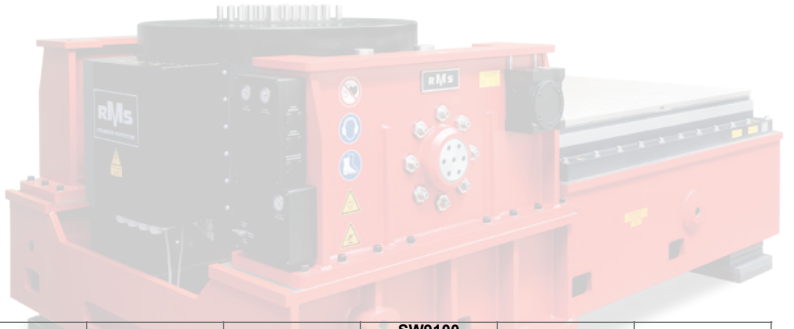




# SHAKERS LINES



## SPECIFICATIONS

Vibration System	SW1512 - 2,9	SW3710 - 7,5	SW8300-24	SW8100	SW8500	SW9100 (option 80kN Atex)	SW9500	SW9600
Sine Force [kN] peak	2,9	7,5	24	20 / 28	38 / 45	60 / 80	100 / 120	150
Random Force [kN] rms (acc. ISO5344)	2,2	6,7	24	20 / 28	38 / 45	60 / 80	100 / 120	150
Shock Force [kN] peak (half sine)	5	15	48	40 / 45	105	120 / 160	200 / 240	380
Usable Frequency Range [Hz] *1	3 - 5000	2 - 3000	5 - 2500	5 - 2500	5 - 2500	5 - 2500	5 - 2300	5 - 2300
Armature Resonance [Hz] *1	4200	2700	2250	2350	2300	2300	2150	2000
Acceleration [m/s <sup>2</sup> ] peak (shock/sine) *1	1200 / 967	1200 / 833	1200 / 1000	1200 / 870 // 1200 / 1000	1200 / 1000	1200 / 1000	1200 / 1000	1200 / 1000
Velocity [m/s] peak (shock/sine) *1 *2	2 / 2	3 / 2	3 / 2	3 / 2	2,5 / 2	3 / 2	2,5 / 2	2,5 / 2
Displacement [mm] pk-pk (shock/sine) *3	25,4 / 25,4	51 / 36	51 / 36	51 / 36	76 / 51	76 / 51	76 / 51	76 / 51
Moving Mass [kg] (dynamic) *4	3	9	22	23	38	53	100	110
Load Support [kg] (max)	30	250	300	300	500	500	1000	1000
Armature Table Diameter [mm]	120	224	284	284	400	435	500 / 550	600
Insert Pattern Number	20	18	16	16	18	19	36	40
Pattern Thread [mm]	6	8	10	10	10	10	12	12
Total Weight [kg] *5	390	1150	2200	2200	3500	3700	8600	8600
Dimensions (HxWxD) [mm] *5	602 x 560 x 520	950 x 1060 x 700	1048 x 1100 x 830	1075 x 1250 x 880	1200 x 1450 x 1150	1250 x 1450 x 1150	1404 x 2060 x 1485	1404 x 2060 x 1485
Noise Emission [dBA] (max) *6	120	120	120	120	120	120	120	120
<b>Cooling system</b>	Air	Air	Air	Water	Water	Water	Water	Water
Motor Power [kW]	5,5	3	7,5	1,5	1,5	3	3	4
Dimensions (HxWxD) [mm]	560 x 500 x 530	560 x 600 x 680	515 x 465 x 474	980 x 610 x 820	980 x 610 x 820	980 x 610 x 820	980 x 610 x 820	980 x 610 x 820
Noise Emission [dBA] *6	75	78	85					
Air Flow [m <sup>3</sup> /min]	5,5	11	30					
Water Flow extern[l/min] *7				18	21 / 25	57 / 76	58 / 75	98
Max Force [kN] peak: (Option Shock 11ms/100g)					65 / 80	120 / 160	160 / 170	200
<b>Power Amplifier</b>	TGE13-1	TGE13-1	TGE 13 - 2	TGE13	TGE13	TGE13	TGE13	TGE13-10
Number of Cabinets	1	1	1	1	2	3	3 / 4	4
Number of Power Moduls	1	1	2	2 / 3	3 / 4	6 / 8	8 / 9	10
Output Power [kVA]	13	13	26	26 / 39	39 / 52	78 / 108	104 / 117	130
Output Current [A] rms	130	130	260	260 / 390	390 / 520	780 / 1040	1040 / 1170	1300
Output Current [A] peak	435	435	870	870 / 1310	1310 / 1750	2620 / 3490	3490 / 3920	4550
Output Voltage [V] rms/peak	100 / 300	100 / 300	100 / 300	100 / 300	100 / 300	133 / 300	100 / 300	100 / 300
Efficiency [%]	>90	>90	>90	>90	>90	>90	>90	>90
Switching Frequency [kHz]	110	110	110	110	110	110	110	110
Signal Input [V] rms (for rated output voltage)	3	3	3	3	3	3	3	3
Signal to Noise Ratio [dB]	68	68	68	68	68	68	68	68
Bandwidth [Hz] (-3dB)	3000	3000	3000	3000	3000	3000	3000	3000
Dimension (HxWxD) [mm]	1980 x 610 x 820	1980 x 610 x 820	1980 x 610 x 820	1980 x 610 x 820	1980 x 610 x 820	2000 x 1830 x 820	1980 x 2440 x 820	1980 x 2440 x 820
Weight [kg]	300	300	400	400	800	1300 / 1400	1300 / 1800	1800
System Total Pow. Requirements [kVA]	9,7	7,9	27,7	27,7 / 32,1	37,3 / 44	99,1 / 129,2	100,3 / 129,1	168,4
ECO-Steps			2	2	3	3	2	2
Energy Saving [kW]			8 @ 60% max force 5 @ 85% max force	8 @ 60% max force 5 @ 85% max force	13 @ 20% max force 10 @ 45% max force 5 @ 80% max force	45 @ 30% max force 30 @ 60% max force 12 @ 85% max force	ultra low Field power: 20 @ 20% max force 10 @ 50% max force	ultra low Field power: 20 @ 20% max force 10 @ 50% max force
* 1 empty table, limited by test masses * 2 extended speed with option 100g / 11ms * 3 Path amplitude with large test masses restricted by counter movement * 4 with standard thread inserts * 5 standard vertical system without sliding table * 6 measured at 1m distance without silencer								
Notes					only for 45 Power-Amp with Field Supply: Double Cabinet	Power-Amp: Double Cabinet, Field Supply: Single Cab	Power-Amp: Double Cabinet, Field Supply: Single Cab	Power-Amp: Double Cabinet, Field Supply: Single Cab

