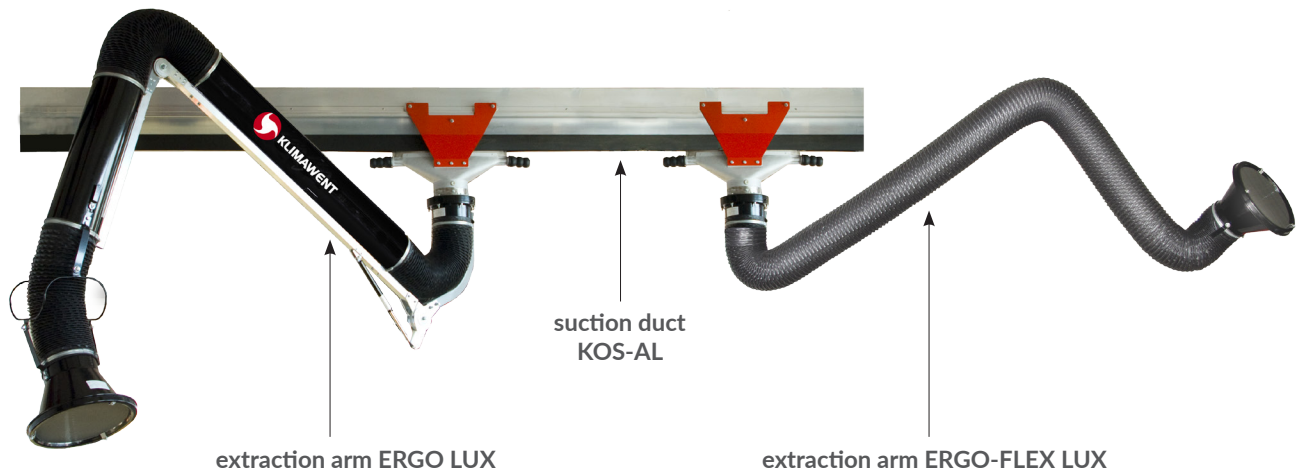


ERGO-KOS-AL – rail extraction system



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:

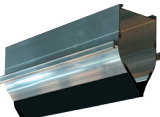
- self-tightening suction duct – type KOS-AL (of aluminium segments of length 2 m or 4 m – joined together into a requested duct length),
- trolley – displacing along the duct,
- extraction arm ERGO LUX or ERGO-FLEX LUX – suspended underneath the trolley (maximum 3 m),
- fitting pieces and supporting 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]	Cross-section [cm ²]	Segment weight [kg]
	KOS-AL-2	804K43	2	290	19,4
	KOS-AL-4	804K44	4	290	38,8


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.

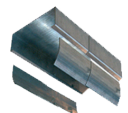
Duct hanger

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.