Advantages of Lidaer Diluosi

Faster, more economical and safer

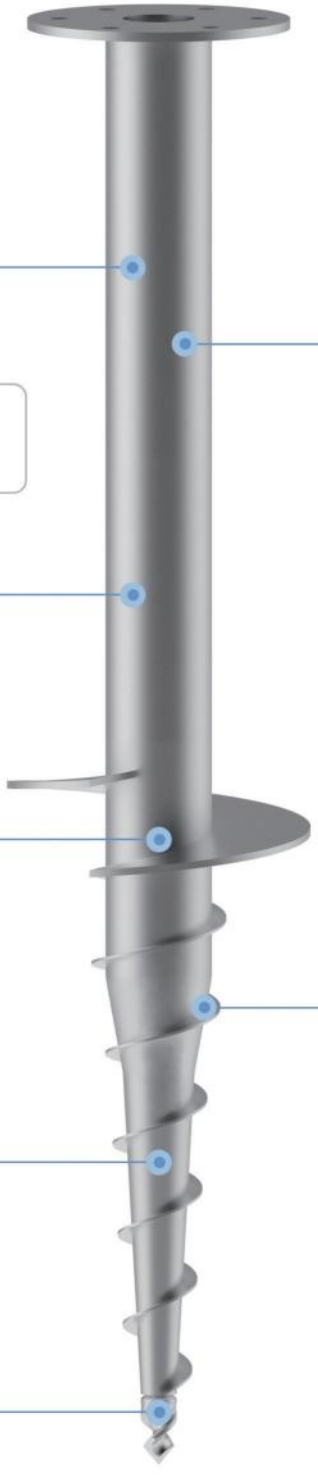
Lidaer Diluosi has a series of end structures, and can be used for a variety of modern building foundations.

The special production process ensures Lidaer Diluosi of a longer life.

Lidaer Diluosi adopts hot-dip galvanizing technology of GB/T13912 national standard and the German DIN EN ISO1461 standard, and its corrosion resistance is extremely strong.

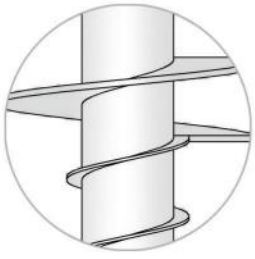
The load capacity of Lidaer Diluosi is up to 300kN (equivalent to 30T).

Its patent design helps accurate positioning and easy screwing into a variety of foundations.



Lidaer Diluosi has the various specifications at the length from 55cm ~ 300cm and various designs.

Screw blade adopts continuous welding technology, and can easily operate even in the most harsh soil conditions.
The special angle design of the screw blade makes the installation quicker and easier, and the special spacing design ensures maximum load carrying capacity.



Application Cases of Lidaer Products——Wooden chalet












LIDAER DILUOSI

Optimum Alternative Solution of Concrete Foundation

Assembly way of Diluosi

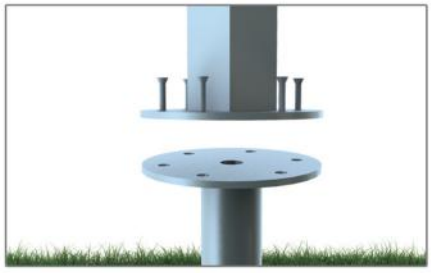
Optimum Alternative Solution of Concrete Foundation

Pile support

Light steel chassis support

Cap support

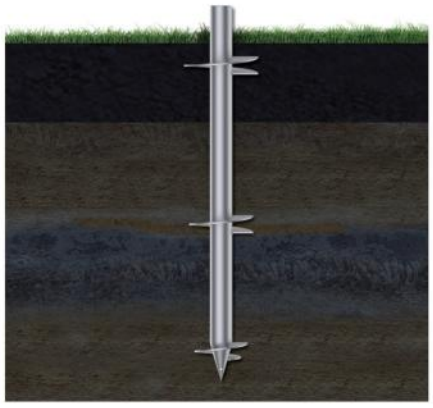
U-shaped fixed support



Flange support

Bolt fixing method

The Lidaer Zhuangjichu is suitable for various soil conditions (pre-drilling is required when installing on rock).



Application Cases of Lidaer Products——Container house

LIDAER DILUOSI

Optimum Alternative Solution of Concrete Foundation

Application Cases of Lidaer Products

Integrated house

LIDAER DILUOSI

Faster, more economical and safer

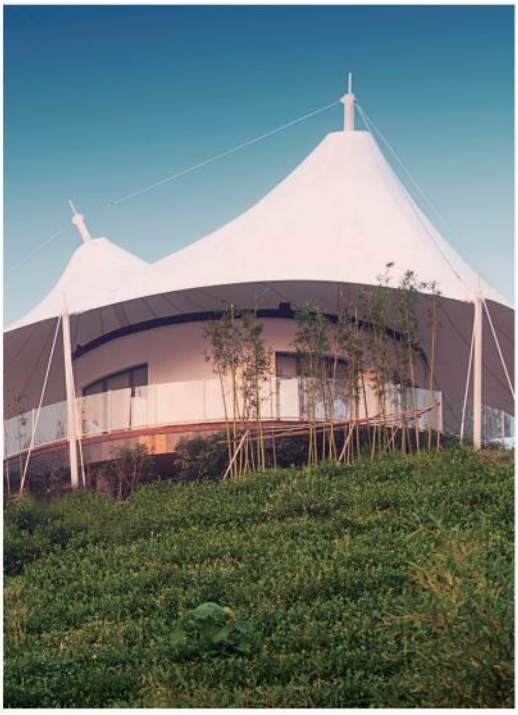
Application Cases of Lidaer Products——Light steel structure

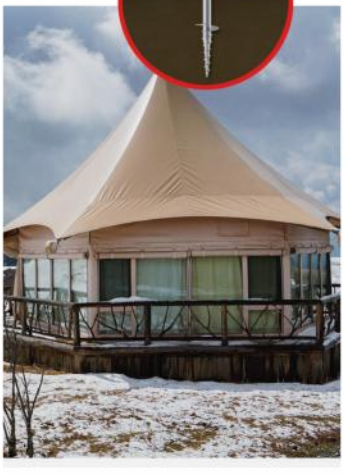
LIDAER DILUOSI

Optimum Alternative Solution of Concrete Foundation

Application Cases of Lidaer Products

Tented camp

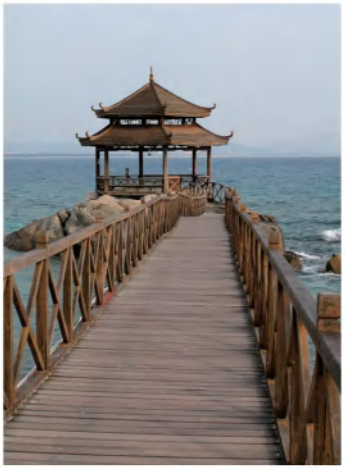




LIDAER DILUOSI

Faster, more economical and safer

Application Cases of Lidaer Products——Water trestle



LIDAER DILUOSI

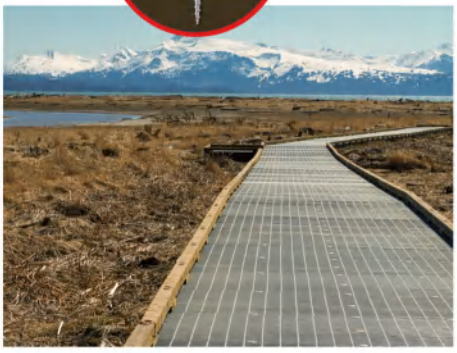
Optimum Alternative Solution of Concrete Foundation

Application Cases of Lidaer Products

Wooden walkway & Wooden platform





LIDAER DILUOSI

Faster, more economical and safer

Application Cases of Lidaer Products——Fence & Handrail

LIDAER DILUOSI

Optimum Alternative Solution of Concrete Foundation

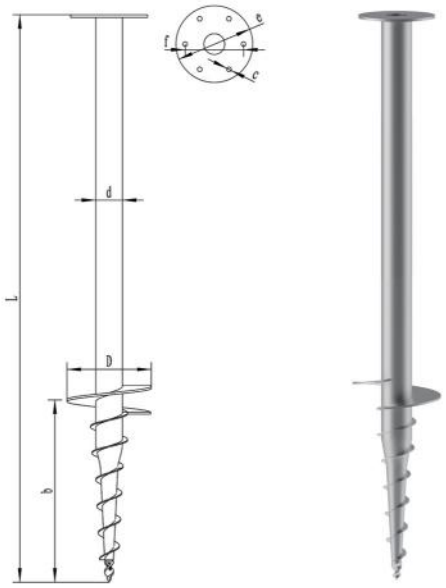
Application Cases of Lidaer Products

Lamppost & Billboard post & Pillar foundation

LIDAER DILUOSI

Faster, more economical and safer

YDFA-SERIES

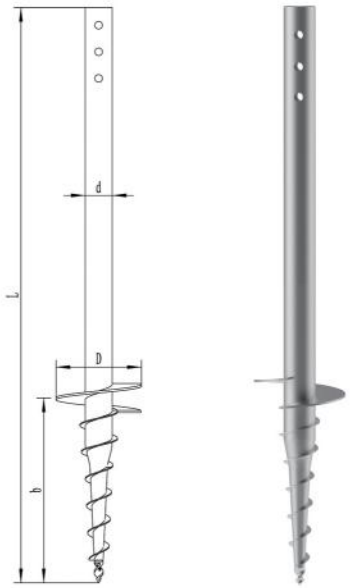


SERIES	Total length L(mm)	Diameter d(mm)	Screw blade height b(mm)	Screw blade diameter D(mm)	Flange diameter e(mm)	Pore center distance f(mm)	Pore size g
YDFA76x1600	1600	76	480	203	220	167	14
YDFA76x2100	2100	76	480	203	220	167	14
YDFA89x1600	1600	89	550	254	220	167	14
YDFA89x2100	2100	89	550	254	220	167	14
YDFA89x2500	2500	89	550	254	220	167	14
YDFA114x1600	1600	114	630	305	220	167	14
YDFA114x2100	2100	114	630	305	220	167	14
YDFA114x2500	2500	114	630	305	220	167	14

☆ The technical parameters are for reference only.

Products Series of Lidaer Zhuangjichu

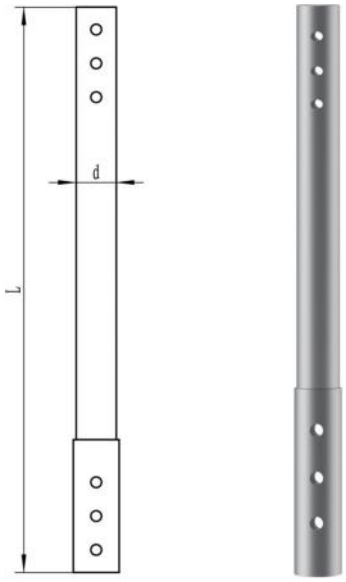
YD-SERIES



SERIES	Total length L(mm)	Diameter d(mm)	Screw blade height b(mm)	Screw blade diameter D(mm)
YD76x1600	1600	76	480	203
YD76x2100	2100	76	480	203
YD89x1600	1600	89	550	254
YD89x2100	2100	89	550	254
YD89x2500	2500	89	550	254
YD114x1600	1600	114	630	305
YD114x2100	2100	114	630	305
YD114x2500	2500	114	630	305

☆ The technical parameters are for reference only.

YDL-SERIES

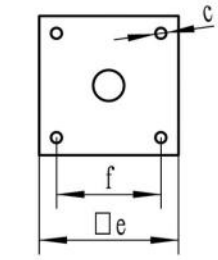


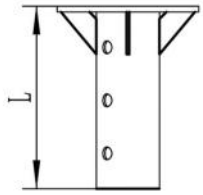
SERIES	Total length L(mm)	Diameterd (mm)
YDL76x1000	1255	76
YDL76x2000	2255	76
YDL89x1000	1255	89
YDL89x2000	2255	89
YDL114x1000	1255	114
YDL114x2000	2255	114

☆ The technical parameters are for reference only.

Products Series of Lidaer Zhuangjichu

CH-F-SERIES

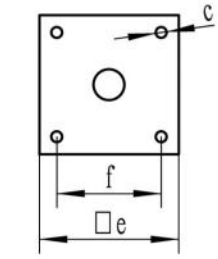




SERIES	Total length L(mm)	Square flange width e(mm)	Pitch f(mm)	Pore size c(mm)
CH-F76-200	258	200	150	16
CH-F76-220	258	220	160	16
CH-F89-200	258	200	150	16
CH-F89-220	258	220	160	16
CH-F114-200	258	200	150	16
CH-F114-220	258	220	160	16

☆ The technical parameters are for reference only.

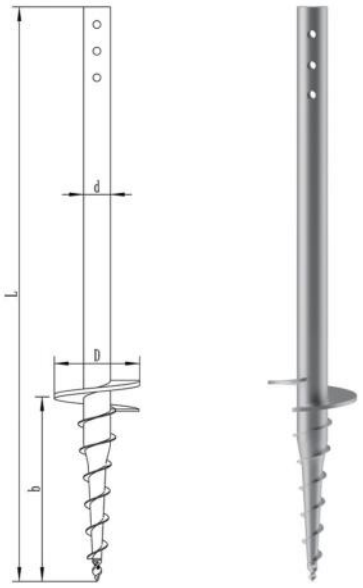
CH-FH-SERIES



SERIES	Total length L(mm)	Square flange width e(mm)	Pitch f(mm)	Pore size c(mm)
CH-F76H-200	108	200	150	16
CH-F76H-220	108	220	160	16
CH-F89H-200	108	200	150	16
CH-F89H-220	108	220	160	16
CH-F114H-200	108	200	150	16
CH-F114H-220	108	220	160	16

☆ The technical parameters are for reference only.

YDT-SERIES

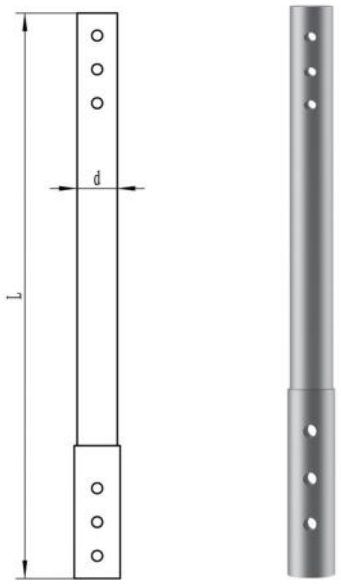


SERIES	Total length L(mm)	Diameter d(mm)	Screw blade height b(mm)	Screw blade diameter D(mm)
YDT89x1600	1600	89	550	254
YDT89x2100	2100	89	550	254
YDT89x2500	2500	89	550	254
YDT114x1600	1600	114	630	305
YDT114x2100	2100	114	630	305
YDT114x2500	2500	114	630	305

☆ The technical parameters are for reference only.

Products Series of Lidaer Zhuangjichu

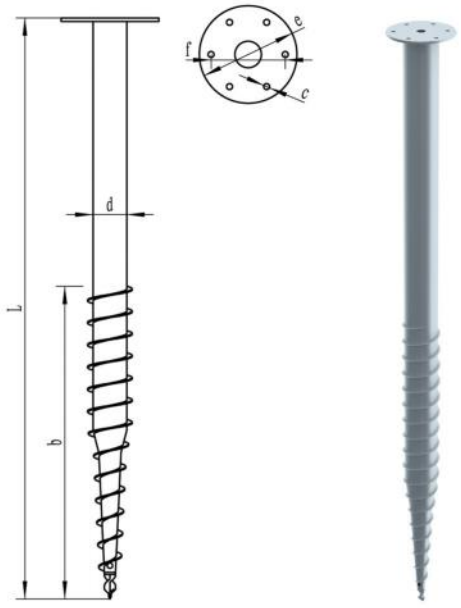
YDTL-SERIES



SERIES	Total length L(mm)	Diameter d(mm)
YDTL89x1000	1255	89
YDTL89x2000	2255	89
YDTL114x1000	1255	114
YDTL114x2000	2255	114

☆ The technical parameters are for reference only.

YFA-SERIES



SERIES	Total length L(mm)	Diameter d(mm)	Screw blade height b(mm)	Screw blade diameter e(mm)	Pore center distance f(mm)	Pore size g(mm)
YFA76x800	800	76	400	220	167	14
YFA76x1000	1000	76	500	220	167	14
YFA76x1300	1300	76	650	220	167	14
YFA76x1600	1600	76	800	220	167	14
YFA76x2100	2100	76	1050	220	167	14
YFA76x2500	2500	76	1250	220	167	14
YFA76x3000	3000	76	1500	220	167	14
YFA89x800	800	89	460	220	167	14

☆ The technical parameters are for reference only.

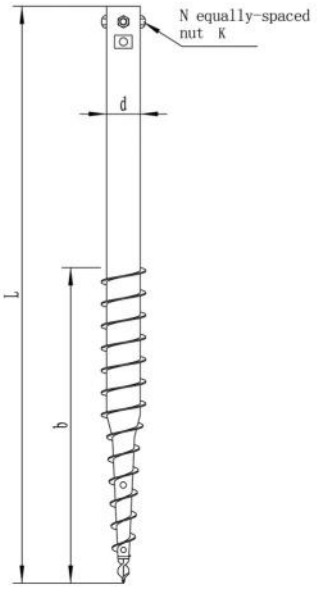
Products Series of Lidaer Zhuangjichu

YFA-SERIES

SERIES	Total length L(mm)	Diameter d(mm)	Screw blade height b(mm)	Screw blade diameter e(mm)	Pore center distance f(mm)	Pore size g(mm)
YFA89x1000	1000	89	500	220	167	14
YFA89x1300	1300	89	650	220	167	14
YFA89x1600	1600	89	800	220	167	14
YFA89x2100	2100	89	1050	220	167	14
YFA89x2500	2500	89	1250	220	167	14
YFA89x3000	3000	89	1500	220	167	14
YFA114x1000	1000	114	550	220	167	14
YFA114x1300	1300	114	650	220	167	14
YFA114x1600	1600	114	800	220	167	14
YFA114x2100	2100	114	1050	220	167	14
YFA114x2500	2500	114	1250	220	167	14
YFA114x3000	3000	114	1500	220	167	14
YFA140x1300	1300	140	700	240	180	17
YFA140x1600	1600	140	800	240	180	17
YFA140x2100	2100	140	1050	240	180	17
YFA140x2500	2500	140	1250	240	180	17
YFA140x3000	3000	140	1500	240	180	17

☆ The technical parameters are for reference only.

YN -SERIES

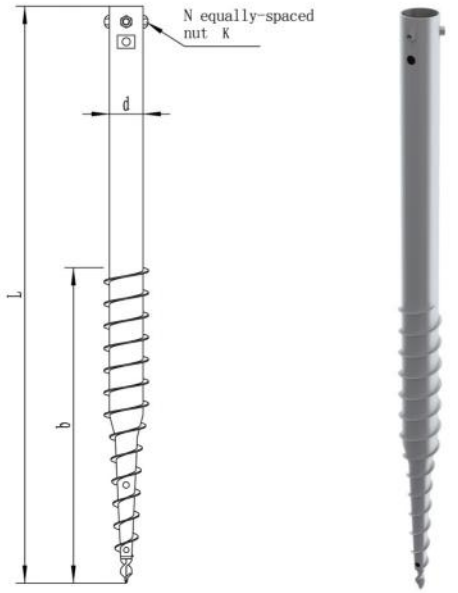


SERIES	Total length L(mm)	Diameter d(mm)	Screw blade height b(mm)	N equally-spaced nut(mm)	Nut specification k(mm)
YN76x800	800	76	400	3	M16
YN76x1000	1000	76	500	3	M16
YN76x1300	1300	76	650	3	M16
YN76x1600	1600	76	800	3	M16
YN76x2100	2100	76	1050	3	M16
YN76x2500	2500	76	1250	3	M16
YN76x3000	3000	76	1500	3	M16
YN89x800	800	89	460	3	M16
YN89x1000	1000	89	500	3	M16
YN89x1300	1300	89	650	3	M16

☆ The technical parameters are for reference only.

Products Series of Lidaer Zhuangjichu

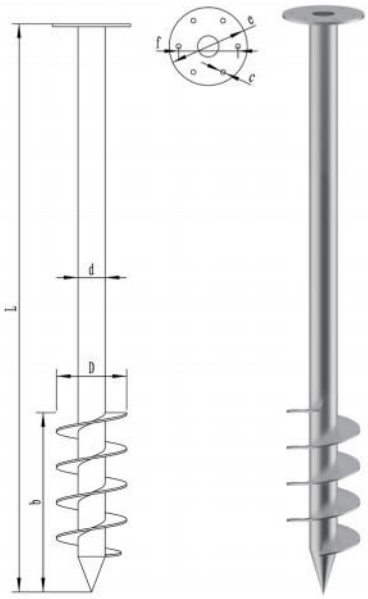
YN -SERIES



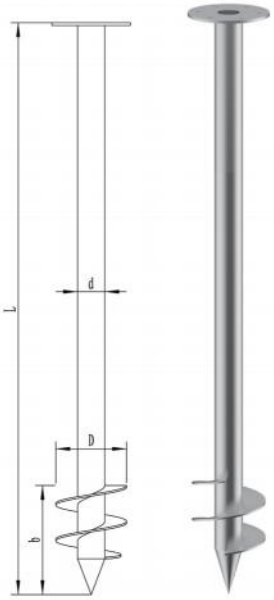
SERIES	Total length L(mm)	Diameter d(mm)	Screw blade height b(mm)	N equally-spaced nut(mm)	Nut specification k(mm)
YN89x1600	1600	89	800	3	M16
YN89x2100	2100	89	1050	3	M16
YN89x2500	2500	89	1250	3	M16
YN89x3000	3000	89	1500	3	M16
YN114x1000	1000	114	550	4	M16
YN114x1300	1300	114	650	4	M16
YN114x1600	1600	114	800	4	M16
YN114x2100	2100	114	1050	4	M16
YN114x2500	2500	114	1250	4	M16

☆ The technical parameters are for reference only.

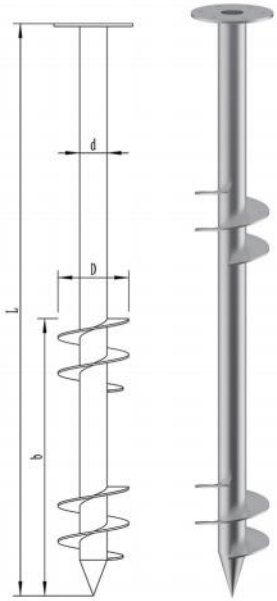
VD1FA-SERIES



VD1FA



VD2FA



V2D2FA

SERIES	Total length L(mm)	Diameter d(mm)	Screw blade height b(mm)	Screw blade diameter D(mm)	Flange diameter e(mm)	Pore center distance f(mm)	Pore size g
VD1FA76x1600	1600	76	530	198	220	167	14
VD1FA76x2100	2100	76	530	198	220	167	14
VD1FA76x2500	2500	76	530	198	220	167	14
VD1FA89x1600	1600	89	630	220	220	167	14
VD1FA89x2100	2100	89	630	220	220	167	14
VD1FA89x2500	2500	89	630	220	220	167	14
VD1FA89x3000	3000	89	630	220	220	167	14

☆ The technical parameters are for reference only.

Products Series of Lidaer Zhuangjichu

VD2FA&V2D2FA-SERIES

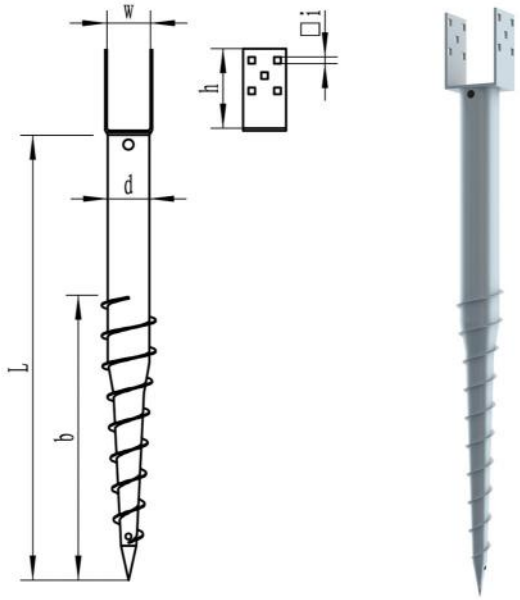
SERIES	Total length L(mm)	Diameter d(mm)	Screw blade height b(mm)	Screw blade diameter D(mm)	Flange diameter e(mm)	Pore center distance f(mm)	Pore size g
VD2FA76x1000	1000	76	330	198	220	167	14
VD2FA76x1300	1300	76	330	198	220	167	14
VD2FA76x1600	1600	76	330	198	220	167	14

☆ The technical parameters are for reference only.

SERIES	Total length L(mm)	Diameter d(mm)	Screw blade height b(mm)	Screw blade diameter D(mm)	Flange diameter e(mm)	Pore center distance f(mm)	Pore size g
V2D2FA76x1600	1600	76	1130	198	220	167	14
V2D2FA76x2100	2100	76	1380	198	220	167	14
V2D2FA76x2500	2500	76	1580	198	220	167	14
V2D2FA76X3000	3000	76	1830	198	220	167	14
V2D2FA89x2100	2100	89	1440	220	220	167	14
V2D2FA89x2500	2500	89	1640	220	220	167	14
V2D2FA89x3000	3000	89	1890	220	220	167	14

☆ The technical parameters are for reference only.

JU-SERIES

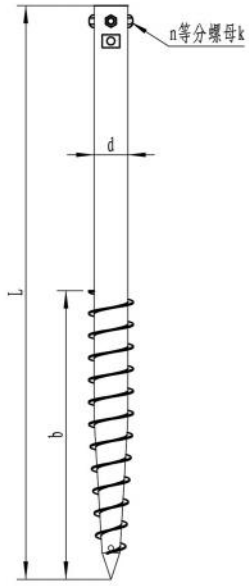


SERIES	Total length L(mm)	Diameter d(mm)	Screw blade height b(mm)	U-shaped plate width h(mm)	U-shaped plate inner height h(mm)	Square pore side length i(mm)
JU68x550-71	550	68	360	71	130	11
JU68x730-71	730	68	420	71	130	11
JU68x730-91	730	68	420	91	130	11
JU68x865-91	865	68	420	91	130	11
JU68x730-111	730	68	420	111	130	11
JU68x865-111	865	68	420	111	130	11

☆ The technical parameters are for reference only.

Products Series of Lidaer Zhuangjichu

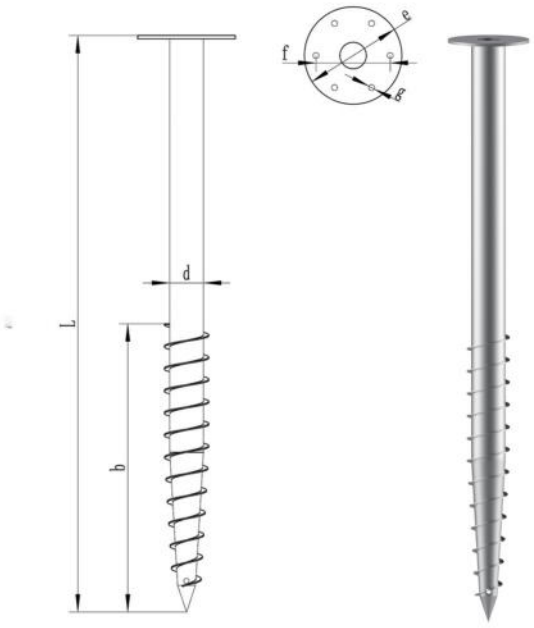
JN-SERIES



SERIES	Total length L(mm)	Diameter d(mm)	Screw blade height b(mm)	N equally-spaced nut(mm)	Nut specification k(mm)
JN68x550	550	68	360	3	M10
JN68x650	650	68	410	3	M10
JN76x800	800	76	460	3	M16
JN76x1000	1000	76	500	3	M16
JN76x1300	1300	76	650	3	M16
JN76x1600	1600	76	800	3	M16
JN76x2100	2100	76	1050	3	M16
JN76x2500	2500	76	1250	3	M16
JN76x3000	3000	76	1500	3	M16
JN89x800	800	89	460	3	M16
JN89x1000	1000	89	500	3	M16
JN89x1300	1300	89	650	3	M16
JN89x1600	1600	89	800	3	M16
JN89x2100	2100	89	1050	3	M16
JN89x2500	2500	89	1250	3	M16
JN89x3000	3000	89	1500	3	M16

☆ The technical parameters are for reference only.

JFA-SERIES



SERIES	Total length L(mm)	Diameter d(mm)	Screw blade height b(mm)	Screw blade diameter e(mm)	Pore center distance f(mm)	Pore size g(mm)
JFA68×800	800	68	320	220	167	14
JFA68×1000	1000	68	440	220	167	14
JFA68×1300	1300	68	590	220	167	14
JFA68×1600	1600	68	740	220	167	14
JFA76×800	800	76	400	220	167	14
JFA76×1000	1000	76	440	220	167	14
JFA76×1300	1300	76	590	220	167	14
JFA76×1600/3	1600	76	740	220	167	14

☆ The technical parameters are for reference only

Products Series of Lidaer Zhuangjichu

JFA-SERIES

SERIES	Total length L(mm)	Diameter d(mm)	Screw blade height b(mm)	Screw blade diameter e(mm)	Pore center distance f(mm)	Pore size g(mm)
JFA76×1600	1600	76	740	220	167	14
JFA76×2100	2100	76	990	220	167	14
JFA76×2500	2500	76	1190	220	167	14
JFA76×3000	3000	76	1440	220	167	14
JFA89×800	800	89	400	220	167	14
JFA89×1000	1000	89	440	220	167	14
JFA89×1300	1300	89	590	220	167	14
JFA89×1600	1600	89	740	220	167	14
JFA89×2100/3.5	2100	89	990	220	167	14
JFA89×2100	2100	89	990	220	167	14
JFA89×2500/3.5	2500	89	1190	220	167	14
JFA89×2500	2500	89	1190	220	167	14
JFA89×3000	3000	89	1440	240	167	17

☆ The technical parameters are for reference only.

LR-E-SERIES

SERIES	Voltage (V)	Max. current (A)	Max. power (W)	Frequency (HZ)	Max. torque (N.m)	No-load speed (r/min)	Weight of main machine (kg)
LR-D20	~230	9	2000	50-60	2000	7	12
LR-E20	~230	9	2000	50-60	2000	12	13
LR-E30	~230	9	2000	50-60	3000	12	18

☆ The technical parameters are for reference only.

Diluosi Construction Machine

It is mainly used for installation of small and medium-sized buildings such as wooden huts, light steel integrated houses fence, handrail, small billboards, road signs, and so on. The installation is easy, and the positioning is accurate.
It is designed for single work, effectively reducing labor costs and improving work efficiency.

Diluosi Construction Machine
Portable Screwing Machine

LR-E-SERIES

SERIES	Voltage (V)	Max. current (A)	Max. power (W)	Frequency (HZ)	Max. torque (N.m)	No-load speed (r/min)	Weight of main machine (kg)
LR-E50	~230	18	4000	50-60	4800	11	25
LR-E100	~230	18	4000	50-60	10000	4	35

☆ The technical parameters are for reference only.




LDR-SERIES

LDR-50

Crawler Hydraulic Pile Driver

Crawler hydraulic pile driver adopts crawler walking system, moves in place quickly, safely and stably.
It has high construction efficiency, good quality and is easy to move in place with. In addition,
it has centralized electrical hydraulic control, easy to operate and reducing the labor intensity of workers.

Diluosi Construction Machine
Crawler Hydraulic Pile Driver

LDR-SERIES

Main parameters	
Drilling pile diameter (mm)	76~114
Drilling pile depth (mm)	2500

Outer dimensions	
Weight (kg)	2100
Length X width X height	3800x1350x1860

Screw-powered head	
Max. speed (rpm)	40
Max. torque (Nm)	5000

Advancing	
Beam length (mm)	3700
Stroke (mm)	3000
Speed (m / min)	0.7

Chassis	
Tread (mm)	1355
Gauge (mm)	1100
Track width (mm)	250
Ground Clearance (mm)	160

Traveling ability	
Traveling speed (km / h)	2.3
Max. traction force (KN)	22
Climbing ability (degrees)	30

Engine	
Model	4TNV94L-S
Displacement (L)	3.054
Power / Speed (KW / RPW)	39.8/2200
Fuel tank capacity (L)	73

☆ The technical parameters are for reference only.

Main features and scope of application

A. The machine adopts the form of track movement, with mobile convenience in place, in addition to all the electrical hydraulic control, easy to operate, reducing the labor intensity.

B. It adopts crawler system with rigid suspension integral trolley structure and it works fast, safely, stably, and at high construction efficiency and good quality.

C. Its hydraulic transmission mechanism is reliable and easy to maintain.

D. It is equipped with a variety of work devices for a wide range of applications.

E. Pile frame rises smoothly with small impact on the whole structure and longer working life.

Product application

Specification, type and applicable conditions of Diluosi:

1. Specification, type and applicable conditions of Diluosi:

Serial number	1	2	3
Schematic			
Type	YD SERIES	Y SERIES	D SERIES
Description	Continuous thread with end resistance large blade	Continuous thread	Continuous large blade
Soil properties	General natural soil, low density soil, backfill, etc.	General natural soil, high-density soil, permafrost, gravel soil, soft rock, etc.	Loose soil, such as riverway, silt, sand, etc.

2. Construction program of Diluosi for different soils :

（1）Natural soil:

It can use electric pre-loading machine, hydraulic pre-loading machine, or crawler pre-loading machine.

Such condition is very suitable for Diluosi..

（2）Loose, backfilled or gravel land, etc.:

It can use electric pre-loading machine or portable pre-loading machine.

At the beginning, some pressure is needed. Crawler pre-loading machine can do it easily.

（3）Rock or concrete, etc.:

It needs auxiliary equipment, such as diamond drilling machine, core sampling machine, electric pickaxe, etc.

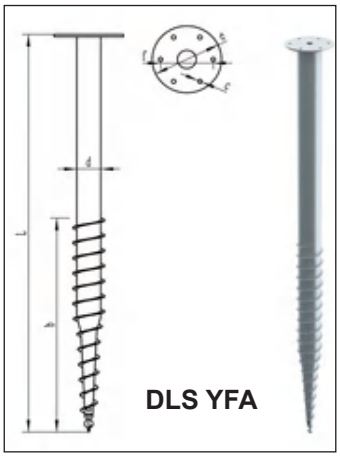
It can be assembled by pre-loading machine.

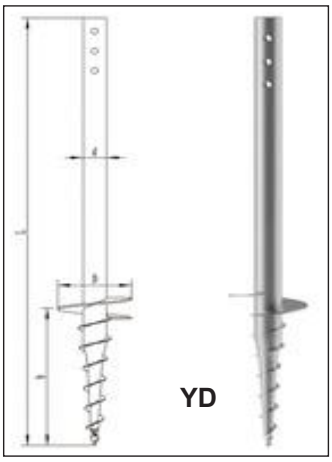
3.Feasibility of application of Diluosi in different soils:

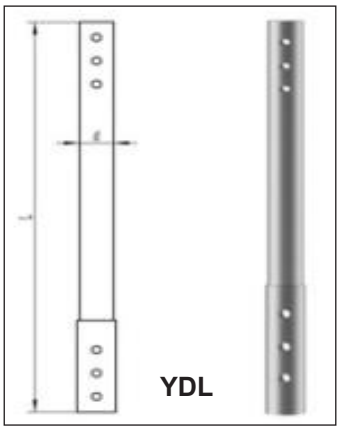
Serial number	Ground types		Composition	Feasibility of directly using Diluosi technology	Feasibility of recommended using Diluosi technology
1	Artificial filling	Plain filling	Gravel soil, sand, silt, clay and other components of the fill	Feasible	According to the degree of soil density to determine the final type of Diluosi, YD-type, Y-type, or D-type can be selected.
		Compacted fill	Compacted or tamped plain fill	Feasible	
		Miscellaneous filling	Fill with construction waste, industrial waste and domestic waste	Feasible	
		Filling the soil	Sediment fill by hydraulic filling	Feasible	
2	Cohesive soil	Clay	Plasticity index > 17	Feasible	
		Silty clay	10 < plasticity index < 17	Feasible	
3	Silt		Particle of plasticity index <10 and diameter > 0.075mm does not exceed 50% of the total weight of the soil	Feasible	
4	Sandy oil	Gravel sand	Particle of diameter > 2mm accounts for 25 ~ 50% of total weight.	Feasible	
		Coarse sand	Particle of diameter > 0.5mm accounts for 50% of total weight.	Feasible	
		Medium sand	Particle of diameter > 0.25mm accounts for 50% of total weight.	Feasible	
		Fine sand	Particle of diameter > 0.075mm accounts for 80% of total weight.	Feasible	
		Silt	Particle of diameter > 0.075mm accounts for 50% of total weight.	Feasible	
5	Gravel soil	Boulders, stone blocks	Particle of diameter > 200mm accounts for 50% of total weight.	● Not feasible	Need to make prefabricated holes for concrete
		Pebbles, gravel	Particle of diameter > 20mm accounts for 50% of total weight.	Feasible	Y-type YD-type
		Round gravel, breccia	Particle of diameter > 2mm accounts for 50% of total weight.	Feasible	
6	Rock	Hard rock	It has a high mechanical strength and a strong water resistance	● Not feasible	Need to make prefabricated holes for concrete
		Soft rock	Mudstone, shale, siltstone and argillaceous ores	Feasible	Need to make Y-type prefabricated holes.
Remarks	According to the provisions of GB-50007 Geotechnical Classification, the recommended type of Diluosi is for conventional soil conditions. The final Diluosi is subject to the actual conditions of the soil properties and bearing requirements to determine its specifications. For reference only.				

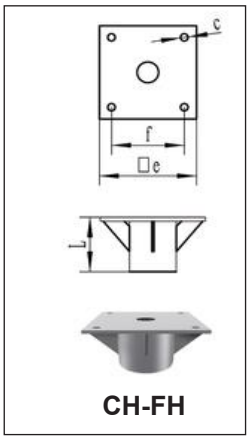
立达尔地螺丝常用规格价格表

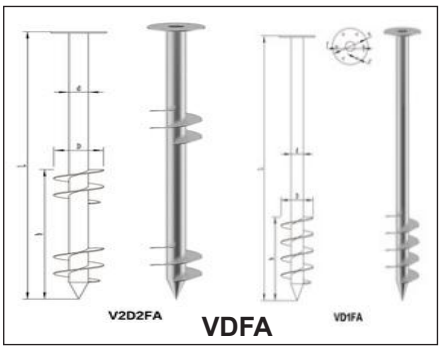
系列	型号	重量 (kg)	价格 (¥)
DLS YFA	DLS YFA 76×1300	9.7	
	DLS YFA 76×1600	10.73	
	DLS YFA 76×2100	16.89	
	DLS YFA 76×2500	19	
	DLS YFA76X3000	27.06	
	DLS YFA89X1000	9	
	DLS YFA89X1300	11.59	
	DLS YFA 89×1600	13.5	
	DLS YFA 89×2100	18.86	
	DLS YFA 89×2500	22.84	
	DLS YFA 89×3000	27.78	
	DLS YFA114×1600	21.68	
	DLS YFA114×2100	28.72	
	DLS YFA114×2500	32.7	
YD	DLS YD76×2100	17.49	
	DLS YD89×2100	21.34	
	DLS YD89×2500	22.66	
	DLS YD114×2100	26.47	
	DLS YD114×2500	30.64	
YDL	YDL89×1000	12.78	
	YDL89×2000	21.46	
	YDL114×1000	16.54	
	YDL114×2000	26.88	
CH-F	CH-F76-200	5.84	
	CH-F89-220	6.8	
	CH-F114-220	7.7	
CH-FH	CH-F76H-200	4.13	
	CH-F89H-220	4.95	
	CH-F114H-220	5.12	
VDFA	V2D2FA89-2500	26.8	
	VD1FA76-1600	14.52	











LR-E 电动旋紧机价格表

序号	名称	型号	价格（含税）
1	电动旋紧机	LR-E20	
2		LR-E30	
3		LR-E50	

电动旋紧机参数表

型号	电压
LR-E20	-230
LR-E30	-230
LR-E50	-230