

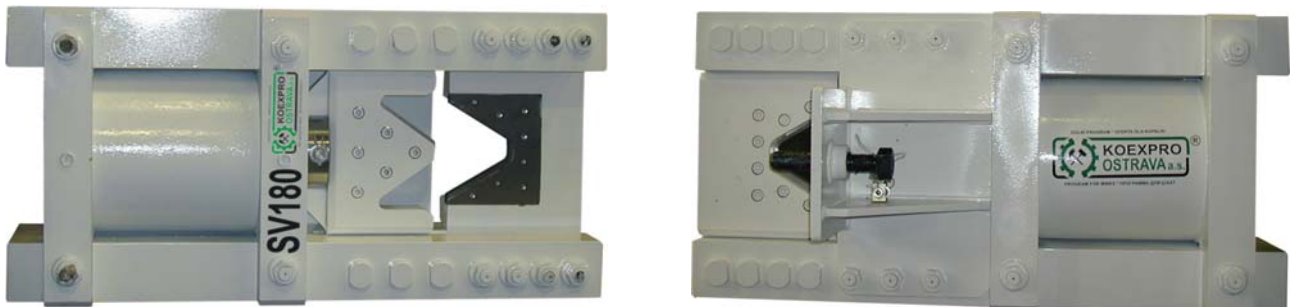
## STEEL ARCH PROFILE CUTTING MACHINE SV 180

### Use and description:

Steel arch profile cutting machine **SV 180** (hereinafter only cutting machine) is equipment intended for cutting of the mine steel arch profiles up to the size TH 36 or V 36 when shortening or scrapping them underground. It is fastened to the portable or stable frame, e.g. platform truck being anchored to the floor mounted railing. The frame and fastening equipment are not parts of the SV 180 delivery.

The cutting machine is usually connected to the central distribution system of the emulsion underground through the four way hydraulic distributor, which is possible to be positioned on the entry support system parts.

The frame consists of four horizontal drawing bars, between them they are covers of the hydraulic cylinder and the steady cutting edge holder. The connection is ensured with bolts. The hydraulic cylinder piston affected the cutting edge shifting holder. The cutting edges are held in the holders with screws. After wearing both cutting edges are possible to turn. The cutting machine is handled using the holding parts. The adjustable support on the steady cutting edge side is the support of the profile to be cut.



SV 180

### Characteristics:

Type		SV 180
Cylinder testing pressure – max.	MPa	32
Operation pressure in cylinder – max.	MPa	25
Max. cutting force at oper. pressure 25 MPa	kN	2 000
Cutting edge stroke	mm	200
Max. of the profile to be cut		TH 36, V 36
Hose connection	20 ÷ 50	DN 12 – STECK
Pressure medium required flow rate	dm <sup>3</sup> .min <sup>-1</sup>	20 ÷ 50
Pressure medium	emulsion HFA with min. 3-5% concentration or hydraulic liquid having a viscosity of 46 mm <sup>2</sup> .s <sup>-1</sup> at 40°C	
Pressure medium source (usually)	central distrib. system of emulsion, max. pressure 32 MPa	
Dimensions	mm	790x697x1 380
Weight	kg	1 480.0

Type marking

**SV 180**

SV ARCH PROFILE CUTTING MACHINE  
180 cutting edge stroke

The product has been designed and constructed as the equipment group I (mine), category M2 according to the Directive 94/9/EC-ATEX of the European Parliament and the Council and meets the requirements for using in areas “hazardous atmospheric conditions 2” according to EN 1127-2+A1 on condition that all national regulations are fulfilled by the employer.

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