

MRac Ground Screws

# MRac Ground Screws

**MRac Ground Screws** are specially developed for solar PV mounting systems. MRac Ground Screw series includes various types of ground screws which will fit into different soil conditions. MRac Ground Screws could also be customized.



MRac Ground Screws



## MRac Ground Screws

### Soil Test Result

Soil Type	Testing Force	MRac-76*1200	MRac-76*1600
Gravel	Compression Resistance	24.1 (kN)	32.3 (kN)
	Uplift Resistance	14.3 (kN)	19.9 (kN)
Sand	Compression Resistance	20.8 (kN)	28.8 (kN)
	Uplift Resistance	15.0 (kN)	21.0 (kN)
Clay	Compression Resistance	15.1 (kN)	20.2 (kN)
	Uplift Resistance	12.2 (kN)	16.0 (kN)





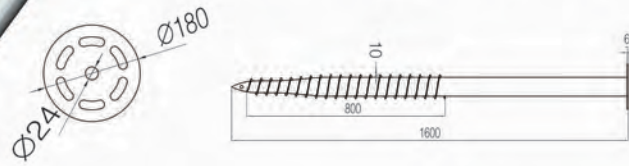
## MRac Ground Screws

### Preview



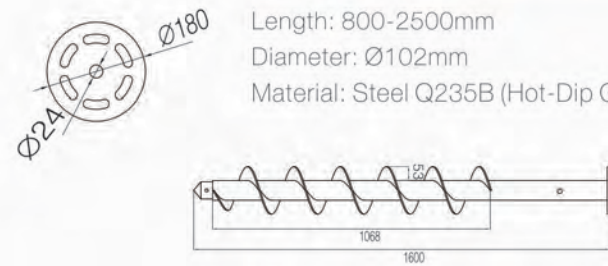
#### MR-GS-01 Standard Ground Screw

Length: 1200-2500mm  
 Diameter: Ø76mm  
 Material: Steel Q235B (Hot-Dip Galvanized)



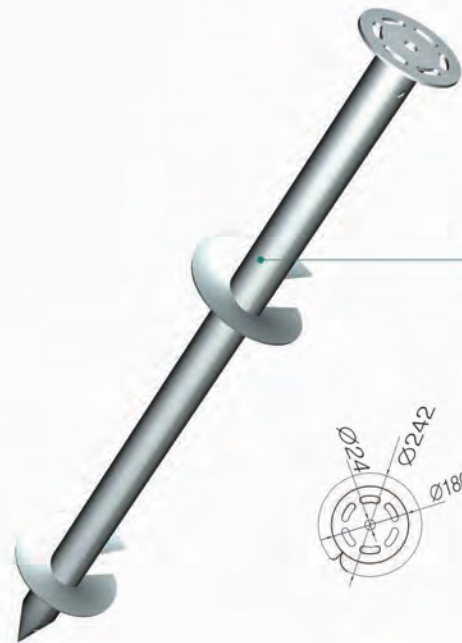
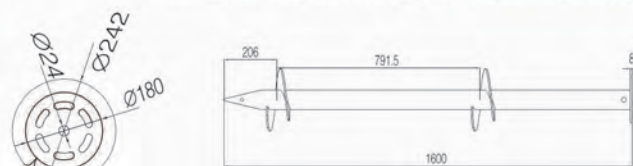
#### MR-GS-02 Large Blade Ground Screw

Length: 800-2500mm  
 Diameter: Ø102mm  
 Material: Steel Q235B (Hot-Dip Galvanized)



#### MR-GS-03 Double-Bladed Ground Screw

Length: 1200-2500mm  
 Diameter: Ø76mm  
 Material: Steel Q235B (Hot-Dip Galvanized)



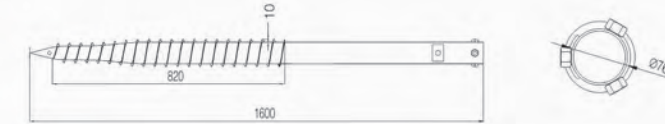
## MRac Ground Screws

### Component Details



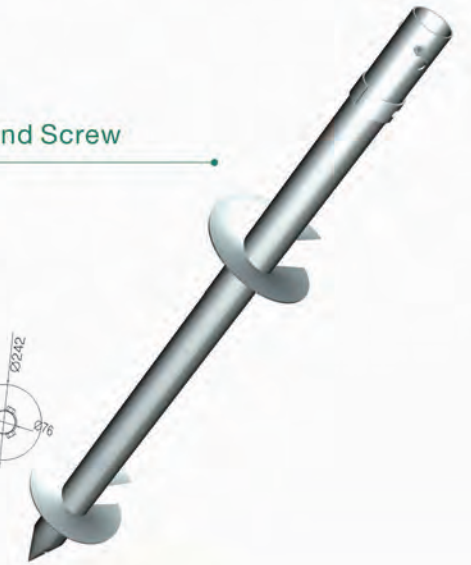
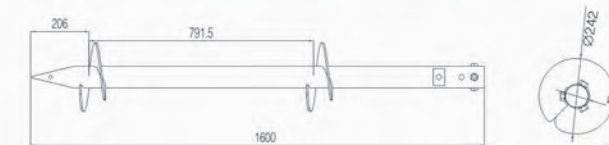
#### MR-GS-04 Standard Flangeless Ground Screw

Length: 1200-2500mm  
 Material: Steel Q235B (Hot-Dip Galvanized)



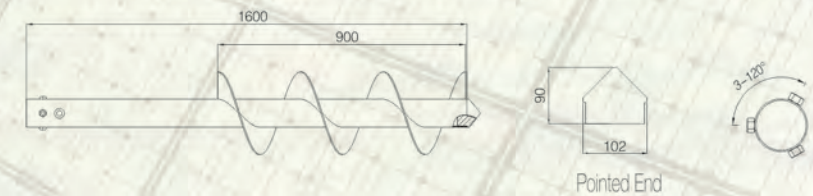
#### MR-GS-05 Standard Flangeless Double-Bladed Ground Screw

Length: 800-2500mm  
 Material: Steel Q235B (Hot-Dip Galvanized)



#### MR-GS-06 Standard Flangeless Large Blade Ground Screw

Length: 1200-2500mm  
 Material: Steel Q235B (Hot-Dip Galvanized)

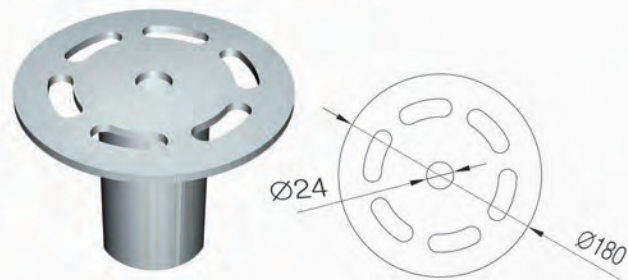




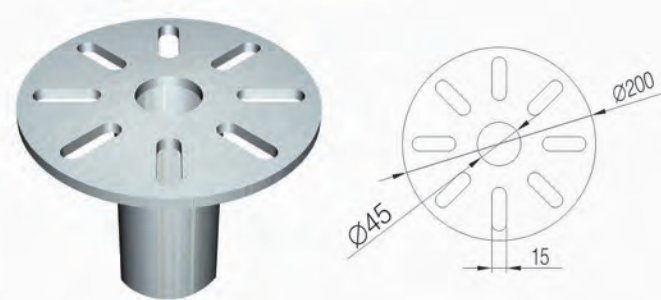
## MRac Ground Screws

### Flange Types

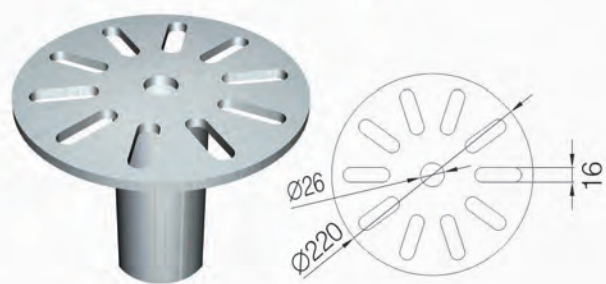
Annular 6 Hole Flange



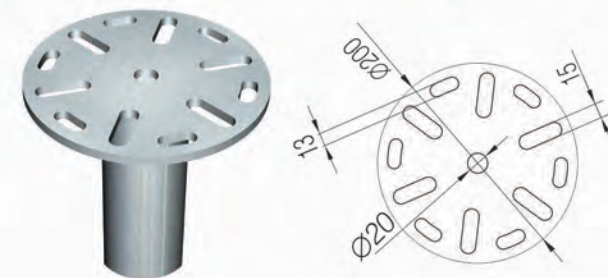
Radial 8 Hole Flange



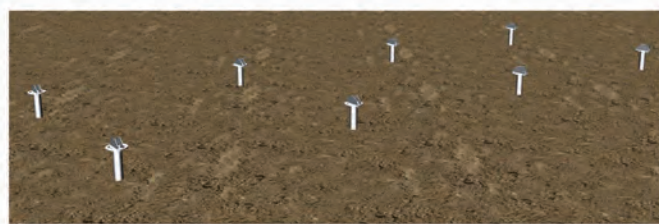
Radial 10 Hole Flange



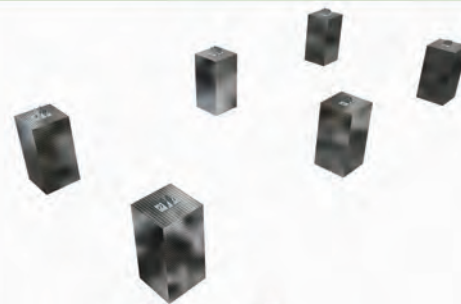
Annular and Radial 6 Hole Flange



### Comparison to Concrete Base



Ground Screws



Concrete Bases

## MRac Ground Screws

### Installation Pictures



### Advantages

#### 1. Premium Quality

The surface of ground screws is hot-dip galvanized which guarantees excellent corrosion resistance and a longer service life;

#### 2. Innovative Structural Design

The innovative structural design contributes to high compression resistance and uplift resistance;

#### 3. Quick Installation

By adopting ground screws, other than concrete bases, piling each ground screw takes about 2 minutes by large pile driver, which saves substantial time and labor cost;

#### 4. Environment-Friendly Solution

Compared with concrete base solution, adopting ground screws will not cause any waste soil, and moreover, the used steel and aluminum material can still recycle