

PERSONAL TRANSPORT WALKING SUPPORT SET type SCH – KX 1

Use and description:

Walking support set **SCH - KX 1** (hereinafter only set) is an equipment for reducing the physical load for persons during walking upwards in inclined mine entries and namely using the hemp rope, which walking persons hold and so their mass component in inclined entries is transmitted on the pulling rope.

The set consists of driving, return and tensioning stations, pulley blocks, rope and accessories.

The drive unit is usually located on the upper end and the tension unit on the bottom end of the inclined entry. The endless pulling rope at the height of 1.2 m above the footwall finished for walking is directed in pulley sets fastened to the consoles located at regular distances to the support on entry side. When passing the pulley sets, the walking person makes hand over hand. The rope velocity is set so that the ability of walking in inclined entry is considered. The rope is possible to stop at any position by pulling the "STOP" stranded wire. The footwall must be in good condition.

The pulling rope must be situated and directed so that its rubbing of along the transport way is eliminated (due to contact with support parts, set parts, footwall etc).

Characteristics:

Type		SCH - KX 1
Transport velocity	m.s ⁻¹	0.93
Max. inclination	°	20
Distance between two persons (acc. to project)	m	10 ÷ 15
Max. number of persons transported per hour	pers.h ⁻¹	280
Drive unit output	kW	15
Length of transport way with support	m	up to 1000
Diam. of pulling hemp rope	mm	30

The single set parts have been designed and constructed as the equipment group I (mine), category M2 according to the Directive 94/9/EC of the European Parliament and of the Council and meet the requirements for using in areas "dangerous atmospheric conditions 2" according to EN 1127-2+A1 on condition that all national regulations of the employer are fulfilled.

For the Czech Republic – The set is possible to install only in mine entries, operated in accordance with relevant provisions of Public Notice ČBÚ 22/1989 in valid wording and especially with provisions laid down in § 291a § 292 of this regulation.

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