<p>Absolutely Smooth-Running and Precise PCD Cutting Tools for Opening CIPP - All Kinds of CIPP and PVC -</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • UV CIPP • PVC • Felt CIPP 	<p>Page 123</p>
 	<p>Milling Tools with Diamond Granules for Opening CIPP - Optimal for UV CIPP and Lined Cast Iron Pipes -</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • UV CIPP • PVC • Felt CIPP 	<p>Page 124</p>
 	<p>Cost-Efficient Milling Tools with Carbide Granulate Tipping for Opening and Reworking CIPP</p>
<p>Materials to be processed</p> <ul style="list-style-type: none"> • UV CIPP • Roots • PVC • Felt CIPP 	<p>Page 126</p>



VHM•LINE



Special Milling Tools for Processing Steel and Cast Iron

Materials to be processed

- Cast Iron
- Steel

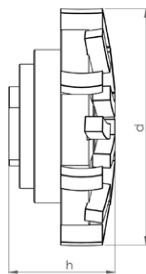
Page 128



Functional Accessories

High-quality brushes, adapters, extensions, etc.

Page 129


Mushroom-head milling cutter spring-mounted

Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Removal of intruding laterals
- Surface grinding and milling
- Removal of intruding obstacles
- Milling of offset socket transitions

Article-No.	Pipe Ø mm	d mm	h mm	Segments	Weight kg
20044 P 5/8"UNC	200-300	90	40	21	0.7
20045 P 5/8"UNC	300-450	90	40	21	0.7
20046 P 5/8"UNC	450-600	90	40	21	0.7


Mushroom-head milling cutter machined for minimum runout

Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Removal of intruding laterals
- Surface grinding and milling
- Milling of offset socket transitions

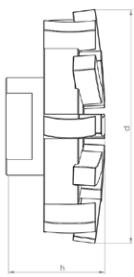
Article-No.	Pipe Ø mm	d mm	h mm	Segments	Weight kg
20006 P 5/8"UNC	200-300	80	30	21	0.45
20007 P 5/8"UNC	300-450	80	30	21	0.45
20008 P 5/8"UNC	450-600	80	30	21	0.45



IMS* TURBO 3*



Mushroom-head milling cutter machined for minimum runout



Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

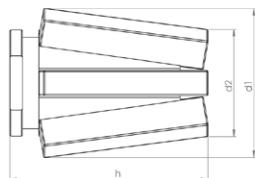
Field of Application

- Removal of intruding laterals
- Surface grinding and milling
- Milling of offset socket transitions

Article-No.	Pipe Ø mm	d mm	h mm	Segments	Weight kg
20024 P 5/8"UNC	200-300	70	30	18	0.35
20025 P 5/8"UNC	300-450	70	30	18	0.35
20026 P 5/8"UNC	450-600	70	30	18	0.35



Tapered milling cutter machined for minimum runout



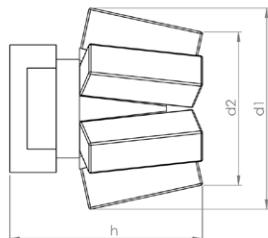
Materials to be processed

- Reinforced Concrete
- Concrete
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals

Article-No.	d1 mm	d2 mm	h mm	Segments	Weight kg
20013 P 5/8"UNC	38	28	53	6	0.15

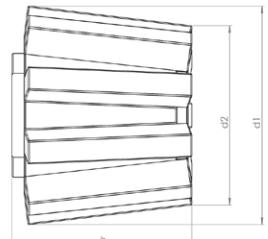

Tapered milling cutter machined for minimum runout

Materials to be processed

- Reinforced Concrete
- Concrete
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals

Article-No.	d1 mm	d2 mm	h mm	Segments	Weight kg
20027 P 5/8"UNC	36	28	32	6	0.1

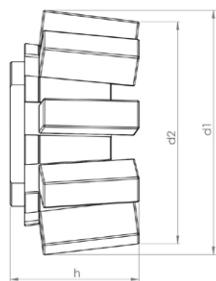

Tapered milling cutter machined for minimum runout

Materials to be processed

- Reinforced Concrete
- Concrete
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals

Article-No.	d1 mm	d2 mm	h mm	Segments	Weight kg
20004 P 5/8"UNC	52	42	40	9	0.3

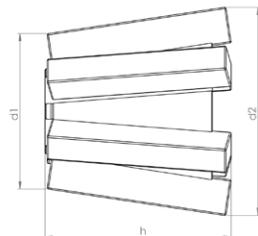

Tapered milling cutter machined for minimum runout

Materials to be processed

- Reinforced Concrete
- Concrete
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals

Article-No.	d1 mm	d2 mm	h mm	Segments	Weight kg
20001 P 5/8"UNC	52	46	25	9	0.2

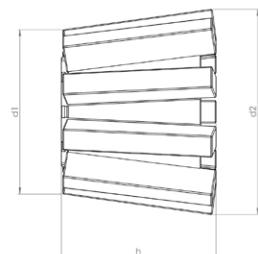

V-shape milling cutter machined for minimum runout

Materials to be processed

- Reinforced Concrete
- Concrete
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals

Article-No.	d1 mm	d2 mm	h mm	Segments	Weight kg
20043 P 5/8"UNC	35	45	42	6	0.15

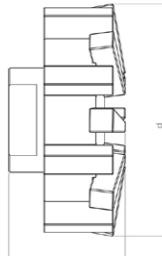

V-shape milling cutter machined for minimum runout

Materials to be processed

- Reinforced Concrete
- Concrete
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals

Article-No.	d1 mm	d2 mm	h mm	Segments	Weight kg
20039 P 5/8"UNC	42	52	42	9	0.3

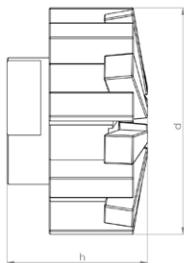

Inlet milling cutter machined for minimum runout

Materials to be processed

- Reinforced Concrete
- Concrete
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals

Article-No.	d mm	h mm	Segments	Weight kg
20015 P 5/8"UNC	68	33	16	0.4

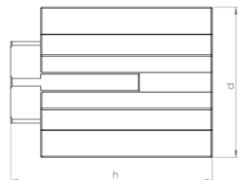

Inlet milling cutter machined for minimum runout

Materials to be processed

- Reinforced Concrete
- Concrete
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals

Article-No.	d mm	h mm	Segments	Weight kg
20047 P 5/8"UNC	55	35	16	0.3


Finger milling cutter machined for minimum runout

Materials to be processed

- Reinforced Concrete
- Concrete
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of cracks and sockets

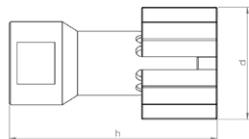
Article-No.	d mm	h mm	Segments	Weight kg
20048 P 5/8"UNC	35	50	7	0.2



IMS* TURBO 3*



Finger milling cutter machined for minimum runout



Materials to be processed

- Reinforced Concrete
- Cast Iron
- Concrete
- Vitrified Clay

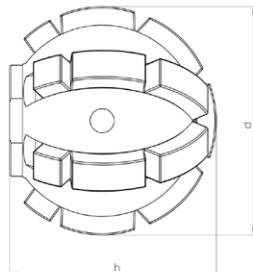
Field of Application

- Preparatory milling of cracks and sockets

Article-No.	d mm	h mm	Segments	Weight kg
20003 P 5/8"UNC	30	55	5	0.1



Ball milling cutter



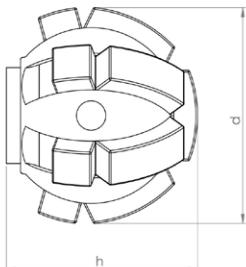
Materials to be processed

- Reinforced Concrete
- Cast Iron
- Concrete
- Vitrified Clay
- Deposits / Fouling

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20020 P 5/8"UNC	50	46	19	0.3

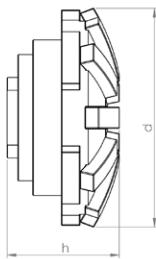

Ball milling cutter

Materials to be processed

- Reinforced Concrete
- Cast Iron
- Concrete
- Vitrified Clay
- Deposits / Fouling

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20021 P 5/8"UNC	40	37	13	0.2


N-TEC II®
Mushroom-head milling cutter spring-mounted

Materials to be processed

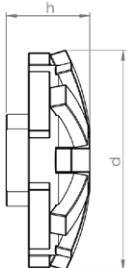
- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Removal of intruding laterals
- Surface grinding and milling
- Removal of intruding obstacles
- Milling of offset socket transitions

Article-No.	Pipe Ø mm	d mm	h mm	Segments	Weight kg
20036 5/8"UNC	200-300	80	42	15	0.75
20037 5/8"UNC	300-450	80	42	15	0.75
20038 5/8"UNC	450-600	80	42	15	0.75

Note: Milling tools in other segment hardnesses are available on request.

N-TEC II®
Mushroom-head milling cutter

Materials to be processed

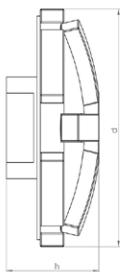
- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Removal of intruding laterals
- Surface grinding and milling
- Milling of offset socket transitions

Article-No.	Pipe Ø mm	d mm	h mm	Segments	Weight kg
20031 5/8"UNC	200-300	70	30	15	0.35
20032 5/8"UNC	300-450	70	30	15	0.35
20033 5/8"UNC	450-600	70	30	15	0.35

Note: Milling tools in other segment hardnesses are available on request.


N-TEC II® Mushroom-head milling cutter

Materials to be processed

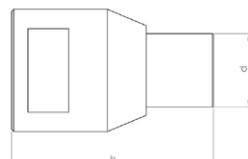
- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Removal of intruding laterals
- Surface grinding and milling
- Milling of offset socket transitions

Article-No.	Pipe Ø mm	d mm	h mm	Segments	Weight kg
21006 5/8"UNC	200-300	70	30	10	0.3
21007 5/8"UNC	300-450	70	30	10	0.3
21008 5/8"UNC	450-600	70	30	10	0.3

Note: Milling tools in other segment hardnesses are available on request.

N-TEC II® Slot milling cutter

Materials to be processed

- Reinforced Concrete
- Concrete
- Cast Iron
- Vitrified Clay

Field of Application

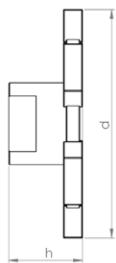
- Preparatory milling of cracks and sockets

Article-No.	d mm	h mm	Segments	Weight kg
20009 5/8"UNC	18	50	1	0.1



IMS* TURBO 3*

N•TEC II® Disk milling cutter



Materials to be processed

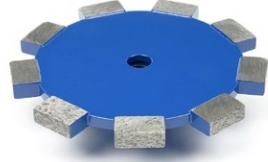
- Reinforced Concrete
- Vitrified Clay
- Concrete

Field of Application

- Milling of circumferential slots on laterals

Article-No.	d mm	h mm	Segments	Weight kg
20041 5/8"UNC	85	27	6	0.3

N•TEC II® Disk milling cutter



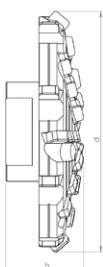
Materials to be processed

- Reinforced Concrete
- Vitrified Clay
- Concrete

Field of Application

- Milling of circumferential slots on laterals

Article-No.	d mm	h mm	Segments	Weight kg
20042 5/8"UNC	110	27	9	0.45


BLACK•LINE Mushroom-head milling cutter

Materials to be processed

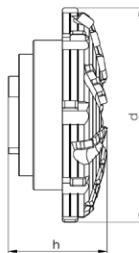
- Concrete
- Deposits / Fouling
- UV CIPP
- Roots
- PVC
- Vitrified Clay
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

- Surface milling
- Removal of intruding obstacles
- Milling of offset socket transitions

Article-No.	Pipe Ø mm	d mm	h mm	Segments	Weight kg
BL 11426 5/8"UNC	200-450	63	25	28	0.2
BL 11401 5/8"UNC	300-600	75	27	32	0.25

BLACK•LINE Mushroom-head milling cutter spring-mounted

Materials to be processed

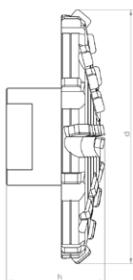
- Concrete
- Deposits / Fouling
- UV CIPP
- Roots
- PVC
- Vitrified Clay
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

- Surface milling
- Removal of intruding obstacles
- Milling of offset socket transitions

Article-No.	Pipe Ø mm	d mm	h mm	Segments	Weight kg
BL 11458 5/8"UNC	200-300	80	38	32	0.7
BL 11459 5/8"UNC	300-450	80	38	32	0.7
BL 11460 5/8"UNC	450-600	80	38	32	0.7


BLACK•LINE Mushroom-head milling cutter center cutting

Materials to be processed

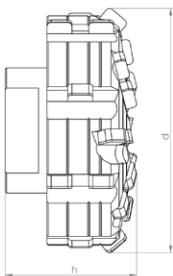
- Concrete
- Deposits / Fouling
- UV CIPP
- Roots
- PVC
- Vitrified Clay
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

- Frontal milling
- Surface milling
- Removal of intruding obstacles
- Milling of offset socket transitions

Article-No.	Pipe Ø mm	d mm	h mm	Segments	Weight kg
BL 11427 5/8"UNC	200-450	65	27	30	0.2
BL 11402 5/8"UNC	300-600	75	33	34	0.3

BLACK•LINE Inlet milling cutter

Materials to be processed

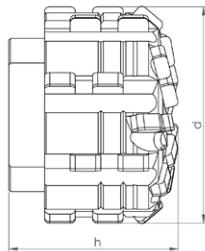
- Concrete
- Deposits / Fouling
- UV CIPP
- Roots
- PVC
- Vitrified Clay
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

- Opening of laterals and inlet lines
- Preparatory milling of laterals
- Removal of intruding laterals
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11409 5/8"UNC	55	30	28	0.35


BLACK•LINE Inlet milling cutter

Materials to be processed

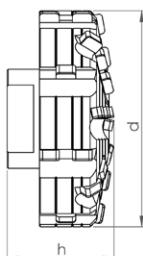
- Concrete
- Deposits / Fouling
- UV CIPP
- Roots
- PVC
- Vitrified Clay
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

- Opening of laterals and inlet lines
- Preparatory milling of laterals
- Removal of intruding laterals
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11451 5/8"UNC	45	32	32	0.2

BLACK•LINE Inlet milling cutter center cutting

Materials to be processed

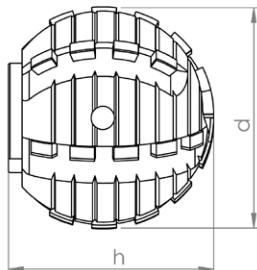
- Concrete
- Deposits / Fouling
- UV CIPP
- Roots
- PVC
- Vitrified Clay
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

- Opening of laterals and inlet lines
- Preparatory milling of laterals
- Removal of intruding laterals
- Frontal milling
- Surface milling
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11452 5/8"UNC	70	32	34	0.4


BLACK-LINE Ball milling cutter

Materials to be processed

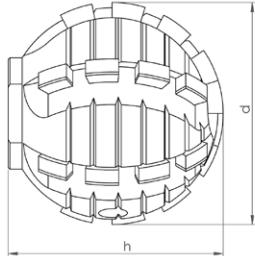
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11410 5/8"UNC	50	45	30	0.4

BLACK-LINE Ball milling cutter

Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

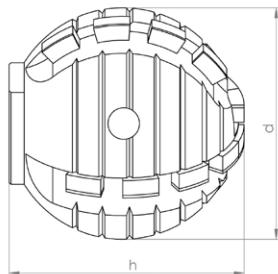
- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11446 5/8"UNC	40	42	26	0.25



IMS* TURBO 3*

BLACK•LINE Ball milling cutter



Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

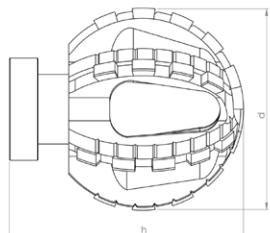
Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11414 5/8"UNC	40	42	18	0.25

BLACK•LINE Ball milling cutter Type ProView®



Materials to be processed

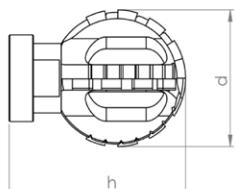
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11116 5/8"UNC	50	57	30	0.2


BLACK-LINE Ball milling cutter Type ProView®

Materials to be processed

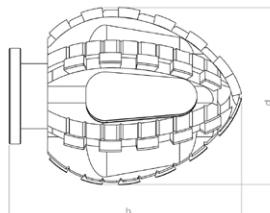
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11117 5/8"UNC	40	51	18	0.15

BLACK-LINE Double-cone milling cutter Type ProView®

Materials to be processed

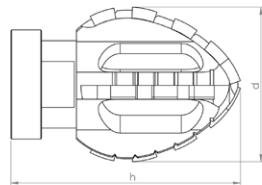
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11113 5/8"UNC	45	60	34	0.16


BLACK•LINE Double-cone milling cutter Type ProView®

Materials to be processed

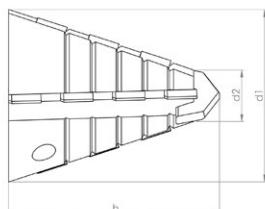
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11118 5/8"UNC	36	53	16	0.15


linerCUT Pro® Tapered milling cutter with tungsten carbide tip

Materials to be processed

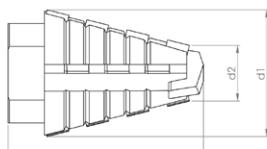
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d1 mm	d2 mm	h mm	Segments	Weight kg
BL 11463 5/8"UNC	40	18	47	14	0.14

linerCUT Pro® Tapered milling cutter with tungsten carbide tip

Materials to be processed

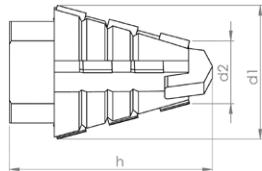
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d1 mm	d2 mm	h mm	Segments	Weight kg
BL 11437 5/8"UNC	28	18	45	14	0.08


linerCUT Pro® Tapered milling cutter with tungsten carbide tip

Materials to be processed

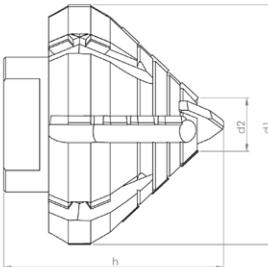
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d1 mm	d2 mm	h mm	Segments	Weight kg
BL 11438 5/8"UNC	30	18	35	10	0.06

linerCUT Pro® Taper/cylinder milling cutter with tungsten carbide tip

Materials to be processed

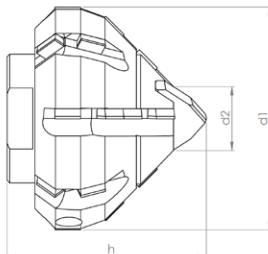
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d1 mm	d2 mm	h mm	Segments	Weight kg
BL 11441 5/8"UNC	55	20	46	24	0.3


linerCUT Pro® Taper/cylinder milling cutter with tungsten carbide tip

Materials to be processed

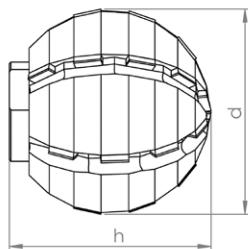
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d1 mm	d2 mm	h mm	Segments	Weight kg
BL 11439 5/8"UNC	45	20	40	22	0.2

linerCUT Pro® Ball milling cutter

Materials to be processed

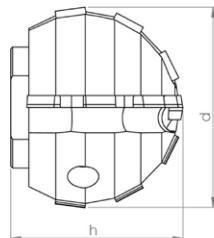
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11444 5/8"UNC	50	55	24	0.5


linerCUT Pro® Ball milling cutter

Materials to be processed

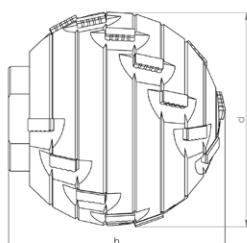
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11443 5/8"UNC	40	36	12	0.2


linerCUT Pro® 2.0 Ball milling cutter

Materials to be processed

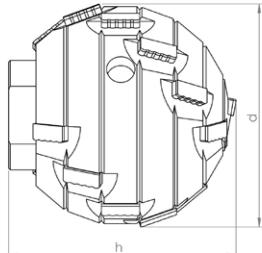
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11449 5/8"UNC	50	52	22	0.5

linerCUT Pro® 2.0 Ball milling cutter

Materials to be processed

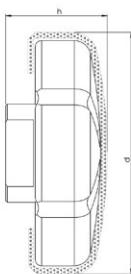
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11448 5/8"UNC	40	40	18	0.25

**D•GRIT****Inlet milling cutter****Materials to be processed**

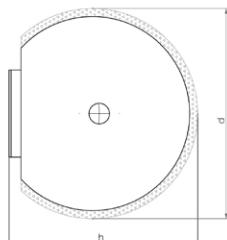
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
70011 5/8"UNC	70	30	Diamond	0.5

D•GRIT**Ball milling cutter****Materials to be processed**

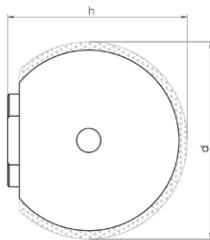
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
70002 5/8"UNC	50	48	Diamond	0.45

**D•GRIT****Ball milling cutter****Materials to be processed**

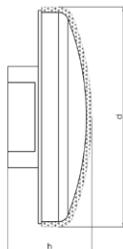
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
70001 5/8"UNC	40	38	Diamond	0.25

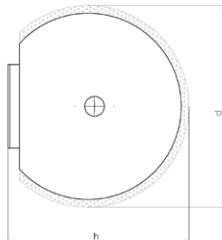

HM•LINE Mushroom-head milling cutter

Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50003 5/8"UNC	67	30	Carbide	0.3

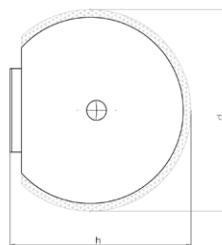
HM•LINE Ball milling cutter

Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50001 5/8"UNC	50	50	Carbide	0.6

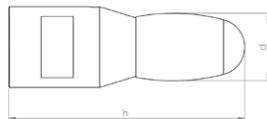
**HM•LINE****Ball milling cutter****Materials to be processed**

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50002 5/8"UNC	40	42	Carbide	0.3


VHM•LINE oval shaped

Materials to be processed

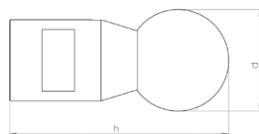
- Cast Iron
- Steel

Note: Use on concrete or vitrified clay will destroy the cutting elements!

Field of Application

- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
60007 5/8"UNC	16	62	1	0.15

VHM•LINE ball shaped

Materials to be processed

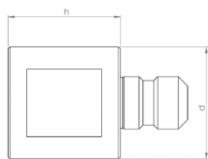
- Cast Iron
- Steel

Note: Use on concrete or vitrified clay will destroy the cutting elements!

Field of Application

- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
60008 5/8"UNC	25	60	1	0.15

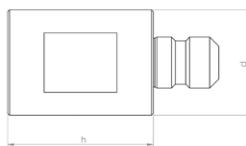

Extension 30 mm

Description

CNC fabricated tool extension for increased working radius of robot arm.

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
90120 5/8"UNC	30	30	0.15

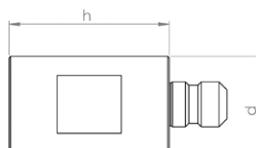
Extension 40 mm

Description

CNC fabricated tool extension for increased working radius of robot arm.

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
90121 5/8"UNC	30	40	0.2

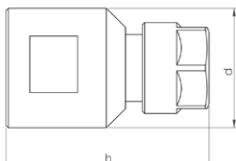
Extension 50 mm

Description

CNC fabricated tool extension for increased working radius of robot arm.

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
90122 5/8"UNC	30	50	0.25

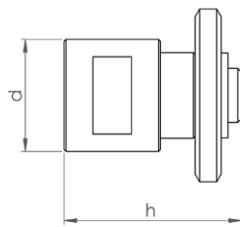

Adapter for mounting commercially available shank tools Ø 6 mm

Description

CNC fabricated collet chuck adapter for mounting commercially available shank tools.
 e.g. burrs, brushes, flap grinders etc...
 Mounting: Shank Ø 6-6,5 mm

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
90171 5/8"UNC	30	40	0.1

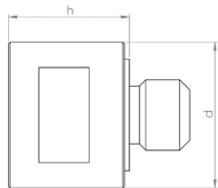
Adapter for mounting of 3 cutting discs

Description

CNC fabricated adapter for mounting of 3 cutting discs.
 Mounting shaft Ø 22,2 mm
 includes cutting discs and locking disc
NOTE: This adapter cannot be used to mount a single cutting disc!

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
90168 5/8"UNC	30	46	0.2

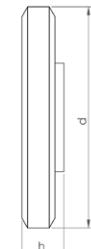
Adapter for mounting of brushes and cutting discs

Description

CNC fabricated adapter for mounting of brushes and cutting discs.
 Thread: M14 (14 mm O.D.)
 Centering ring for cutting disc: Ø 22,2 mm
NOTE: When mounting wheel brushes or cutting discs, a locking disc is also required!

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
90112 5/8"UNC	30	25	0.11


Locking disc for mounting of wheel brushes and cutting discs

Description

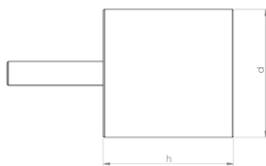
Thread: M14 (14 mm O.D.)

NOTE: Wheel brushes and cutting discs must be mounted using matching adapters!

Specification

Steel, burnished

Article-No.	d mm	h mm	Weight kg
SP 90110	45	8,5	0,07

Mounted point-cylindrical

Description

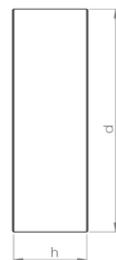
Corundum mounted point, for working on steel and cast iron.

NOTE: Only useable with adapter!

Specification

Corundum

Article-No.	d mm	h mm	Weight kg
81002	32	32	0,08

Cup wheel Ø 80 mm

Description

Corundum cup wheel, for working on steel and cast iron.

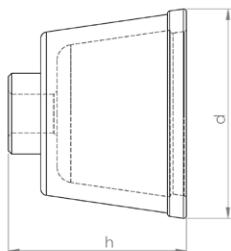
Mounting hole Ø 22,2 mm

NOTE: May be used only with matching adapter and locking disc!

Specification

Corundum

Article-No.	d mm	h mm	Weight kg
81003	80	28	0,2


Cup brush Ø 65 mm

Description

Premium rotary wire brush for finishing work on CIPP liners and PVC.

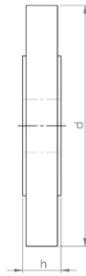
Mounting hole M14 (14 mm thread O.D.)

NOTE: May be used only with matching adapter!

Specification

Wire thickness: Ø 0,8 mm

Article-No.	d mm	h mm	Weight kg
80020	65	50	0.25

Wheel brush Ø 100 mm

Description

Premium rotary wire brush for finishing work on CIPP liners and PVC.

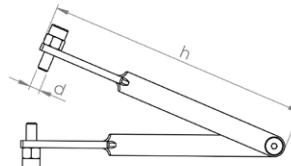
Mounting hole Ø 22,2 mm

NOTE: May be used only with matching adapter and locking disc!

Specification

Wire thickness: Ø 0,5 mm

Article-No.	d mm	h mm	Weight kg
80018	100	15	0.2

Pin-tipped tongs for safe tool changeover

Description

The tongs are fitted with pin (with adjustable gripping depth) which are inserted into the gripping holes of the milling tools, permitting safe changeover without risking damage to the tooling.

Specification

Steel

Article-No.	d mm	h mm	Weight kg
92002	5	150	0.125



N-TEC II	Field-Proven Standard Diamond Tools with Outstanding Value for Purchase Investment	
	Materials to be processed	
	<ul style="list-style-type: none"> • Reinforced Concrete • Concrete • Deposits / Fouling • Cast Iron • Vitrified Clay 	Page 135
BLACK-LINE	High-Tech Milling Tools made of PCD with Unbeatable Cutting and Stock Removal Performance for Almost Every Material	
	Materials to be processed	
	<ul style="list-style-type: none"> • UV CIPP • Roots • PVC • Felt CIPP 	Page 137
linerCUT Pro®	Absolutely Smooth-Running and Precise PCD Cutting Tools for Opening CIPP - Optimized for UV CIPP -	
	Materials to be processed	
	<ul style="list-style-type: none"> • UV CIPP • PVC • Felt CIPP 	Page 140
linerCUT Pro® 2.0	Absolutely Smooth-Running and Precise PCD Cutting Tools for Opening CIPP - All Kinds of CIPP and PVC -	
	Materials to be processed	
	<ul style="list-style-type: none"> • UV CIPP • PVC • Felt CIPP 	Page 141
D-GRIT	Milling Tools with Diamond Granules for Opening CIPP - Optimal for UV CIPP and Lined Cast Iron Pipes -	
	Materials to be processed	
	<ul style="list-style-type: none"> • UV CIPP • PVC • Felt CIPP 	Page 142
HM-LINE	Cost-Efficient Milling Tools with Carbide Granulate Tipping for Opening and Reworking CIPP	
	Materials to be processed	
	<ul style="list-style-type: none"> • UV CIPP • Roots • PVC • Felt CIPP 	Page 143
VHM-LINE	Special Milling Tools for Processing Steel and Cast Iron	
	Materials to be processed	
	<ul style="list-style-type: none"> • Cast Iron • Steel 	Page 144



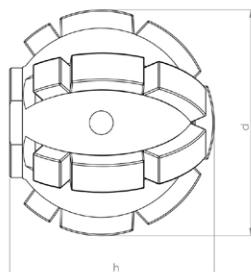
IMS* MIDI/MINI (until 2010)*



Functional Accessories

High-quality brushes, adapters, extensions, etc.

Page 145

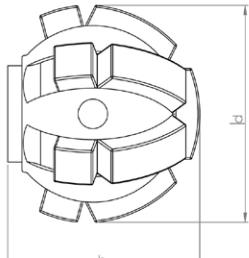

N-TEC II® Ball milling cutter

Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20020 5/8"UNC	50	46	19	0.3

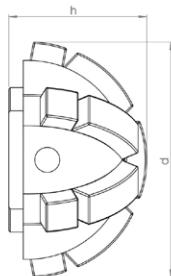
N-TEC II® Ball milling cutter

Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20021 5/8"UNC	40	37	13	0.2

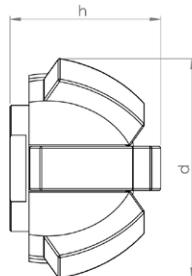
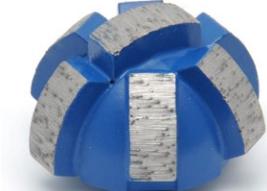

N-TEC II® Half-ball milling cutter

Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

- Preparatory milling of laterals
- Removal of intruding laterals
- Frontal milling
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20034 5/8"UNC	50	29	13	0.15

N-TEC II® Half-ball milling cutter

Materials to be processed

- Reinforced Concrete
- Concrete
- Deposits / Fouling
- Cast Iron
- Vitrified Clay

Field of Application

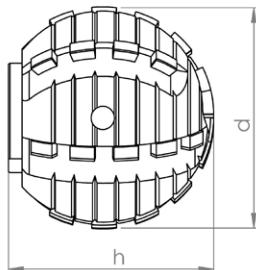
- Preparatory milling of laterals
- Removal of intruding laterals
- Frontal milling
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
20035 5/8"UNC	36	25	7	0.1



IMS* MIDI/MINI (until 2010)*

BLACK-LINE Ball milling cutter



Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

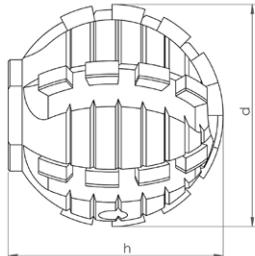
Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11410 5/8"UNC	50	45	30	0.4

BLACK-LINE Ball milling cutter



Materials to be processed

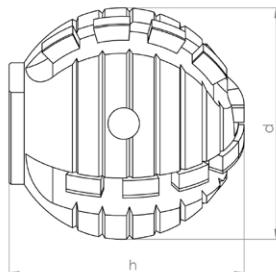
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11446 5/8"UNC	40	42	26	0.25


BLACK-LINE Ball milling cutter

Materials to be processed

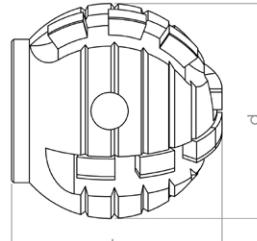
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC and for cutting roots!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11414 5/8"UNC	40	42	18	0.25

BLACK-LINE Ball milling cutter

Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

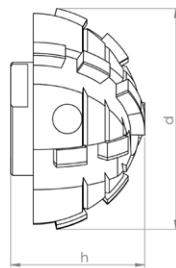
- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11408 5/8"UNC	30	32	14	0.1



IMS* MIDI/MINI (until 2010)*

BLACK-LINE Half-ball milling cutter



Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

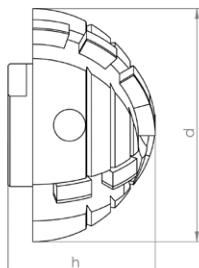
Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11465 5/8"UNC	40	25	16	0.15

BLACK-LINE Half-ball milling cutter



Materials to be processed

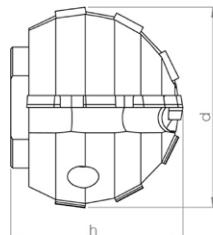
- UV CIPP
- Roots
- PVC
- Felt CIPP

Note: Use on steel-reinforced concrete will destroy the cutting elements!

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
BL 11428 5/8"UNC	40	25	12	0.07


linerCUT Pro® Ball milling cutter

Materials to be processed

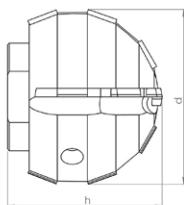
- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11443 5/8"UNC	40	36	12	0.2

linerCUT Pro® Ball milling cutter

Materials to be processed

- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

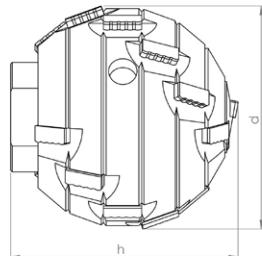
- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11442 5/8"UNC	30	29	14	0.1



IMS* MIDI/MINI (until 2010)*

linerCUT Pro® 2.0 Ball milling cutter



Materials to be processed

- UV CIPP
- Felt CIPP
- PVC

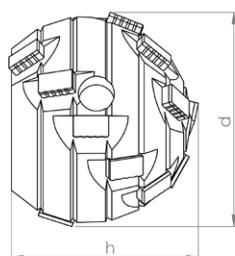
Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

Article-No.	d mm	h mm	Segments	Weight kg
BL 11448 5/8"UNC	40	40	18	0.25

linerCUT Pro® 2.0 Ball milling cutter



Materials to be processed

- UV CIPP
- Felt CIPP
- PVC

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

- Opening of laterals and inlet lines

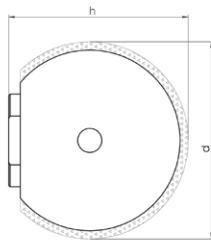
Article-No.	d mm	h mm	Segments	Weight kg
BL 11447 5/8"UNC	30	25	16	0.1



IMS* MIDI/MINI (until 2010)*

D·GRIT

Ball milling cutter



Materials to be processed

- UV CIPP
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC!

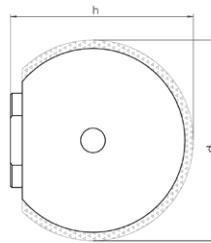
Field of Application

- Opening of laterals and inlet lines
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
70001 5/8"UNC	40	38	Diamond	0.25

D·GRIT

Ball milling cutter



Materials to be processed

- UV CIPP
- PVC
- Felt CIPP

Note: Only suitable for processing CIPP liners and PVC!

Field of Application

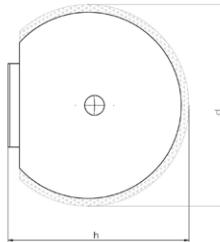
- Opening of laterals and inlet lines
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
70003 5/8"UNC	30	30	Diamond	0.15



IMS* MIDI/MINI (until 2010)*

HM•LINE Ball milling cutter



Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50002 5/8"UNC	40	42	Carbide	0.3

HM•LINE Half-ball milling cutter



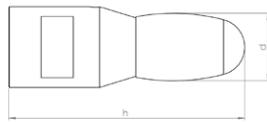
Materials to be processed

- UV CIPP
- Roots
- PVC
- Felt CIPP

Field of Application

- Opening of laterals and inlet lines
- Removal of intruding obstacles
- CIPP liner finishing

Article-No.	d mm	h mm	Grit	Weight kg
50004 5/8"UNC	40	30	Carbide	0.15


VHM•LINE oval shaped

Materials to be processed

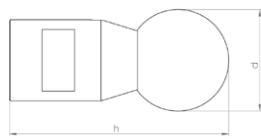
- Cast Iron
- Steel

Note: Use on concrete or vitrified clay will destroy the cutting elements!

Field of Application

- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
60007 5/8"UNC	16	62	1	0.15

VHM•LINE ball shaped

Materials to be processed

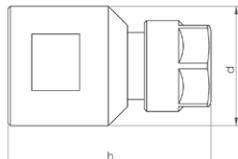
- Cast Iron
- Steel

Note: Use on concrete or vitrified clay will destroy the cutting elements!

Field of Application

- Removal of intruding obstacles

Article-No.	d mm	h mm	Segments	Weight kg
60008 5/8"UNC	25	60	1	0.15

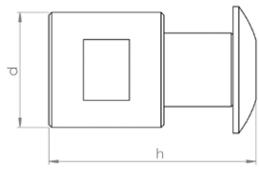

Adapter for mounting commercially available shank tools Ø 6 mm

Description

CNC fabricated collet chuck adapter for mounting commercially available shank tools.
 e.g. burrs, brushes, flap grinders etc...
 Mounting: Shank Ø 6-6,5 mm

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
90171 5/8"UNC	30	40	0.1

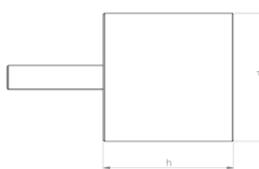
Adapter for mounting of 2 wheel brushes

Description

CNC fabricated adapter for mounting of 2 wheel brushes.
 Mounting shaft Ø 12,7 mm
 includes locking screw and cupped washer
NOTE: This adapter cannot be used to mount a single brush!

Specification

Stainless steel

Article-No.	d mm	h mm	Weight kg
90146 5/8"UNC	20	32	0.05

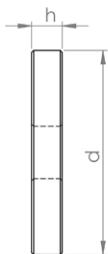
Mounted point-cylindrical

Description

Corundum mounted point, for working on steel and cast iron.
NOTE: Only useable with adapter!

Specification

Corundum

Article-No.	d mm	h mm	Weight kg
81002	32	32	0.08


Wheel brush Ø 45 mm

Description

Premium rotary wire brushes for finishing work on CIPP liners and PVC.

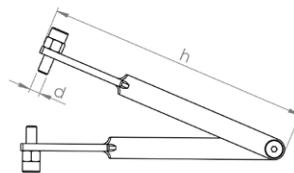
Mounting hole Ø 12,7 mm

NOTE: May be used only with matching adapter! Packing unit: 2 pieces

Specification

Wire thickness: Ø 0,3 mm

Article-No.	d mm	h mm	Weight kg
80025	45	8	0.05

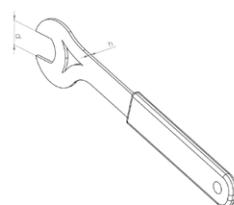
Pin-tipped tongs for safe tool changeover

Description

The tongs are fitted with pin (with adjustable gripping depth) which are inserted into the gripping holes of the milling tools, permitting safe changeover without risking damage to the tooling.

Specification

Steel

Article-No.	d mm	h mm	Weight kg
92002	5	150	0.125

Open-end wrench 17 mm

Description

The flat design of the wrench is particularly well suited for milling tools with low base height.

Specification

Steel

Article-No.	d mm	h mm	Weight kg
92001 SW17	17	2	0.08