

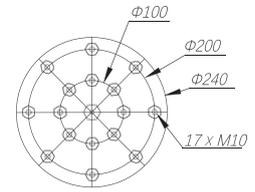
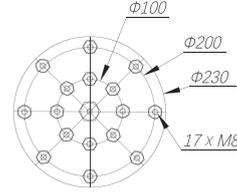
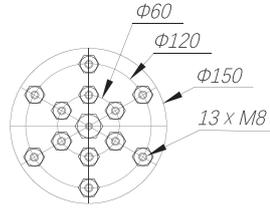
Air-cooled Series

Vibration Test System

Armature pattern

Notes:

Default metric armature pattern (mm)
Contact sales people for optional imperial armature pattern and special requirements.

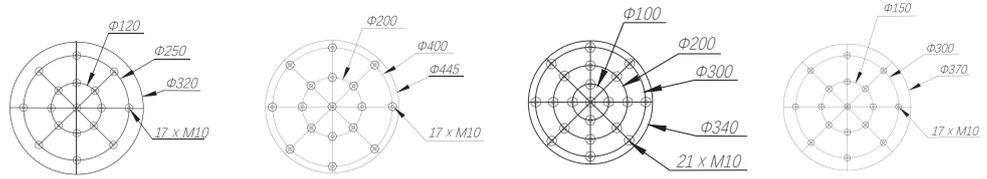


System model	TS1-150	TS1.5-150	TS2-150	TS3-150	TS6-230	TS10-240	TS10D-240
Sine/Random (kN)	1	1.5	2	3	6	10	10
Shock force (kN)	2	3	4	6	12	20	20
Frequency range (Hz)	5-4,500	5-4,500	5-4,500	5-4,000	5-3,500	5-3,000	5-4,500
Max. acceleration (m/s ²)	500	750	1,000	1,000	1,000	1,000	1,000
Max. velocity (m/s)	2	2	2	2	1.8	1.8	1.8
Max. displacement (mm)	25	25	25	25	51	51	51
Max. load (kg)	70	70	70	120	300	300	300
Armature mass (kg)	2	2	2	3	6	10	10
Armature diameter (mm)	150	150	150	150	230	240	240
Body suspension Fre. (Hz)	3	3	3	3	3	2.5	2.5
Armature inserts (standard)	13* M8	13* M8	13* M8	13* M8	17* M8	17*M10	17*M10
Stray flux density	< 3 mT (30 Gs)	< 3 mT (30 Gs)	< 3 mT (30 Gs)	< 3 mT (30 Gs)	< 1 mT (10 Gs)	< 1 mT (10 Gs)	< 4 mT (40 Gs)
Weight (kg)	420	420	420	510	615	930	950
Dimension (mm)	745*560*658	745*560*658	745*560*658	805*560*663	875*560*727	966*640*786	1016*640*843
Power amplifier model	PWA1	PWA1.5	PWA 2	PWA 3	PWA 6	PWA 10	PWA 10
Power (kVA)	1	1.5	2	3	6	10	10
Max. output voltage (V)	110	110	110	110	120	120	120
Max. output current (A)	17	35	35	35	66	110	110
Power requirement (kVA)	4	4.5	5.5	6.5	16	21	21
Weight (kg)	285	285	285	285	285	285	285
Dimension (mm)	605*980*1150	605*980*1150	605*980*1150	605*980*1150	605*980*1150	605*980*1150	605*980*1150
Cooling type	Air cooling						
Blower model	CD200	CD200	CD200	CD200	CD1000	CD1000	CD1000T
Power (kW)	0.75	0.75	0.75	0.75	4	4	4
Air flow (m ³ /s)	0.1	0.1	0.1	0.1	0.33	0.33	0.33
Air pressure (kPa)	1	1	1	1	3.5	3.5	3.5
Weight (kg)	25	25	25	25	120	120	120
Dimension (mm)	496*382*1005	496*382*1005	496*382*1005	496*382*1005	792*557*1260	792*557*1260	792*557*1260

Armature pattern

Notes:

Default metric armature pattern (mm)
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armature pattern and special requirements.

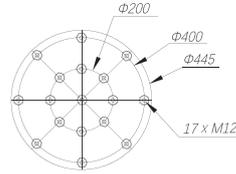


System model	TS20-320	TS20-445	TS20LS3-340	TS30-370	TS30LS4-445	TS40-370
Sine/Random (kN)	20	20	20	30	30	40
Shock force (kN)	40/60	40/60	40/60	60/90	60/90	80/120
Frequency range (Hz)	5-3,000	5-2,800	5-3,000	5-2,800	5-2,600	5-2,800
Max. acceleration (m/s ²)	1,000	700	800	1,000	750	1,300
Max. velocity (m/s)	2	2	2	2	1.8	2
Max. displacement (mm)	51	51	76	51	100	51
Max. load (kg)	300	300	300	500	500	500
Armature mass (kg)	20	28	25	30	40	31
Armature diameter (mm)	320	445	340	370	445	370
Body suspension Fre. (Hz)	2.5	2.5	2.5	2.5	2.5	2.5
Armature inserts (standard)	17*M10	17*M10	21*M10	17*M10	17*M10	17*M10
Stray flux density	< 1 mT (10 Gs)	< 1 mT (10 Gs)	< 1 mT (10 Gs)	< 1 mT (10 Gs)	< 1 mT (10 Gs)	< 1 mT (10 Gs)
Weight (kg)	1750	1750	1750	2550	2550	2550
Dimension (mm)	1136*710*1052	1136*710*1052	1136*710*1066	1230*790*1155	1230*790*1231	1230*790*1155
Power amplifier model	PWA20	PWA20	PWA20	PWA30	PWA30	PWA40
Power (kVA)	20	20	20	30	30	40
Max. output voltage (V)	120	120	120	120	120	120
Max. output current (A)	230	230	230	300	300	400
Power requirement (kVA)	44	44	44	54	54	73
Weight (kg)	330	330	330	585	585	700
Dimension (mm)	605*910*1800	605*910*1800	605*910*1800	605*910*1800	605*910*1800	605*1000*2110
Cooling type	Air cooling					
Blower model	CD3000	CD3000	CD3000	CD3000	CD3000	CD5000
Power (kW)	7.5	7.5	7.5	7.5	7.5	15
Air flow (m ³ /s)	0.46	0.46	0.46	0.46	0.46	1.1
Air pressure (kPa)	8.8	8.8	8.8	8.8	8.8	7.7
Weight (kg)	235	235	235	235	235	285
Dimension (mm)	915*721*1445	915*721*1445	915*721*1445	915*721*1445	915*721*1445	1163*874*1882

Armature pattern

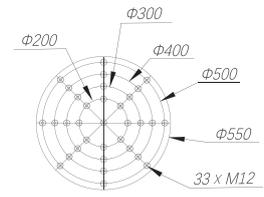
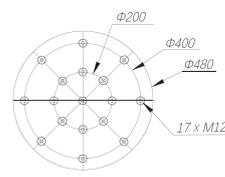
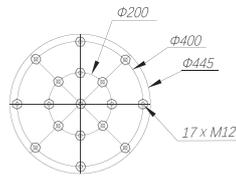
Notes:

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System model	TS40LS4-445	TS49-445	TS49LS3-445	TS49LS4-445	TS50-445	TS50LS3-445
Sine/Random (kN)	40	49	49	49	50	50
Shock force (kN)	80/120	98/147	98/147	98/147	100/150	100/150
Frequency range (Hz)	5-2,600	5-2,600	5-2,600	5-2,500	5-2,600	5-2,600
Max. acceleration (m/s ²)	900	1,000	900	850	1,000	900
Max. velocity (m/s)	1.8	2	2	2	2	2
Max. displacement (mm)	100	51	76	100	51	76
Max. load (kg)	500	800	800	800	800	800
Armature mass (kg)	45	49	54	57.5	50	55
Armature diameter (mm)	445	445	445	445	445	445
Body suspension Fre. (Hz)	2.5	2.5	2.5	2.5	2.5	2.5
Armature inserts (standard)	17*M10	17*M12	17*M12	17*M12	17*M12	17*M12
Stray flux density	< 1 mT (10 Gs)	< 1 mT (10 Gs)	< 1 mT (10 Gs)	< 1 mT (10 Gs)	< 1 mT (10 Gs)	< 1 mT (10 Gs)
Weight (kg)	2550	4550	4550	4550	4550	4550
Dimension (mm)	1230*790*1231	1636*1104*1274	1636*1104*1285	1636*1104*1340	1636*1104*1274	1636*1104*1285
Power amplifier model	PWA40	PWA50	PWA50	PWA50	PWA50	PWA50
Power (kVA)	40	50	50	50	50	50
Max. output voltage (V)	120	120	120	120	120	120
Max. output current (A)	400	500	500	500	500	500
Power requirement (kVA)	73	82	82	82	82	82
Weight (kg)	700	780	780	780	780	780
Dimension (mm)	605*1000*2110	605*1000*2110	605*1000*2110	605*1000*2110	605*1000*2110	605*1000*2110
Cooling type	Air cooling					
Blower model	CD5000	CD5000	CD5000	CD5000	CD5000	CD5000
Power (kW)	15	15	15	15	15	15
Air flow (m ³ /s)	1.1	1.1	1.1	1.1	1.1	1.1
Air pressure (kPa)	7.7	7.7	7.7	7.7	7.7	7.7
Weight (kg)	285	285	285	285	285	285
Dimension (mm)	1163*874*1882	1163*874*1882	1163*874*1882	1163*874*1882	1163*874*1882	1163*874*1882

Notes:
 Default metric armature pattern (mm)
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System model	TS50LS4-445	TS60-445	TS60LS3-445	TS60LS4-445	TS65LS3-480	TS70LS3-550
Sine/Random (kN)	50	60	60	60	65	70
Shock force (kN)	100/150	120/180	120/180	120/180	130/195	140/210
Frequency range (Hz)	5-2,500	5-2,600	5-2,600	5-2,500	5-2,700	5-2,500
Max. acceleration (m/s ²)	850	1,000	1,000	1,000	920	850
Max. velocity (m/s)	2	2	2	2	2	2
Max. displacement (mm)	100	51	76	100	76	76
Max. load (kg)	800	800	800	800	1,000	1,000
Armature mass (kg)	59	60	55	60	70	82
Armature diameter (mm)	445	445	445	445	480	550
Body suspension Fre. (Hz)	2.5	2.5	2.5	2.5	2.5	2.5
Armature inserts (standard)	17*M12	17 * M12	17*M12	17*M12	17*M12	33*M12
Stray flux density	< 1 mT (10 Gs)	<1mT (10Gs)	< 1 mT (10 Gs)			
Weight (kg)	4550	4550	4550	4550	4550	7300
Dimension (mm)	1636*1104*1340	1636*1104*1274	1636*1104*1285	1636*1104*1340	1636*1104*1276	1636*1104*1276
Power amplifier model	PWA50	PWA60	PWA60	PWA60	PWA70	PWA70
Power (kVA)	50	60	60	60	70	70
Max. output voltage (V)	120	120	120	120	120	120
Max. output current (A)	500	550	550	550	580	580
Power requirement (kVA)	82	95	95	95	108	108
Weight (kg)	780	850	850	850	900	900
Dimension (mm)	605*1000*2110	605*1000*2110	605*1000*2110	605*1000*2110	605*1000*2110	605*1000*2110
Cooling type	Air cooling					
Blower model	CD5000	CD7000	CD7000	CD7000	CD7000	CD7000
Power (kW)	15	22	22	22	22	22
Air flow (m ³ /s)	1.1	1.6	1.6	1.6	1.6	1.6
Air pressure (kPa)	7.7	7.5	7.5	7.5	7.5	7.5
Weight (kg)	285	390	390	390	390	390
Dimension (mm)	1163*874*1882	1163*959*1882	1163*959*1882	1163*959*1882	1163*959*1882	1163*959*1882