

Why INOVAT PILLARS ground screws? Seeking a straightforward and robust foundation for your project? INOVAT PILLARS ground screws offer the perfect solution, allowing you to establish a solid foundation for your construction without the hassle of using concrete. Simple, yet strong.

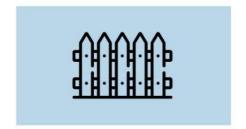
- Premium quality
- Licensed professionals
- Located in Latvia

- Reliable service
- Professional solutions
- Tested and certified

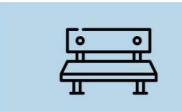
www.inovatpillars.com

### Where to use ground screws?

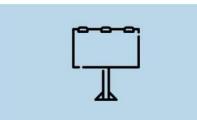
# FOUNDATION



**Fences & Posts** 



**Benches** 



**Outdoor Advertising** 



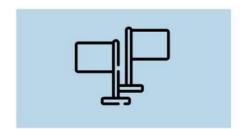
Saunas & Log Houses



Piers & Docks



**Outdoor Lightning** 



Flags & Flagpoles



**Road Signs** 



**Sheds & Barns** 



**Volley Nets** 



**Playgrounds** 



**Solar Panels** 





### How to use ground screws?

## APPLICATION

G ground screws are designed for securing various types of pipes within the screws themselves. Pipes are firmly fixed using bolts, making these screws ideal for flaapoles, fences. volleyball nets, and other types of posts. Theu are also extendable for versatile applications.

The M ground screw features a thick flat, round/hexagonal base with a support flange. M - profile screw piles offer a stable, smooth building surface, even in challenging terrain conditions.

U ground screws are perfect for timber frame construction and garden projects, such as decking, garden structures, or sheds. These screws designed are installing both vertical and horizontal beams securely.







## **GROUND SCREW**

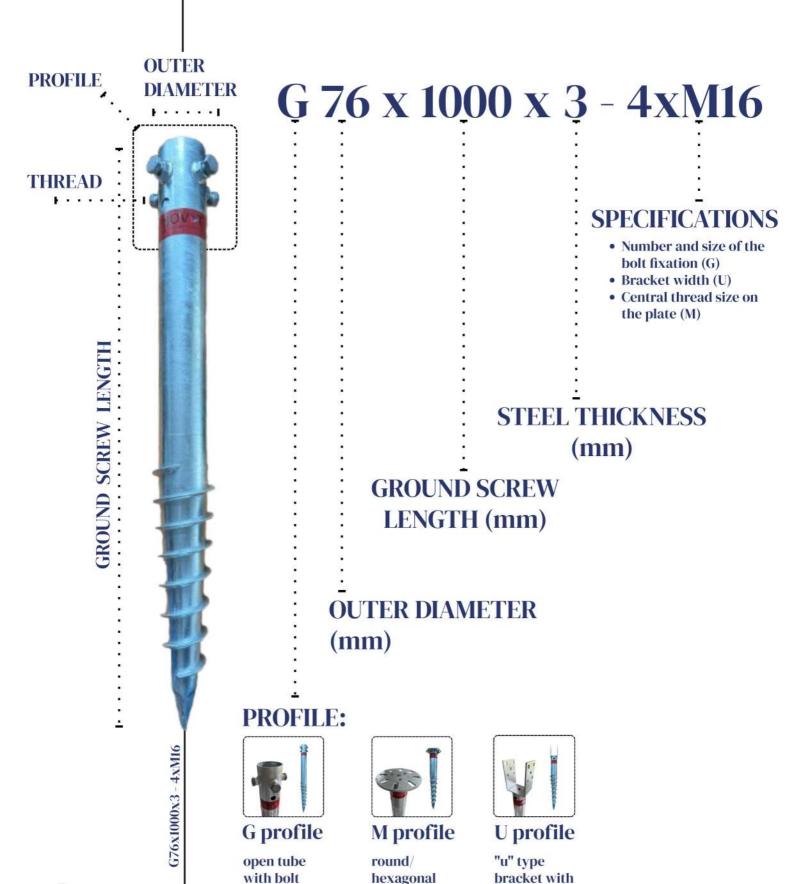


plate with

thread

holes for

fixation

fixation

## PROFILES



G profile

G 76x865x2 - 4xM16

G 76x1000x3 - 4xM16

G 76x1500x3 -4xM16

G 89x1500x3 - 4xM16

pages 6-7



M profile

M 68x550x1.8 - M16

M 76x800x3 - M16

M 76x1000x3 - M16

M 76x1300x3 - M16

pages 8-9



U profile

U 68x685x1.8 - 71

U 68x865x1.8 - 91

pages 10-11



**Accesories** 

G 76 to M adapter

G 89 to M adapter

G 76 x 1000 extension

G 89 x 1000 extension

G to L adapter

M to U adapter

12-14 pages



Ground screw driver SPD-10 000

**Equipment** Pre drilling tool

Ground screw reductor

pages 15-17

# **G** PROFILE

G ground screws are designed for securing various types of pipes within the screws themselves. Pipes are firmly fixed using bolts, making these screws ideal for fences. flagpoles, volleyball nets, and other types of posts. They are also extendable for versatile applications.

















Fences & Posts



**Outdoor Lighting** 



**Solar Panels** 



Flags & Flagpoles



**Outdoor Advertising** 



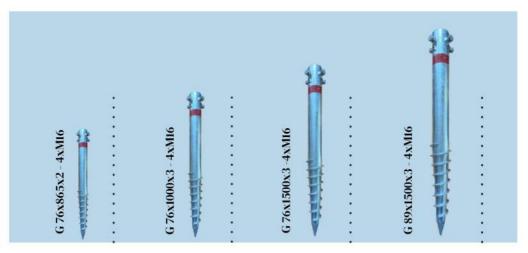
**Road Signs** 

# **G PROFILE**





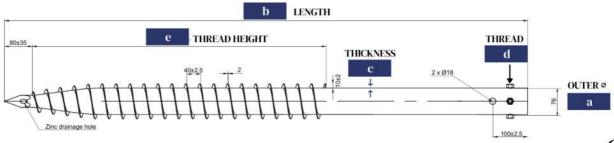




echnical Data	i		:			:		:			
		OUTER Ø	:	LENGTH		THICKNESS:	THREAD	:	THREAD HEIGHT	:	WEIGHT
	+1	mm	19.	mm	-	mm			mm		kg
G 76x865x2 - 4xM16		76		865		2 :	4xM16	÷	400		3.75
G 76x1000x3 - 4xM16		76		1000		3 :	4xM16	•	440	•	6.1
G 76x1500x3 -4xM16		76	:	1500		3 :	4xM16	:	840		9.3
G 89x1500x3 - 4xM16		89		1500		3	4xM16	·	850	0.0	12.4
				ls .			d				

Lo	ad Tests		MAX load, kN (kg)	·	AX tension load, kN (kg)	Shift load, kN (kg)
	G 76x865x2 - 4xM16		13 (1326)		6.6 (673)	3.6 (367)
	G 76x1000x3 - 4xM16		16.5 (1683)		9.5 (969)	4.5 (459)
	G 76x1500x3 -4xM16		31 (3161)		18.5 (1886)	7.5 (765)
	G 89x1500x3 - 4xM16	÷	36 (3671)	•	20.2 (2060)	9.3 (948)

 $1\,\mathrm{kN} \simeq 101.97\,\mathrm{kg}$ . All values are approximate and can be used as estimates for initial calculations. Actual load tests are mandatory! The manufacturer is not liable for damage caused due to errors in the calculation of loads.



# M PROFILE

The M ground screw features a thick flat, round/hexagonal base with a support flange. M - profile screw piles offer a stable, smooth building surface, even in challenging terrain conditions.

















Flags & Flagpoles



Benches



Saunas & Log Houses



Volley Nets



Sheds & Barns



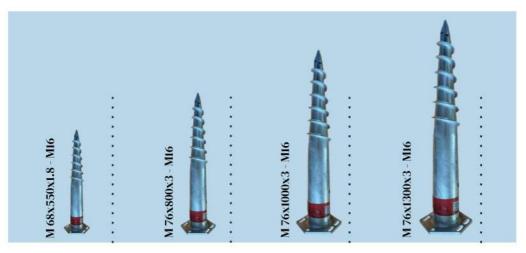
Playgrounds

# **M PROFILE**





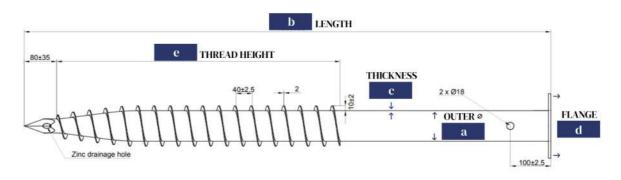




Technical Data	2										
reemment butu		OUTER Ø	LENGTH		: THICKNESS:		FLANGE	:	THREAD HEIGHT	:	WEIGH
	+0	mm	19	mm	4	mm			mm	8	kg
M 68x550x1.8 - M16		68		550		1.8	120	÷	240		2.4
M 76x800x3 - M16	:	76		800		3	160	:	400	:	5.2
M 76x1000x3 - M16	:	76		1000		3 :	160	:	440	:	6.8
M 76x1300x3 - M16		76		1300	300	3	160		640		9.3
		9		ь		· ·	d		o	1	

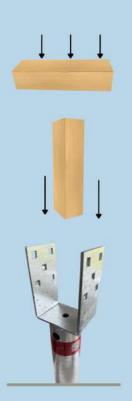
Lo	ad Tests		MAX load, kN (kg)	MAX tension load, kN (kg)	Shift load, kN (kg)
	M 68x550x1.8 - M16	:	3 (306)	2 (204)	0.75 (76)
	M 76x800x3 - M16		12.5 (1275)	6.5 (663)	3.4 (347)
	M 76x1000x3 - M16	•	16.5 (1683)	9.5 (969)	4.5 (459)
	M 76x1300x3 - M16		24 (2447)	12.3 (1254)	6.3 (642)

 $1\,\mathrm{kN} \simeq 101.97\,\mathrm{kg}$ . All values are approximate and can be used as estimates for initial calculations. Actual load tests are mandatory! The manufacturer is not liable for damage caused due to errors in the calculation of loads.



# **U** PROFILE

U ground screws are perfect for timber frame construction and garden projects, such as decking, garden sheds. structures. or These screws are designed for installing both vertical and horizontal beams securely.













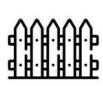




Piers & Docks



Benches



Fences & Posts



Volley Nets



Sheds & Barns



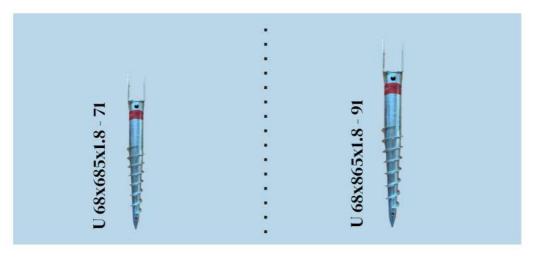
Playgrounds

# **U PROFILE**





## ► Product Series

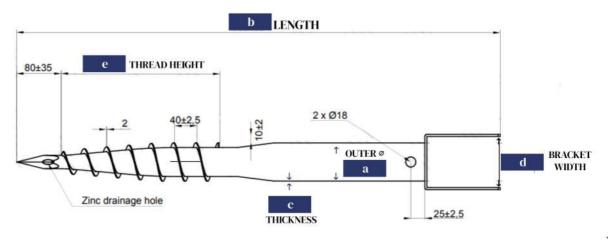


Toohnio	1 Data
<b>Technica</b>	ai Data

cinneai Data			•				•		•			
			9		•		•	BRACKET	٠	THREAD		
		OUTER Ø	:	LENGTH	: 1	THICKNESS	:	WIDTH	:	HEIGHT		WEIGHT
	N N	mm	8	mm		mm	×		***	mm	W	kg
U 68x685x1.8 - 71	:	68	÷	685		1.8	:	71	:	280		2.6
U 68x865x1.8 - 91		68	÷	865	0.0	1.8		91		280	٠	3.2
	.7.1	a		b	- NE GO	c		d	3	e	0.70	

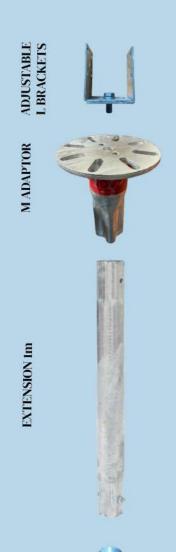
Lo	ad Tests	į	MAX load, kN (kg)	:	AX tension load, kN (kg)	Shift load, kN (kg)
	U 68x685x1.8 - 71	7.E	2.5 (255)	•	1.7 (173)	0.5 (51)
	U 68x865x1.8 - 91		6.2 (632)	i	4.6 (469)	2.55 (260)

 $1\,\mathrm{kN} \simeq 101.97\,\mathrm{kg}$ . All values are approximate and can be used as estimates for initial calculations. Actual load tests are mandatory! The manufacturer is not liable for damage caused due to errors in the calculation of loads.



### **ACCESSORIES**

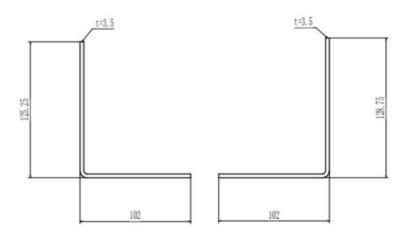
Ground screw
accessories provide
enhanced flexibility for
any construction project.
These accessories are
crafted from high-quality,
hot-dip galvanized steel,
ensuring durability and
reliability. They allow you
to extend the ground
screw or adapt it to
different profiles for
specialized applications.



## M to U adapter



Adjustable L-brackets offer increased flexibility for using popular timber sizes in your foundation frame. Simply adjust the brackets to the required width, mount them on top of any M-profile ground screw, and secure with a bolt. These brackets also enable rotation, allowing you to align the timber in the desired direction.



Each set includes **two brackets**, along with a **washer and bolt**. If needed, a single bracket can also be used independently.



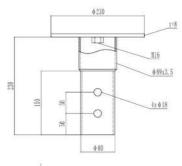


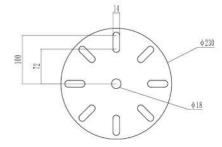


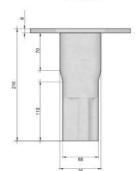
## G 76 to M adapter, G 89 to M adapter

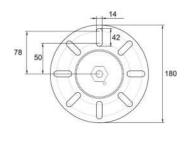
Transforms G profile to M profile









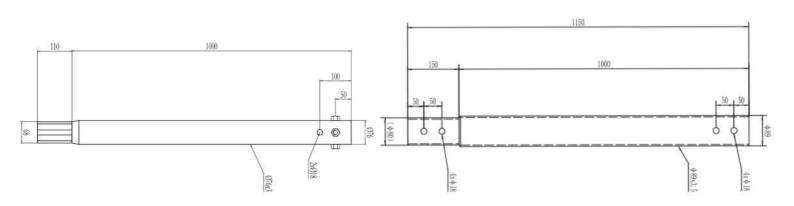




## G 76 x 1000, G 89 x 1000 extension

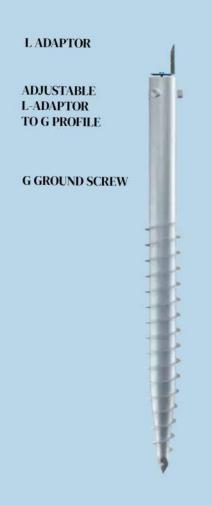
Extends G profile for 1 meter





### **ACCESSORIES**

Ground screw
accessories provide
enhanced flexibility for
any construction project.
These accessories are
crafted from high-quality,
hot-dip galvanized steel,
ensuring durability and
reliability. They allow you
to extend the ground
screw or adapt it to
different profiles for
specialized applications.



## G TO L adapter



The adjustable G-to-L adapter provides added flexibility for using popular timber sizes in your foundation frame. Simply adjust the bracket to the required width, attach it to any G-profile ground screw, and secure it with a bolt. The bracket also allows for rotation, making it easy to align the timber in the desired direction.

**G to L adapter** is easier to use. It allows 360° rotation and adjusting the L bracket to necessary position.





## Pre drilling tool



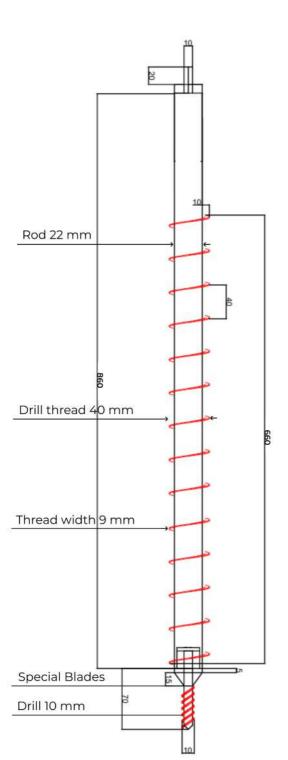


## GROUND SCREW PRE DRILLING TOOL

Pre-drilling for ground screws makes installation much easier, especially in hard soils. This process helps reduce the effort needed to install ground screws manually, with a steel rod, or using a ground screw reducer. Additionally, pre-drilling lowers the strain on power tools, preventing overheating and potential burnout.



for RENT & SALE



# INSTALLATION EQUIPMENT

The ground screw reductor is an excellent mechanical tool that enables ground screws to be installed using a standard electric screwdriver. It's ideal for installing ground screws up to 1000mm in length, making the process more efficient and accessible.

1 minute

assembling time

13 kg

weight

40x25x10 cm

box siz

regular screwdriver

compatible

1:78

gear ratio

# for RENT & SALE

## **Ground Screw Reductor**



### Adaptors for all profiles:











#### Set includes:

- Screw Pile driver
- bearing shoulder
- handle
- spare coals
- assembly tools
- instruction

#### Adaptor heads not included!

for RENT & SALE

# INSTALLATION EQUIPMENT

Professional ground screw installation equipment simplifies the process and offers significant benefits for installers. Ground screw drivers provide higher torque and enable faster installation, enhancing efficiency on the job.

#### **Screw Pile driver SPD-5 000**

5300 N.M

max. torque

220 V

voltage

18 A

max. AC current

2920 W

max. power consumption

20 rotation/min

no-load speed

#### Screw Pile driver SPD-10 000

10000 N.M

max. torque

230 V

voltage

23 A

max. AC current

5000 W

max. power consumption

12 rotation/min

no-load speed

# Notes

- 1	
9	

# Notes

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SCAN ME

