

Application

ERGO/KOS-AL extraction system has been developed for capturing the welding fumes at the mobile welding stations, for welding straight-shaped elements – of length from several metres up to several-teens metres.

The assembly can be operated by one or two extraction fans, depending on the quantity of applied ERGO extraction arms (one ERGO 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 or 4m – joined together into a requested duct length),
- trolley – displacing along the duct,
- extraction arm ERGO or ERGO Flex – suspended underneath the trolley,
- fitting pieces and supporting elements – according to the arrangement below.

Operational use

During the welding the operator moves the ERGO extraction arm with the trolley along the duct. The suction 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 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 kg





Extraction arms ERGO and ERGO Flex

	Type	Part.No	Weight [kg]	Remarks
	ERGO-L/Z-2	811R54	16,2	Detailed dimensions of the extraction arms ERGO and ERGO Flex are listed on separate cards.
	ERGO-L/Z-3	811R55	18,3	
	ERGO-Flex-2	811R82	6	
ERGO-Flex-3	811R83	8		


Connection ferrule

Sort of the ferrule		Type	Part.No	Diameter [[mm]	Remarks
	for axial connection	KPC	804K20	160	To connect the discharge ductwork.

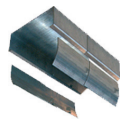
Duct hanger

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 3m.
	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.