



ROTARY VIBRATOR SELECTION GUIDE

Weight of Material in Sloped Portion of Hopper		PNEUMATIC ROTARY VIBRATORS					HYDRAULIC ROTARY VIBRATORS	 ELECTRIC ROTARY VIBRATORS			
Pounds	Kilo-grams	Ball Vibrator	 TurboViber® Turbine Vibrator	High Frequency Dual-Roller Vibrator	Air Motor-Driven Design Series Vibrator	Hydraulic Motor-Driven Design Series Vibrator	Single Phase	3 Phase	12V / 24V DC		
350	159	BS-10	SST-12				QT2-40X				
500	227	BS-13, US-13	SST-12				QT2-80X				
750	340	BS-16, US-13	SST-12				QT2-100X				
1,000	454	BS-19, US-19, CS-19	SST-12, SST-16				QT2-130X				
1,500	680	BS-19, US-19, CS-19	SST-12, SST-16			C2-0.5-2HM	QT2-150X	QT2-150X			
2,000	907	BS-25, US-25, CS-25	SST-12, SST-16			C2-0.5-2HM	QT2-150X	QT2-150X			
2,500	1,134	US-25, CS-25	SST-16, SST-25			C2-0.5-2HM	QT2-300X	QT2-300X			
3,000	1,361	US-38, CS-35	SST-16, SST-25			C2-0.5-2HM	QT2-300X	QT2-300X	CEG-400		
3,500	1,588	US-38, DS-41	SST-25			C2-1.0-2HM	QT2-450X	QT2-450X	CEG-400		
4,000	1,814	US-38, DS-41	SST-25			C2-1.0-2HM	QT2-450X	QT2-450X	CEG-400		
4,500	2,041	US-38, DS-51	SST-25			C2-1.0-2HM	QT2-450X	QT2-450X	CEG-800		
5,000	2,268	US-44, DS-51	SST-25			C3-1.5-4AC	QT2-600X	QT2-600X	CEG-800		
6,000	2,722	DS-51	SST-25			C3-1.5-4AC	QT2-600X	QT2-600X	CEG-800		
7,000	3,175	Use more than one vibrator to achieve total force required	SST-25			C3-1.5-4AC	QT2-800X	QT2-800X	CEG-800		
8,000	3,629		SST-35	TV-3X		C3-2.0-4AC	C3-2.0-2HM	QT2-800X	QT2-800X	CEG-800	
9,000	4,082		SST-35	TV-3X		C3-2.0-4AC	C3-2.0-2HM	QT2-1000X	QT2-1000X	CEG-1200	
10,000	4,536		SST-35	TV-3X		C3-2.5-4AC	C3-2.5-2HM	QT2-1000X	QT2-1000X	CEG-1200	
12,500	5,670		SST-35	TV-3X		C3-2.5-4AC	C3-2.5-2HM	Use more than one vibrator to achieve total force required	QT2-1500X	CEG-1800	
15,000	6,804		SST-35	TV-5X	TCL-2500	C3-3.0-4AC	C3-3.0-2HM		QT2-1500X	CEG-1800	
17,500	7,938		Use more than one vibrator to achieve total force required	TV-5X	TCL-2500	GCL-4400, GCD-4400	C3-4.0-4AC		C3-4.0-2HM	QT2-2000X	CEG-2200
20,000	9,072			TV-5X	TCL-2500	GCL-4400, GCD-4400	C3-4.0-4AC		C3-4.0-2HM	QT2-2000X	CEG-2800
22,500	10,206			TV-5X	TCL-2500	GCL-4400, GCD-4400	C3-5.0-4AC		C3-5.0-2HM	QT2-2500X	CEG-2800
25,000	11,340			TV-7X	TCL-4000	GCL-4400, GCD-4400	C3-5.0-4AC		C3-5.0-2HM	QT2-2500X	CEG-3600
27,500	12,474	TV-7X		TCL-4000	GCL-5000, GCD-5000	C3-6.0-4AC, D4.5-6-4AC	C3-6.0-2HM, D4.5-6-5HC		QT2-3500X	CEG-3600	
30,000	13,608	TV-7X		TCL-4000	GCL-5000, GCD-5000	C3-6.0-4AC, D4.5-6-4AC	C3-6.0-2HM, D4.5-6-5HC		QT2-3500X	CEG-3600	
32,500	14,742	TV-7X		TCL-4000	GCL-5500, GCD-5500	C3-6.0-4AC, D4.5-6-4AC	C3-6.0-2HM, D4.5-6-5HC		QT2-3500X	CEG-4200	
35,000	15,876	TV-7X		TCL-4000	GCL-5500, GCD-5500	C3-6.0-4AC, D4.5-6-4AC	C3-6.0-2HM, D4.5-6-5HC		QT2-3500X	CEG-4200	
Frequency (rpm) Range		3,100 - 22,000	8,500 - 40,000	9,000 - 14,000	10,500 - 14,500	7,600 - 15,400	2,700 - 5,650	Up to 5,000	3,450	3,450	3,450
		HIGH	VERY HIGH	HIGH	HIGH	HIGH	LOW - MEDIUM	LOW - MEDIUM	MEDIUM	MEDIUM	MEDIUM

The recommended vibrator shown in the Selection Guide is one of several vibrators that can be used. The force created by Pneumatic Vibrators or Hydraulic Vibrators can be adjusted by reducing or increasing the flow. Electric Vibrators have adjustable weight settings. Additional vibrators may be used if more force is required. Single Phase Electric Vibrators are available in 115V and 230V models. Three Phase Electric Vibrators are available in 230V and 460V models. DC Electric Vibrators are available in 12V and 24V models. C3 Hydraulic Vibrators are available with 2HM (High Pressure - Low Flow) or 5HC (Low Pressure - High Flow) Hydraulic Motors. D4.5 and D7 Pneumatic or Hydraulic Vibrators are available with Clamp-type Mounting System (CC4.5 & CC7).



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Pounds	Kilo-grams	Ball Vibrator		<i>TurboViber</i> [®] Turbine Vibrator	High Frequency Dual-Roller Vibrator	Air Motor-Driven Design Series Vibrator	Hydraulic Motor-Driven Design Series Vibrator	Single Phase	3 Phase	12V / 24V DC	
37,000	17,010			TV-7X	TCL-6000	GCL-5500, GCD-5500	D4.5-8.0-4AC	D4.5-8.0-5HC		QT2-4500X	CEG-4200
40,000	18,144			TV-7X	TCL-6000	GCL-5500, GCD-5500	D4.5-8.0-4AC	D4.5-8.0-5HC		QT2-4500X	CEG-4200
42,500	19,278			TV-7X	TCL-6000	GCL-5500, GCD-5500	D4.5-8.0-4AC	D4.5-8.0-5HC		QT2-4500X	
45,000	20,412			Use more than one Vibrator to achieve total force required	TCL-6000	GCL-5500, GCD-5500	D4.5-10.0-4AC	D4.5-10.0-5HC		Use more than one Vibrator to achieve total force required	Use more than one Vibrator to achieve total force required
47,500	21,546				TCL-6000	GCL-5500, GCD-5500	4.5-10.0-4AC	D4.5-10.0-5HC			
50,000	22,680				TCL-6000	GCL-6500, GCD-6500	4.5-10.0-4AC	D4.5-10.0-5HC			
52,500	23,814				TCL-6000	GCL-6500, GCD-6500	4.5-10.0-4AC	D4.5-10.0-5HC			
55,000	24,948				TCL-6000	GCL-6500, GCD-6500	4.5-10.0-4AC	D4.5-10.0-5HC			
57,500	26,082			Use more than one Vibrator to achieve total force required		GCL-6500, GCD-6500	D4.5-12-4AC	D7-12-8HC			
60,000	27,216					GCL-6500, GCD-6500	D7-12-6AC	D7-12-8HC			
62,500	28,350					GCL-6500, GCD-6500	D7-12-6AC	D7-12-8HC			
65,000	29,484					GCL-6500, GCD-6500	D7-12-6AC	D7-18-8HC			
67,500	29,484					GCL-6500, GCD-6500	D7-18-6AC	D7-18-8HC			
70,000	31,751					GCL-6500, GCD-6500	D7-18-6AC	D7-18-8HC			
72,500	32,885					GCL-6500, GCD-6500	D7-18-6AC	D7-18-8HC			
75,000	34,019					GCL-6500, GCD-6500	D7-18-6AC	D7-18-8HC			
77,500	35,153					Use more than one Vibrator to achieve total force required	D7-18-6AC	D7-18-8HC			
80,000	36,287						D7-18-6AC	D7-25-8HC			
82,500	37,421						D7-25-6AC	D7-25-8HC			
85,000	38,555						D7-25-6AC	D7-25-8HC			
87,500	39,689						D7-25-6AC	D7-25-8HC			
90,000	40,823						D7-25-6AC	D7-25-8HC			
92,500	41,957						D7-25-6AC	D7-25-8HC			
95,000	43,091						D7-25-6AC	D7-25-8HC			
97,500	44,225						D7-25-6AC	D7-25-8HC			
100,000	45,359						D7-25-6AC	D7-25-8HC			
110,000	49,895						D7-25-6AC	D7-25-8HC			
120,000	54,431						D7-50-6AC	D7-50-8HC			
130,000	58,967						D7-50-6AC	D7-50-8HC			
Frequency (rpm) Range		3,100 - 22,000	8,500 - 40,000	9,000 - 14,000	10,500 - 14,500	7,600 - 15,400	2,700 - 5,650	Up to 5,000	3,450	3,450	3,450
		HIGH	VERY HIGH	HIGH	HIGH	HIGH	LOW - MEDIUM	LOW - MEDIUM	MEDIUM	MEDIUM	MEDIUM

