

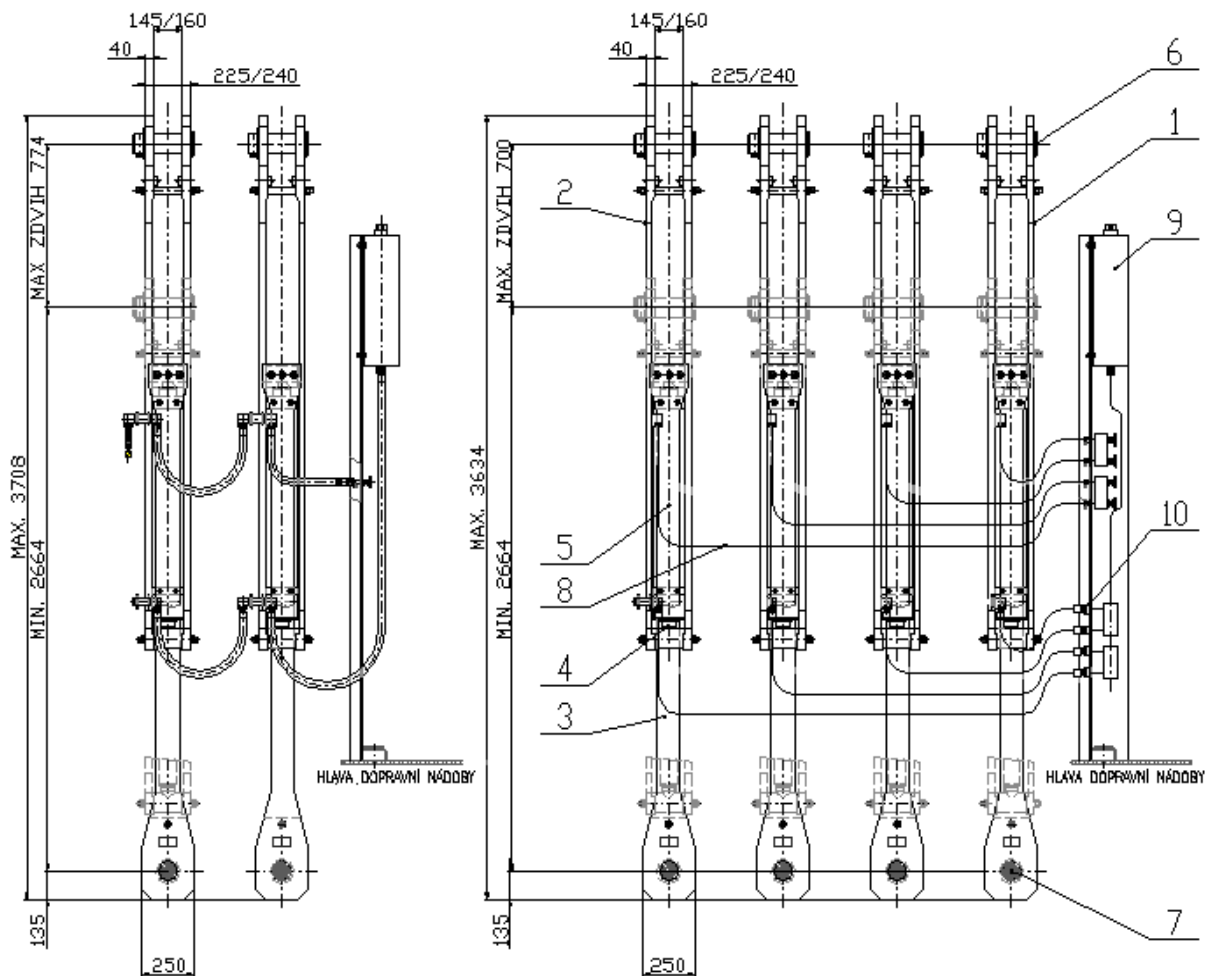
HYDRAULIC TENSILE COMPENSATOR

Type : HV 4 four-ropes – HV 2 two-ropes

Utilization:

Hydraulic tensile compensator serves for the rope tensile balancing by more-ropes winding machines equipped with a friction disc that are rising by the operation from various ropes prolongation, from their tolerance stiffness or from different diameters of the rope-slots of the friction disc. The winding plant is delivered together with a complete relevant compensator set according to the ropes number with hydraulic interconnection of cylinders, valves, pressure gauge and the hydraulic oil supply bin.

Hydraulic Compensators Composition



HV2

HV4

Legend :

1 - complete compensator cylinder, 2 - upper side-frame, 3 - bottom side-frame, 4 - spherical bearing, 5 - working hydraulic cylinder, 6 - upper hinge pin, 7 - bottom hinge pin, 8 - hydraulic interconnection, 9 - hydraulic oil supply bin, 10 - carrying console



Technical Characteristics:

type	marking	HV 2	HV 4
ropes number	pc	2	4
load capacity	kN	300	750
working cylinders diameter	mm	80	125
working pressure/testing	MPa	12 / 32	15 / 32
hydraulic oil	marking	HM 32	HM 32
working stroke	mm	774	700
min. length between hinges	mm	2664	2500
max. length between hinges	mm	3438	3200
hinges diameter	mm	90	100
width between the side-frames	mm	145	145 (160)
hydraulic oil supply bin	liter	20	25
cylinders spacing (according to ropes spacing)	mm	550	400
dimensions – see the drawing			
general drawing number		3040-000	3051-000

Function:

Balancing of the rope tensile consists in the principle of equal pressures in cylinders (given by load), their hydraulic interconnection by the possibility of different strokes of individual cylinders, which answers to different lengths of re-winded ropes. Tensile equalization is enabled until the stroke utilization, then the rope in the thimble must be shortened.

Description:

The operation compensator set consists of the same number of cylinders (1) like winding ropes. The cylinder (1) consists of two upper side-frames (2) and two bottom ones (3), equipped on one side with a head with an eye for hinge pins (6, 7) and on the other side with a screwed spherical bearing (4) with a working hydraulic cylinder (5) between them. The individual cylinders (5) are hydraulically interconnected (8), with hoses, screws, distribution cubes, control-valves set, pressure gauge and the hydraulic oil supply bin (9) placed together with the valves and cubes on the carrying console (10).

Safety:

The product answers to the requirements of the Public Notices No. 22/1989 Coll. and No. 415/2003 Coll. of ČBÚ (Czech Mining Office Board); the safety of mechanical carrying parts of the compensator is minimum 7-tuple against the type static load.

Delivery:

The Hydraulic Tensile Compensator set is delivered dismounted as independent complete parts and interconnection. The steel structure has a protective coating. The product is accompanied by one set of spare parts for the working cylinder sealing. The integral part of the delivery is the accompanying documentation: the assembly drawing, Operation Manual, the list of spare parts, Manufacturer's Certificate, material certificates, Test Reports and static calculation.

Assembly, Adjustment, Maintenance:

Basic mounting and function test is performed by the manufacturer. The assembly shall be only performed by experienced and trained staff authorized for such work by the company leadership following the technical documentation of the manufacturer.

Transport, Storage:

The product is dispatched EXW manufacturer's residence. Storage is recommended under roof in dry ambient with temperature over 5°C.

Guarantee:

The product is given a guarantee of 18 months as from the date of the operation start, however maximum 24 months after the delivery. If the instructions in the Operation Manual are not followed the guarantee of the product is left aside. The recommended service life-time is 10 years.

Others:

After the agreement with the Manufacturer the product may be modified according to the customer's requirement. According to an agreement the Manufacturer performs service work.

Placing an Order:

In your Purchase Order kindly state: number of pieces, name and type, drawing number

Purchase Order Example: 4 pc Hydraulic Tensile Compensator HV 4, Drwng No. 3051-000