



SVH-30-150

TECHNICAL CHARACTERISTICS

Exciter model:	SV-30
Peak force:	300,6 kN (67 580 lbs)
Piston area:	145,3 cm ² (22,53 inches ²)
Reaction mass:	5045 kg
Maximum amplitude of reaction mass motion:	110 mm
Extreme frequency range:	1 to 250 Hz
Servo valve type:	Atlas 240H with pilot MOOG 760C928A and servo doctor
Control block type:	GDS-1+ (OOO «GDS»), VE-432 («Sercel»), FORS III, or equivalent
Hydro-pneumatic accumulators of reaction mass:	2 x 5 l (1,3 gl) mass collector
Stroke of hydraulic cylinders of lifting and lowering:	100 cm (38,5 inches)
Reaction mass weighting method:	Air bellows
Method of vibration dampening for the machine operator:	Air bellows
Hydraulic system:	Closed-type
Hydraulic system pump:	Denison P-14, 229 cm ³ (14 inches ³)
Max. pump delivery:	7,5 x 10 ⁻³ m ³ /sec (450 l/min)
Hydraulic system filters:	3 micron on servo valve and high pressure line, 5 micron on low pressure line
Hydro-pneumatic accumulators:	4 x 10 l
Working fluid temperature in the hydraulic system:	
-rated:	323 ⁺⁵ °K (50 ⁺⁵ °C)
-maximum:	397 ⁺⁵ °K (90 ⁺⁵ °C)
Hydraulic system working fluid:	
-winter at ambient t° range from -40°C to +10°C :	Oil Shell TELLUS S2 V32 (or equivalent)
-summer at ambient t° range from +10°C up:	Macro Shell TELLUS S2 V46
Baseplate area:	2,5 m ² (3,864 inches)
Baseplate weight:	1970 kg

TRANSPORT BASE

High mobility and cross-country ability are provided by:

- low ground pressure (at the level of a pedestrian, with load) when the rubber-metal caterpillar tracks are on - characteristic of the caterpillar machine with articulated frame;
- high speed of movement with the removed tracks - characteristic of the wheeled transport vehicle;
- the presence of a winch with a hydraulic drive;

Chassis type:	ShKG with 8x8 wheel arrangement
Engine:	YaMZ-7511.10. 400 h.p. capacity at 1900 rpm
Gauge of tracks:	2000 mm
Suspension:	Standard KAMAZ vehicle suspension
Qty of supporting wheels:	8
Distance between axles of two adjacent wheels:	1400 mm
Tires:	425/85 R21
Tire air pressure:	from 0,5 to 3,2 kgf/cm ²
Max. gradability angle:	60% (30°)
Max. side movement angle at sidehill:	10°
Max.speed:	
-On road:	40 kmph
-Off road:	15-22 kmph
Working fluid pressure:	
-In discharge line of hydrostatic transmission circuit:	38 MPa (380 kgf/cm ²)
-In return line:	2,8 MPa (28 kgf/cm ²)
Source weight, max:	31000 kg
Overall dimensions:	
-length:	9720 mm
-width :	2500 mm
-height (at the level of the engine exhaust pipe):	3630 mm
Frame:	articulated