

Accessories for MKT Injection Systems

Blow-out pump VM-AP



→ For assessment-compliant drill hole cleaning of many anchor systems

→ For best drill hole cleaning, the hose must reach the bottom of the drill hole

Description	Ref. No.	For drill hole Ø mm	Max. drill hole depth ¹⁾ mm	Length mm	Pkg. cont. pcs.	Weight per piece kg
Blow-out pump VM-AP 270	29990002	12 - 20	200	270	1	0,22
Blow-out pump VM-AP 360	33200101	8 ²⁾ - 20	330	360	1	0,27

¹⁾For through fastening: Maximum drill hole depth through fixture

²⁾With extension tube Ø6 x 100mm

Air gun VM-ABP



→ For assessment-compliant drill hole cleaning with compressed air for drill holes with a diameter larger than 6 mm

→ For best drill hole cleaning, the nozzle of the air gun must reach the bottom of the drill hole

Description	Ref. No.	Nozzle-ø mm	For drill hole Ø mm	Max. drill hole depth ¹⁾ mm	Pkg. cont. pcs.	Weight per piece kg
VM-ABP 200	33090101	5	6-20	240	1	0,55
VM-ABP 250	33100101	16	18-55	240	1	1,00
VM-ABP 500	33106101	16	18-55	480	1	1,30

¹⁾For through fastening: Maximum drill hole depth through fixture

Air gun VM-ABP 1000



→ For assessment-compliant drill hole cleaning with compressed air for drill holes with a diameter larger than 16 mm

→ For best drill hole cleaning, the nozzle of the air gun must reach the bottom of the drill hole

Description	Ref. No.	Nozzle-ø mm	For drill hole Ø mm	Max. drill hole depth ¹⁾ mm	Pkg. cont. pcs.	Weight per piece kg
VM-ABP 1000	85806101	14	16-55	1000	1	0,32

¹⁾For through fastening: Maximum drill hole depth through fixture

Compressed Air System DLS

→ For blowing out drill holes up to 3 m deep

→ The connection set RS for connection to a compressor, an air hose RS and, for the injection system VME, the corresponding blow-out nozzle RD are required

Air Valve RS



→ Connection set RS with manual slide valve with air valve and connector for connection to a compressor

Air hose RS



→ Air hose RS, pre-assembled with connectors for connection between connection set RS and blow-out nozzle RD

Blow-out nozzle RD



→ Blow-out nozzles RD for optimum cleaning of the drill hole and the drill hole walls

→ Fits on the air hose RS

Description	Ref. No.	For drill hole Ø mm	Max. drill hole depth ¹⁾ mm	Length mm	Pkg. cont. pcs.	Weight per piece kg
Air hose RS	85890101	12 - 35	-	-	1	0,42
Air Valve RS 25	85802101	12 - 28	2000	2000	1	0,11
Air Valve RS 35	85804101	30 - 55	3000	3000	1	0,44
Blow-out nozzle RD 12/14	85852101	12 - 14	-	-	1	0,01
Blow-out nozzle RD 16/18	85854101	16 - 18	-	-	1	0,02
Blow-out nozzle RD 20/25	85856101	20 - 25	-	-	1	0,03
Blow-out nozzle RD 30/35	85858101	30 - 35	-	-	1	0,05

¹⁾For through fastening: Maximum drill hole depth through fixture

Cleaning Brush RB M6



- For machine cleaning of drill holes
- Stainless steel trim for a long service life
- With connection thread M6
- For drilling machines with keyed chuck
- SDS plus adapter for use in a hammer drill
- Use brush extensions according to the drilling depth. Several brush extensions can be screwed together for further extension.

Description	Ref. No.	Suitable for drill hole Ø mm	Length mm	Filling length mm	Pkg. cont. pcs.	Weight per piece kg
RB 10 M6	33510101	10	130	80	1	0,03
RB 12 M6	33512101	12	140	80	1	0,03
RB 14 M6	33514101	14	180	80	1	0,04
RB 16 M6	33516101	16	200	100	1	0,05
RB 18 M6	33518101	18	200	100	1	0,06
RB 20 M6	33520101	20	220	100	1	0,10
RB 22 M6	33522101	22	220	100	1	0,10
RB 24 M6	33524101	24	250	100	1	0,11
RB 26 M6	33526101	25 / 26	290	100	1	0,12
RB 28 M6	33528101	28	260	100	1	0,11
RB 30 M6	33530101	30	350	100	1	0,12
RB 32 M6	33532101	32	350	100	1	0,13
RB 35 M6	33535101	35	350	100	1	0,14
RB 40 M6	33537101	40	350	100	1	0,15
RB 45 M6	on request	45	-	-	1	-
RB 55 M6	on request	55	-	-	1	-
Brush extension RBL M6	33968101	-	150	-	1	0,09
SDS Plus adapter RBL M6 SDS	33350101	-	110	-	1	0,06

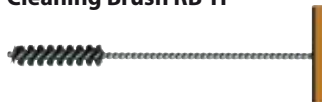
Cleaning Brush RB M8



- Extra sturdy construction for machine cleaning of particularly deep drill holes
- Stainless steel trim for a long service life
- With connection thread M8
- For drilling machines with keyed chuck
- SDS plus adapter for use in a hammer drill
- Use brush extensions according to the drilling depth. Several brush extensions can be screwed together for further extension.

Description	Ref. No.	Suitable for drill hole Ø mm	Length mm	Filling length mm	Pkg. cont. pcs.	Weight per piece kg
RB 12 M8	85812101	12	180	140	1	0,05
RB 14 M8	85814101	14	180	140	1	0,05
RB 16 M8	85816101	16	180	140	1	0,05
RB 18 M8	85818101	18	180	140	1	0,05
RB 20 M8	85820101	20	180	140	1	0,05
RB 25 M8	85825101	25	180	140	1	0,06
RB 32 M8	85832101	32	180	140	1	0,08
RB 35 M8	85835101	35	180	140	1	0,08
Brush extension RBL M8	85871101	-	550	-	1	0,32
SDS Plus adapter RBL M8 SDS	85881101	-	110	9	1	0,07

Cleaning Brush RB-H



- For manual drill hole cleaning of non-approved systems in solid and perforated masonry
- Nylon trim
- With wooden handle

Description	Ref. No.	Suitable for drill hole Ø mm	Length mm	Pkg. cont. pcs.	Weight per piece kg
RB-H 12/250	29914501	8-12	250	1	0,04
RB-H 18/250	29918501	10-18	250	1	0,04
RB-H 18/400	33618101	10-18	400	1	0,05
RB-H 28/280	29928501	20-28	280	1	0,05
RB-H 28/400	33628101	20-28	400	1	0,06

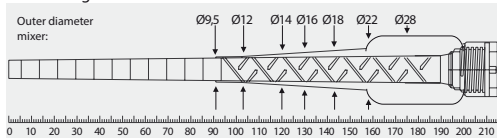
Static mixer

- To mix the two components of the injection adhesive
- Before each application, squeeze out an approx. 10cm long strand (initial strand). The initial strand is not suitable for fastening. (See European Technical Assessment and Installation Instructions)
- Usable length static mixer: Drill holes must always be filled from the bottom of the hole to ensure no air pockets are trapped in the adhesive. This is only possible when the tip of the mixing nozzle reaches the very bottom of the drill hole before injecting the adhesive. If the mixing nozzle does not reach the bottom of the drill hole, a mixer extension tube must be used.

VM-X



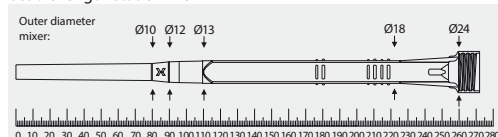
Usable length Static mixer VM-X



VM-XHP



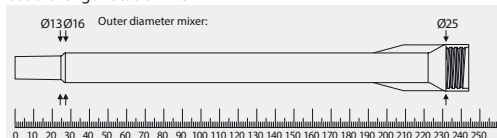
Usable length Static mixer VM-XHP



VM-XL



Usable length Static mixer VM-XL



Description	Ref. No.	Suitable for Injection Systems / Cartridges	Length mm	Package content pcs.	Weight per pkg. kg
VM-X	28305111	VMZ: all Cartridges, VMU plus: 150ml, 280ml, 300ml, 345ml, 410ml VMU plus Polar: all Cartridges VM-EA: all Cartridges	215	12	0,12
VM-XHP	28305301	VME plus: all Cartridges VME basic: all Cartridges VMH: all Cartridges	272	12	0,18
VM-XL ¹⁾	28305201	VMU plus: all Cartridges	245	10	0,28

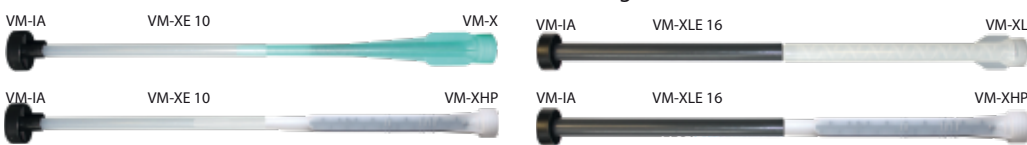
¹⁾Static mixer VM-XL comes with a reducers / extension tube. Suitable for drill holes from 12mm diameter.

Extension tubes



- Extension tubes for deeper drill holes
- Extension tubes VM-XE and VM-XLE can be cut to the required length

Possible combinations static mixer / Extension tube / Retaining Washer:



Description	Ref. No.	Diameter mm	Length mm	Drill hole-Ø mm	Suitable for static mixer	Package content pcs.	Weight per pkg. kg
VM-XE 10/200	28306011	10	200	12 - 40	VM-X VM-XHP VM-XL	12	0,12
VM-XE 10/500	85951101	10	500	12 - 40		10	0,20
VM-XE 10/1000	85952101	10	1000	12 - 40		10	0,30
VM-XE 10/2000	85954101	10	2000	12 - 40	VM-XHP VM-XL	10	0,65
VM-XLE 16/250	85959101	16	250	18 - 55		10	0,30
VM-XLE 16/1000	85956101	16	1000	18 - 55		10	1,15
VM-XLE 16/2000	85958101	16	2000	18 - 55		10	3,50

Retaining Washer VM-IA



- For bubble-free filling of the drill hole
- Suitable for extension tubes VM-XE 10 and VM-XLE 16

Description	Ref. No.	Suitable for drill hole Ø mm	Pkg. cont. pcs.	Weight per pkg. kg
VM-IA 14	85914201	14	20	0,04
VM-IA 16	85916201	16	20	0,04
VM-IA 18	85918201	18	20	0,04
VM-IA 20	85920201	20	20	0,06
VM-IA 22	85922201	22	20	0,06
VM-IA 24	85924101	24	20	0,06
VM-IA 25	85925201	25 / 26	20	0,06
VM-IA 28	85928101	28	20	0,06
VM-IA 30	on request	30	-	-
VM-IA 32	85932201	32	20	0,08
VM-IA 35	85935201	35	20	0,10
VM-IA 40	85938201	40	20	0,10
VM-IA 45	on request	45	-	-
VM-IA 55	on request	55	-	-

Dispenser VM-P Standard



- For occasional use, metal version
- Piston rod with adjusting screw

Description	Ref. No.	Suitable for cartridge	Pkg. cont.	Weight per piece kg
VM-P 345 Standard	28350505	150ml, 280ml, 300ml, 345ml also suitable for silicone cartridges	1	1,00
VM-P 380 Standard	28353005	380ml, 410ml, 420ml	1	1,15
VM-P 585 Standard	28352151	385ml, 440ml, 585ml	1	1,60

Dispenser VM-P Profi



- Professional dispenser with an ideal center of gravity for more comfortable working
- Automatic pressure release for minimum adhesive overrun

Description	Ref. No.	Suitable for cartridge	Pkg. cont.	Weight per piece kg
VM-P 345 Profi	28350511	150ml, 280ml, 300ml, 345ml also suitable for silicone cartridges	1	1,00
VM-P 380 Profi	28351001	380ml, 410ml, 420ml	1	1,10

Dispenser VM-P 585 Profi



- Professional dispenser with an ideal center of gravity for more comfortable working
- Combi-tool for many different types of cartridges
- Automatic pressure release for minimum adhesive overrun

Description	Ref. No.	Suitable for cartridge	Pkg. cont.	Weight per piece kg
VM-P 585 Profi	28353201	280ml, 300ml, 330ml, 380ml, 385ml, 410ml, 420ml, 440ml, 585ml also suitable for silicone cartridges	1	1,67

Dispenser VM-P Akku



- Professional, solid battery cartridge dispenser
- Repeat function, for retrieving the last fill quantity
- Stepless variable pressing speed
- Overrun-quantity-stop by automatic return after release of the dispensing switch

Description	Ref. No.	Suitable for cartridge	Press-out force kN	Weight ¹⁾ kg	Dimensions ¹⁾ L x B x H mm	Pkg. cont.	Weight pro pcs. kg
VM-P 345 Akku	28350801	345ml	5,0	3,53	395 x 180 x 285	1	7,72
VM-P 380 Akku	28352601	380ml, 410ml, 420ml	3,95	3,62	375 x 180 x 285	1	7,80
VM-P 585 Akku	28353301	385ml, 440ml, 585ml	5,0	3,86	440 x 180 x 285	1	8,05
VM-P 825 Akku	28353501	825 ml	5,0	4,14	410 x 180 x 285	1	8,34
Accessories (for all models)							
Replacement battery	28352411		18V/2,0 Ah			1	1,00
Shoulder strap	28359991		adjustable			1	0,18

¹⁾ with Akku 18V/2,0 Ah

Dispenser VM-P Pneumatic



VM-P 345
Pneumatic Eco



VM-P 380 /
585 Pneumatic



VM-P 1400
Pneumatic

- Professional air tool with an optimum center of gravity and quick cartridge exchange
- Automatic pressure release system reduces adhesive overrun to a minimum
- Single-hand pressure regulation to adjust the piston speed
- With compressed air connection nipple
- VM-P 825 Pneumatic and VM-P 1400 Pneumatic with additional handle

Description	Ref. No.	Suitable for cartridge	Maximum working pressure bar	Maximum Luftverbrauch l/min	Maximum Press-out force kN	Pkg. cont. pcs	Weight per piece kg
VM-P 345 Pneumatic Eco	28351601	280 ml, 300 ml, 345 ml	6,8	40	2,2	1	2,55
VM-P 380 Pneumatic	28352002	380 ml, 410 ml, 420 ml	8	40	4,0	1	2,80
VM-P 380 Pneumatic Eco	28351701	380 ml, 410 ml, 420 ml	6,8	40	2,2	1	2,50
VM-P 585 Pneumatic	28352101	385 ml, 440 ml, 585 ml	8	40	4,0	1	3,20
VM-P 825 Pneumatic	28352110	825 ml	8	40	4,0	1	5,00
VM-P 1400 Pneumatic	28352201	1400 ml	8	40	8,3	1	7,00

Filling Washer VS



Filling Washer VS

Description

The VS filling washer is used for subsequent filling of the annular gap between fastening element (wedge anchor, concrete screw or anchor rod) and attachment. With the wedge anchors BZ3 and BZ plus as well as the BSZ concrete screw, the filling washer VS is additionally mounted, with injection systems in exchange to the existing washers of the anchor rods. After assembly, injection adhesive (VMZ, VMH, VMU plus or VME plus) is injected into the cross-section drill hole injected with the enclosed mixer reduction, until adhesive emerges.

Advantages

The filling washer enables filling of the annular gap as the final step to set the anchor.

- Larger holes are possible in the item being attached
- Increased allowable shear loads under seismic loading

Application

For fastenings made using the MKT Wedge Anchors BZ3 and BZ plus, the Concrete screw BSZ, as well as the MKT Injection Systems VMZ, VMH, VMU plus or VME plus.

Note

When choosing an anchor, observe that the fixture thickness of the anchor must be reduced by up to 6mm.

Filling Washer VS

→ Steel, zinc plated

→ Every 20-pack includes 10, every 10-pack includes 5 and every 4-pack includes 2 mixer tips

Description	Ref. No.	Suitable for thread	Internal-Ø mm	Outer-Ø mm	Filling Washer VS thickness mm	Reduction of fixture thickness t _{fix} by		Package content pcs.	Weight per package kg
						BZ3, BZ plus, BSZ mm	VMZ, VMH, VMU plus, VME plus mm		
VS M8	56084101	M8	9	23	5	5	3,4	20	0,32
VS M10	56104101	M10	12	26	5	5	3	20	0,37
VS M12	56124101	M12	14	28	5	5	2,5	20	0,40
VS M16	56164101	M16	17	34	5	5	2	10	0,30
VS M20	56204101	M20	21	41	5	5	2	10	0,41
VS M24	56244101	M24	25	48	6	6	2	4	0,30

Filling Washer VS A4



→ Stainless Steel A4

→ Every 20-pack includes 10, every 10-pack includes 5 and every 4-pack includes 2 mixer tips

Description	Ref. No.	Suitable for thread	Internal-Ø mm	Outer-Ø mm	Filling Washer VS thickness mm	Reduction of fixture thickness t _{fix} by		Package content pcs.	Weight per package kg
						BZ3 A4, BZ plus A4, BSZ2 A4 mm	VMZ, VMH, VMU plus, VME plus mm		
VS M8 A4	56084501	M8	9	23	5	5	3,4	20	0,32
VS M10 A4	56104501	M10	12	26	5	5	3	20	0,37
VS M12 A4	56124501	M12	14	28	5	5	2,5	20	0,40
VS M16 A4	56164501	M16	17	34	5	5	2	10	0,30
VS M20 A4	56204501	M20	21	41	5	5	2	10	0,41
VS M24 A4	56244501	M24	25	48	6	6	2	4	0,30