



## A-1 SERIES

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Maximize versatility and work efficiently in tight spaces with Minnich A-1 Series on-grade single drills. A-1 Series machines can be configured to drill four ways: horizontally, vertically, into a wall, or six inches from a corner. This eliminates the need for additional equipment or conversion kits. The A-1 Series includes models that fit into 36in and 48in cutouts with their wheels on, making repositioning easy. For jobs in closer quarters, the A-1 Series offers drill options for 24in and 30in openings.

### FEATURES

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4 Versatile Drilling Positions  
Hand Grip Controls

### OPTIONS

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83MM Length Drill Chucks  
Dust Collection

### SPECIFICATIONS

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	A-1-48	A-1-36	A-1-30	A-1-24
Drill Steel Shank Size	22MM x 108MM	22MM x 108MM	22MM x 83MM	22MM x 83MM
Drill Steel Length	61CM	30CM	30CM	30CM
Drill Bit Diameter	16MM - 64MM	16MM - 64MM	16MM - 40MM	16MM - 25MM
Maximum Hole Depth	46CM	25CM	25CM	25CM
Minimum Cutout Width	122CM	91CM	76CM	76CM
Distance from Top of Slab	8CM - 30CM	8CM - 30CM	8CM - 30CM	8CM - 30CM
Required SCFM	2.61M <sup>3</sup> /MIN	2.61M <sup>3</sup> /MIN	2.55M <sup>3</sup> /MIN	2.55M <sup>3</sup> /MIN
Required PSIG	8.3BAR	8.3BAR	6.2BAR	6.2BAR
Weight	91KG	84KG	77KG	77KG



## A-1C

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The Minnich A-1C features on-slab drilling solutions for almost any project. The A-1C single-drill series can drill in horizontal, vertical, 35° stitch positions, and is also capable of skew drilling for maximum versatility. All models feature steering to enhance operator accuracy and control and an automatic shut-off feature that extends drill life. They can also be equipped with a dust collection system to minimize dust and debris on the job site.

### FEATURES

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Horizontal, Vertical, and 35° Stitch  
Urethane Filled Tires  
Adjustable Drill Height, Depth, and Centers  
Skew Drilling Capable

### OPTIONS

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83MM Length Drill Chucks  
Dust Collection  
On-Grade Kit  
Non-Steering Model

### SPECIFICATIONS

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	A-1C-48	A-1C-36	A-1C-30	A-1C-24
Drill Steel Shank Size	22MM X 108MM	22MM X 108MM	22MM X 83MM	22MM X 83MM
Drill Steel Length	61CM	30CM	30CM	30CM
Drill Bit Diameter	16MM - 64MM	16MM - 64MM	16MM - 40MM	16MM - 25MM
Maximum Hole Depth	46CM	25CM	25CM	25CM
Minimum Cutout Width	122CM	91CM	76CM	76CM
Distance from Top of Slab	8CM - 30CM	8CM - 30CM	8CM - 30CM	8CM - 30CM
Required SCFM	2.61M <sup>3</sup> /MIN	2.61M <sup>3</sup> /MIN	2.55M <sup>3</sup> /MIN	1.02M <sup>3</sup> /MIN
Required PSIG	8.3BAR	8.3BAR	6.2BAR	6.2BAR
Weight	318KG	302KG	286KG	274KG



## A-2C

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The Minnich A-2C features on-slab drilling solutions for almost any project. The A-2C double-drill series can drill in horizontal, vertical, and 35° stitch positions. All models feature steering to enhance operator accuracy and control. Additionally, they are equipped with an automatic shut-off feature that extends drill life. All units can also be equipped with a dust collection system to minimize dust and debris on the job site. The A-2C drill cuts operating time in half due to the incorporation of the second drill.

### FEATURES

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Horizontal, Vertical, and 35° Stitch  
Urethane Filled Tires  
Adjustable Drill Height, Depth, and Centers

### OPTIONS

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883MM Length Drill Chucks  
Dust Collection  
Skew Drill Kit  
On-Grade Kit

### SPECIFICATIONS

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#### A-2C

Drill Steel Shank Size	22MM X 108MM
Drill Steel Length	61CM
Drill Bit Diameter	16MM - 64MM
Maximum Hole Depth	46CM
Minimum Cutout Width	122CM
Distance from Top of Slab	4CM - 30CM
Required SCFM	5.22M <sup>3</sup> /MIN
Required PSIG	8.3BAR
Weight	408KG



## A-SC SELF PROPELLED

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Minnich multiple-drill self-propelled units with skid-steering offer highly productive on-slab drilling solutions. Minnich self-propelled drill units have the weight and strength to tow their own air compressor. Capable of horizontal and vertical drilling, the drills have crab-steering that boosts efficiency by letting operators drive down the slab without raising and lowering the drill bed.

### FEATURES

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Horizontal and Vertical Drilling  
Power Steering  
Crab Steering  
Capable of Towing Air Compressor

### OPTIONS

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Skewed Beds  
On-grade Kit  
Dust Collection

### SPECIFICATIONS

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	A-3SC	A-4SC	A-5SC
Drill Steel Shank Size	22MM X 108MM	22MM X 108MM	22MM X 108MM
Drill Steel Length	61CM	61CM	61CM
Drill Bit Diameter	16MM - 64MM	16MM - 64MM	16MM - 64MM
Maximum Hole Depth	46CM	46CM	46CM
Minimum Cutout Width	122CM	122CM	122CM
Distance from Top of Slab	9CM - 30CM	9CM - 30CM	9CM - 30CM
Required SCFM	7.83M <sup>3</sup> /MIN	10.44M <sup>3</sup> /MIN	13.05M <sup>3</sup> /MIN
Required PSIG	8.3BAR	8.3BAR	8.3BAR
Weight	1,388KG	1,479KG	1,569KG



## A-SCW SELF PROPELLED WIRELESS

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Minnich on-slab self-propelled wireless units increase drilling efficiency, accuracy and safety. IQAN 24 Volt Wireless remote-control system enables operators to drill up to five holes at once, all while standing in the grade, away from the equipment. From this clear vantage point operators can drill faster and more accurately. Power crab-steering further boosts efficiency by letting operators drive down the slab without raising and lowering the drill bed. The remote's joystick controls speed, steering, direction of travel, and comes with two batteries and charging station.

### FEATURES

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Horizontal and Vertical Drilling  
Low Oil Sensor / Indicator  
Crab Steering  
Capable of Towing Air Compressor

### OPTIONS

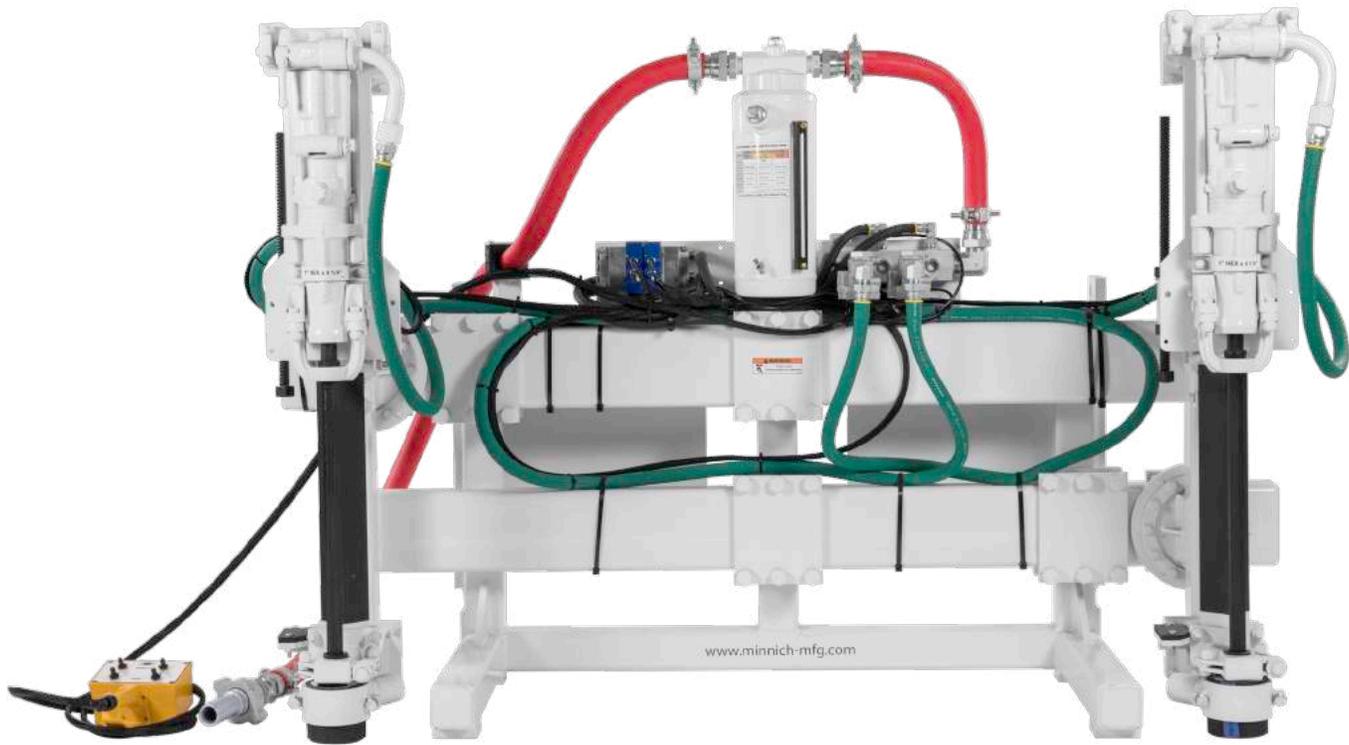
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Skewed Beds  
On-grade Kit  
Dust Collection

### SPECIFICATIONS

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	A-3SCW	A-4SCW	A-5SCW
Drill Steel Shank Size	22MM X 108MM	22MM X 108MM	22MM X 108MM
Drill Steel Length	61CM	61CM	61CM
Drill Bit Diameter	16MM - 64MM	16MM - 64MM	16MM - 64MM
Maximum Hole Depth	46CM	46CM	46CM
Minimum Cutout Width	122CM	122CM	122CM
Distance from Top of Slab	9CM - 30CM	9CM - 30CM	9CM - 30CM
Required SCFM	7.83M <sup>3</sup> /MIN	10.44M <sup>3</sup> /MIN	13.05M <sup>3</sup> /MIN
Required PSIG	8.3BAR	8.3BAR	8.3BAR
Weight	1,388KG	1,479KG	1,569KG



## A-2V

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Make quicker work of vertical drilling jobs with the Minnich A-2V equipment-mounted drill. Powered by an air compressor, the A-2V unit can be mounted to a skid-steer loader, or farm tractor to form a self-contained and highly mobile solution for drilling vertical holes. Ideal for jobs on which multiple damaged slabs need to be pulled, the A-2V offers operators a more efficient and safer alternative to drilling holes manually. The A-2V's two drills can swivel to drill holes at an angle.

### FEATURES

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Adjustable Height, Depth, and Centers  
Adjustable Drill Angles  
Tethered Control Box

### OPTIONS

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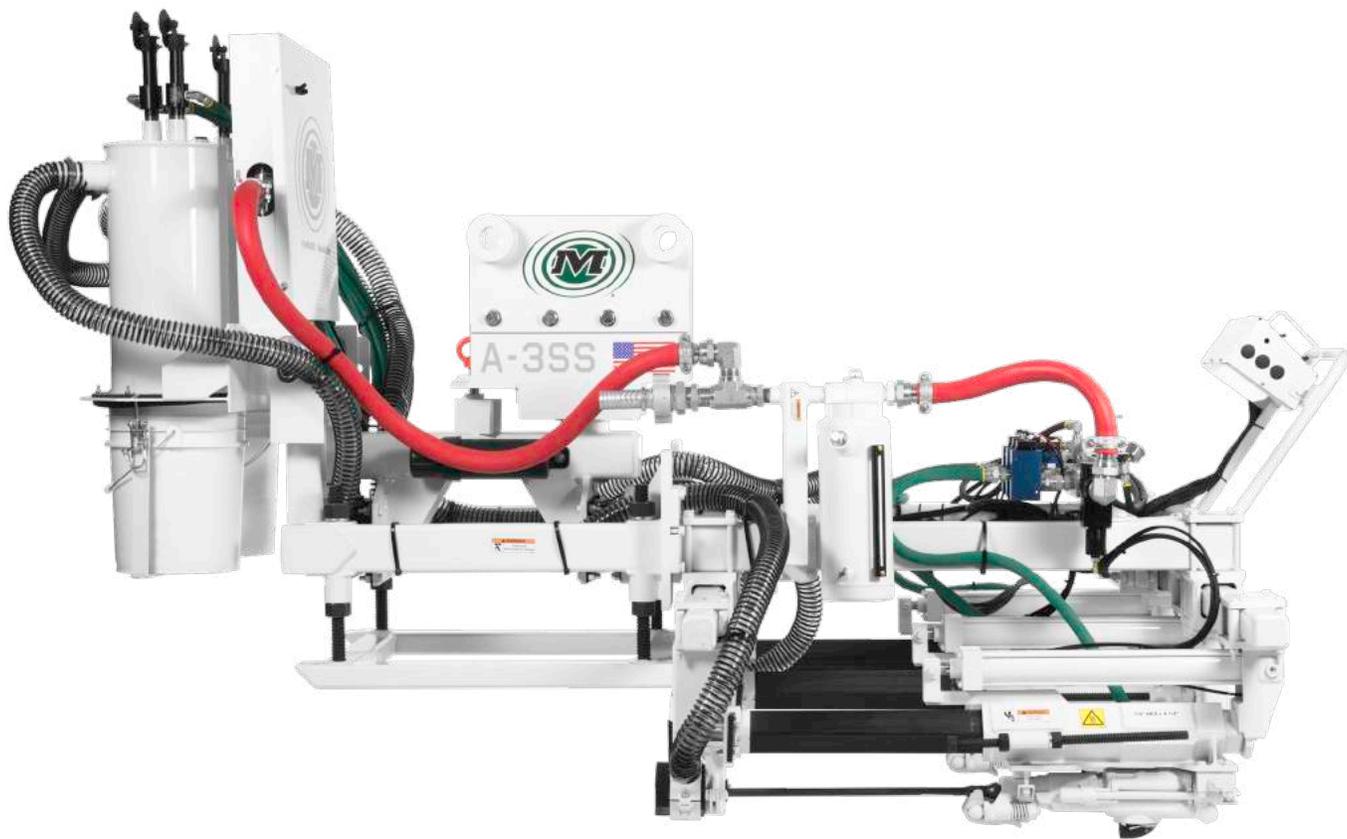
Dust Collection  
22<sub>MM</sub> (0.875") x 108<sub>MM</sub> (4.25") Chuck  
22<sub>MM</sub> (0.875") x 83<sub>MM</sub> (3.25") Chuck

### SPECIFICATIONS

#### A-2V

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Drill Steel Shank Size	25 <sub>MM</sub> x 108 <sub>MM</sub>
Drill Steel Length	61 <sub>CM</sub>
Drill Bit Diameter	16 <sub>MM</sub> - 64 <sub>MM</sub>
Maximum Hole Depth	41 <sub>CM</sub>
Hole Spacing	1.5 <sub>M</sub> - 3 <sub>M</sub>
Required SCFM	13.05 <sub>M<sup>3</sup>/MIN</sub>
Required PSIG	8.3 <sub>BAR</sub>
Weight	726 <sub>KG</sub>



## A-3 MACHINE MOUNTED

Minnich machine-mounted drills maximize productivity and safety on patchwork jobs. Featuring up to six drills, these pneumatic units can be mounted to an excavator, backhoe or skid-steer loader to form a self-contained and highly mobile drilling solution for full-depth repair. Machine-mounted drills offer the maneuverability to get jobs done faster and provide a safer alternative for operators. They also eliminate fatigue by using the carrier to transport the drill. Side-shift functionality enables operators to drill a second set of holes without having to reposition the carrier. An optional dust-collection system reduces debris on the job.

### FEATURES

330° Drill Bed Rotation  
Adjustable for Asphalt Overlay

### OPTIONS

Backhoe or Skid Loader Mount  
Wireless Control and Power Rotation  
Side Shift  
Dust Collection Compatible

### SPECIFICATIONS

	A-3	A-4	A-5	A-6
Drill Steel Shank Size	22MM X 108MM	22MM X 108MM	22MM X 108MM	22MM X 108MM
Drill Steel Length	61CM	61CM	61CM	61CM
Drill Bit Diameter	16MM - 64MM	16MM - 64MM	16MM - 64MM	16MM - 64MM
Maximum Hole Depth	46CM	46CM	46CM	46CM
Minimum Cutout Width	122CM	122CM	122CM	122CM
Distance from Top of Slab	8CM - 30CM	8CM - 30CM	8CM - 30CM	8CM - 30CM
Required SCFM	7.83M <sup>3</sup> /MIN	10.44M <sup>3</sup> /MIN	13.05M <sup>3</sup> /MIN	15.67M <sup>3</sup> /MIN
Required PSIG	8.3BAR	8.3BAR	8.3BAR	8.3BAR
Weight	907KG	998KG	1,089KG	1,179KG



## THE HORNET

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When drilling gas-leak detection and extraction holes, save the operator's body and let the machine take the abuse. The Hornet utility drill offers an ergonomic solution. Featuring a patent-pending design, The Hornet absorbs drill vibrations, reducing operator fatigue and increasing productivity. The unit feeds the drill in and out of the hole, allowing the operator to stand in an upright position. Compact, lightweight and easy to move, The Hornet is ideal for drilling through a variety of materials including concrete, asphalt, brick and dirt.

### FEATURES

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Lightweight  
Compact  
Easy to Move  
High / Low Pick Point For Easy Lifting

### OPTIONS

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30 LB Hammer  
50 LB Hammer

### SPECIFICATIONS

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	22/24	27/30	36/40
Weight	39KG - 44KG	41KG - 47KG	43KG - 50KG
Height	135CM	165CM	208CM
SCFM Required	2.55M <sup>3</sup> /MIN	2.55M <sup>3</sup> /MIN	2.55M <sup>3</sup> /MIN
Drill Bit Diameter	22MM x 83MM	22MM x 83MM	22MM x 83MM
Drill Bit Length (SF)	56CM	69CM	91CM
Drill Bit Length (STD)	61CM	76CM	102CM
Drill Depth (SF)	46CM	58CM	81CM
Drill Depth (STD)	51CM	66CM	91CM



## DUST COLLECTION

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The Minnich canister-style dust collector utilizes a Venturi suction unit to remove dust in the air while drilling. Each unit can be retrofitted to any existing dowel drill unit, regardless of make or model. Each unit also comes with a drill rod guide, collection boots, a 5 gallon bucket, and up to 20 feet of vacuum hose per drill. Each canister accommodates up to two rock drills and offers a 60-square meter filter area.

## FEATURES

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Venturi Style Suction  
Manual or Automatic Purge Control  
Adapts to Competitor's Drill Units  
OSHA Compliant

## OPTIONS

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1, 2, or 3 Canister

## SPECIFICATIONS

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	SINGLE CANISTER	DOUBLE CANISTER	TRIPLE CANISTER
SCFM Required	1.42 <sup>M<sup>3</sup></sup> /MIN	2.84 <sup>M<sup>3</sup></sup> /MIN	4.26 <sup>M<sup>3</sup></sup> /MIN
PSIG Required (Collecting)	4.1 <sup>BAR</sup>	4.1 <sup>BAR</sup>	4.1 <sup>BAR</sup>
PSIG Required (Cleaning)	7.6 <sup>BAR</sup>	7.6 <sup>BAR</sup>	7.6 <sup>BAR</sup>
Filter Type	Urethane Cartridge	Urethane Cartridge	Urethane Cartridge
Filter Area	60 <sup>M<sup>2</sup></sup>	60 <sup>M<sup>2</sup></sup>	60 <sup>M<sup>2</sup></sup>
Hopper Type	5 Gallon Bucket	5 Gallon Bucket	5 Gallon Bucket



## ROCK DRILL CONSUMABLES

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Minnich stocks quality consumables for your dowel drill units. Recommended rock drill oil is available in 5-gallon buckets and quart sizes. For your convenience, Minnich also stocks many sizes of drill steel. The most commonly used drill steel size for Minnich Dowel Drills is .875" Hex x 4.25" Shank.

### FEATURES

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Non-Foaming Rock Drill Oil  
Replaceable Drill Steel Bits

### OPTIONS

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83mm Shank Drill Steel  
25mm Hex Drill Steel

### SPECIFICATIONS

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	H-THREAD	TAPER BIT	WHIRLY BIT
Drill Steel Diameters	35MM - 60MM	25MM - 50MM	16MM - 30MM



## RELATED PRODUCTS

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Since 1968, Minnich Manufacturing has operated with the mission of producing high-quality products that are safe and cost-effective for concrete and utility contractors. Minnich Manufacturing is an industry leader in the production of dowel pin drills, concrete-paving vibrators, vibrator monitoring systems, electric and gas-powered vibrators for general concrete construction, and custom-made special application drills. Based in Mansfield, Ohio, Minnich Manufacturing offers optimum service and technical support through a global network of distributors.



### HV-2 SERIES VIBRATOR

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Minnich paving vibrators are designed to withstand the rigors of the industry. HV-2 Series hydraulic paving vibrators are ideal for most slip-form applications.



### BACKPACK VIBRATOR

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The Minnich Backpack Vibrator offers increased operator comfort and reliable performance without the use of an electric cord.



### THE STINGER

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The Stinger is a lightweight, durable, 15 amp universal motor that adapts to the vibrators of many manufacturers.



## ABOUT

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Our Story...1968 – Minnich Manufacturing was born. Roger Minnich made the decision to step out on his own after spending time as VP of Sales at Maginniss High Cycle Vibrators. He and two employees began building hydraulic vibrators in a gas station with a detached, three-bay garage. At the shop in Mansfield, Ohio, Roger began his journey to convert concrete paving machines from high-cycle vibrators to hydraulic vibrators. In those years, he built relationships with and became known by many major paving contractors in the U.S.

Minnich's three car garage expanded between the 1970's and 1993 when the fifth and final addition was completed. At the request of a contractor, Minnich constructed its first dowel-pin drill in 1985. Jim Minnich, Roger's son, entered the business in 1993, and by 1995 was the sole owner of Minnich Manufacturing.

Since Jim has taken ownership, Minnich has introduced the first vibrator monitoring system, the Auto Vibe, released its first remote controlled dowel pin drill, and the Hornet, a small, lightweight drilling machine used for drilling gas leak detection and extraction holes. Finally in 2011 Minnich moved to its present manufacturing facility which added 14,000 square feet and room for future expansion.

Minnich Manufacturing is grateful for the people who have been a part of this history and been a consistent factor throughout a multitude of changes. We take pride in the private, family-run business and continue to grow on what Minnich was founded on; trust, producing high-quality, long-lasting products, and providing around-the clock service to our customers.

## CONNECT WITH US

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Minnich Manufacturing Co. Inc.

## NOTES

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## NOTES

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