



# SV-30-120H

## TECHNICAL CHARACTERISTICS

Exciter model:	SV-30
Peak force:	300,6 kN (67 580 lbs)
Piston area:	145,3 cm <sup>2</sup> (22,53 inches <sup>2</sup> )
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 <sup>3</sup> (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:	Self-propelled hydroficated cross-country type chassis with wheel arrangement 4x4.
Engine:	Caterpillar C13. Rating 440 h.p
Drive system:	By means of two independent hydrostatic transmissions, consisting of regulated hydraulic pumps and hydraulic motors produced by SAUER-DANFOSS
Gear boxes:	mechanical, two-speed
Steering:	Steering control is effected by SAUER-DANFOSS dispensing pump proportionately with steering wheel angle and rate of turn
Tyres:	depending on geological conditions of operation, there exists a possibility to provide the following tyre sizes: 66x44-25 20 Ply; 66x43-25 20 Ply; 66x34-25 20 Ply; DF (ДФ) 16A; 23,5-25
Articulated frame - Cabin:	All-metal cabin, number of seats -2, air-conditioning unit
For operation in the Far North areas, there is stipulated (is available) a frame tent with pre-heater of engine, fuel tank, hydraulic tank and accumulator batteries.	
Dimensions:	10300 x 2,500 x 3,500 (LxWxH, m )
Gross weight:	31 000 kg
Radius of turn::	max 13 m
Maximum speed:	40 kmph
Fuel distance:	500 km
Operating temperature range:	-45° ... +45°
Road clearance:	min 460 mm

### Track module can be installed - Characteristics track module

Track module load capacity:	25,000 lbs (11340 Kg)
Track module weight:	7,500 lbs (3402 Kg)
Track module type:	Modular, independent, positive drive, self tensioning track system
Track undercarriage:	Unitized, center pivot, 12° up / 12° down oscillation
Track type:	Self cleaning, reinforced rubber
Belt width:	36 inches (914 mm)
Belt length:	252 inches (6400 mm)
Contact area (per module):	2100 inches <sup>2</sup> (1.35 m <sup>2</sup> )
Total weight with crawler module:	40 350 kg.