



It must say "OZTEC" to be the industry's best concrete vibrator



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Industry Leader in Concrete Vibrating Technology and Products

Formed in 1965, Oztec Industries began building it's reputation as a designer and manufacturer of quality construction equipment with the introduction of their first Terrazzo Grinder. Quickly responding to industry needs for a powerful, rugged machine, the Diamond Terrazzo Grinder was developed and patented by Oztec. It "sped" through the grinding process four to five times faster than existing carborundum machines making seemingly impossible, costly projects, possible and profitable. For better maneuverability in small areas, Oztec developed the Single Blade Diamond Grinder, which is still popular today for grinding concrete. Gas and electric ceiling grinders were developed adjustable from seven to twelve feet. Clean-up of the job site was made easier with Oztec's unique "terrazzo cleanup system" which constantly vacuums and pumps waste material outside the job site. Oztec grinders have produced top quality results on thousands of jobs over the years.

As a natural extension of their success in finishing terrazzo and concrete surfaces, Oztec Industries began designing and manufacturing quality vibrating equipment to meet the needs of the concrete construction industry. Immediately, the power, quality and reliability of Oztec vibrating equipment gained it a reputation as the best on the market. Oztec's status in the industry remains! Continually improving existing designs and developing new ideas, Oztec provides the right equipment to produce superior concrete on any size job. Oztec's line of fully interchangeable steel and rubber heads, electric and gasoline motors, back packs and portable mounts and flexible shafts are the most powerful, versatile and reliable in the industry.

With the development of the patented "RubberHead", Oztec has designed and produced a vibrator head that not only surpasses all the standards for protecting epoxy coated rebar, but is unequaled in consolidating concrete. The "RubberHead" dimple design provides a more powerful radius of action along the entire length of the head, absorbs less vibration than steel and deflects, then pushes forward with high velocity. The "RubberHead" is an absolute must for Architectural and low slump concrete.

Oztec Industries continues to explore and develop means of producing superior quality concrete...Oztec Industries...Advanced design...Quality Manufacturing...Superior Results...Oztec...Simply The Best!

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Oztec Vibrator Heads produce the highest amplitude and centrifugal force, generating the largest radius of influence of any heads available. Energy is efficiently transferred from the motor, via the shaft, to the head, which is all eccentric (vibrating the entire head). Whether combined with one of Oztec's electric or gasoline powered motors and choice of flexible shafts...The results are exceptional!...Superior consolidation, increased productivity and a process more forgiving of less than perfect vibrating techniques. The benefits?? Lower cost...Higher earnings...Superior quality concrete!!

Steel Heads

Standard of the industry for use in most applications.

Oztec's "High Efficiency RubberHead" Outperforms <u>any</u> other type of vibrator

RubberHead

Epoxy coated rebar presents a particularly troublesome problem. Steel heads act like an electric hammer, striking any rebar or forms they contact, over 10,000 times per minute, with a force from hundreds to over 2,000 pounds per blow. Contact with a steel vibrator head of as little as one second can chip enough coating to subject the steel to deep rust. Oztec's patented High Efficiency "RubberHead" vibrator head not only meets DOT non-metal head specifications for protecting coated rebar and expensive forms, but exhibit some very special and unique properties. The High Efficiency "RubberHead" urethane *dimpled* construction sends strong shock waves off the entire length of the head, with a larger radius of action, producing denser concrete with less voids to patch.

Oztec's patented "High Efficiency RubberHead":

- Will outperform <u>any other type of vibrator...round, square, hi-cycle,</u> <u>etc...Any Type!</u>
- Will protect epoxy coated rebar and expensive forms.
- Is outstanding in low slump (to "0" slump) concrete.
- Essential in large pours of very stiff concrete.
- Makes concrete denser with less voids to patch.
- Vibrates @ 12,000vpm, never drops below 10,500vpm when lowered deep into low slump concrete.
- Provides Superior Action.
- Is an absolute must for Architectural concrete where cosmetic surfaces are essential.

Regular Heads dia. x length Short Heads dia. x length ³/₄" x 12" (pencil head) ³/₄" x 6" (pencil head) 1" x 13" 1 ¹/₄" x 6" 1 ¹/₄" x 13" 1 ³/₄" x 6" 1 ¹/₂" x 14" 2 ¹/₂" x 6" 1 ³/₄" x 14" 2 ¹/₂" x 6"

Special Pencil Head

2 ½" x 13"

"For Fill Cell Block"

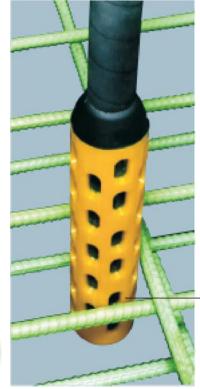
Mild Vibration Pencil Head - High frequency, low amplitude. (For fill-cell block use; to prevent blowouts). Call 1-800-533-9055 for technical information. ³/₄" x 12" (pencil head-mild vibration)

Rubber Tips

Available for all Steel Heads. To order, add RT to the part number.







Inner steel construction

Urethane protective coating

Oztec's patented high efficiency vibration vector design

Oztec's High efficiency "RubberHead" providing maximum protection for epoxy coated rebar

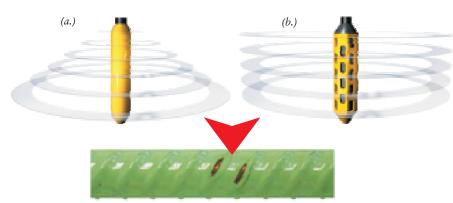
Protective rubber tip

All Oztec vibrators meet or exceed ACI specification # 309

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Why the Oztec "RubberHead" outperforms any other type of Vibrator. (a.) When a smooth vibrator head (round, square or any other shape) is lowered into a relatively stiff concrete batch, the front or nose of the vibrator drills a hole. It pushes away concrete faster than it can return. Result, shock waves produced mostly from the vibrator's front end.

(b.) Oztec's patented "RubberHead" has a large number of openings which allow wet concrete to cool the inner shell. These openings act like "suction cups", which keeps concrete in contact with the entire length of the vibrator head, sending strong shock waves into the mass.



Damage caused by a standard steel vibrator head.

Available Sizes: dia. x length
1½"x 14"
1 ⁷ ⁄ ₈ "x14"
2 ¹ /2"x14"
2 ³ /4"x14"
$2^{3/4}$ "x6" (short, for slabs)

Prove it to yourself!

Before you purchase a high cycle system with expensive generators or controllers, call 800-533-9055 or visit our web site to arrange a demonstration on your job site.

🗧 Rebar Shaker

Introducing A New Way To Vibrate Concrete In A Blockwall Cell ... Turn Your Rebar Into A Vibrator

Eliminate the time and mess of lowering a concrete vibrator into a cell containing a rebar and filled with concrete. The splashes caused by the withdrawal of the vibrator is slippery, dangerous and time consuming to cleanup.

The Rebar Shaker simply slipped over the top of the rebar, vibrates and consolidates concrete in 5 to 7 seconds.

Tremendous savings in man-hours, from filling and refilling cells, clean-up and lost time due to injury from slips and falls, are realized through the use of the Rebar Shaker.







Flexible Shafts

When transmitting power from the power source to the vibrating head, select one of Oztec's flexible shafts. Oztec Flexible Shaft inner cores are made from extra-high carbon steel wires with casings made from tough abrasion resistant neoprene rubber, reinforced with multiple layers of high tensile wire braiding with a hardened flat steel liner.

This construction makes Oztec Flexible Shafts rigid enough for driving into the stiffest concrete without kinking yet limber and nonslip for easy and effective handling.

Oztec Flexible Shafts are interchangeable on all Oztec power units, are reversible (doubling their service life), and come supplied with "quick change" adapters.

Standard lengths (in feet): 2, 5, 7, 10, 14, 16, 18 and 21.

Oztec Flexible Shafts can be coupled to 42 feet using shaft coupling #6725A1.

Oztec Shafts have been successfully coupled to 65 feet. Custom lengths are available. For either situation, call Oztec for details at 1-800-533-9055.

Pencil Shafts for Pencil Head vibrators are available in 3, 6, 9, 15 and 20 foot lengths. (Pencil Shafts cannot be coupled together, but can be lengthened, by coupling to a standard shaft with coupling P/N: 6725A1).



Quick Disconnect Feature

Oztec's "Quick Disconnect" feature, allows shaft removal from the power unit with the twist of a lever. The lightweight and bearing-less coupling allows the job to be done in seconds without any tools. This fitting will not rust or seize.

Flexible Shaft Adapters

Taking advantage of Oztec's quality doesn't mean a major reinvestment to replace all your existing equipment. Oztec Supplies motors, shafts and heads (steel only) that are interchangeable with most other makes. Oztec makes various style core and casing adapters which allow other manufacturers flexible shafts and heads to be used with Oztec motors or other motors with Oztec flexible shafts and heads.



Flexible shaft adapters for use with other manufacturers' equipment. Call 1-800-533-9055 for specifications.

Flexi-Lube

Specially formulated shaft lubricant designed to increase the performance and life of any flexible shaft.



OZTEC Power Units All Oztec Power Units (gas and electric) run power heads 11,000 to 12,000 vpm. They never drop below 10,000vpm even in the lowest slump concrete (near 0) when maximum head size specifications (see page 6) are followed.

Electric Motors

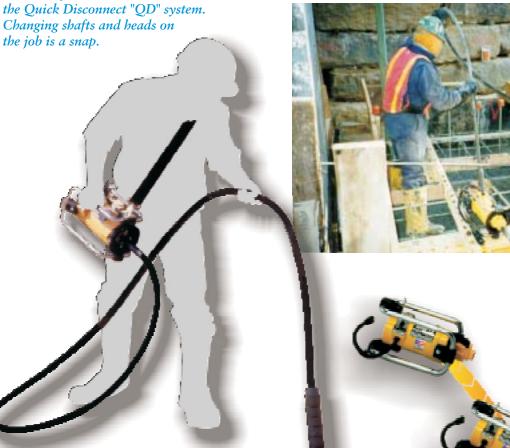
Oztec Electric motors are manufactured to exacting specifications to withstand the rough day to day abuses associated with construction sites. Lightweight, compact and fitted with our comfortable adjustable shoulder strap, this one man power unit will speed through the stiffest concrete. Using the Vibrator Selection Chart allows you to combine power units with any of Oztec's steel or rubber vibrator heads for maximum productivity.

All Oztec power units come standard with



4 Powerful Models			Maximum Head Size		
Model	Amps	HP	Steel	Rubber	
1.2 OZ	9	11/4	1½"	None	
1.8 OZ	15	13/4	13/4"	None	
2.4 OZ	17	21/4	2"	2 ³ /4" short	
3.2 OZ	19	31/4	2¹/2"	2 ³ /4"	

Oztec units meet all United States OSHA and Canadian safety standards.



Job Site Proven

Tough, Rugged, and Durable! Oztec's design has been extensively tested and used on-the-job for over thirty years. The wrap around protective frame and shock absorbers effectively protect Oztec motors from damage even when dropped or thrown from heights of over six feet.

Gas Power Units

Powerful, portable and reliable...Oztec gas power units, provide ultimate and immediate adaptability on the job. Utilizing rugged and dependable Honda gasoline engines, coupled to our "speed-up" transmission, vibrator heads develop 12,000 vpm and never drop below 10,000vpm...Even in the heaviest low slump concrete loads. (Tested in near 0 slump concrete). This 10,000 - 12,000vpm range is essential for high-quality concrete.

(Direct drive units "scream", have short lives and usually drop below 10,000vpm when the head is immersed in concrete).



Two powerful Backpack Models: Mounted on very comfortable frames, OZTEC backpacks BP-31 and BP-50 allow operators incredible maneuverability around the job. Run time with full tank approximately 1 hour plus.

BP-31

Runs heads up to 1 ¹/₂" diameter. Honda 1 ¹/₂ HP, 4 stroke, Weight 19lbs.

BP-50

Runs heads up to 2 ¹/₂" diameter. Honda 2 ¹/₂ HP, 4 stroke, Weight 24lbs.

> GV-5 Carry handle

All Oztec power units come standard with the Quick Disconnect "QD" system

GV-5W Wheelbarrow

Our Carry Handle and Wheelbarrow models, with flexible shaft storage, are ideal for any job site. Utilizing Briggs & Stratton and Honda engines, these power plants run all steel and rubber heads up to $2\frac{3}{4}$ inch diameter.

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*All Heads, Shafts and Power Units Are Interchangeable** 1. Select Head Size 2. Select Shaft Length 3. Select Power Unit (Do Not Exceed Maximum Head Size)

H E A D S		SHAFTS	POWER UNITS
Steel	High Efficiency "Rubber Head [™] "		Maximum Head Size
	100000	C	Model Amps HP Steel Rubber
		Part No.	Electric Motors
Part No.	Part No.	2' FS 02 0Z	1.2 OZ 9 1 ¹ / ₄ 1 ¹ / ₂ " None
* ³ / ₄ " HP 075 OZ	1 ⁷ / ₈ " HR 188 OZ	5' FS 05 OZ	
1" H 100 OZ	2 ½" HR 250 OZ	7' FS 07 OZ	1.8 OZ 15 1 $\frac{3}{4}$ 1 $\frac{3}{4}$ " None
1 ¼" H 125 OZ	2 ³ /4" HR 275 OZ	10' FS 10 OZ	
1 ½" H 150 OZ	2 ¾"x6" HSR 275 OZ	12' FS 12 OZ	2.4 OZ 17 2 $\frac{1}{4}$ 2" 2 $\frac{3}{4}$ " short
1 ³ / ₄ " H 175 OZ 2" H 200 OZ		14' FS 14 OZ	3.2 OZ 19 3 ¹ / ₄ 2 ¹ / ₂ " 2 ³ / ₄ "
2" H 200 OZ 2 ½" H 250 OZ		16' FS 16 OZ	0
2 72 E 230 OZ	Rubber noses	18' FS 18 OZ	Gas Engines
Short Heads	Available for all steel	21' FS 21 OZ	Back Packs
Part No.	heads. Add "RT" to	21 152102	BP - 31 - $1\frac{1}{2}$ 1 $\frac{1}{2}$ " None BP - 50 - $2\frac{1}{2}$ 2 $\frac{1}{2}$ " 2 $\frac{1}{2}$ "
*3⁄4 x 6" HSP 075 OZ	Steel Head Part No.		2^{-2} BF - 30 -2^{-2} 2 2^{-2} 2 2^{-2} 2 3^{-2}
1 ¼ x 6" HS 125 OZ			Carry Handle Models (Briggs & Stratton/Honda)
1 ¾ x 6" HS 175 OZ		Pencil Shafts	GV-5 – 5/5.5 2 ½" 2 ¾"
2 ½ x 6" HS 250 OZ		3' FSP 03 OZ	
		6' FSP 06 OZ	Wheelbarrow (Briggs & Stratton/Honda)
Special Pencil Head*		9' FSP 09 OZ	$GV-5W - 5/5.5 2 \frac{1}{2} 2 \frac{3}{4}$
		11' FSP 11 OZ	12
* ³ / _{4"} HPMV 075 OZ		15' FSP 15 OZ	
(mild vibration)		20' FSP 20 OZ	

* Pencil Head requires Pencil Shafts

All Oztec vibrators meet or exceed ACI specification #309

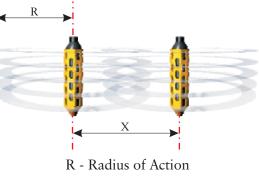
Radius of Action - The most important bit of information needed for complete consolidation.

Radius of Action is the distance from the center of the vibrator to the outer edge, where complete consolidation takes place (see diagram).

For quality concrete Oztec lists conservative values for "Radius of Action". Complete consolidation is necessary for low slump concrete with close meshed reinforcement bars, high strength concrete and architectural concrete.

Radius of Action can be twice the listed values when slump is high or super plastisizers are used. It is important these values are used only as a general guide. Specifications are subject to change.

Head Diameter	Radius of Action (R- inches)	$X = 1 \frac{1}{2}$ Times Radius of Action	Amplitude Centerline to Side (inches)	Centrifugal Force (pounds)	Compaction Rate (cu. yds. / hour)	
		Steel	Heads			
3/4"	3	5	0.03	155	1-3	
1"	4	6	0.04	220	2-4	
11/4"	5	8	0.04	510	2-5	
11/2"	6	9	0.05	920	5-8 8-16	
13/4"	9	14	0.08	1200		
2"	11	17	17 0.075 1500		12-20	
21/2"	13	20	0.08	1850	23-30	
		Rubbe	r Heads			
1 7/8"	11	16	0.09	1400	10-18	
21/2"	14	20	0.12	1900	14-22	
23/4"	18	27	0.12	2100	25-35	
2 3⁄4" short	15	22	0.12	1100	9-15	



R - Radius of ActionX - Insertion Spacing

Tips & Suggestions

"The benefits of even the finest concrete vibrator are lost if the proper operating technique is not followed".

Proper vibrating techniques will:

- Produce concrete with the maximum strength and qualities designed in the mix.
- Bond rebar to maximize strength.
- Slow penetration of rust causing liquids by increasing density.
- Eliminate rock pockets and lift lines.
- Minimize patchwork, improving surface appearance by removing trapped air.

For Quality Concrete, Oztec Suggests:

- 1. Select the largest vibrator suitable for the job.
- 2. Insert the vibrator vertically, allowing it to sink to the desired depth by its own weight. Forcing it may lock it between rebars.
- 3. Hold the vibrator 5 to 15 seconds then slowly lift vibrator up, staying behind the trapped air's upward movement. Allow about 15 seconds for each 2 foot distance to avoid re-trapping air.
- A slight up and down movement will close the hole formed by the vibrator.
- 5. Withdraw the vibrator quickly when near the top to prevent churning air into the top layer.
- 6. Move vibrator and re-insert at a distance $1\frac{1}{2}$ times the Radius of Action...As shown in the diagrams.
- 7. Allow vibrator to pass 3 to 6 inches into the preceding layer to ensure knitting the two layers together, insuring a good bond and preventing "lift lines" when forms are removed.
- 8 Try to limit pours to 2 to 3 feet high, so air has less resistance to escape.
- Do Not use vibrator to move concrete laterally...it causes segregation (use a shovel). Place vibrator in the center of mounds to 9. knock them down.

Consolidation eliminates pockets of aggregate and air bubbles maximizing strength, eliminating surface voids bringing sufficient fine material to the surface and against the forms to produce the desired finish. Vibrators consolidate concrete by sending out shock waves which allows aggregate to "float" freely while pushing lighter trapped air up and out of the mix. Vibrators allow pouring stiff mixtures which are stronger, more economical and result in less segregation, less bleeding and less shrinkage cracks..

You know that you have consolidated concrete properly when a thin line of mortar appears along the form near the vibrator or the coarse aggregate disappears into the concrete.

Extension Cord Wire Size Per UL Specifications

Too light an extension cord can cause poor performance and motor burn out.

Motor model#	Amps@120v	50ft	100ft	150ft	200ft	300ft
1.2	9	14	14	12	10	8
1.8	15	14	12	10	8	8
2.4	17	14	12	8	8	8
3.2	19	12	12	8	8	6

Limited Lifetime Warranty. Your satisfaction is guaranteed!

Over 35 years of developing and manufacturing concrete vibrators. Oztec has earned a reputation of delivering the most reliable and productive equipment to consolidate concrete.

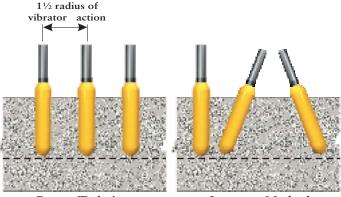
If there is any defect in workmanship or materials, Oztec will repair or replace the part at no charge, for the life of the equipment.

Conditions excluded from Warranty consideration include, but are not limited to the following: • Normal wear and tear.

- Abuse or misuse of equipment.
 Act of God
 Lack of maintenance (rinsing heads, changing brushes, filters, etc..)
 Use of after-market replacement parts and/or components.

Imitated but never equaled, Oztec guarantees your satisfaction.

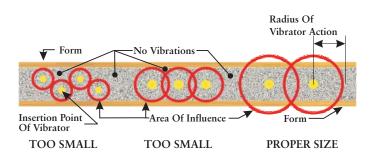
Oztec...Simply The Best!



Proper Technique

Incorrect Method

IMPORTANT: Trapped air moves upward in the mix from 1 to 3 inches per second. (1 inch in near 0 slump; 3 inches in 4 to 5 inch slump).





One page is not sufficient to describe the full scope of vibrating concrete. A fine source for more complete information are publications from ACI.

Proper consolidation techniques will not:

- Cause segregation in well designed concrete.
- Eliminate a significant amount of entrained air.
- Normally damage the lower layers, as long as the concrete in these lower layers becomes plastic under the vibrating action.

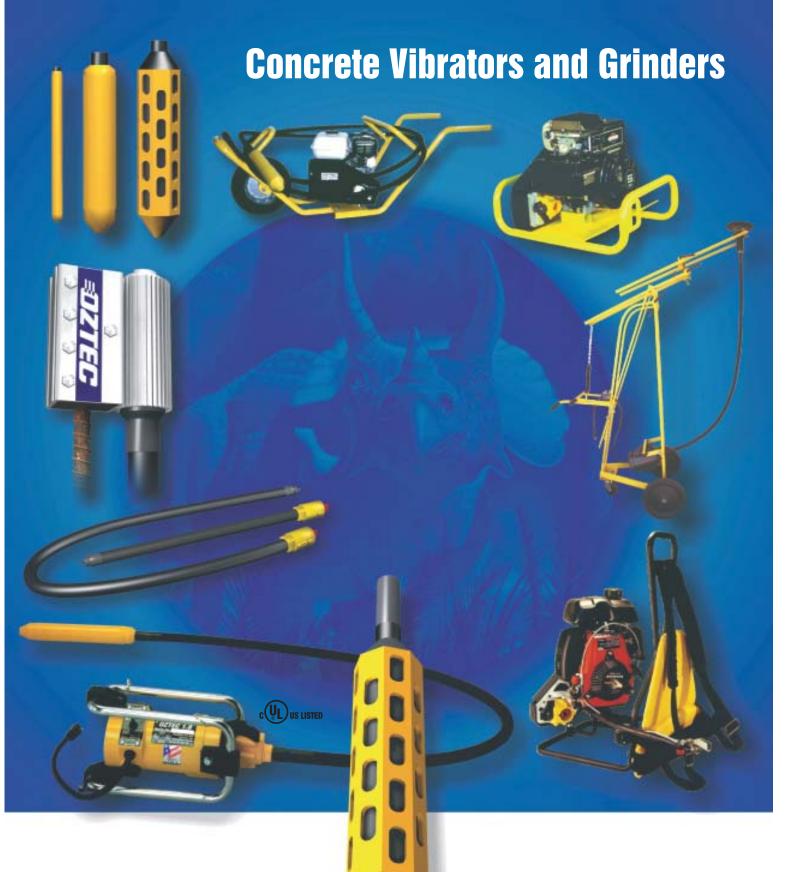
🗧 Ceiling Grinders

CG-12 Ceiling Grinder

- Grinds ceilings 7 feet to 12 feet high.Swivel adjustment allows grinding up to and
- Self aligning grinding head makes full surface contact easy to operate because it needs no adjustment.
- Electric Model CG12E with 1 ¹/₂ HP Baldor motor.
- Gas Model CG12G with 2 ½ HP Honda engine. (Other makes available)







DZTEC

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