

## TRS MS Dry Cleaning Kit




Nominal voltages up to 36 kV / 15 ... 60 Hz

LIVE CLEANING EQUIPMENT



DIN VDE 0682 Part 621

- Not for use in wet weather 
- For indoor and outdoor installations
- Equipment for live cleaning by means of suction
- For dry cleaning of transformers and switchgear installations
- Transparent intake tubes for enhanced safety
- Specially adapted operating heads for intensive cleaning
- Plug-in coupling system allows fast replacement of the operating heads



Live cleaning of a transformer using the TRS MS dry cleaning kit.

### Requirements

TRS MS allows maintenance work to be done under supervision of a qualified electrician at voltages from 1 to 36 kV according to EN 50110-1 "Operation of electrical installations – Minimum Requirements", observing clauses 6.3.1 to 6.3.12. In Germany apply sections BGV A3 and BGR

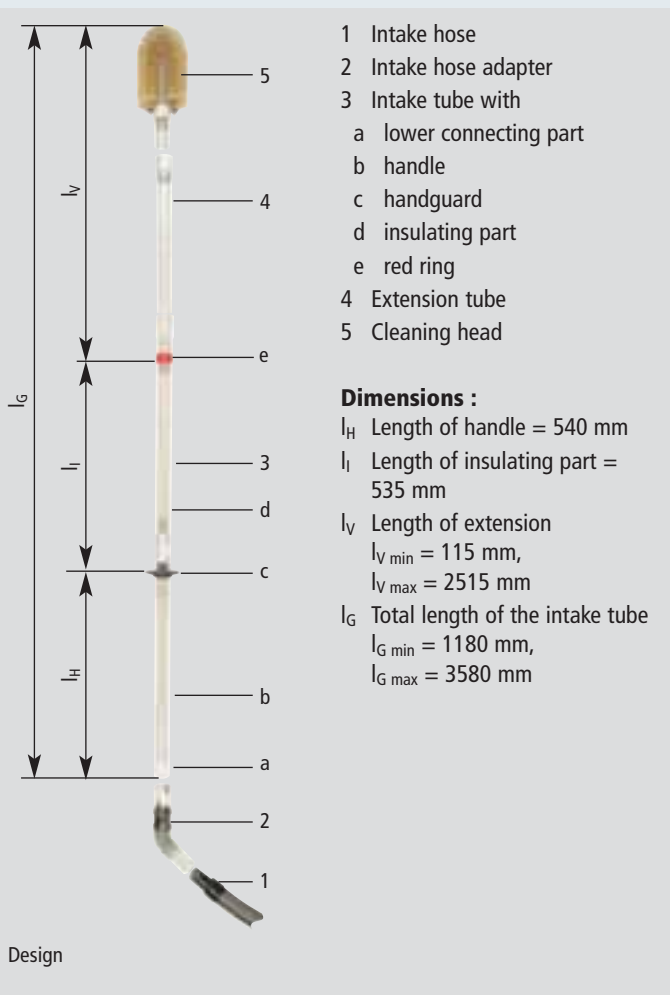
A3 of the national accident prevention regulations (UVV) "Elektrische Anlagen und Betriebsmittel" [Electrical installations and equipment] issued by the German Employer's Liability Association for Precision and Electrical Engineering (BGFE).



Cleaning an insulator with a flat cleaning head and angled intake tube (135°).



Cleaning an insulator with a tubular brush.



LIVE CLEANING EQUIPMENT

Type	Model	Part No.
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**A TRS MS Dry Cleaning Kit**

Standard kit includes

Pos.	Qty.	Type	Description	Part No.
3	1	SRH 1180 MS	Intake tube with handle	785 120
8	2	SRV 200 MS	Extension, 200 mm	785 121
9	2	SRV 400 MS	Extension, 400 mm	785 122
10	2	SRV 800 MS	Extension, 800 mm	785 123
11	1	SRW 90 MS	Angled intake tube, 90°	785 131
12	1	SRW 135 MS	Angled intake tube, 135°	785 132
13	1	SRW V MS	Angled intake tube, lockable	785 130
21	1	REB 1095 MS	Rectangular brush	785 160
22	1	HRB 120 MS	Half-round brush 120	785 140
23	1	HRB 190 MS	Half-round brush 190	785 150
25	1	STB 120 MS	Tubular brush, 250 mm	785 170
29	1	FD 60 MS	Cleaning head 60	785 220
30	1	FD 110 MS	Cleaning head 110	785 221
37	1	SSA W D	Intake hose adapter	785 200
38	1	ISP 135 ZK MS	Insulating mirror	785 190
40	1	DHTM	Digital hygrometer/thermometer	785 180
42	1	RB 50 MS	Cleaning brush for individual kit parts	785 210
51	1	KKL TRS MS	GRP case, blue	785 301

TRS MS	Contents and GRP case included	<b>785 100</b>
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**B TRS MS V1 Dry Cleaning Kit**

Standard kit includes

Pos.	Qty.	Type	Description	Part No.
3	1	SRH 1180 MS	Intake tube with handle	785 120
8	2	SRV 200 MS	Extension, 200 mm	785 121
9	2	SRV 400 MS	Extension, 400 mm	785 122
10	1	SRV 800 MS	Extension, 800 mm	785 123
11	1	SRW 90 MS	Angled intake tube, 90°	785 131
12	1	SRW 135 MS	Angled intake tube, 135°	785 132
13	1	SRW V MS	Angled intake tube, lockable	785 130
21	1	REB 1095 MS	Rectangular brush	785 160
22	1	HRB 120 MS	Half-round brush 120	785 140
25	1	STB 120 MS	Tubular brush, 250 mm	785 170
26	1	STB 80 MS	Tubular brush, cylindrical bristles	785 171
27	1	STB 80 K MS	Tubular brush, conical bristles	785 172
29	1	FD 60 MS	Cleaning head 60	785 220
30	1	FD 110 MS	Cleaning head 110	785 221
36	1	SRA MS	Intake tube adapter	785 212
37	1	SSA W D	Intake hose adapter	785 200
38	1	ISP 135 ZK MS	Insulating mirror	785 190
40	1	DHTM	Digital hygrometer/thermometer	785 180
42	1	RB 50 MS	Cleaning brush for individual kit parts	785 210
51	1	KKL TRS MS	GRP case, blue	785 301

TRS MS V1	Contents and GRP case included	<b>785 112</b>
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# Single Parts of TRS MS Dry Cleaning Kit



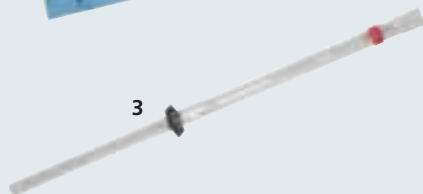
## LIVE CLEANING EQUIPMENT



### GRP Case, empty

With retaining clips and printed top and bottom insert

Type	Colour	Dimensions	Position	Part No.
KKL TRS MS	●	1200 x 270 x 165 mm	51	785 301



### Intake Tube with Handle

For use as operating tube with handle, handguard, insulating part, red ring and extension

Type	Diameter	Dimensions	Position	Part No.
SRH 1180 MS	40 mm	1180, insulating part 525 mm	3	785 120



### Extension

Type	Diameter	Dimensions	Position	Part No.
SRV 200 MS	40 mm	200 mm	8	785 121
SRV 400 MS	40 mm	400 mm	9	785 122
SRV 800 MS	40 mm	800 mm	10	785 123



### Angled Intake Tube, 90°

Type	Diameter	Dimensions	Position	Part No.
SRW 90 MS	40 mm	120 mm	11	785 131



### Angled Intake Tube, 135°

Type	Diameter	Dimensions	Position	Part No.
SRW 135 MS	40 mm	100 mm	12	785 132



### Angled Intake Tube

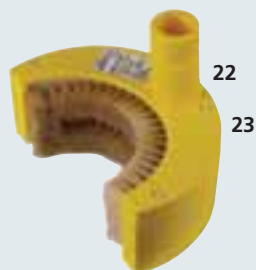
Lockable, adjustable due to 15° gearing, for positioning the cleaning heads

Type	Diameter	Dimensions	Position	Part No.
SRW V MS	40 mm	160 mm	13	785 130



### Rectangular Brush

Type	Diameter	Dimensions	Position	Part No.
REB 1095 MS	40 mm	105 x 90 x 50 mm	21	785 160



### Half-round Brush

For cleaning insulators as well as horizontal and vertical openings. The brush can be attached to angled intake tube type SRW V MS that can be adjusted to lead the brush around the complete insulator.

Type	Diameter	Position	Part No.
HRB 120 MS	40 / 120 mm	22	785 140
HRB 190 MS	40 / 190 mm	23	785 150



### Tubular Brush

Type	Diameter	Dimensions	Position	Part No.
STB 120 MS	40 / 120 mm	250 mm	25	785 170



# Single Parts of TRS MS Dry Cleaning Kit

## LIVE CLEANING EQUIPMENT

### Tubular Brush

Cylindrical bristles

Type	Diameter	Dimensions	Position	Part No.
STB 80 MS	25 / 85 mm	240 mm	26	785 171



### Tubular Brush

Conical bristles

Type	Diameter	Dimensions	Position	Part No.
STB 80 K MS	25 / 85 mm	240 mm	27	785 172



### Cleaning Head 60

Width: 60 mm

Type	Diameter	Dimensions	Position	Part No.
FD 60 MS	40 mm	190 mm	29	785 220



### Cleaning Head 110

Width: 110 mm

Type	Diameter	Dimensions	Position	Part No.
FD 110 MS	40 mm	260 mm	30	785 221



### Intake Tube Adapter

For brushes and cleaning heads Ø25 mm

Type	Diameter	Dimensions	Position	Part No.
SRA MS	40 / 25 mm	100 mm	36	785 212



### Intake Hose Adapter

Adjustable, angled (120°), with regulation of intake air, for use with intake hose system Ø35 mm

Type	Diameter	Position	Part No.
SSA W D	35 / 40 mm	37	785 200



### Insulating Mirror

For visual inspection of hidden electrical components

Type	Diameter	Position	Part No.
ISP 135 ZK MS	40 / 135 mm	38	785 190



### Digital Hygrometer/Thermometer

For verifying the climatic conditions that must be adhered to.  
Measuring range – 20° C ... + 70° C, 10 ... 95% relative air humidity

Type	Dimensions	Position	Part No.
DHTM	140 x 65 mm	40	785 180



### Cleaning Brush

For individual kit parts Ø40 mm, modular

Type	Diameter	Dimensions	Position	Part No.
RB 50 MS	45 mm	1430 mm	42	785 210

