



CIVIL ENGINEERING, TUNNELING & MINING

Accessories catalogue



F. Willich

SINCE 1882

CIVIL ENGINEERING, TUNNELING & MINING

Injection • Waterproofing • Consolidation • Repair • Anchoring

The fields of application of our products in civil engineering & mining as well as in other areas of construction are the consolidation of soil, rock or raw materials, in the sealing against water, the safe and economical filling of cavities, in anchor technology and the repair of structures.

To solve these often-challenging problems, we have at our disposal not only a range of tried-and-tested grouting and repair products, we also have the necessary products for repair, we also have the necessary injection technology such as injection equipment, data recording, injection anchors and injection accessories.

We would be pleased to support you with our experience and personal know-how, when it comes to anchoring, sealing, backfilling, consolidation and repair, worldwide.





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HP TUBE

DN 10, Steck-O, Type 2 SN



Length	Article number
2 m	WIAC4-00004
10 m	WIAC4-00003

SECURING CLIP

DN 10, Steck-O



Article number
WIAC4-00015

CHECK VALVE

DN 10, Steck-O, Sleeve/Nipple, flow direction Nipple



Article number
WIAC4-00016

BALL VALVE

DN 10, Steck-O, Sleeve/Nipple



Article number
WIAC4-00009

T-SLEEVE

DN 10, Steck-O



Article number

WIAC4-00014

Y-SLEEVE

DN 10, Steck-O



Article number

WIAC4-00087

MIXING PIPE

for 2K-Systems, DN 10, Steck-O Nipple - M 20 x 1.5 ET
included 2 Mixing Elements (WIAC4-00052), without Screw Nipple (9515)



Length

320 mm

Article number

6559

MIXING PIPE

for 2K-Systems, DN 10, Steck-O Nipple - M 20 x 1.5 ET
included 4 Mixing Elements (WIAC4-00052), without Screw Nipple (9515)



Length

640 mm

Article number

WIAC4-00086

MIXING PIPE

for 2K systems , especially for the product WILLBOLT® , DN 10, plug-in O nipple - R 1/4" OT
included 2 Mixing Elements (WIAC4-00083), without Screw Nipple (WIAC4-00037)



Length	Article number
450 mm	WIAC4-00081

MIXING PIPE

for 2K-Systems, DN 10, Steck-O Nipple - M 10 x 1 ET
included 2 Mixing Elements (110090SC), without Screw Nipple (WIAC4-00080)



Length	Article number
350 mm	WIAC4-00082

MIXING ELEMENT

blue, 24 elements
suitable for WIAC4-00081 / WIAC4-00082



Diameter / Length	Article number
10 mm / 235 mm	WIAC4-00083
8 mm / 190 mm	110090SC

MIXING ELEMENT

yellow, 15 elements
suitable for 6559 / WIAC4-00086



Diameter / Length	Article number
12.7 mm / 155 mm	WIAC4-00052

GRID MIXER

static mixer plastic Ø 9.4 mm



Length

Article number

9.5 mm

WIAC4-00048

SCREW NIPPLE

DN 10, Steck-O



Thread

Article number

IT M 10 x 1

WIAC4-00080

IT M 20 x 1.5

9515

IT R 1/4"

WIAC4-00037

STRAIGHT SLEEVE

DN 10, Steck-O



Version

Article number

rigid

WIAC4-00019

STRAIGHT SLEEVE

steel, IT M 20 x 1.5 on both sides



Length

Article number

50 mm

WIAC4-00079

SCREW-IN NIPPLE

DN 10, Steck-O



Thread	Article number
M 20 x 1.5 ET	WIAC4-00061
R 3/8" ET	WIAC4-00062
R 1/4" ET	WIAC4-00063

DOUBLE NIPPLE

DN 10, Steck-O



Article number

WIAC4-00017

PLUG SLEEVE

DN 10, Steck-O



Article number

WIAC4-00064

PLUG NIPPLE

DN 10, Steck-O



Article number

WIAC4-00077

WELDABLE NIPPLE

DN 10, Steck-O



Article number

WIAC4-00078

SCREW SLEEVE

DN 10, Steck-O



Thread

Article number

R 1/4 IT	WIAC4-00060
M 10 x 1 IT	WIAC4-00084
G 3/8" IT	WIAC4-00059

REDUCTION NIPPLE



Thread

Article number

1" ET - 1/2" IT	WIAC4-00076
1/2" ET - 3/8" IT	WIAC4-00089

INJECTION ADAPTER

DN 10, Steck-O, Nipple



Thread

Article number

Trapeze titan 30/11	T30-DN10
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SCREW-IN SLEEVE

DN 10, Steck-O, turnable



Thread	Article number
R 3/8" ET	WIAC4-00066

RIGHT-ANGLE COUPLING

DN 10, Steck-O, Sleeve/Nipple



Article number
WIAC4-00043

O-RING

DN 10



Article number
WIAC4-00074

SUPPORT RING

DN 10



Article number
WIAC4-00075

INJECTION FEED PIPE SLEEVE

sleeve DN 10, Injection lance M 20 x 1.5 IT, pipe: 12 mm outer Diameter



Length	Article number
1 m	WIAC4-00071
2 m	WIAC4-00090
3 m	WIAC4-00091

INJECTION FEED PIPE SLEEVE WITH CROSS HANDLE

sleeve DN 10, Injection lance M 20 x 1.5 IT, pipe: 12 mm outer Diameter with cross handle



Length	Article number
1 m	WIAC4-00072

INJECTION FEED PIPE

plastic, M 20 x 1.5 IT/ET, extensible



Length	Article number
1.5 m	WIAC4-00073

INJECTABLE BOREHOLE PLUG

type „HS“ steel



Diameter	Article number
Ø 36 mm (Borehole Ø 38 - 51 mm)	WPAC4-00027
Ø 40 mm (Borehole Ø 42 - 55 mm)	WPAC4-00037
Ø 52 mm (Borehole Ø 54 - 80 mm)	WPAC4-00024

INJECTABLE BOREHOLE PLUG

type plastic



Diameter	Article number
Ø 36 mm (Borehole Ø 38 - 51 mm)	WPAC4-00026
Ø 40 mm (Borehole Ø 42 - 55 mm)	WPAC4-00002

RAM GROUTING LANCE - BASE PIECE ML

injection pipe, length 1000 mm, with conical tip, 6 x Ø 5 mm exit holes per m, spacing 160 mm, inner thread on one side



Thread	Article number
G 3/8" IT	WRAM4-00023

RAM GROUTING LANCE - BASE PIECE OL

injection pipe, length 1000 mm, for lost conical tip, without side exit holes, inner thread on one side



Thread	Article number
G 3/8" IT	WRAM4-00005

RAM GROUTING LANCE - EXTENSION ML

injection pipe, extension, length 1000 mm, 6 x Ø 5 mm exit holes per m, spacing 160 mm, inner and outer thread



Thread	Article number
G 3/8" ET / IT	WRAM4-00024

RAM GROUTING LANCE - EXTENSION OL

injection pipe, extension, length 1000 mm, without exit holes, inner and outer thread



Thread	Article number
G 3/8" ET / IT	WRAM4-00006

CHECK VALVE

Ø 21.3 mm, length = 67 mm, thread on both sides



Thread	Article number
G 3/8" ET / IT	WRAM4-00025

LOST CONICAL TIP

injection conical point with O-Ring, shaft diameter 14.9 x 25 mm,
for RAM grouting lance - Base Piece OL, WRAM4-00005



Diameter / Length	Article number
22 x 50 mm	WRAM4-00001

PILE DRIVER

coupling element between Ram grouting lance and Mounting tool, Ø 21.3 mm,
for WRAM4-00024 or WRAM4-00006



Version	Article number
G 3/8" ET/ SW 24	WRAM4-00008

MOUNTING TOOL

length 350 mm, Ø outer 50 mm, Ø inner 26 mm, shaft connection hexagonal for pneumatic hammer for Pile Driver WRAM4-00008



Version	Article number
hexagonal SW 22	WRAM4-00021

PLACING TOOL

Ø outer 45 x 220 mm, Ø inner 26 mm, SDS-Max connection for electric hammer for Pile Driver WRAM4-00008



Version	Article number
SW 24	WRAM4-00007

POINTING TOOL

mounting help for Pile Driver, with hexagonal shaft for battery screwdriver



Version	Article number
SW 24	WRAM4-00009

PULL AND INJECTION HEAD

help for pull of ram lances (toweys) and simultaneous injection coupling



Thread	Article number
G 1/4" IT/ET	WRAM4-00012

DOUBLE NIPPLE

connection between ram grouting lance and pull and injection head, with O-Ring, free passage \varnothing 8 mm, SW 19, mandatory for the use of 1/2 „Ram pull and Injection head“
for Pull and Injection head WRAM4-00012



Thread	Article number
G 3/8" ET - G 1/4" IT	WRAM4-00013

STEEL PACKER

outer thread G 1/4", free passage \varnothing 8 mm, for Ram grouting lance, connection Thread G 3/8"



Diameter / Length	Article number
25 x 200 mm	WRAM4-00014

RAM GROUTING LANCE - BASE PIECE ML

injection pipe, length 1000 mm, with conical tip, \varnothing 4 mm exit holes per m, spacing 125 mm, outer thread on one side



Thread	Article number
G 1/4" ET	WRAM4-00015

RAM GROUTING LANCE - BASE PIECE OL

injection pipe, length 1000 mm, for lost conical tip, without side exit holes, outer thread on one side



Thread	Article number
G 1/4" ET	WRAM4-00016

RAM GROUTING LANCE - EXTENSION ML

injection pipe, extension, length 1000 mm, Ø 4 mm exit holes, spacing 125 mm, outer thread on both sides



Thread	Article number
G 1/4" ET	WRAM4-00017

RAM GROUTING LANCE - EXTENSION OL

injection pipe, extension, length 1000 mm, without exit holes, outer thread on both sides



Thread	Article number
G 1/4" ET	WRAM4-00018

CHECK VALVE

length 52 mm, Ø 16 mm, inner thread on both sides



Thread	Article number
G 1/4" IT	WRAM4-00019

LOST CONICAL TIP

injection conical tip with O-Ring, shaft 8.9 x 25 mm
for RAM grouting lance - Base Piece OL



Diameter / Length	Article number
13 x 42 mm	WRAM4-00020

COUPLING SLEEVE

Ø 16 x 28 mm, inner thread on both sides



Thread	Article number
G 1/4" IT	WRAM4-00002

RAM AND INJECTION HEAD

help for ramming lances and simultaneous injection coupling

Thread	Article number
G 1/4" IT	WRAM4-00026

STEEL PACKER

outer thread M 10 x 1, Ø 18 x 170 mm, free passage Ø 6 mm, Sleeve G 1/4" IT as connection thread for Ram grouting lances



Diameter / Length	Article number
18 x 170 mm	WRAM4-00022

HDPE PIPE

for targeted injection of grouts in voids, cracks and cavities



Diameter	Article number
AD/ID 13/9 mm	WIAC4-00070
AD/ID 21/11 mm	WIAC4-00085

IBC CONNECTION HOSE

3 m suck and pressure hose 1", with 1" connection (Injection pump) to S 60 x 61 (IBC). System includes 1 pc. Hose adapter 1", 1 pc. Ball valve, 4 pcs. Hose clamps 1", Adapter S 60 x 61



Version	Article number
S 60 x 6 auf 1"	WSPA4-00041

MANOMETER

Diameter 63 mm, 0 - 400 bar, bottom connection



Version	Article number
1/4" ET	WSPA4-00002

STEEL PACKER WITH HP CONICAL HEAD NIPPLE

for injection of polyurethane and epoxy resins, for surface injection in brick masonry and for crack injection in reinforced concrete structures

pressure element 110 mm, pressure rubber 40 mm, HP conical head nipple M 6, SW 10



Diameter / Length	Article number
10 x 160 mm	WPAC4-00032

STEEL PACKER WITH HP CONICAL HEAD NIPPLE

for injection of polyurethane and epoxy resins, for surface injection in brick masonry and for crack injection in reinforced concrete structures

pressure element 70 mm, pressure rubber 30 mm, HP conical head nipple M 6, SW 10



Diameter / Length	Article number
13 x 110 mm	WPAC4-00031

STEEL PACKER WITH HP FLAT HEAD NIPPLE

pressure element 70 mm, pressure rubber 40 mm, M 8 IT, free passage 2.5 mm with HP-Flat head nipple M 8, SW 12, without check valve



Diameter / Length

16 x 130 mm

Article number

WPAC4-00030

STEEL PACKER

pressure element 70 mm, pressure rubber 40 mm, R 1/4" ET, free passage 4 mm, without flat head nipple, without check valve



Diameter / Length

16 x 130 mm

Article number

WPAC4-00029

STEEL PACKER WITH GEL-FLAT HEAD NIPPLE

pressure rubber 40 mm, M 10 x 1 ET, free passage \varnothing 4 mm, for injection of acrylate gels in curtain and surface injection, horizontal barrier in masonry, crack injection in reinforced concrete, refurbishment of dilatation joints



Diameter / Length

18 x 170 mm, pressure element 110 mm

18 x 300 mm, pressure element 240 mm

Article number

WPAC4-00028

WPAC4-00005

STEEL PACKER

pressure rubber 70 mm, outer thread M 10 x 1, free passage \varnothing 6 mm, SW 17



Diameter / Length

20 x 300 mm

22 x 300 mm

Article number

WPUR-INA-00102

WPAC4-00035

1-DAY PACKER - STEEL WITH CONICAL HEAD NIPPLE

pressure element 70 mm, pressure rubber 40 mm, HP-conical head nipple M 6, check valve



Diameter / Length

10 x 120 mm

13 x 120 mm

Article number

WPAC4-00014

WPAC4-00038

LAMELLA KNOCK-IN PACKER

with pneumatic quick coupling, for drill diameter Ø 18 mm



Diameter / Length

27 x 107 mm

Article number

WPAC4-00034

LAMELLA KNOCK-IN PACKER

with outer thread R 1/4", free passage Ø 7 mm, for drill diameter Ø 14 mm



Diameter / Length

14 x 95 mm

Article number

WPAC4-00033

PLACING TOOL

suitable for Lamella knock-in packer



Article number

WPUR-INA-00101

PLASTIC-FLAT HEAD NIPPLE

with inner thread R 1/4", max. 60 bar
without check valve



Diameter	Article number
16 mm	WPAC4-00039

GEL-FLAT HEAD NIPPLE

sealing ring, SW 17, Ø 4.5 mm passage



Thread	Article number
M 10 x 1	WPAC4-00003
IT R 1/4"	WPAC4-00018

STEEL-SWIVEL JOINT

working pressure up to 250 bar



Thread	Article number
IT/ET R 1/4"	WIAC4-00067

HOSE INJECTION PLUG

connection to quick release fastener, inner thread, free passage Ø 7 mm



Thread	Article number
R 1/4"	WIAC4-00068
M 10 x 1	WIAC4-00092

QUICK-RELEASE FASTENER

up to 100 bar, free passage 9 mm, with safety bracket



Thread	Article number
R 1/4"	WIAC4-00069

INJECTION CONNECTION HOSE («WHIP»)

version with sliding coupling for flat head Nipple, Ø 16 mm, sideways connection or with Grip head, HP whip 500 mm long



Version / Thread	Article number
with sliding coupling R 1/4"	WIAC4-00088
with grip head R 1/4"	WAAC4-00015

SLIDING COUPLING

for Flat head nipple sideways, with inner Thread, blue rubber seal, passage Ø 2.5 mm
for WIAC4-00088



Thread	Article number
M 10 x 1	WPAC4-00020

RUBBER SEAL

for sliding coupling with metal ring, blue
for WPAC4-00020



Diameter	Article number
4 mm	WAAC4-00013

MOUTHPIECE

with 4 jaws and seal for high pressure injection for HD taper head nipple



Version	Article number
IT M 10 x 1	WAAC4-00008

UNIVERSAL MIXER



Version	Article number
60 x 400 mm	WKAT-SLA-00105
80 x 400 mm	WKAT-SLA-00106

MIXING BUCKET

plastic mixing bucket



Version	Article number
30 l	WAAC4-00014

PLASTIC MEASURING CUPS

PVC with handle



Version	Article number
1.0 l	WKAT-SLA-00100
2.0 l	WKAT-SLA-00101
3.0 l	WKAT-SLA-00102
5.0 l	WKAT-SLA-00103

CARTRIDGE GUN

heavy duty caulking gun for 290 - 320 ml double cartridges, for application of silicanes, acrylates, silanes and PU adhesives and sealants



Version	Article number
hand operated	WAAC4-00012
battery driven	WAAC4-00011

SAUSAGE GUN

heavy duty caulking gun for 600 ml aluminum bags, for application of silicanes, acrylates, silanes, PU, adhesives and sealants



Article number
WLAN-AG-600

WILLHOSE

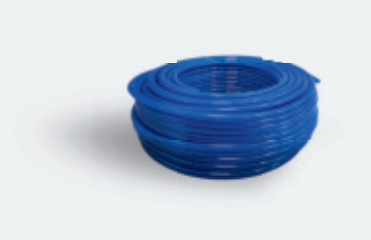
PVC injection hose with corrugated surface, for sealing construction joints in concrete structures, injectable with polyurethane or epoxy resins, acrylate gels and injection cements, multiple injectable with acrylate gels and injection cements, 50 m Roll



Diameter (inner/outer) / Color	Article number
6/12 mm / Red	WJSS4-00005

PVC- FILLING AND VENTING HOSE

filling and venting hose, PVC fabric hose for assembling the injection hose WILLHOSE
50 m Roll



Diameter (inner/outer) / Color	Article number
6/12 mm / red	WJSS4-00008
Ø 6/12mm / green	WJSS4-00030
Ø 6/12mm / blue	WJSS4-00007

SCREW-IN GROMMET

plastic coupling piece for hoses, free passage 3 mm



Inner diameter

4 - 6 mm

Article number

WJSS4-00009

DOUBLE GROMMET

plastic coupling piece for hoses, free passage 3 mm, with wing handles



Inner diameter

4 - 6 mm

Article number

WJSS4-00016

RIGHT-ANGLE GROMMET

plastic (POM) for 6 mm inner diameter hoses



Article number

WJSS4-00018

2-LOBED CLAMP

for 12 mm outer diameter hoses



Article number

WJSS4-00013

SHUTTER PLUG

for sealing 6 mm inner diameter filling and venting hoses, yellow



Pieces	Article number
Bag a 100 pcs.	WJSS4-00019

NAIL PACKER

plastic with protection plugs, HP-conical head nipple M 8 (loosely enclosed)



Inner diameter	Article number
4 - 6 mm	WJSS4-00020

EXTENSION PIPE

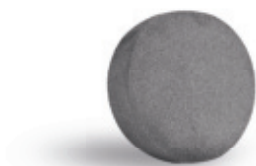
with HP conical head nipple M 8



Version	Article number
M 8 x 35 mm / SW 11	WJSS4-00021

FOAM COVER PLATE

for nail packer, self-adhesive 10 mm thick, gray



Diameter	Article number
50 mm	WJSS4-00022

METAL CLAMPS

fixing clamp 13 mm for 12 mm outer diameter hoses, fixing hole diameter 6.1 mm



Pieces	Article number
Box a 100 pcs.	WJSS4-00023

NAIL AND DOWEL

nail and dowel for metal fixing clamps, 5 x 40 mm



Pieces	Article number
Box a 100 pcs.	WJSS4-00024

PLASTIC CLIPS

for pressing into the fresh concrete or into 8 mm drill holes for fixing the injection hose



Pieces	Article number
Bag a 100 pcs.	WJSS4-00011

WATERSTOP CLAMP

for fastening the injection hose to the joint plate



Pieces	Article number
Bag a 100 pcs.	WJSS4-00025

FIXING GRID

for fastening/installing injection hoses



Length per piece

1 m

Article number

WJSS4-00026

HOSE PACKER

Plastic, for hose inner diameter 4 - 6 mm Shaft diameter 8 x 70 mm, free passage 3 mm



Version

with HP conical head nipple M 8

with HP flat head nipple M 8

Article number

WPAC4-00016

WPAC4-00036

WILLSWELL

water swellable rubber profile with incorporated hydrophilic resin



Height x Width

10 x 20 mm

20 x 20 mm

20 x 25 mm

30 x 30 mm

Article number

WJSS4-00001

WJSS4-00027

WJSS4-00028

WJSS4-00029

WILLPUMP ERM 1

1K Diaphragm pump, electric, complete with 5 m high pressure hose, ball valve M 10 x 1.5, 6 liter hopper, connection 220 V, delivery max. 2.2 l/min for PUR/EP



Height x Width x Length / Weight

500 x 440 x 400 mm / 20 kg

Article number

WPUM4-00013

WILLPUMP ARK 1

1K Piston pump, pneumatic, complete with 7.5 m high pressure hose with mouthpiece, 6 liter funnel, drive power 2 to 6 bar, delivery max. 2 l/min for PUR/EP



Height x Width x Length / Weight

500 x 440 x 400 mm / 16 kg

Article number

1K-IG-31800-00003

WILLPUMP ARK S 2

2K Piston pump, pneumatic, complete with 2x HP 10 m delivery hoses (WIAC4-00003), 2x HP 2 m flushing hoses (WIAC4-00004), 2x suction hoses 3/4", 2x check valve (WIAC4-00016), 2x Ball valve DN 10 Steck-O (WIAC4-00009), 4x Plug Sleeve (WIAC4-00064), Securing clip DN 10 (WIAC4-00015), 1x adapter 3/4" cord bayonet, alternatively adapter RD 32 to quick coupling compressed air can, drive power 4 to 6 bar, delivery max. 4 to 5 l/min for PUR/SIL



Height x Width x Length / Weight

320 x 200 x 630 mm / 28 kg

Article number

WPUM4-00018

WILLPUMP ARK B 2

2K Piston pump, pneumatic, complete with 2x HP 10 m delivery hoses (WIAC4-00003), 2x HP 2 m flushing hoses (WIAC4-00004), 2x suction hoses 1", 2x check valve (WIAC4-00016), 2x Ball valve DN 10 Plug-O (WIAC4-00009), 4x Plug Sleeve (WIAC4-00064), Securing clip DN 10 (WIAC4-00015), 1x Adapter 3/4" cord bayonet, Drive power 4 to 6 bar, Delivery max. 20 l/min for PUR/SIL



Height x Width x Length / Weight

420 x 450 x 1000 mm / 82 kg

Article number

WPUM4-00017

WILLPUMP ETK 3

3K Piston pump, pneumatic, complete with 3x 7.5 m material high pressure hoses and 3K mixing head, drive power 4 to 6 bar, delivery max. 14 l/min for AC



Height x Width x Length / Weight

450 x 310 x 830 mm / 45 kg

Article number

WPUM4-00016

WILLPUMP EZR 2

2K Gear pump electric, drive power 440 V - 60 Hz, maximum delivery 27 l/min for PUR/SIL



Height x Width x Length / Weight

1120 x 522 x 612 mm / 122 kg

Article number

WPUM4-00002

WILLPUMP AZR 2

2K Gear pump Pneumatic Drive power 5 - 7 bar, 4 to 6 m³/min, maximum delivery 27 l/min for PUR/SIL



Height x Width x Length / Weight

1120 x 522 x 500 mm / 100 kg

Article number

WPUM4-00001

WILLPUMP APH 2

3K Piston pump Pneumatic, mixing ratio 4 : 1 (A : B), delivery distance 800 m, maximum operating pressure 240 bar, maximum delivery 10 l/min (= 2x 4 l component A + 2 l component B) for PHENOL



Height x Width x Length / Weight

1500 x 535 x 600 mm / 150 kg

Article number

WPUM4-00011

NOTES



INSULATION



INDUSTRIALS



COATINGS



SEWER REPAIR



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