



# SV-30-120M

## TECHNICAL CHARACTERISTICS

Exciter model:	SV-30
Peak force:	300,6 kN (67 580 lbs)
Piston area:	145,3 cm <sup>2</sup> (22,53 sq.in.)
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 5l (1,3 gal) 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 (14 inches <sup>3</sup> )
Max. pump delivery:	7,5 x 10 <sup>-3</sup> m <sup>3</sup> /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 <sup>+5</sup> °K (50 <sup>+5</sup> °C)
-maximum:	397 <sup>+5</sup> °K (90 <sup>+5</sup> °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 <sup>2</sup> (3,864 inches)
Baseplate weight:	1970 kg

## TRANSPORT BASE

Chassis type:	MZKT 652513
Engine:	YaMz-7511 with preheating system. 400 h.p. capacity at 1900 rpm
Dimensions:	10100x2550x4000 (LxWxH)
Gross weight:	28 000 kg
Radius of turn:	no more than 13 m
Maximum speed:	50 km/h.
High cross-country ability:	all-terrain vehicle with increased cross-country ability with wheel arrangement 6x6
Wide speed range:	Transmission: Gear box – 5 gears and two-range reducing gear, 9 forward speeds and one reverse; axles – three driving, front axle – steering
Good ground grip properties:	Air tires, wide section, low pressure, with cross-country treads, automatic inflating. Package arrangement with other tires is possible if requested by the Client
Operational comfort:	Fiberglass cabin, number of seats -2, air-conditioning unit, liquid air heater
Frost-resistant unit:	Solid frame, all-welded, made of frost-resistant steel
Winterization:	Completed with a frame tent, cabin heating system, engine preheater.
Operating temperature range:	-45°... +45°
Snow passability:	Road clearance to the base plate is no less than 380 mm.
Long fuel distance:	Fuel distance is no less than 500 km