

PRODUCT CATALOGUE

REPAIR FROM WITHIN.

Equipment, mechanical repair systems and materials for trenchless pipe rehabilitation.



TRENCHLESS EQUIPMENT & PIPE REHABILITATION

Mortar spraying / Pipe reshaping / Mechanical sleeves
Joint seals / Packers & plugs / Resin & glassfiber

SCANDINAVIA / INTERNATIONAL ENQUIRIES

A single catalogue to specify your project and request a tailored quotation.

FIND YOUR SOLUTION

ONE RANGE. CLEAR CHOICES.

Choose by application, then use the technical pages to identify the right configuration.

01	Mortar spraying	03-05
	Pumps, rotating head & gantry	
02	Pipe deformation correction	06-07
	Hydraulic up-down & duck-billed jacks	
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Page 22: quotation checklist and contact. DN denotes nominal pipe diameter in millimetres. Product codes are retained for ordering.

01 / MORTAR SPRAYING

REHABILITATE FROM WITHIN.

Modular worm pump and rotating spray head for mortar delivery and internal application.



40 BAR

Maximum delivery pressure

600-1800 MM

RSS-HT spraying range

2 MODELS

P60/120 and P90/160

BUILT AROUND THE JOB.

Inspection wells, sewers, box culverts, underground concrete repair and grouting. Match the pump, spray head and mortar to the project.

MATERIAL APPLICATIONS

Base coat and fireproofing mortars; lime-cement and self-leveling mortars; insulation and texture coatings; grouting and concrete repair materials; masonry and anchoring mortars.

Performance figures are supplied specifications. Delivery and spray results depend on material, configuration and site conditions.

01 / PUMP SPECIFICATIONS

MIX. PUMP. DELIVER.

CNLG worm pumps - two configurations for different delivery requirements.



Up to 40 m conveying height.
Up to 60 m horizontal distance.

Confirm motor selection and electrical supply with the quotation.

Specification	P60/120	P90/160
Configuration	Standard	Large scale
Pump drive	4.5 / 5.5 kW	6.5 / 8.0 or 7.5 kW
Mixer drive	3 kW	4 kW
Delivery rate	20 / 40 L/min	30 / 60 L/min
Maximum pressure	40 bar / 580 psi	40 bar / 580 psi
Conveying height / distance	40 m / 60 m	40 m / 60 m
Mixer / hopper	120 / 100 L	150 / 160 L
Supply	3-phase 380 V / 50 Hz	3-phase 380 V / 50 Hz
Weight labels*	460 / 545 kg	510 / 595 kg
Machine size (mm)	2370 x 870 x 1420	2490 x 920 x 1390
Packing weight	680 kg	730 kg
Packing size (mm)	2440 x 930 x 1580	2560 x 980 x 1580

*The supplied brochure lists weight / net weight in this order; the labels require confirmation before freight planning.

01 / SPRAY SYSTEM

CONTROL THE APPLICATION.

RSS-HT rotating head and gantry.



600-1800

mm spraying diameter

Specification	RSS-HT
Feed / supply	Hollow / 2P 220 V, 50 Hz
Spinning head	1800 W, 220 V / 3600 rpm
Head weight / diameter	17 kg / 150 mm
Head size (mm)	460 x 270 x 200
Winch	730 W, 220 V / 0.10 m/s
Gantry weight / size	101 kg / 1620 x 720 x 950 mm
Packing weight / size	155 kg / 1330 x 610 x 800 mm

ADDITIONAL HEAD OPTIONS

Electric spinning heads with slide rail bracket options: DN400-2000 and DN800-1800. Ask for the configuration suited to your pipe diameter and mortar.

R70 mortar is referenced in the supplied range. Confirm compatibility, feed arrangement and project requirements before purchase.

02 / DEFORMATION CORRECTION

RESHAPE. THEN REPAIR.

Hydraulic pretreatment jacks for local pipe deformation correction.



UP-DOWN JACK



DUCK-BILLED JACK

DN150-600

Up-down model range

DN300-500

Duck-billed model range

20 MPa

Working pressure

UP-DOWN JACK SPECIFICATIONS

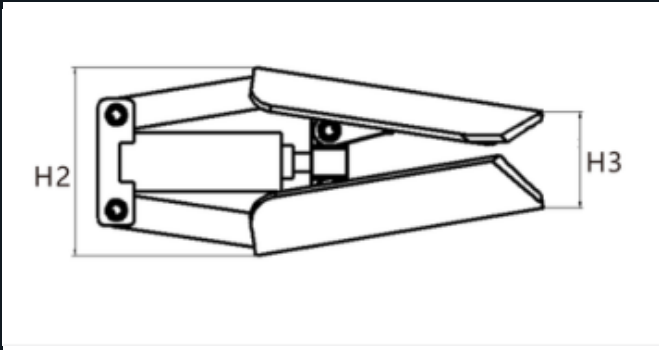
Specification	DN150-300	DN300-600
Initial height	130 mm	180 mm
Hydraulic lift	80 mm	100 mm
Max. height with block	310-320 mm	610-620 mm
Total length	420 mm	420 mm
Net / gross weight	22 / 31 kg	41 / 51 kg
Package size (cm)	61 x 28 x 34	66 x 36 x 34

Maximum height includes the extension block. Shared hydraulic accessories: pump and two 40 m oil hoses for both jack types.

02 / DEFORMATION CORRECTION

THE DUCK-BILLED JACK.

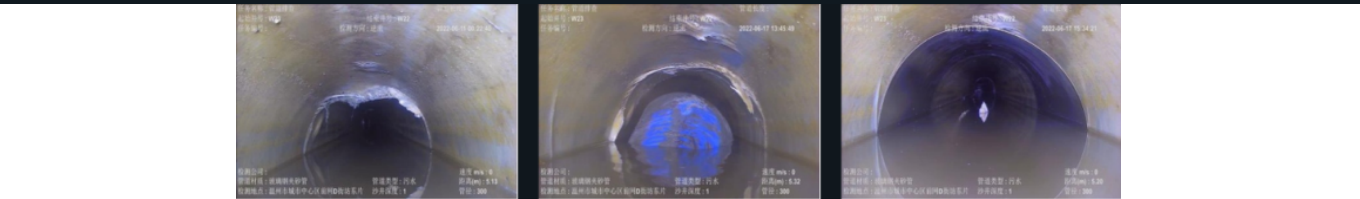
Select the jack to suit the defect, access and host pipe material.



Specification	DN300	DN400	DN500
H3	130 mm	130 mm	130 mm
H2	250 mm	300 mm	380 mm
Max. expanding height (mm)	310-320	410-420	510-520
Total length (mm)	650	700	760
Net / gross weight (kg)	37 / 49	60 / 77	62 / 82
Package size (cm)	76 x 36 x 43	91 x 46 x 48	94 x 51 x 50

MATERIAL COMPATIBILITY & PREPARATION

Listed materials: PVC, glass sand-filled and steel belt pipes. Confirm HDPE/PE suitability; concrete is excluded. Check pump oil level, connection elbows and couplings, then verify normal expansion and retraction.



Project example: before / during / after. Do not exceed 20 MPa. Inspect and lubricate accessories; confirm required oil grade (source designation: 10#-32#).

03 / INSTANT-LOCK

MECHANICAL POINT REPAIR.

Stainless steel sleeves with rubber jackets for trenchless mechanical repair.



Small sleeve range: DN150-600.

Large sleeve range: DN800-2000.

Listed sleeve materials: 304L / 316L stainless steel.

Wastewater configuration: EPDM rubber.

DN	Pipe range mm	Steel mm	Jacket width mm	Weight kg	IL packer
150	120-150	1.0	400	2.0	150
200	165-205	1.2	400	3.0	200-300
225	185-230	1.2	400	3.5	200-300
250	210-255	1.2	400	4.0	200-300
300	230-305	1.2	400	4.6	200-300 / 300-400
400	320-405	1.5	400	7.2	300-400
450	380-455	1.5	400	9.5	500-600
500	415-505	2.0	400	11.7	500-600
600	515-605	2.0	300	14.5	500-600

SPECIFY THE COMPLETE REPAIR SYSTEM

Match sleeve dimensions, host pipe condition and installation packer. Custom dimensions may be requested. Drinking-water configurations are listed separately on page 10.

03 / INSTANT-LOCK

LARGE DIAMETER. PRECISE FIT.

Large sleeve dimensions and installation planning.

DN	Pipe range (mm)	Steel (mm)	Jacket (mm)	Weight (kg)
800	770-810	3.0	300	22.4
1000	970-1010	3.0	300	28.0
1200	1170-1210	3.0	300	33.8
1350	1320-1360	4.0	300	48.6
1400	1370-1410	4.0	300	50.4
1500	1470-1510	4.0	300	54.0
1800	1770-1810	4.0	300	64.8
2000	1970-2010	4.0	300	72.0

Large sleeves use installation tools; confirm the required tool set and site access. Custom sizes available on request.

LOCKING GEAR ALIGNMENT



Keep the toothed strip ends facing the same direction when positioning the sleeve. The supplied sequence places the locking gear at the top after installation.

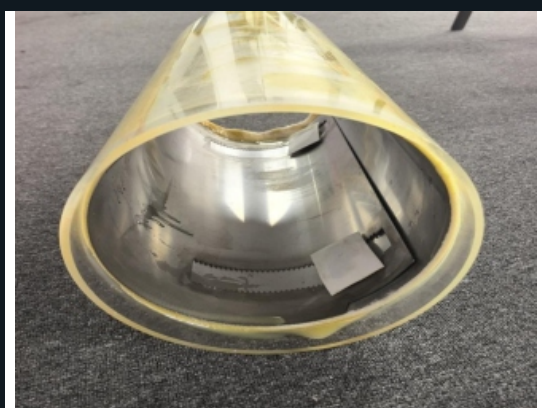
Use the approved packer procedure and rated pressures for the exact configuration. Confirm the locking operation before removal.

The technical catalogue is a selection reference. Obtain the current installation instructions for the ordered sleeve and packer combination.

03 / DRINKING-WATER CONFIGURATION

A DEDICATED WATER SYSTEM.

Instant-Lock configuration for drinking-water pipeline projects.

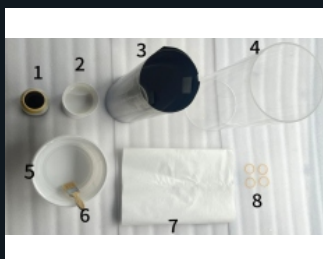


Listed materials

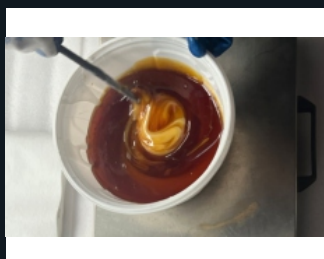
304L / 316L stainless steel;
food-grade epoxy resin;
polyester fiber mat.

Listed small sleeve range: DN150-600.

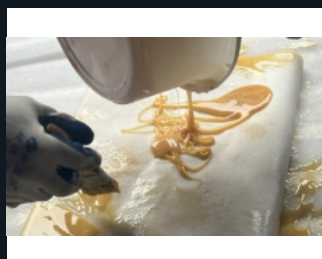
PREPARATION & INSTALLATION SEQUENCE



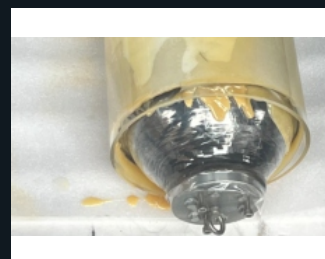
01



02



03



04

The supplied sequence shows preparation, resin mixing, impregnation and assembly on the installation packer. Refer to page 8 for the listed DN150-600 sleeve dimensions and packer pairing.

PROJECT DOCUMENTATION

Request the approval documentation for the exact sleeve, resin and liner combination, plus the installation method and acceptance requirements for your country and water authority.

Material descriptions do not establish approval for every potable-water application. Confirm the exact configuration before specifying or ordering.

04 / INTERNAL JOINT SEALS

SEAL THE JOINT. FROM INSIDE.

Rubber profiles and stainless steel rings for internal pipe joint sealing.



Selection item	Listed options
Size range	DN200-DN3000; custom sizes on request
Steel material options	AISI 304, 316L and 318L (2205), as listed
Rubber widths	270 mm / 350 mm / 500 mm
Ring installation types	Slot type / screw type
Assembly	Stainless steel sleeve, anti-wear gasket and embedded fixing block

SELECT MATERIALS FOR THE SERVICE

The supplied range lists sewage, drinking water, steam, seawater, chemical and oil pipelines as application categories. Rubber grade, steel grade and seal geometry must be selected for the actual medium and operating conditions.

The source steel designation "318L (2205)" is reproduced for identification and needs material-grade confirmation. Request the applicable documentation for your project.

04 / JOINT SEAL INSTALLATION

RINGS, TOOLS & END SEALS.

Select the installation method and accessories as a complete package.

**SLOT TYPE****SCREW TYPE****INSTALLATION TOOL SET**

Installation tools; drilling screw; drilling wrench; hexagonal wrench; nipple tester; gauge; shovel; rubber hammer.

**RUBBER PROFILE & END-SEAL SYSTEM**

Confirm the rubber profile and ring arrangement for the host pipe and joint geometry. End-seal components and the installation tool package can be included in the quotation.

05 / REPAIR PACKERS

POSITION. INFLATE. REPAIR.

Repair packers for localized rehabilitation and point repair.

**DN50-1500**

Listed standard packer range

**DN100-1500**

Listed bypass packer range

1-3 M

Long lateral length options

THREE CONFIGURATIONS

Standard repair packers for localized lining; bypass packers for a flow-through configuration; long lateral packers for extended repair lengths.

Custom packer dimensions and lengths can be requested to suit the repair.

Confirm the exact model, usable repair length and inflation rating. Nominal product codes do not replace the certified operating range.

05 / STANDARD PACKER SPECIFICATIONS

MATCH THE PACKER TO THE PIPE.

Detailed standard repair packer reference.

Model	Pipe range mm	Deflated length mm	Max. inflation bar	Net wt. kg
RP 50-90	50-90	560	5	3
RP 70-150*	70-120*	600	4	3.5
RP 100-200	100-200	530	3	4
RP 150-250	150-250	820	2	7
RP 200-300	200-300	760	2	8
RP-L 200-300	200-300	860	2	8
RP 300-400	300-400	950	2	11
RP 300-500	300-500	1000	2	15
RP 400-500	400-500	920	2	14
RP 400-600	400-600	1150	1.5	20
RP 600-800	600-800	1300	1.2	29
RP 800-1000	800-1000	1550	1.2	36
RP-T 800-1200	800-1200	1750	1.2	40
RP 800-1200	800-1200	1770	1.2	49
RP 800-1400	800-1400	2000	1	55
RP 1000-1500*	640-2000*	2000	1	85

*Source discrepancies: RP 70-150 is listed with a 70-120 mm range; RP 1000-1500 is listed with 640-2000 mm. Confirm operating ranges and wheel configuration before ordering. Lengths are deflated dimensions, not guaranteed usable repair lengths.

05 / ADDITIONAL PACKER CONFIGURATIONS

BYPASS & LONG LATERALS.

Model ranges for repair planning and quotation.

Bypass family	Listed models
RPBP / flat head	RPBP 100-200, RPBP 150-250, RPBP 200-300, RPBP 300-400, RPBP 400-500, RPBP 300-500
RPBP / flat head	RPBP 400-600, RPBP 600-800, RPBP 800-1000, RPBP 800-1200, RPBP 800-1400, RPBP 1000-1500
Additional variant	RPBP-T 800-1200

LONG LATERAL PACKERS WITHOUT BYPASS

Pipe range (mm)	Available lengths	Configuration
50-100	1 / 1.5 / 2 / 3 m	Without wheels
70-160	1 / 1.5 / 2 / 3 m	Without wheels
100-200	1 / 1.5 / 2 / 3 m	Without wheels
150-250	1 / 1.5 / 2 / 3 m	Without wheels
200-300	1 / 1.5 / 2 / 3 m	Without wheels
300-400	1 / 1.5 / 2 / 3 m	Without wheels
400-500	1 / 1.5 / 2 / 3 m	Without wheels



Include pipe diameter, repair length and flow requirements with your enquiry. Confirm bypass passage size, inflation pressure and packer end geometry for the selected model.

06 / MULTI-SIZE PLUGS

ISOLATE. TEST. CONTROL.

Multi-size pipe plugs without bypass.

Model	Inflation bar	Back pressure bar	Body dia. mm	Length mm	Net wt. kg
MS 50-100	3	2	47	330	0.5
MS 70-150	3	2	67	375	0.9
MS 100-200	2	1	95	460	1.5
MS 150-300	2	1	135	550	2.5
MS 200-400	2	1	182	610	4.5
MS 200-500	2	1	185	750	5
MS 300-600	1.5	0.5	283	770	13
MS 400-800	1.5	0.5	365	900	20
MS 500-1000	1.5	0.5	460	1050	29
MS 600-1200	1.2	0.2	550	1460	45
MS 800-1500	1.2	0.2	620	2000	59

Pressure gauge and 10 m air hose are listed as included accessories. Body diameter refers to the product, not its operating pipe range.



Specify the pipe size and expected back pressure. Inflation pressure and allowable back pressure are different limits; use the rated values for the ordered plug.

06 / BYPASS PLUGS & SLEEVES

KEEP THE FLOW PATH.

Multi-size bypass plugs and protective sleeve range.

Model	Inflation bar	Back pressure bar	Body dia. mm	Length mm	Net wt. kg
MSBP 200-300	2	1	182	610	9
MSBP 300-500	2	1	283	770	18
MSBP 400-700	2	1	365	900	28
MSBP 500-800	1.5	0.5	460	1050	34
MSBP 600-1000*	1.5	0.5	550	1460*	58

*Two supplied brochures give different lengths for MSBP 600-1000: 1460 mm and 6000 mm. 1460 mm is shown for reference; obtain confirmation before ordering. Gauge and 10 m hose are listed as included.

PROTECTIVE RUBBER SLEEVES

Matching MS model	Listed pipe range (mm)
MS 100-200	100-200
MS 150-300	150-300
MS 200-400	200-400
MS 200-500	200-500
MS 300-600	300-600
MS 400-800	400-800
MS 500-1000	500-1000
MS 600-1200	600-1200
MS 800-1500	800-1500

06 / STEAM PLUGS

HIGH TEMPERATURE. CONTROLLED USE.

FIPP steam plug range, as named in the supplied product data.



Maximum operating temperature

150 degrees C

Select the pressure rating for the exact size. Confirm curing process compatibility and all accessory temperature ratings.

Pipe range (mm)	Max. working (bar)	Length (mm)	Net weight (kg)
70-90	2	470	2
80-100	2	470	3
100-200	1.5	560	3.8
200-300	1.5	560	6.5
250-400	1.5	560	10
300-450	1.5	560	14
375-550	1.5	610	18
450-620	1.5	610	25
600-800	1.5	800	45
800-1000	1.5	800	56
1000-1200	1.5	900	85

06 / TEST & SINGLE-SIZE PLUGS

SPECIFY THE PRESSURE DUTY.

Testing plugs and custom single-size isolation plugs.

Testing plug model	Listed body diameter (mm)	Net weight (kg)
TP-DN150	100	4.3
TP-DN200	160	8
TP-DN300	230	13
TP-DN400	340	17
TP-DN500	400	23
TP-DN600	490	32
TP-DN800	600	60
TP-DN1000	850	70

Listed testing plug working pressure: 4 bar. Listed back pressure: 3 bar. Gauge and 10 m air hose included. High-pressure testing plugs can be customized.

SINGLE-SIZE PIPE PLUGS



Listed pipe diameters: DN300-6000.
Listed sealing water heights: 1-30 m.

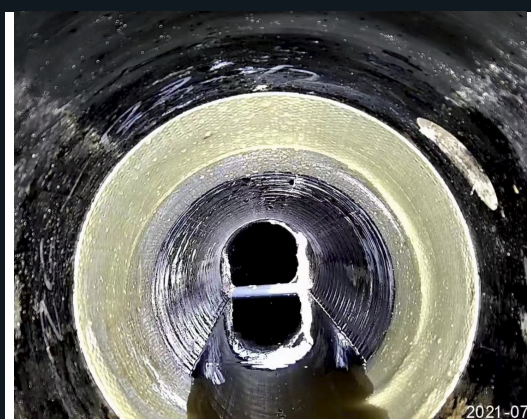
Foldable reinforced rubber construction. Specify the exact diameter, water head and restraint arrangement for a custom quotation.

The water-height range describes the available product family; it is not a rating for every plug. Confirm the individual model and installation requirements.

07 / RESIN & GLASSFIBER

LOCAL REPAIR. REINFORCED.

Silicate resin and glassfiber materials for packer-based point repair.



A resin-impregnated glassfiber repair liner forms a bonded local repair inside the host pipe. The supplied range lists clay, cast pipe, PVC and wood among the host materials.

A:B mixing ratio - 1:2 by volume.

Resin property	Component A	Component B
Appearance	Transparent / pale yellow	Brown
Viscosity at 25 C (mPa.s)	350-750	250-600
Density (g/cm ³)	1.52	1.2
Flash point	>200 C	>200 C
Pack size per set	15.5 kg / 10 L	24.5 kg / 20 L
Storage period	12 months	12 months

RESIN OPTIONS AT 22 DEGREES C

Type	Pot life	Curing time
Summer	20 min	1 h 20 min
Winter	15 min	45 min
Express	10 min	30 min

Listed mechanical test results: bending strength 142 MPa; flexural modulus 9215 MPa; compressive strength 164 MPa. Request the test report and current safety data sheet.

07 / GLASSFIBER & DOSAGE

PLAN THE REPAIR MATERIAL.

Glassfiber specifications and indicative material quantities.

Code	Total (g/m2)	Woven (g/m2)	Chopped (g/m2)	Thread (g/m2)
EMK600/450	1060.71	600	450	10.71
EMK800/300	1110.71	800	300	10.71
EMK800/450	1260.71	800	450	10.71

Supplied preparation guide: cut to size, mix A:B at 1:2 by volume, impregnate promptly and fold to the specified repair thickness (minimum three layers listed). Indicative spread: 1.5-2 kg/m2.

DOSAGE REFERENCE / 125 CM FABRIC WIDTH

DN	Length cm	Area m2	Points / roll	A mL	B mL	Total kg	Points / set
100	35	0.44	108	175	350	0.71	56
150	55	0.69	69	275	550	1.09	36.5
200	70	0.88	54	350	700	1.41	28
250	90	1.13	42	450	900	1.8	22
300	110	1.38	34	550	1100	2.2	18
400	140	1.75	27	700	1400	2.8	14
500	175	2.19	21	875	1750	3.5	11
600	210	2.63	18	1050	2100	4.2	9.5
800	300	3.75	12	1400	2800	5.7	7
1000	400	5	9.5	2000	4000	8	5

Roll reference: 38 m / 50 kg. Quantities and yields are reproduced as indicative source values; the DN800 row does not reconcile exactly with the stated densities. Confirm dosage, overlap, layer count and repair design before ordering.

QUOTATION & PROJECT PLANNING

YOUR PROJECT. THE RIGHT PACKAGE.

Send the details below for a configuration-specific quotation.

01 The pipe

Diameter, material, defect, service medium and operating conditions.

02 The repair

Repair length, access dimensions, flow conditions and site photographs.

03 The equipment

Product family or model, quantities, power supply and required accessories.

04 The delivery

Destination, delivery point, required date and documentation requirements.

BY JENSEN GROUP

contact@byjensengroup.com

www.byjensengroup.com

Product platform: nodigcoating.com

Prices, availability, freight and lead times are confirmed with each quotation. Technical values are supplied specifications and may change by model or configuration. Request applicable certificates, safety data and installation instructions for the exact products selected.