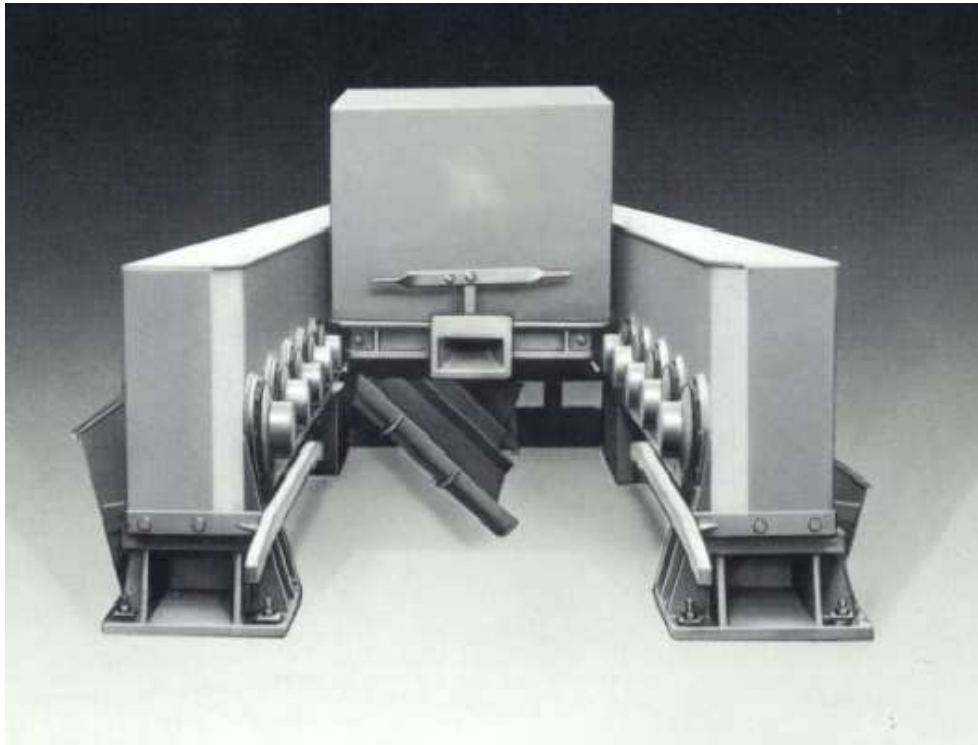


Discharge Station for VSV-Wagons Type VS VSV

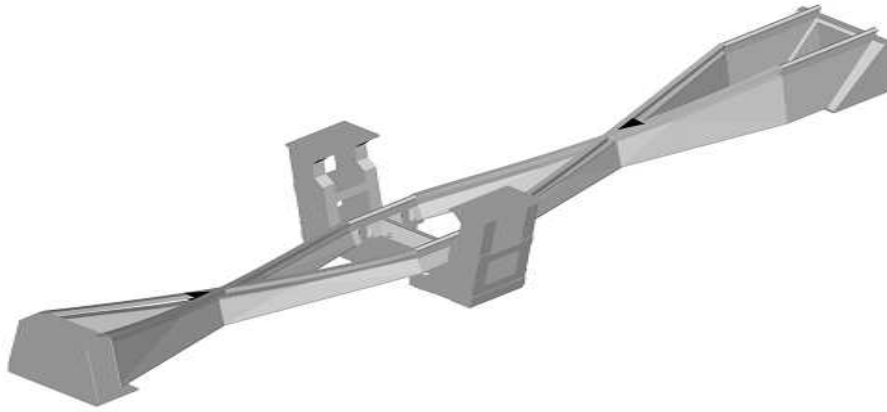


Utilization:

The discharge station serves for automatic discharge of wagons in a skip silo during the continuous run of the train-set. According to the mine-floor technology the station is designed as unidirectional or bidirectional, single-curvilinear or double-curvilinear, for wagon types 3,3 or 5,3 or 10.

Technical Parameters:

	VS VSV 3,3	VS VSV 5,3
Discharge station type		
The main beam length (mm)	9 000	10 600
Length of traverse curve-part (mm)	8 500	9 450
The main beam height (mm)	900	1 045
Pulleys passage spacing (mm)	1 120	1 275+5
Max. locomotive weight (tonnes)	12	15
Discharge station weight (kg)	13 000	15 000
Undercarriage gauge (mm)	600	600
Station design - according to curves:	single-curvilinear with left-side discharge single-curvilinear with right-side discharge double-curvilinear	
- accord. to passage:	one- or bi-directional	
Passage speed (recommended) (m/s)	0,3-0,4	max. 0,8



Description:

The discharge station is formed by two longitudinal bearers with traverse pulleys, the curve-part, the console and facilities. The bearers repose upon the silo structure and they overlap the silo diameter. They are manufactured as a closed frame structure. The supporting pulleys for the passage of the wagons and the locomotive are inserted in the bearers with respective spacing. In the center of the bottom part there are screw-holding-fixtures for the console mounting.

The curve-part is formed by a closed box-bearer with the shape of truncated cone, its upper part is equipped with turn-off round logs. The shape of the curve-part depends on the tilting bottom and the undercarriage of the used automatic discharge wagon. The curve-part borders repose upon the silo steel-structure, in the middle it is suspended on the console upon the bearers. The curve-part edges concur with the mine rail-track.

The console is formed with rolling sectional bars. Via the upper connecting plate it is fixed to the bearers, the curve-part is reposed upon its bottom part. The facilities consist of the discharge station covering, eventually with manual cleaning of wagons and dust sprinkling.

Function:

The train set with automatic discharge wagons runs through the discharge station as one complete, i.e. without wagons disconnecting. The locomotive and wagons are brought over the silo on the traverse pulleys in the station bearers. The curve-part performs the function of discharge control. It consists of three sections: the first section opens the bottom following the curve, the second one guarantees dwell time by the full open bottom and the third section closes the bottom back to the wagon bucket. The train set arrives inertially to the station, after leaving the station it is pulled with the locomotive. On customer's request, the passage of wagon through the station can be assured with hydraulic shunter, then the locomotive does not pass through the station.

