



AMERICAN
GROUND SCREW
MFG & SUPPLY

Simple.
Solid.
Sustainable.

**WE'RE PUTTING THE
WORLD ON A SIMPLER
FOUNDATION.**

OUR GROUND SCREWS ARE A PROVEN
ALTERNATIVE TO CONCRETE AND DEEP
FOUNDATIONS

WWW.AMERICANGROUNDSCREW.COM



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Simple. Solid. Sustainable.

American Ground Screw puts a better foundation within everyone's reach. Now in use around the world, ground screws create strong, safe, long-lasting foundations for virtually any construction application in any landscape.

Our solution is simple by design: compliant with building codes, easy and affordable to install, and ready to build on in a matter of hours instead of days or weeks.

A greener alternative to concrete and deep foundations, ground screws go where others cannot, ideal for hard-to-build areas, brownfields, and sites that shouldn't be disturbed. With American Ground Screw on your side, all your project demands are met. We don't just offer ground anchors and ground screw anchors; we also offer rentable machinery so we can serve our customers with the most reliable solutions for their needs.

Looking to make your project permanent? We can help. Looking for a one-time project solution? We can help you with that too. Our state-of-the-art ground anchors and superior customer service make us the best in the industry.

THE GROUND SCREW ADVANTAGE

Ground screws are a proven alternative to concrete and deep foundations

Ground screws save you time and effort. With state-of-the-art products and easy-to-use tools, you can install structural foundations in just a few minutes. Simply mark the location, drive the screw, and start build-

ing — with no digging, re-grading, removing soil, or waiting to pour concrete. Build strong with a fraction of the budget required for poured concrete footings. Anchoring and building projects can now be accomplished with few-

er hands, fewer materials and less specialized labor. And because there are no demolition or recycling costs for removal, you save money on the back end as well.

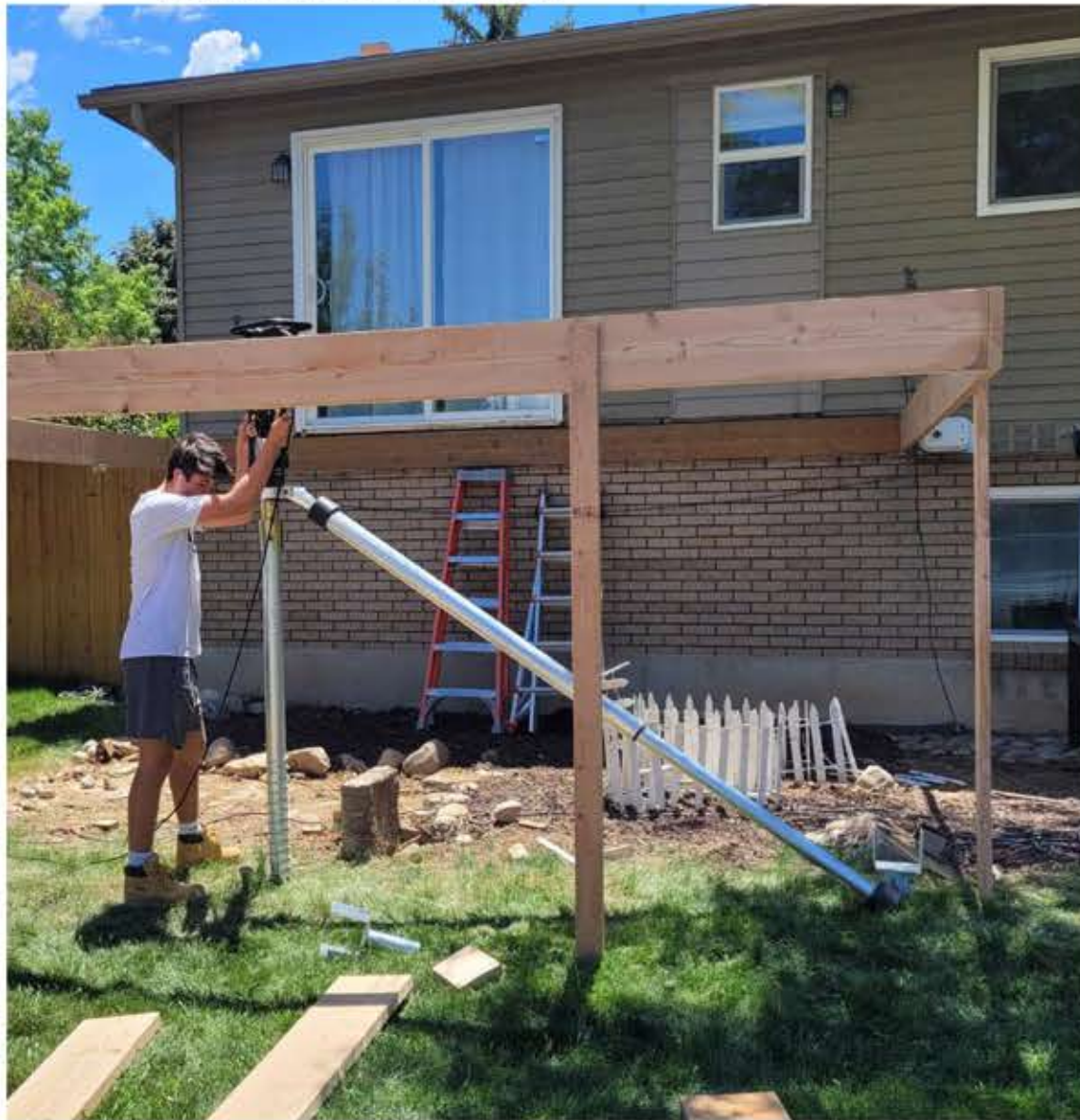


Ground screw solutions for construction

Our professional-grade ground screw systems create reliable foundations for a wide variety of light industrial projects, from anchoring wooden structures to fencing, footbridges and storage containers. Quick to assemble without the need for concrete footings or excavation, our solution dramatically reduces your labor and materials costs while minimizing environmental impact.

You can rely on our solutions at American Ground Screw to create ease in your workflow and timely results, without unnecessary labor and expenses. Our ground screws for foundation settings provide more stability and reliability in your structures, and we're proud our tools work on a range of applications. Building a new house? Look no further! Our screw piles and anchor piles are durable, tested, and backed by professional customization.

Building a new deck or pergola for your property? Easy! American Ground Screw's ground screws for decks can bring your project to fruition with time and money back in your pocket. Let American Ground Screw be your trusted partner for all your ground screws for foundation settings and supplies!



ICC CERTIFIED GROUND SCREWS

American Ground Screw offers a wide range of ICC certified, Model 3 open top screws. The ICC certified screws are code compliant for uses listed in section 2.0 of our ICC-ES Evaluation Report (ESR-4226). If your project requires permit or code approval, rely on our ICC line of screws to help you get it done!



ICC CERTIFIED MODELS	LENGTHS	DIAMETERS	WALL THICKNESS	THREAD LENGTHS
IM3316	1,600mm (5', 3")	76mm (3 inches)	3.75mm (0.15")	610mm (24")
IM3320	2,000mm (6', 7")	76mm (3 inches)	3.75mm (0.15")	610mm (24")
IM34516	1,600mm (5', 3")	114mm (4.5 inches)	3.75mm (0.15")	610mm (24")
IM34520	2,000mm (6', 7")	114mm (4.5 inches)	3.75mm (0.15")	610mm (24")



FAQs

For what types of applications do you use ground screws?

Ground screws can be used for virtually every application using columns, posts and beams. Some examples include decks, fencing, solar arrays, light standards, bollards, gazebos, garden sheds, houses, and many more.

How do I determine what size and type of ground screw I need?

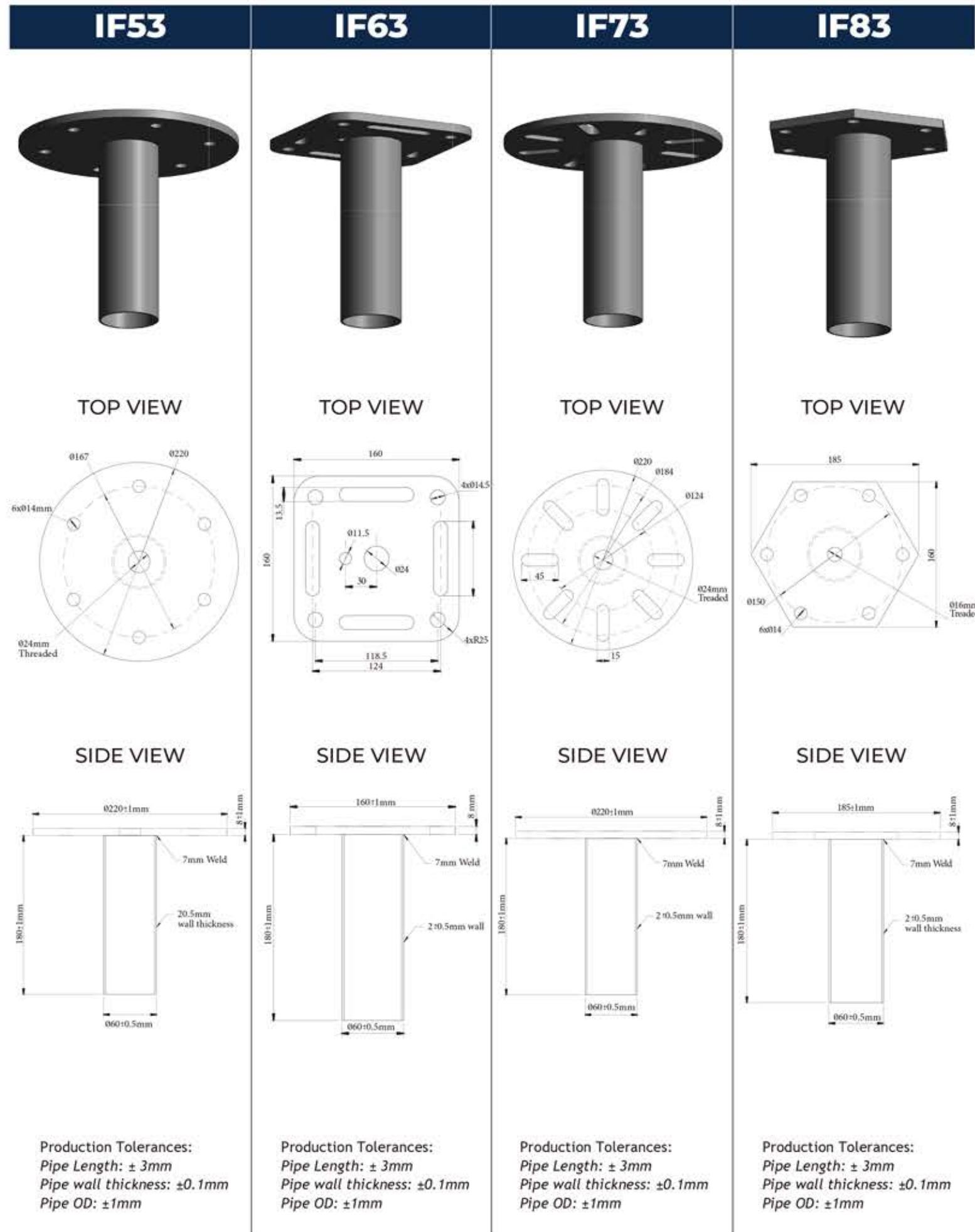
The size of ground screw is determined by the load requirements of your project. The type of ground screw is determined by the connection to your structure. A Model 3, open top screw, is used when a pipe is inserted into the ground screw and the structure is built off the pipe. A solar ground mount system is one example. A flange design is used to when you are connecting to columns, posts, beams, etc. We have several flat and U-flange models available as well as custom manufacturing capabilities.

How does frost affect the use of ground screws?

It is recommended that at least two thirds (2/3) of the ground screw threads are below the code recognized frost level in your area



CONSTRUCTION
 • Q235B Steel
 • Continuous Welded Helix
 • Hot-Dipped Galvanized According to ASTM123 75 micron (avg. min. 0.0762 mm)



IF93



TOP VIEW

IF443



SIDE VIEW

IF545

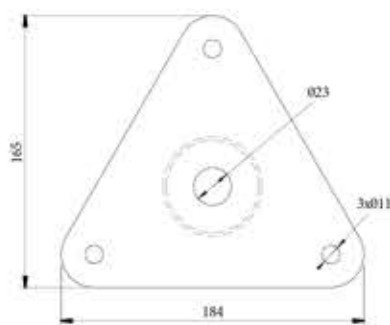


TOP VIEW

IF645



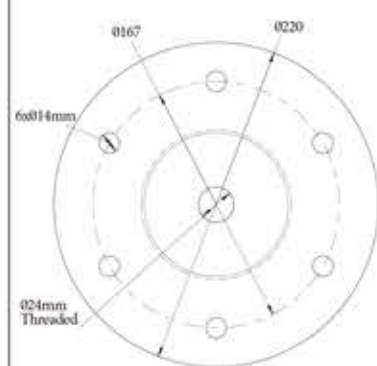
TOP VIEW



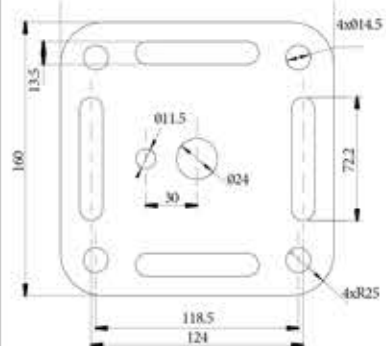
SIDE VIEW



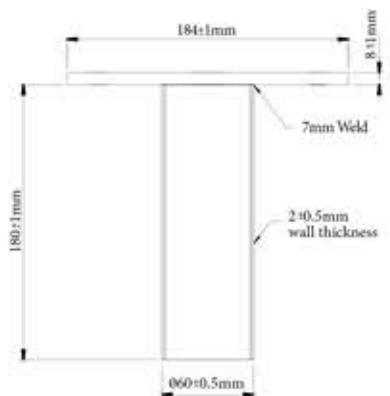
SIDE VIEW



SIDE VIEW



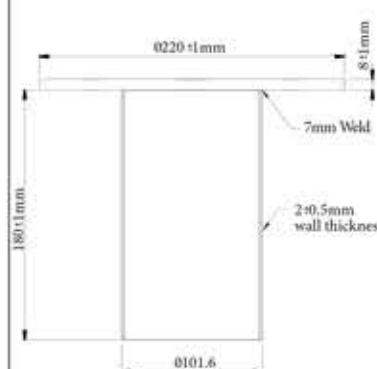
SIDE VIEW



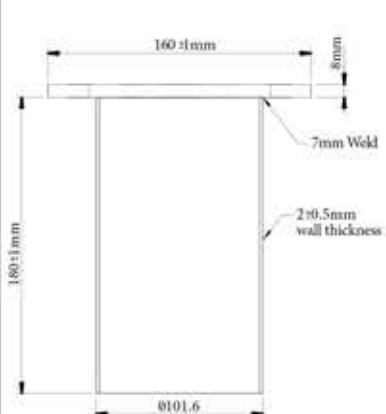
Production Tolerances:
Pipe Length: ± 3mm
Pipe wall thickness: ±0.1mm
Pipe OD: ±1mm



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Pipe Length: ± 3mm
Pipe wall thickness: ±0.1mm
Pipe OD: ±1mm



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Pipe Length: ± 3mm
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Pipe OD: ±1mm



Production Tolerances:
Pipe Length: ± 3mm
Pipe wall thickness: ±0.1mm
Pipe OD: ±1mm

IF663



SIDE VIEW

IF745



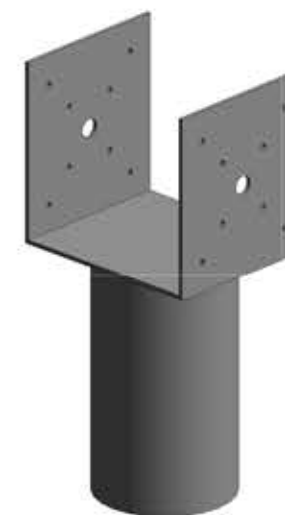
TOP VIEW

IF845

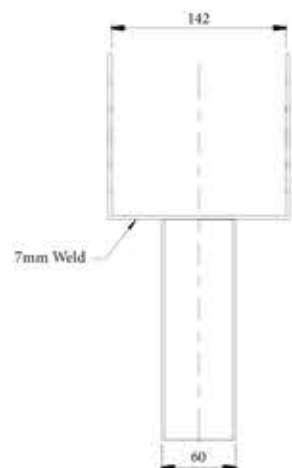


TOP VIEW

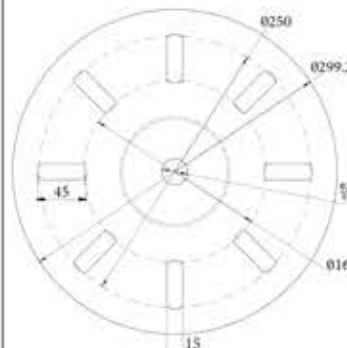
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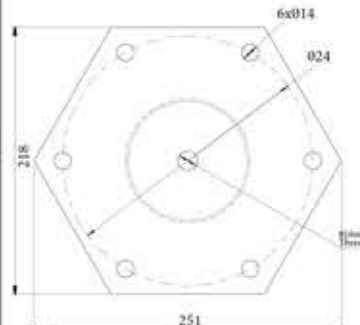
SIDE VIEW



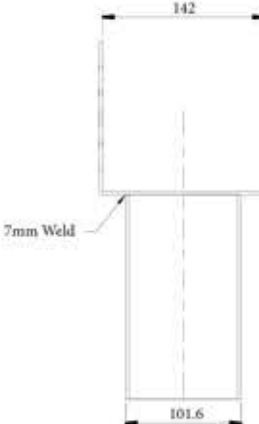
SIDE VIEW



SIDE VIEW



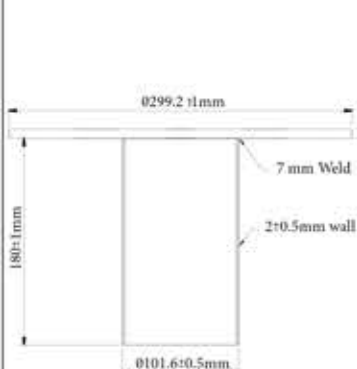
SIDE VIEW



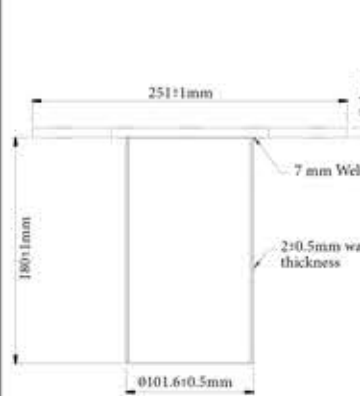
SIDE VIEW



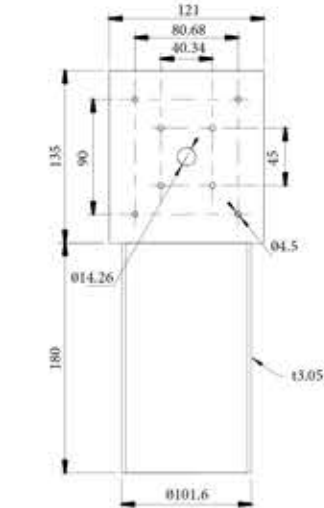
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Pipe wall thickness: ±0.1mm
Pipe OD: ±1mm



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Production Tolerances:
Pipe Length: ± 3mm
Pipe wall thickness: ±0.1mm
Pipe OD: ±1mm



Production Tolerances:
Pipe Length: ± 3mm
Pipe wall thickness: ±0.1mm
Pipe OD: ±1mm

MODEL 3 GROUND SCREWS

American Ground Screw Model 3, open top screws come in a variety of sizes to meet your project specifications. The Model 3 screws are a cost-effective way to create a foundation and get you on your way with your project.



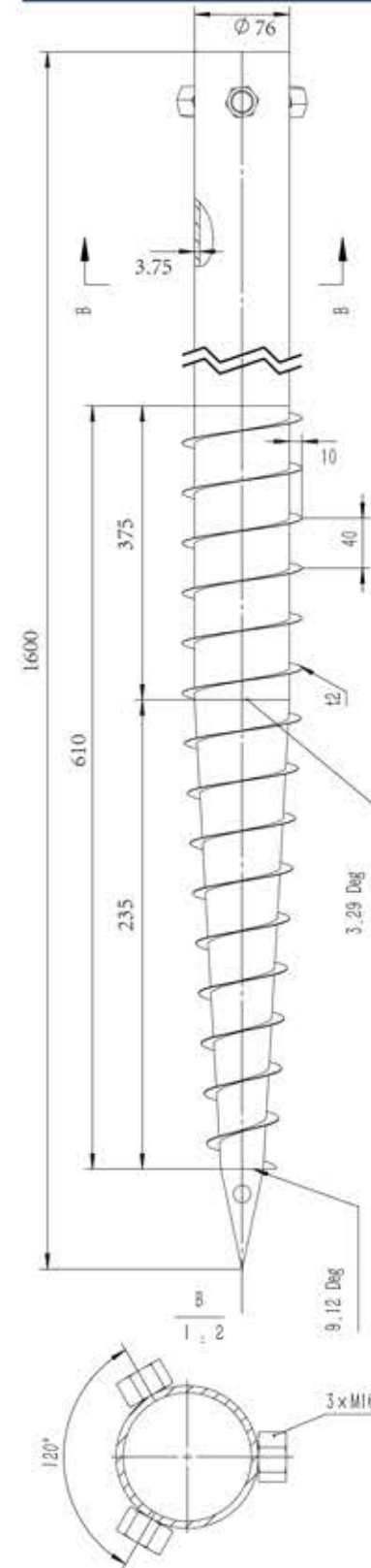
MODEL 3	LENGTHS	DIAMETERS	WALL THICKNESS	THREAD LENGTHS
STANDARD SCREW RANGES (larger sizes manufactured to order)	864mm (34 inches) ↓ 2,500mm (98 inches)	76mm (3 inches) ↓ 76mm (3 inches)	3.75mm (0.15") ↓ 3.75mm (0.15")	610mm (24") ↓ 610mm (24")
QC TOLERANCES	+/-3.0mm	+/-1.0mm	+/-0.5mm	+/-3.0mm

DIAMETERS	LENGTHS
50mm (2")	1000 (39")
60mm (2 3/8")	1600 (63")
68mm (2 5/8")	864 (34"), 2000 (79")
76mm (3")	1300 (51"), 1600 (63"), 2000 (79"), 2500 (98")
89mm (3 1/2")	1600 (63"), 1800 (71")
102mm (4")	1550 (63"), 2050 (81")
114mm (4 1/2")	1600 (63"), 1800 (71"), 2000 (79")

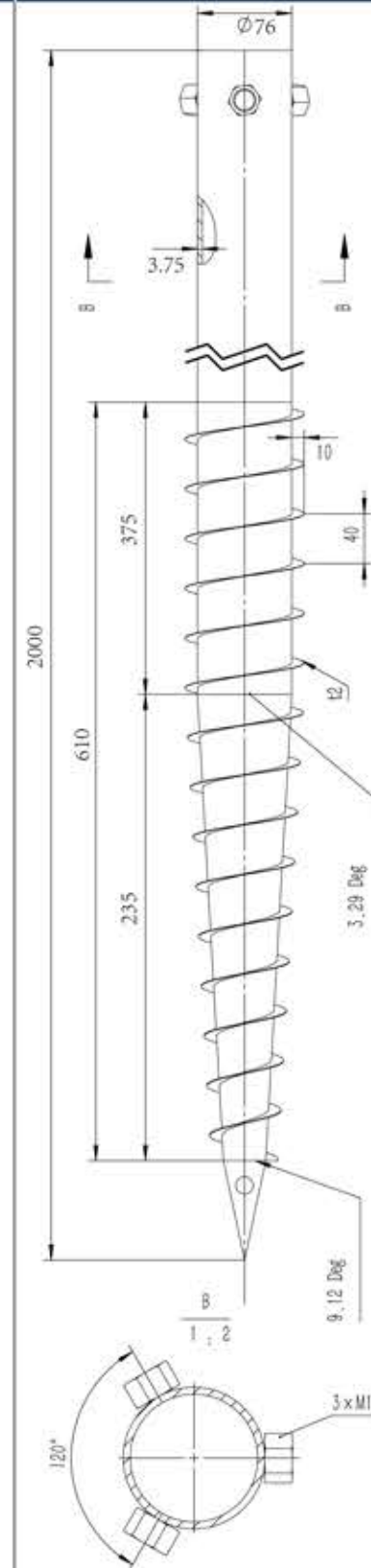


IM3316

IM3320

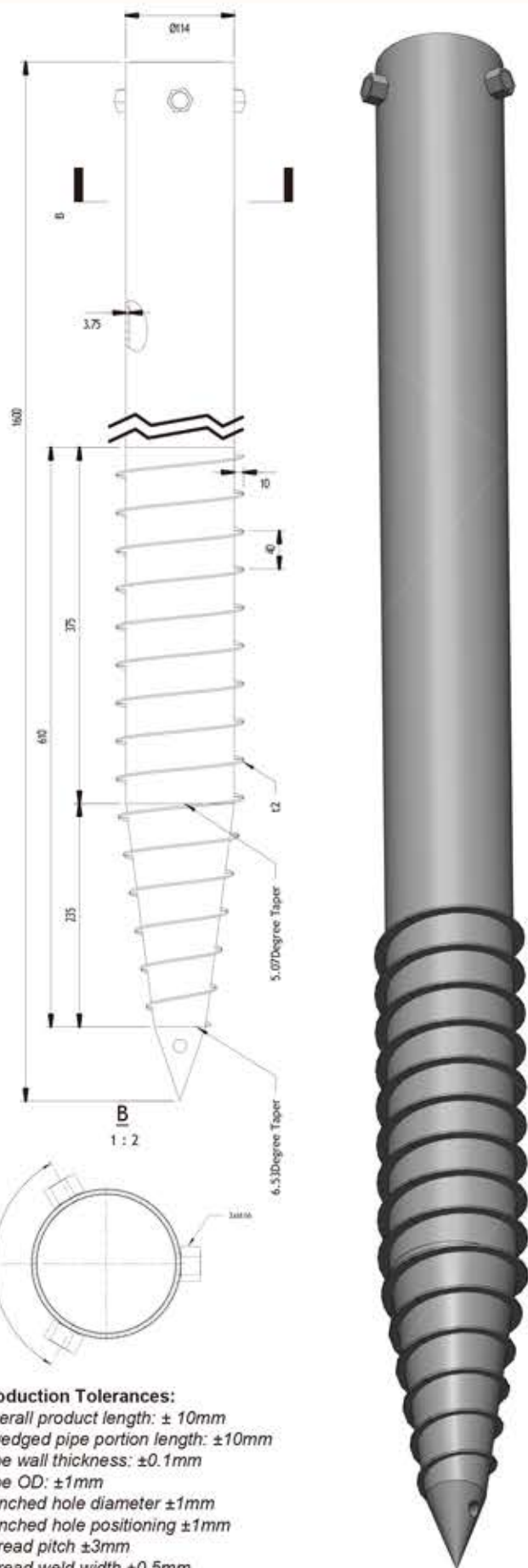


Production Tolerances:
 Overall product length: ± 10mm
 Swaged pipe portion length: ±10mm
 Pipe wall thickness: ±0.1mm
 Pipe OD: ±1mm
 Punched hole diameter ±1mm
 Punched hole positioning ±1mm
 Thread pitch ±3mm
 Thread weld width ±0.5mm
 Thread length variation <10mm



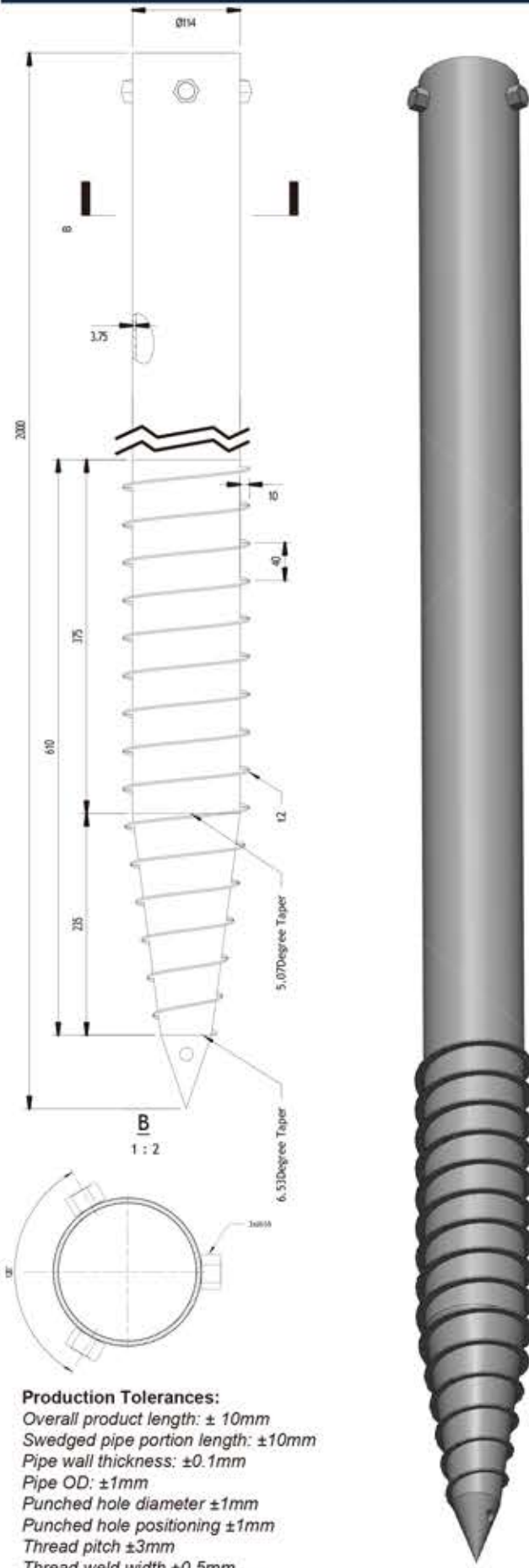
Production Tolerances:
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 Swaged pipe portion length: ±10mm
 Pipe wall thickness: ±0.1mm
 Pipe OD: ±1mm
 Punched hole diameter ±1mm
 Punched hole positioning ±1mm
 Thread pitch ±3mm
 Thread weld width ±0.5mm
 Thread length variation <10mm

IM34516



Production Tolerances:
 Overall product length: ± 10mm
 Swedged pipe portion length: ±10mm
 Pipe wall thickness: ±0.1mm
 Pipe OD: ±1mm
 Punched hole diameter ±1mm
 Punched hole positioning ±1mm
 Thread pitch ±3mm
 Thread weld width ±0.5mm
 Thread length variation <10mm

IM3320









Production Tolerances:
 Overall product length: ± 10mm
 Swedged pipe portion length: ±10mm
 Pipe wall thickness: ±0.1mm
 Pipe OD: ±1mm
 Punched hole diameter ±1mm
 Punched hole positioning ±1mm
 Thread pitch ±3mm
 Thread weld width ±0.5mm
 Thread length variation <10mm

FLANGE GROUND SCREWS

American Ground Screw offers a variety of flange options to connect your project's structure to the ground screws. American Ground Screw flanges are designed to be inserted into the ground screw and secured with three bolts. Whether you are using posts, beams, piping, or other structural surfaces, American Ground Screw flanges can help you connect and get it done!



FLANGE INSERTS	DESCRIPTION	CORRESPONDING GROUND SCREW
	3" Beam Flange	76 mm (3") OD Ground Screw
	4x4 Flange	76 mm (3") OD Ground Screw
	6x6 Flange	76 mm (3") OD Ground Screw 114mm (4.5" OD Ground Screw
	Model 5 Six Hole Circle Flange	76 mm (3") OD Ground Screw 114mm (4.5" OD Ground Screw
	Model 6 Six Square Model Flange	76 mm (3") OD Ground Screw 114mm (4.5" OD Ground Screw
	Model 7 Flex Circle Flange	76 mm (3") OD Ground Screw 114mm (4.5" OD Ground Screw





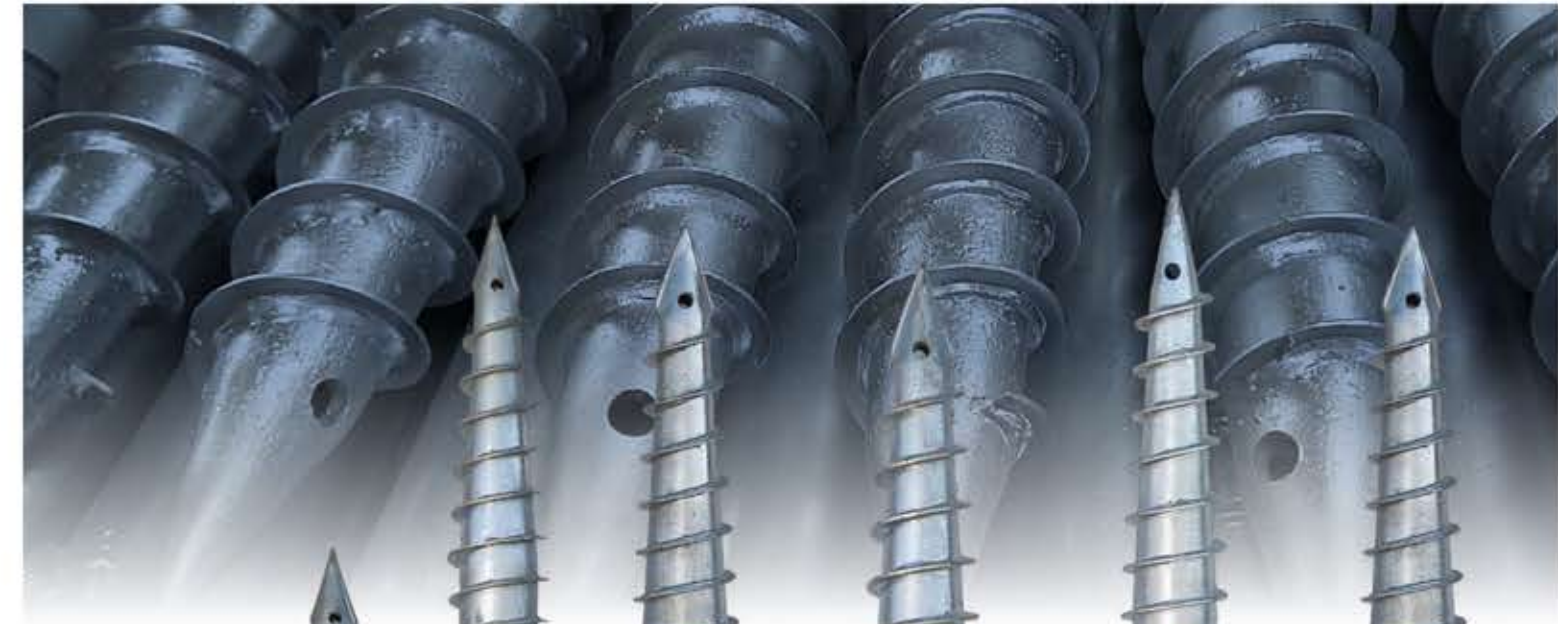
WELDED FLANGE GROUND SCREWS

American Ground Screw Welded Flange Screws are designed to connect to various above ground structures such as wooden posts, beams, metal plates, etc. The flanged screws come in a variety of flange shapes and configurations, so you can find a screw that best meets with the needs and design of your construction project.



WELDED FLANGE	LENGTHS	DIAMETERS	WALL THICKNESS	THREAD LENGTHS
STANDARD SCREW RANGES (larger sizes manufactured to order)	1600mm (63 inches) ↓ 2,000mm (78.75 inches)	76mm (3 inches) ↓ 114mm (4.5 inches)	3mm ↓ 3.75mm	880mm
QC TOLERANCES	+3.0mm	+1.0mm	+0.5mm	+3.0mm

MODEL 5	DIAMETERS	LENGTHS
	76mm (3")	1600 (63"), 1800 (71"), 2000 (79")
MODEL 8	DIAMETERS	LENGTHS
	76mm (3")	2000 (79")



Model # IM34516

Model # IM3316

Model # IM3320

Model # 5

Model # 6

Model # 7

Model # 8

DRIVERS

Ground Screws can be installed quickly in a wide variety of soil conditions using a variety of low speed, high torque drivers. Ground screws are ready for loading immediately after installation which makes them ideal for one day installations of solar arrays, decks, fences, and foundations of all types.

MM10K MACHINE MOUNTED HYDROLIC DRIVERS

- Mount frames for any machine
- 8,000 ft. lbs torque



E-DRIVER HAND HELD ELECTRIC DRIVERS

- Included torque arm resists torque
- 3,500 ft. lbs. torque



ADAPTORS

E-Driver



50 mm 68 mm 76 mm 102 mm 114 mm

MM10K

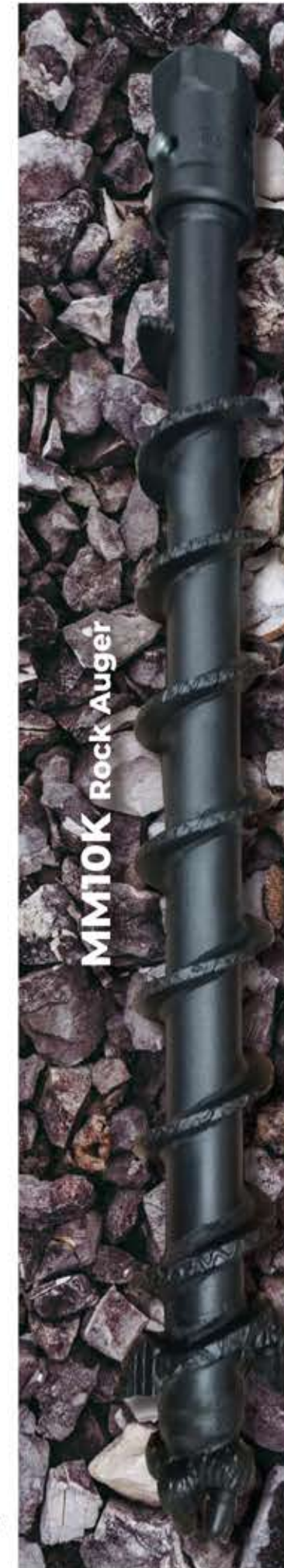


50 mm 68 mm 76 mm 89 mm 102 mm Model 5

Digga



50 mm 68 mm 76 mm M2F adaptor 2.5" Hex Hub to 3" Pile



MM10K Rock Auger



Ground screw solutions for Signage, Lighting, Towers

Ground screws are quick and easy to install for small sign applications and a much more economical option for large commercial-scale projects such as street and highway lights, signs and large communication towers. Faster installation, immediate construction and no concrete caissons can

save thousands of dollars on a project. You can trust American Ground Screw when you're ready to take on any size project with ease. Our ground screws for signage and lighting not only simplify the existing process but put much needed time and money back into your pocket so you can take on another

project. Our custom-designed concrete alternatives and pile foundations make it easy to complete your project within the intended timeline so life around you can return to normal. We also feature ground screws for communication towers, and because these tall structures need long-term sta-

bility, you can rest assured that American Ground Screw is your source. We are the only North American ground screw supplier and manufacturer backed by ICC certification. Look no further when you need reliable ground screws for signage and lighting.



WE'RE PUTTING THE WORLD ON A SIMPLER FOUNDATION

OUR GROUND SCREWS ARE A PROVEN ALTERNATIVE TO CONCRETE

Ground screws save you time and effort. With state-of-the-art products and easy-to-use tools, you can install structural foundations in just a few minutes. Simply mark the location, drive the screw, and start building — with no digging, re-grading, re-

moving soil, or waiting to pour concrete.

Build strong with a fraction of the budget required for poured concrete footings. Anchoring and building projects can now be accomplished with fewer hands, fewer materials and less special-

ized labor. And because there are no demolition or recycling costs for removal, you save money on the back end as well.

When you need a foundation outside the standard selection, talk to us. With our in-house

design and manufacturing capabilities, we can deliver custom solutions at a very reasonable cost. Whether you need specialized attachments or screws for complicated surface types, we provide proactive guidance to make your project a success.



GROUND SCREW ADVANTAGES

- ✔ FIRST BUILDING CODE CERTIFIED (ICC) SCREW FOUNDATION SYSTEM IN THE US
- ✔ NO EXCAVATION, CONCRETE OR FILL REMOVAL
- ✔ WORKS IN ANY TERRAIN AND REQUIRES NARROWER PRE-DRILL IN ROCK OR ROCKY SOILS
- ✔ IMMEDIATELY LOADABLE
- ✔ INSTALLED WITH LIGHTER EQUIPMENT THAN HELICAL OR DRIVEN PILES
- ✔ LESS SITE PREP AND NO EXCAVATION
- ✔ YEAR-ROUND INSTALLATION AND WEATHER INDEPENDENT
- ✔ FIRST GROUND SCREW FOUNDATION PRODUCT WITH ENVIRONMENTAL PRODUCT DESCRIPTION (ASTM)
- ✔ END OF LIFE RECYCLABLE

CONSTRUCTION APPLICATIONS

HOUSE FOUNDATIONS & DECKS



ADU'S / TEMPORARY STRUCTURES



RAIL AND ROAD WAY ACCESSORIES

Efficiencies of Ground Screws

THERE'S REALLY NO COMPARISON



Easy

A stable foundation ready in a fraction of the time



Cost Effective

Save on materials and labor with no digging or concrete needed



Customized

We can design and manufacture systems according to your needs



Sustainable

Systems designed to minimize waste and environmental impact

CLEAN ENTRY

No disruptions or cuttings. No digging, pouring or prep time.



Massive outward pressure from the screw cone creates an exceptionally sturdy foundation.

COMPACTION ZONE

CONCRETE

- WEATHER DEPENDENT
- SITE CLEARING
- SITE SURVEY
- EXCAVATION
- FORMWORK
- REINFORCEMENT
- CONCRETE INSTALL
- CURING
- FORM REMOVAL
- SITE CLEANUP
- BUILDING ASSEMBLY

GROUND SCREW

- WEATHER INDEPENDENT
- ~~SITE CLEARING~~
- ~~SITE SURVEY~~
- ~~EXCAVATION~~
- ~~FORMWORK~~
- ~~REINFORCEMENT~~
- SCREW INSTALL
- ~~CURING~~
- ~~FORM REMOVAL~~
- ~~SITE CLEANUP~~
- BUILDING ASSEMBLY



Ground screw systems for the consumer market

Our easy-to-use and affordable ground screw systems are ideal for do-it-yourself home improvement, including light construction and recreational projects like umbrellas and sports netting. There are no concrete footings needed, so it's easy to remove or relocate foundations later with minimal effort or wear and tear.

Wood Shed

Mailbox Post

Wooden Fence Post Replacement

Replacement Deck Footing

Gazebo/Pavilion

Outdoor Balance Beams

Art Displays



Before Installing

- Read all instructions carefully
- Know all local codes and regulations

1. Place screw in desired location. Put 20" rebar through hole near the top of the screw and begin turning with a downward force. Ensure the ground screw is straight using a level every few turns. Turn until you are no longer able.
2. Place pole into ground screw making sure the correct cap size is used. (Models 1E, & 2E)
3. Secure the pole or post by tightening the provided bolt(s) or lag screws.

<h3>Model 1E</h3>	<h3>Model 2E</h3>	<h3>Model 3E</h3>	<h3>Model UE</h3>
<p>includes: 1 Multi sized cap 1 Rebar 1 Tightening bolt</p>	<p>includes: 1 Multi sized cap 1 Rebar 1 Tightening bolt</p>	<p>includes: 1 Rebar 3 Tightening bolts</p>	<p>includes: 1 Rebar 5 Lag Screws</p>

SHOOTING SPORTS

Ground screw solutions for shooting sports

The innovative, Patent Pending, "screw in" design of our Target Stands take away the never ending wind-blown sway of your target. American Ground Screw's Target Stand is easy to install and remove, and due to the Hot-Dipped Galvanization this target stand can be temporary or permanent. The Small version accepts 1x2's and can be used for

USPSA, IDPA and IPSC targets. The Large stand accepts 2x4's and is wide enough accept the largest "bag" archery targets, and is strong enough to hold large steel AR500 "gong" targets. Go make it a "Range Day"! With American Ground Screw, you can rest assured that your ground screws for shooting sports are reliable and well worth the investment.

We service a wide range of applications from industrial and commercial to residential and odd-ball projects around the house. When you take on a hobby, you want security in knowing your gear can withstand the test of time. Our auger pile and micropile selection ensures your experience in a shooting sport is safe and adventurous. Our prod-

ucts are backed by years of industry knowledge and precision, and our equipment for shooting sports is no different. Let American Ground Screw partner with you today to create custom, expertly engineered ground screws for shooting sports!



Quickly turn any space into a tactical shooting range

Quick and easy so you can spend more time working on your aim



- SPEED** ALL-IN-ONE DESIGN KEEPS SET UP UNDER 5 MINUTES-ALL PARTS INCLUDED
- STABILITY** STANDS UP AGAINST STRONG WINDS WITH MINIMAL MOVEMENT
- MOBILITY** LIGHTWEIGHT & EASY TO TRANSPORT DESIGN INSTALLS IN ALMOST ANY TERRAIN
- TEMPORARY OR PERMANANT** CONSTRUCTED WITH STEEL
- LOW PROFILE STORAGE** WIND/WEATHER PROOF
- INSTALLATION**
 1. bolt pieces together
 2. Screw into the ground
 3. Attach 2 vertical 1x2's
 4. Attach target



Ground screw solutions for fencing

From wooden privacy fences to temporary fencing for the construction and event industries, ground screws provide a sturdy, permanent, yet removable and re-usable foundation for all fencing needs. Quick to install without the need for concrete footings or post holes, our solutions

dramatically reduce labor and materials costs while minimizing environmental impact. Here at American Ground Screw, we know how necessary these small but mighty supplies are to securing projects and project completion timelines. With our ground screws for fence posts and screw anchors, you can rest easy

knowing your fencing is reliable for years to come. Whether commercial or residential, our custom-crafted fence ground screws serve all applications well with security and quality assurance. Our fence post ground screws eliminate the need for laborious digging, strenuous financial burdens, and

unreliability with your project. Each one is expertly engineered with distinct needs in mind, including yours. With American Ground Screw, we make it easy to invest in your projects and feel safe with the investment. Let our ground screws for fence posts be your solution



Wood
Chain link
Temporary
Residential
Commercial
High Security Fencing



Ground screws secure structures better than concrete.

If you've worked with ground screws before, chances are we made them. We were one of the world's first manufacturers of the technology and we continue to set the global standard for quality and performance. Our approach is built on collaboration: we share our knowledge and best practices with an international network of engineers, manufacturers, and building professionals. Our attention to detail and focused collaboration allows us to offer reliable, reputable solutions supported by our expert services. American Ground Screw is just not ground anchors and anchor screws; we are also a resource of knowledge and advancement for all those seeking up-to-code engineering solutions.



FOR RENT & SALE

Ground Screws can be installed quickly in a wide variety of soil conditions using a variety of low speed, high torque drivers. Ground screws are ready for loading immediately after installation which makes them ideal for one day installations of solar arrays, decks, fences, and foundations of all types.

MINI LOADER & WALK-BEHIND ANCHOR DRIVES

The MM10K is the ultimate Screw Anchor when it comes to performance, quality and cost effectiveness for Mini Loaders & Walk-Behind Machines. With over 30 years of design and development Digga has produced the highest quality range of Screw Anchor Drives on the market today.

MOUNT SPECS	MINI MACHINE
HEIGHT	24"
WIDTH	24.21"
WEIGHT WITH STANDARD MOUNT	291 LBS
WEIGHT WITH EXTENDED BOOM	435 LBS



MINI EXCAVATORS

The MM10K is the ultimate Screw Anchor when it comes to performance, quality and cost effectiveness for Mini Excavators. With over 30 years of design and development Digga has produced the highest quality range of Screw Anchor Drives on the market today.

MOUNT SPECS	MINI EXCAVATOR
HEIGHT	26.4"
WIDTH	16.4"
WEIGHT	380 LBS

*WEIGHT MAY VARY DEPENDING ON MACHINE MOUNT

SPECS	MM-10K
THEORETICAL TORQUE	10,478 FT-LBS @3000 PSI
EXPECTED TORQUE	8,040 FT-LBS @ 3000 PSI (77% EFFICIENCY)
MAX PRESSURE	3000 PSI
MAX FLOW	18.5 GPM @ 3000 PSI
MAX HORSE POWER	33
PRESSURE RELIEF VALVE	N/A
STD OUTPUT SHAFT	2.5" HEX-SHORT
HALO	OPTIONAL
WEIGHT - GEARBOX ONLY	140 LBS
WEIGHT - WITH MOUNT	313-458 LBS DEPENDING ON MOUNT OPTION

FEATURES

- Compact high torque Digga manufactured gearbox
- Lightweight and compact for ease of movement in confined spaces
- High efficiency Danfoss/Digga geroler hydraulic motor
- 1 year gearbox & 1 year motor warranty*



E-DRIVER HAND HELD ELECTRIC DRIVERS



POWER
An integrated gearbox offering up to 4,784Nm of torque

ACCURACY
Onboard spirit-level to help guide your installations.

E-DRIVER
The Eibenstock EHD 2000 offers an integrated gearbox that provides 4,784Nm torque, perfect for professionally installing ground screw foundations on projects any time of the year, in all weather conditions.

The Eibenstock EHD 2000 is an electric powered installation machine that can be easily transported into hard-to-access and off-grid areas and run off a main connection or generator.

SPECS
POWER INPUT: 1,700 W
RATED VOLTAGE: 110V~ OR 230V~
RATED OUTPUT: 3.5/7 RPM, MAX 4,784 NM
DIMENSIONS: 720 X 350 X 200MM
WEIGHT: 25 KG WITHOUT TELESCOPIC ARM
TELESCOPIC ARM DIMENSIONS: 1500 X 70MM
TELESCOPIC ARM WEIGHT: 10.3 KG
SAFETY SHUT-DOWN: YES





AMERICAN
GROUND SCREW
MFG & SUPPLY



Simple.
Solid.
Sustainable.

TAKE THE NEXT STEP

For more information about our systems, to purchase or to set up a meeting, talk to our local team.

512 Tuttle St. Des Moines, IA 50309

(833) 359-9475

WWW.AMERICANGROUNDSCREW.COM