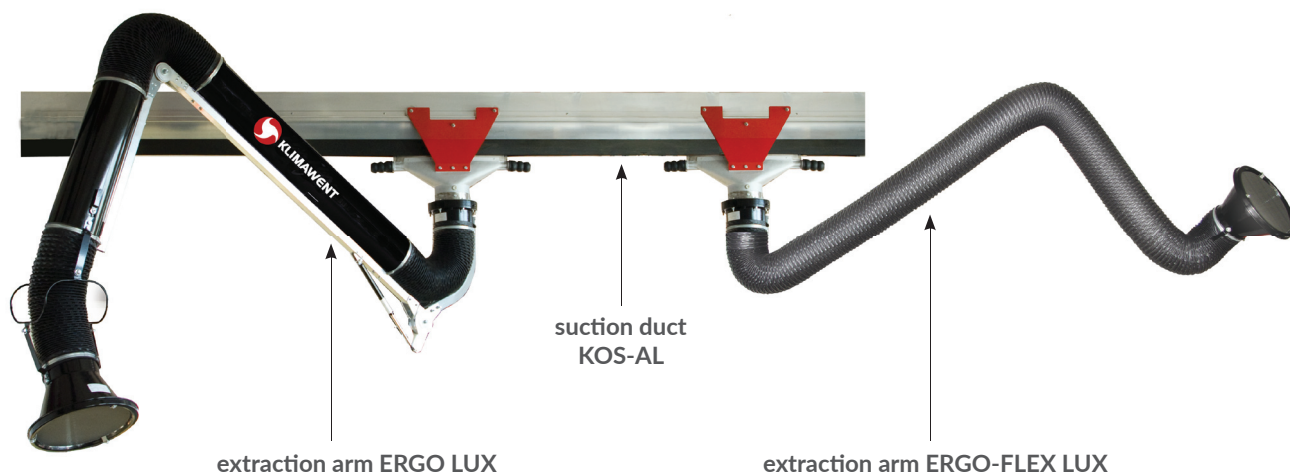


## ERGO-KOS-AL – rail extraction system



### Purpose

ERGO-KOS-AL extraction system has been developed for capturing the welding fumes at the mobile workplaces, for welding straight-shaped elements – of length from several metres up to several-tens metres. The system can be operated by one or two extraction fans, depending on the quantity of applied ERGO LUX extraction arms (one ERGO LUX arm is cooperating with one fan).

### Structure

The ERGO-KOS-AL extraction system consists of subsequent assemblies:

- self-tightening suction duct – type KOS-AL (of aluminium segments of length 2 m or 4 m – joined together into a requested duct length),
- trolley – displacing along the duct,
- extraction arm ERGO LUX or ERGO-FLEX LUX – suspended underneath the trolley (maximum 3 m),
- fitting pieces and supporting elements – according to the arrangement below.

### Operational use

During the welding the operator moves the ERGO LUX extraction arm with the trolley along the suction duct. The hood of the arm ought to be adjusted in a distance ca. 30 cm from the welding point. Low movement resistances of the trolley and easy adjustment of the hood provides perfect manoeuvring of the whole system. After the completed work at one welding post, close the shut-off damper (placed at the hood) to improve the suction volume in the second extraction arm. Two extraction arms can be installed at one suction duct simultaneously.

### Technical data


#### Self-tightening suction duct

|  | Type   | Part no. | Segment length [m] | Section [cm <sup>2</sup> ] | Unit weight [kg/m] |
|--|--------|----------|--------------------|----------------------------|--------------------|
|  | KOS-AL | 804K08   | 2 or 4             | 290                        | 9,7                |


#### Trolley

|  | Type      | Part no. | Weight [kg] |
|--|-----------|----------|-------------|
|  | OP-ERGO-L | 851W10   | 9           |



## Extraction arms – ERGO LUX and ERGO-FLEX LUX

|  | Type            | Part no. | Weight [kg] | Remarks   |
|---|-----------------|----------|-------------|---|
|   | ERGO LUX-L/2    | 810R74   | 17,5        | Detailed dimensions of the extraction arms ERGO LUX and ERGO-FLEX LUX are listed on separate catalogue cards. |
|   | ERGO LUX-L/3    | 810R75   | 19,5        |   |
|   | ERGO-FLEX LUX-2 | 810R42   | 8,5         |   |
|   | ERGO-FLEX LUX-3 | 810R43   | 9,6         |   |


## Connection ferrule

| Sort of the ferrule   |                      | Type | Part no. | Diameter [mm] | Remarks  |
|---|----------------------|------|----------|---------------|--|
|  | for axial connection | KPC  | 804K20   | 160           | To connect the duct to the discharge installation. |

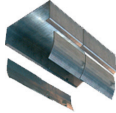
## Duct hanger

| Sort of the hanger  |                      | Type | Part no. | Remarks   |
|---|----------------------|------|----------|---|
|   | for ceiling mounting | Z    | 804K29   | Hangers are fastened at the duct by bolting. The spacing between the hangers should not be larger than 3 m. |
|  | for wall mounting    | Z    | 804K27   |   |


## Terminal stopper

|  | Type | Part no. | Remarks  |
|---|------|----------|--|
|   | STK  | 804K30   | To stop the movement of the trolley at the duct end. |

## Duct segment connector

|  | Type | Part no. |
|---|------|----------|
|   | KSG  | 804K21   |

## Duct closing

|  | Type | Part no. | Remarks   |
|---|------|----------|---|
|   | PZC  | 804K22   | Are installed at the front end of the first segment or at the terminal end of the last segment of the duct. |