

# Finally, A Drop-In That Sets Reliably

*Manually Or Power Driven  
In Half The Time!*

## Smart DI+™ Anchor

- **Fast**
- **Safe**
- **Reliable**
- **UL Listed**  
File No. EX 1289



*The fastest, safest and most  
efficient way to fasten overhead*

Patents Pending

TM

# Smart DI+

Internally Threaded Drop-In Expansion Anchor

**Powers**

FASTENING INNOVATIONS

# Smart DI+™ Anchor (Drop-In)

Internally Threaded Expansion Anchor



STANDARD DROP-IN



SMART DI+™ ANCHOR (DROP-IN)

## Anchor:

Standard steel drop-in anchors are hard to set, typically taking up to 20 hammer blows or more in hard concrete, and often times are not set properly. Smart DI+™ Anchor (Drop-In) has a patent pending plug design that has practically no taper from top to bottom. This causes expansion of the precision manufactured anchor shell to occur at the bottom of the anchor, which results in half the energy spent to set the anchor. Ordinary drop-ins have a tapered plug which builds up friction, making them hard to set and are often only partially expanded. This can lead to potential failure. Powers' new Smart DI+™ Anchor (Drop-In) sets reliably and consistently with a Powers manual setting tool with minimal hammer blows.

### THREAD VERSION

UNC Coarse Thread

### ANCHOR MATERIAL

Zinc Plated Carbon Steel

### ANCHOR SIZE RANGE

1/4" to 3/4" diameter

### BASE MATERIAL

Normal-weight Concrete



DI+™ DRILL

## Drilling:

Powers' patented DI+™ Drill drills the perfect depth hole—virtually eliminating over drilling, which is often the norm when holes are drilled using ordinary SDS+ bits.



DI+™ TOOL

## Driving:

Powers' patented DI+™ Tool, when locked over the DI+™ Drill, allows the installer to fully drive the anchor in rotary hammer mode, typically 2-3 seconds. Powers recommends in medium strength concrete, only the approved DEWALT D25313K, the DEWALT DC233KL and the DEWALT D25404K for 1/4, 3/8 and 1/2 Smart DI+™ Anchor (Drop-In) be used. Powers can supply the total system, ensuring that the proper tools are being used.

ANCHOR  
PRIOR TO  
INSTALLATION



WHEN PROPERLY SET,  
ANCHOR INDICATOR WILL  
LEAVE BLUE PAINT IN  
RECESSED CAVITIES

## Inspection:

The Smart DI+™ Anchor (Drop-In) has a unique patent pending crown design, which is painted blue. The contractor uses the approved SDS+ rotary hammer with the DI+™ Drill and DI+™ Tool, which allows the anchor to be set in 2-3 seconds. The blue outer ring will be removed, leaving blue paint in the 4 recessed cavities of the anchor, indicating that the anchor has been properly set. This procedure is a clear indication for the installer and inspector of a properly set anchor, using the DI+™ Tool.

# Smart DI+™ Anchor (Drop-In)

## PRODUCT DESCRIPTION

The Smart DI+™ Anchor (Drop-In) is an all-steel, machine bolt anchor available in carbon steel. It can be used in solid concrete, hard stone, and solid block base materials. The Smart DI+™ Anchor (Drop-In) is specifically designed to be easier to fully set during installation as a benefit to the user.

## GENERAL APPLICATIONS AND USES

- Suspending Conduit
- Cable Trays and Strut
- Pipe Supports
- Fire Sprinkler
- Concrete Formwork
- Suspended Lighting

## FEATURES AND BENEFITS

- Installs with reduced effort compared to traditional drop in style anchors
- Can be installed using the Powers manual setting tool or Powers Smart DI+™ System with a hammer-drill
- Setting indicator makes identification of properly set anchors easy (when installed using the DI+™ Tool and DI+™ Drill)
- Internally threaded anchor for easy bolt removability and service work

## TESTING, APPROVALS AND LISTINGS

FM Global (Factory Mutual) - Report No. 3040746 (see ordering information)  
Underwriters Laboratory (UL Listed) – File No. EX1289 (N) (see ordering information)

## GUIDE SPECIFICATIONS

CSI Divisions: 03151-Concrete Anchoring and 05090-Metal Fastenings.  
Drop-In anchors shall be Smart DI+™ Anchor (Drop-In) as supplied by Powers Fasteners, Inc., Brewster, NY.

## MATERIAL SPECIFICATIONS

ANCHOR COMPONENT	CARBON STEEL
Anchor Body	AISI 1008
Plug	AISI 1008
Zinc Plating	ASTM B 633, SC1, Type III (Fe/Zn5)

- **Easier To Set, 50% Labor Savings**
- **More Expansion, High Load Values**
- **Safety Indicator, A Visual Inspection of a Properly Installed Anchor**
- **The Smart DI+™ System Ensures Fastest, Safest, Most Efficient Way to Install Smart DI+™**
- **Powers' Manual Setting Tool Also Available**

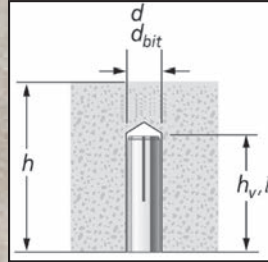


# Smart DI+™ Anchor (Drop-In)

## INSTALLATION SPECIFICATIONS

### Installation Specifications for Threaded Rod and Reinforcing Bar

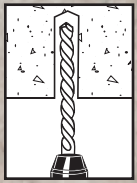
Anchor (Rod) Size	Rod/Anchor Size				
	1/4"	3/8"	1/2"	5/8"	3/4"
Nominal Outside Diameter $d$ (in.)	0.375	0.500	0.625	0.875	1.000
ANSI Drill Bit Size, $d_{bit}$ (in.)	3/8	1/2	5/8	7/8	1
Maximum Tightening Torque, $T_{max}$ (ft.-lbs.)	5	10	20	40	80
Thread Size (UNC)	1/4-20	3/8-16	1/2-13	5/8-11	3/4-10
Thread Depth (in.)	7/16	5/8	1-3/16	1-3/16	1-3/8
Anchor Length $l$ , $h_v$ (in.)	1	1-9/16	2	2-1/2	3-3/16



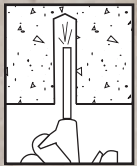
### Nomenclature

- $d$  = Diameter of anchor
- $d_{bit}$  = Diameter of drill bit
- $h$  = Base material thickness. The minimum value of  $h$  should be  $1.5h_v$  or 3" min. (whichever is greater)
- $h_v$  = Minimum embedment depth
- $l$  = Overall length of anchor
- $T_{max}$  = Maximum tightening torque

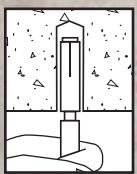
## MANUAL INSTALLATION



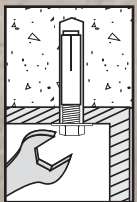
1. Drill a hole into the base material to the depth of embedment required. The tolerances of the drill bit used must meet the requirements of ANSI Standard B212.15. Use any ANSI Standard carbide drill bit.



2. Blow the hole clean of dust and other materials. Insert the anchor into the hole and, if necessary tap flush with surface.

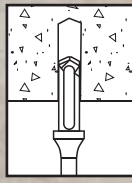


3. Using a Powers manual setting tool specifically, set the anchor by driving the tool with a sufficient number of hammer blows until the shoulder of the tool is seated against the anchor. Anchor will not hold allowable loads required if shoulder of Powers manual setting tool does not seat against anchor.



4. If using a fixture, position it, insert bolt and tighten so as not to exceed the maximum tightening torque. Most overhead applications utilize threaded rod. Minimum thread engagement should be at least one anchor diameter.

## SMART DI+™ INSTALLATION

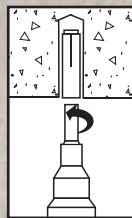


1. Drill a hole into the base material to the depth of embedment required using the appropriate Powers DI+™ Drill. The tolerances of the drill bit used must meet the requirements of ANSI Standard B212.15. Standard installation with a DI+™ Drill may result in the anchor being slightly

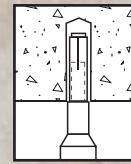
subset from the surface. Minimum published embedment depths must be achieved by using the shoulder of the DI+™ Drill as a guide.



2. Blow the hole clean of dust and other materials. Insert the anchor into the hole and, if necessary, tap flush with the surface.



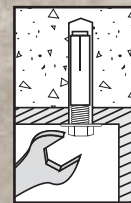
3. Slide the appropriate Powers DI+™ Tool over the DI+™ Drill used to drill the hole and twist counterclockwise to lock the setting tool onto the bit. If tool does not fit snug onto bit it may be necessary to replace the internal rubber spring plug in the tool (see ordering information). Replacement kit sold separately.



4. Once attached, insert the tip of the setting tool into the Smart DI+™ Anchor (Drop-In) and drive the internal plug fully using the rotation with hammer mode of the SDS+ drill (see table below for suggested tools).



5. For proper installation, the shoulder of the setting tool must come briefly in full contact with the Smart DI+™ Anchor (Drop-In) resulting in the blue indicator paint being removed from the raised top of the anchor. The paint will remain in the recessed portion of the top indicating full expansion.



6. If using a fixture, position it, insert the bolt and tighten so as not to exceed the maximum tightening torque. Most overhead applications utilize threaded rod. Minimum thread engagement should be at least one anchor diameter.

### Recommended DEWALT SDS+ Rotary Hammer Drill Specification for Smart DI+™ Anchor (Drop-In) with Smart DI+™ Installation

Diameter	Concrete Strength (psi)	Rated Tool Impact Energy Suggested Range* (ft.-lbs)	Recommended Rotary Hammer Tool Part No.
1/4"	2,500	1.3-2.6	D25313K
	6,500	2.9-3.5	
3/8"	2,500	1.3-4.0	D25313K
	6,500	2.1-4.0	
1/2"	2,500	2.0-4.0	D25313K
	6,500	2.5-4.0	D25404K

\* Local concrete conditions and rotary hammer impact efficiency vary greatly. Please verify that the tool impact energy is sufficient to fully set the internal plug of the Smart DI+™ Anchor (Drop-In) prior to using the system.

# Smart DI+™ Anchor (Drop-In)

## PERFORMANCE DATA

### Ultimate Load Capacities for Smart DI+™ Anchor (Drop-In) in Normal-Weight Concrete<sup>1,2</sup>

Nominal Anchor Diameter <i>d</i> in.	Minimum Embedment Depth in.	Minimum Concrete Compressive Strength - <i>f</i> ' <sub>c</sub> (psi)							
		2,500		3,000		4,000		6,000	
		Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)
1/4	1	1,300	2,495	1,390	2,510	1,565	2,550	1,910	2,620
3/8	1-9/16	1,985	4,160	2,275	4,360	2,850	4,755	4,000	5,550
1/2	2	3,630	7,170	3,815	7,280	4,190	7,505	4,935	7,955
5/8	2-1/2	5,765	9,850	6,290	10,805	7,335	12,710	9,430	16,525
3/4	3-3/16	6,200	16,110	7,320	16,730	9,565	17,975	14,045	20,460

1. Tabulated load values are for anchors installed in concrete. Concrete compressive strength must be at the specified minimum at the time of installation.
2. Ultimate load capacities must be reduced by a minimum safety factor of 4.0 or greater to determine allowable working load.

### Allowable Load Capacities for Smart DI+™ Anchor (Drop-In) in Normal-Weight Concrete<sup>1,2,3</sup>

Nominal Anchor Diameter <i>d</i> in.	Minimum Embedment Depth in.	Minimum Concrete Compressive Strength - <i>f</i> ' <sub>c</sub> (psi)							
		2,500		3,000		4,000		6,000	
		Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)
1/4	1	325	625	345	625	390	635	475	655
3/8	1-9/16	495	1,040	570	1,090	710	1,190	1,000	1,385
1/2	2	905	1,790	955	1,820	1,045	1,875	1,235	1,990
5/8	2-1/2	1,440	2,460	1,570	2,700	1,835	3,175	2,355	4,130
3/4	3-3/16	1,550	4,030	1,830	4,180	2,390	4,495	3,510	5,115

1. Allowable load capacities listed are calculated using and applied safety factor of 4.0.
2. Linear interpolation may be used to determine allowable loads for intermediate compressive strengths.
3. Allowable load capacities are multiplied by reduction factors found in the Design Criteria section when anchor spacing or edge distances are less than critical distances.

## DESIGN CRITERIA (ALLOWABLE STRESS DESIGN)

### Combined Loading

For anchors loaded in both shear and tension, the combination of loads should be proportioned as follows:

$$\left(\frac{N_u}{N_n}\right)^{\frac{5}{3}} + \left(\frac{V_u}{V_n}\right)^{\frac{5}{3}} \leq 1 \quad \text{or} \quad \left(\frac{N_u}{N_n}\right) + \left(\frac{V_u}{V_n}\right) \leq 1$$

Where:  $N_u$  = Applied Service Tension Load       $V_u$  = Applied Service Shear Load  
 $N_n$  = Allowable Tension Load                       $V_n$  = Allowable Shear Load

NOTE: Allowable load values found in the performance data tables are multiplied by reduction factors when anchor spacing or edge distances are less than critical distances. Linear interpolation is allowed for intermediate anchor spacing and edge distances between critical and minimum distances. When an anchor is affected by both reduced spacing and edge distance, the spacing and edge reduction factors must be combined (multiplied). Multiple reduction factors for anchor spacing and edge distance may be required depending on the anchor group configuration.

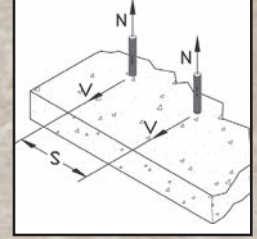
# Smart DI+™ Anchor (Drop-In)

## DESIGN CRITERIA (ALLOWABLE STRESS DESIGN)

### Load Adjustment Factors for Normal-Weight Concrete

		Spacing Distance - Tension				
Dia. (in.)		1/4"	3/8"	1/2"	5/8"	3/4"
Spacing Distance (inches)	hef	1	1-9/16	2	2-1/2	3-3/16
	scr	3	4-1/2	6	7-1/2	9-1/2
	smin	1-1/2	2-3/8	3	3-3/4	4-3/4
	1/2					
	1					
	1-1/2	0.90				
	2	0.94				
	2-1/2	0.97	0.84			
	3	1.00	0.87	0.85		
	3-1/2		0.91	0.88		
	4		0.95	0.90	0.80	
	4-1/2		1.00	0.93	0.83	
	5			0.95	0.86	0.80
5-1/2			0.98	0.89	0.82	
6			1.00	0.91	0.84	
6-1/2				0.94	0.87	
7				0.97	0.89	
7-1/2				1.00	0.91	
8					0.93	
8-1/2					0.96	
9					0.98	
9-1/2					1.00	

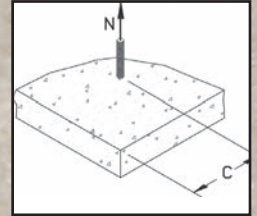
		Spacing Reduction Factors - Shear				
Dia. (in.)		1/4"	3/8"	1/2"	5/8"	3/4"
Spacing Distance (inches)	hef	1	1-9/16	2	2-1/2	3-3/16
	scr	3	4-1/2	6	7-1/2	9-1/2
	smin	1-1/2	2-3/8	3	3-3/4	4-3/4
	1/2					
	1					
	1-1/2	0.62				
	2	0.75				
	2-1/2	0.88	0.65			
	3	1.00	0.73	0.62		
	3-1/2		0.81	0.69		
	4		0.89	0.75	0.60	
	4-1/2		0.97	0.81	0.66	
	5		1.00	0.88	0.71	0.60
5-1/2			0.94	0.77	0.64	
6			1.00	0.83	0.69	
6-1/2				0.89	0.73	
7				0.94	0.78	
7-1/2				1.00	0.82	
8					0.87	
8-1/2					0.91	
9					0.96	
9-1/2					1.00	



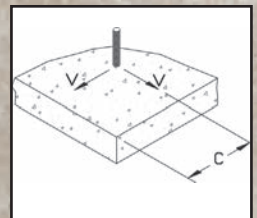
Spacing

		Edge Distance - Tension				
Dia. (in.)		1/4"	3/8"	1/2"	5/8"	3/4"
Spacing Distance (inches)	hef	1	1-9/16	2	2-1/2	3-3/16
	scr	3	4-1/2	6	7-1/2	9-1/2
	smin	1-1/2	2-3/8	3	3-3/4	4-3/4
	1/2					
	1					
	1-1/2					
	2	1.00				
	2-1/2					
	3					
	3-1/2		0.98			
	4		0.99	0.93		
	4-1/2		1.00	0.95		
	5			0.97	0.85	
5-1/2			0.98	0.88		
6			1.00	0.91		
6-1/2				0.94	0.85	
7				0.97	0.88	
7-1/2				1.00	0.90	
8					0.93	
8-1/2					0.95	
9					0.98	
9-1/2					1.00	

		Edge Reduction Factors - Shear				
Dia. (in.)		1/4"	3/8"	1/2"	5/8"	3/4"
Spacing Distance (inches)	hef	1	1-9/16	2	2-1/2	3-3/16
	scr	3	4-1/2	6	7-1/2	9-1/2
	smin	1-1/2	2-3/8	3	3-3/4	4-3/4
	1/2					
	1					
	1-1/2					
	2	0.87				
	2-1/2	0.94				
	3	1.00				
	3-1/2		0.96			
	4		0.98	0.91		
	4-1/2		1.00	0.93		
	5			0.95	0.85	
5-1/2			0.98	0.88		
6			1.00	0.91		
6-1/2				0.94	0.85	
7				0.97	0.88	
7-1/2				1.00	0.90	
8					0.93	
8-1/2					0.95	
9					0.98	
9-1/2					1.00	



Edge Distance - Tension



Edge Reduction Factors - Shear

# Smart DI+™ Anchor (Drop-In)

## SMART DI+™ ANCHOR (DROP-IN) CARBON STEEL SMOOTH WALL

Cat. No.	Rod/Anchor Size	Overall Length	Thread Depth	Std. Box	Std. Ctn.	Wt./100	Approvals
6304SD	1/4"	1"	7/16"	100	1000	2	-
6306SD	3/8"	1-9/16"	5/8"	50	500	6	FM/UL
6308SD	1/2"	2"	13/16"	50	250	12	FM/UL
6320SD	5/8"	2-1/2"	1-1/8"	25	125	32	FM/UL
6312SD	3/4"	3-3/16"	1-3/16"	10	50	48	FM/UL

## DI+™ TOOL

Cat. No.	Rod / Anchor Size	Pin Length	Std. Box	Std. Ctn.
00425SD	DI+™ Tool for 1/4" Smart DI+™ Anchor (Drop-In)	39/64"	1	6
00427SD	DI+™ Tool for 3/8" Smart DI+™ Anchor (Drop-In)	61/64"	1	6
00429SD	DI+™ Tool for 1/2" Smart DI+™ Anchor (Drop-In)	1-3/16"	1	6

## DI+™ TOOL REPAIR KIT

Cat. No.	Kit Contents	Fits Tool Number	Std. Box	Std. Ctn.
00426SD	2 Guide Screws, 1 Rubber Spring Plug	00425SD	1	6
00428SD	2 Guide Screws, 1 Rubber Spring Plug	00427SD	1	6
00430SD	2 Guide Screws, 1 Rubber Spring Plug	00429SD	1	6




## DI+™ DRILL

Cat. No.	Description	Bit Diameter	Std. Box	Std. Ctn.
00391SD	DI+™ Drill for 1/4" Smart DI+™ Anchor (Drop-In)	3/8"	1	12
00397SD	DI+™ Drill for 3/8" Smart DI+™ Anchor (Drop-In)	1/2"	1	12
00410SD	DI+™ Drill for 1/2" Smart DI+™ Anchor (Drop-In)	5/8"	1	12

## MANUAL TOOL

Cat. No.	Rod / Anchor Size	Pin Length	Std. Box	Std. Ctn.
06305	1/4" DI+™ Manual Setting Tool	39/64"	1	250
06307	3/8" DI+™ Manual Setting Tool	61/64"	1	100
06309	1/2" DI+™ Manual Setting Tool	1-3/16"	1	100
06311	5/8" DI+™ Manual Setting Tool	1-5/16"	1	50
06313	3/4" DI+™ Manual Setting Tool	1-61/64"	1	25

## RECOMMENDED ROTARY HAMMER DRILLS

Part No.	Description	
D25313K	DEWALT 1" L-Shape SDS Rotary Hammer Kit	
DC233KL	DEWALT 36 Volt 1" Cordless Li-Ion SDS Rotary Hammer Kit	
D25404K	DEWALT 1-1/8" SDS Hammer Kit	



## POWERS FASTENERS BRANCH INFORMATION

### USA LOCATIONS

CITY	ADDRESS	CONTACT	PHONE	FAX
Alabama	5405 Buford Hwy Suite 410 Norcross, GA 30071-3984	Jeff Hatchett	205-520-6044	678-966-9242
Atlanta	5405 Buford Hwy Suite 410 Norcross, GA 30071-3984	Ryan Raica	678-966-0000	678-966-9242
Boston	2 Powers Lane, Brewster, NY 10509	Jack Armour	800-524-3244	914-576-6483
Charlotte	349 L West Tremont Avenue, Charlotte, NC 28203	Bob Aurisy	704-375-5012	704-376-5517
Chicago	2472 Wisconsin Avenue, Downers Grove, IL 60515	Dan Gilligan	630-960-3156	630-960-3912
Dallas	1300 IH 35 North, Suite #118, Carrollton TX 75006	Matt Henderson	972-506-9258	972-506-9290
Denver	2475 West Second Street #35, Denver, CO 80223	Jared Hemmert	303-922-9202	303-922-9228
Detroit	21600 Wyoming Avenue, Oak Park, MI 48237	Glen Gaskill	248-543-8600	248-543-8601
Florida	2412 Lynx Lane, Orlando, FL 32804	John Christy	813-626-4500	813-626-4545
Houston	13833 North Promenade, Suite 100, Stafford, TX 77477	Vaughn Eshelman	281-491-0351	281-491-0367
Indianapolis	15290 Stony Creek Way, Noblesville, IN 46060	Bill Trainor	317-773-1668	317-773-1690
Kansas City / St Louis	716 East 16th Avenue, North Kansas City, MO 64116	Don James, Jr.	816-472-5038	816-472-5040
Los Angeles	2761 Dow Avenue, Tustin, CA 92780	Trevor Gillespie	714-731-2500	714-731-2566
Maryland	3137-B Penny Drive, Landover, MD 20785	Chris Van Syckle	301-773-1722	301-341-5119
Milwaukee	12020 W. Feerick Street, Milwaukee, WI 53222	Donn Raduenz	414-466-2400	414-466-3993
Minneapolis	351 Wilson Street, NE Minneapolis, MN 55413	Josh Nelson	612-331-3770	612-331-3549
Nashville/Memphis	221 Blanton Avenue, Nashville, TN 37210	Jamie Utley	615-248-2667	615-248-2676
New Orleans	102 Sampson Street, Houston, TX 77003	Cal Zenor	713-228-1524	713-228-1528
New York	2 Powers Lane, Brewster, NY 10509	John Partridge	914-235-6300	914-576-6483
Philadelphia	2 Powers Lane, Brewster, NY 10509	Greg Stephenson	800-524-3244	914-576-6483
Phoenix	3602 E. Southern Ave, Suite 5 Phoenix, AZ 85040	Patrick Stysly	602-431-8024	602-431-8027
Pittsburgh	1360 Island Avenue, McKees Rocks, PA 15136	Bill Dugan	412-771-3010	412-771-9858
Portland	18808 142nd Ave NE, Suite 4A, Woodinville, WA 98072	Jim Swink	360-608-6845	206-762-5817
Rochester	36 Van Auker Blvd., Rochester, NY 14608	Mark Harper	800-524-3244 / 585-529-4188	914-576-6483 / 585-529-5319
Salt Lake City	3120 W. California Ave, Suite E, Salt Lake City, UT 84104	Don Manning	801-466-9428	801-466-3083
San Francisco	28970 Hopkins Street, Suite B+C, Hayward, CA 94545	John O'Brien/Craig Hering	510-293-1500	510-293-1505
Seattle	18808 142nd Ave NE, Suite 4A, Woodinville, WA 98072	Darin Arnold/Jim Swink	206-762-5812	206-762-5817

### INTERNATIONAL LOCATIONS

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Australia	Factory 3, 205 Abbotts Road, Dandenong, South Victoria 3175	Peter Pratis	+61 3 8787 5888	+61 3 8787 5899
Canada	6950 Edwards Blvd. Mississauga, Ontario L5T 2W2	Mark Russell	905-673-7295	905-673-6490
China	Metropolitan Business Centre, East Nandan Road, Lane 300, No. 9, Room 604 Xuhui District, Shanghai, China 200030	Jake Olsen	+86-21-3363-2880	+86-21-5080-5389
Europe	Westrak 208, 1771 SV Wieringerwerf, Netherlands	Colin Earl	+31 888 769 377	+31 227 594 759
Manitoba	1810 Dublin Avenue Man. Winnipeg, R3H 0H3	Distributor	204-633-0064	204-694-1261
New Zealand	PO Box 302 076 North Harbour Auckland	Clay Sesto	+64 9415 2425	+64 9415 2627
Quebec	721 Meloche Avenue, Dorval, Quebec H9P 2S5	Allan Hill	514-631-4216	514-631-2583

### LATIN & CARIBBEAN DISTRIBUTION INQUIRIES

COUNTRY/REGION	ADDRESS	CONTACT	PHONE	FAX
Latin America		Allan Herbert	01150767477749	914-576-6483

### LATIN & CARIBBEAN DISTRIBUTION

COUNTRY/REGION	ADDRESS	CONTACT	PHONE	FAX
Brazil	HARD, Rua Dr. Humberto Pinheiro Viera, 150 Lote B, 1 B Distrito Industrial, Joinville, Brazil		55-47-40097209	55-47-40097217
Colombia	Electrogeno, S.A., Carrera 52 #71c-38, Bogota, Colombia		(57) 1 6600 9436	
Costa Rica	Electro Mechanics Supply, La Uruca Contiguo Banco Ntnl., De Costa Rica Condominio, Horizontal Bodega #9, San Jose, Costa Rica		(506) 2233-2595	
Dominican Republic	Calle Estancia Nueva #17 E Esquina Cul-De-Sac 9, San Geronimo, Santo Domingo	Rodfor Team	809-224-5615	809-472-8640
Ecuador	Acerco Comercial Ecuatoriano S.A., Av. La Prensa N45-14 y Telégrafo 1 – Quito	info@acerocomercial.com	(593-2) 2454 333	(593-2) 2454 455
	Av. Juan Tanca Marengo Km. 1.7 – Guayaquil	info@acerocomercial.com	(593-4) 2683 060	(593-4) 2683 059
Guatemala	Tecnofijaciones, 6 Avenue 8-56 Zona 9, Zona 9, Guatemala	Oscar Lucas Penagos	502-233-4-3478	
Panama	Centro-Industrial, Via Cincuentenario, No. 7910, Ciudad Panama, Panama		(507) 302-8022	
Peru	Powers Peruana SAC, Av. Santa Catalina, 555 La Victoria, Lima 13, Peru (www.powersperuana.com)	Martin Vasquez	(011) 511 265 8500	(011) 511 330 0909
Venezuela	Calle Sucre/Qta. Maudora, #1721 Entre Cec Acosta Y San Ignacio Chacao, Caracas	Distributor	58 212 264 1313	58 212 263 0219
Trinidad - Tobago	Ft. Farfan, 3-5 Ibis Avenue, Ibis Acres, San Juan	Derek Cumming	(868) 674-7896	

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