

**Finally a Drop-In
That Sets Reliably!**

*Manually or Power Driven
In Half The Time!*

Smart DI+™ System

- **Fast**
- **Safe**
- **Reliable**
- **IBC Pending**
- **UL Listed**

File No. EX 1289



Patents Pending

TM

Smart DI+

Internally Threaded Dropin Expansion Anchor

*The Fastest, safest and most efficient
Smart DI+ Bit and Smart Tool System*

Powers is a proud member of:



Powers
FASTENERS



A domestic
company
headquartered
in Brewster, NY

Smart DI+™ Dropin

Internally Threaded Expansion Anchor

STANDARD DROP-IN



SMART DI+ 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 then are not set properly. Smart DI+™ has a patent pending plug design that has almost 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 which can lead to potential failure. The Powers' new Smart DI+™ sets reliably and consistently with a Powers manual setting tool with minimal hammer blows.

Drilling:

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

Driving:

Powers' patented Smart-Tool™, when locked over the Smart-Bit™, 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 Hitachi DF24PH3 (corded) and the DH25DAL (cordless) for 1/4, 3/8 and 1/2 Smart DI+™ anchors be used. For high strength concrete, the Hitachi DH28PC should be used. Powers can supply the total system, ensuring that the proper tools are being used.

Inspection:

The Smart DI+™ has a unique patent pending crown design, which is painted blue. The contractor uses the approved SDS+ rotary hammer with the Smart-Bit™ and Smart-Tool™, which allows the anchor can 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.

ANCHOR SIZE RANGE

1/4" to 3/4" diameter

BASE MATERIAL

Concrete

ANCHOR MATERIAL

Carbon Steel

ANCHOR
PRIOR TO
INSTALLATION



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



SMART-BIT™

SMART-TOOL™

SMART BIT



Cat. No.	Description	Std. Box	Std. Ctn.
00391SD	Smart Bit for 1/4" Smart DI+	1	12
00397SD	Smart Bit for 3/8" Smart DI+	1	12
00410SD	Smart Bit for 1/2" Smart DI+	1	12

MANUAL TOOL



Cat. No.	Description	Std. Box	Std. Ctn.
06305	Manual Setting Tool for 1/4" Smart DI+	1	250
06307	Manual Setting Tool for 3/8" Smart DI+	1	100
06309	Manual Setting Tool for 1/2" Smart DI+	1	100

SMART TOOL



Cat. No.	Description	Std. Box	Std. Ctn.
00425SD	Smart Tool for 1/4" Smart DI+	1	6
00427SD	Smart Tool for 3/8" Smart DI+	1	6
00429SD	Smart Tool for 1/2" Smart DI+	1	6

STANDARD DROP-IN



SMART DI+ DROP-IN

SMART DI+



Cat. No.	Description	Std. Box	Std. Ctn.
6304SD	1/4" Smart DI+ drop in anchor	100	1000
6306SD	3/8" Smart DI+ drop in anchor	50	500
6308SD	1/2" Smart DI+ drop in anchor	50	250

- Easier To Set, 50% Labor Savings
- More Expansion, High Load Values
- Safety Indicator, A Visual Inspection of a Properly Installed Anchor

RECOMMENDED ROTARY HAMMER DRILLS



Powers Part No.	Description
DH24PF3	15/16" SDS Plus Rotary Hammer, 3-Mode (D-Handle)



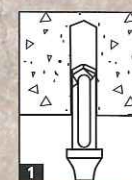
Powers Part No.	Description
DH25DAL	25.2V Lithium Ion SDS Plus Rotary Hammer (3.0Ah)



Powers Part No.	Description
DH28PC	720W SDS Plus Rotary Hammer (110 Volt) For High Strength Concrete

INSTALLATION

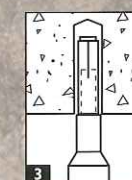
SMART INSTALLATION



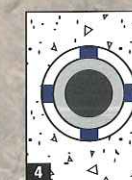
1. Drill a hole into the base material to the depth of embedment required using the appropriate Powers Smart Bit and verify that is free of dust and debris.



2. Slide the appropriate Powers Smart Setting Tool over the Smart Bit used to drill the hole and twist counterclockwise to lock into place. Once attached, insert the tip of the setting tool into the Smart DI+ and drive the internal plug fully using the rotation with hammer mode of the SDS+ (or SDS Max) drill.

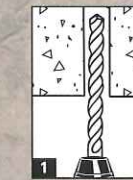


3. If using a fixture, position it, insert the bolt and tighten. Most overhead applications utilize threaded rod. Minimum thread engagement should be at least one anchor diameter.

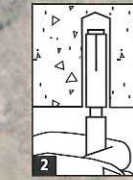


4. For proper installation, the shoulder of the Smart Tool must come in contact fully with the Smart DI+, resulting in the blue indicator paint being removed from the raised profile of the drop-in. The paint will remain in the recessed portion of the top indicating full expansion.

MANUAL INSTALLATION



1. Drill a hole into the base material to the depth of embedment required using the appropriate carbide drill bit and verify that is free of dust and debris.



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



3. If using a fixture, position it, insert bolt and tighten. Most overhead applications utilize threaded rod. Minimum thread engagement should be at least one anchor diameter.

POWERS' NEW SMART DI+ SYSTEM CAN ENSURE THE FASTEST, SAFEST AND MOST EFFICIENT WAY TO INSTALL SMART DI+.

POWERS' MANUAL SETTING TOOL IS ALSO AVAILABLE.