新乡市喜阳阳筛分机械制造有限公司

Xinxiang Xiyangyang Screening Machinery Manufacturing Co., Ltd





Xinxiang Xiyangyang Screening Machinery Manufacturing Co., Ltd

Factory Direct

Fast Delivery



En)

OEM & ODM

MACHINERY PRODUCT QUALITY CERTIFICATION



SGS certification



Test Report

No. TAOML2001383501

Date: 24 Apr 2020

Page 1 of 4

Member of the SGS Group (SGS SA)

XINXIANG XIYANGYANG SCREENING MACHINERY MANUFACTURING CO., LTD

NO. 8 XINYUAN ROAD, LONGGONGMIAO TOWN, XINXIANG COUNTY, XINXIANG CITY, HENAN PROVINCE

The following sample(s) was/were submitted and identified on behalf of the clients as : XIVANGYYANGWIRE THREAD INSERT

SGS Job No. :	QD1N2004002005PC - QD
Product Specification :	2'0.4 3'0.5 4'0.7 5'0.8 6'1 8'1.25 10'1.5 10'1.5 12'1.75 14'2 16'2
Manufacturer :	XINXIANG XIYANGYANG SCREENING MACHINERY MANUFACTURING CO., LTD
Date of Sample Received : Testing Period : Test Requested : Test Method : Test Results :	20 Apr 2020 20 Apr 2020 - 24 Apr 2020 Selected text[4] as requested by client. Please refer to nect page[5].
Condusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS Directive (EU) 20 15/863 amending Annex II to Directive 2011/65/8U.

Signed for and on behalf of SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.





	2	C	h	
-	1.			
<u> </u>				
			-	

Test Report	No. TAOML2001383501	Date: 24 Apr 2020	Page 2 of 4
Test Results :			

Test Part Description :

pedimen No. SGS Sample ID Description

SN1 TAO20-013835.001 Silvery mental thread insert

Remarks : (1) 1 mg/kg = 0.0001% (2) MDL = Method Detection Limit (3) ND = Not Detected (< MDL) (4) "4" = Not Regulated

RoH8 Directive (EU) 2015/863 amending Annax II to Directive 2011/85/EU

Test Method : With reference to IEC 62321-6:2013, IEC 62321-4:2013 +AMD1:2017, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis.

Test Item(s)	Limit	Unit	MDL	001	
Cadmium (Cd)	100	maña	2	ND	
Lead (Pt)	1000	maña	2	ND	
Mercury (Hg)	1000	ma/kg	2	ND	
Hexavalent Chromium (Cr(VI))*		µg/om*	0.10	ND	

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 6/321 series is equivalent to EN 6/321 series https://www.cenetec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_JD_FSP_LANG_JD: 1286637.25

(2) *= a. The sample is positive for Cr/VI if the Cr/VI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr/VI

b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating

c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination

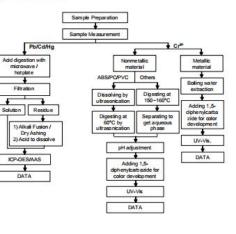
Information on stora ge conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



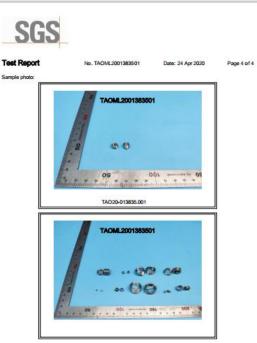
SGS

Pb/Cd/Hg/Cr** Testing Flow Chart

 These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁴⁺ test method excluded)







SGS authenticate the photo on original report only *** End of Report ***



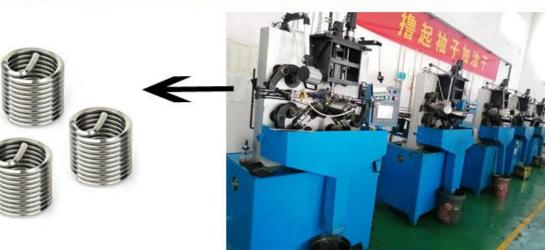
Production workshop and warehouse

A corner of our production workshop





Hundreds of automatic winding machines, with a monthly output of more than one million pieces, which can meet the needs of multiple companies



Can produce M1.6 \ast 0.35- M60 \ast 4 and other customized products

A corner of our warehouse







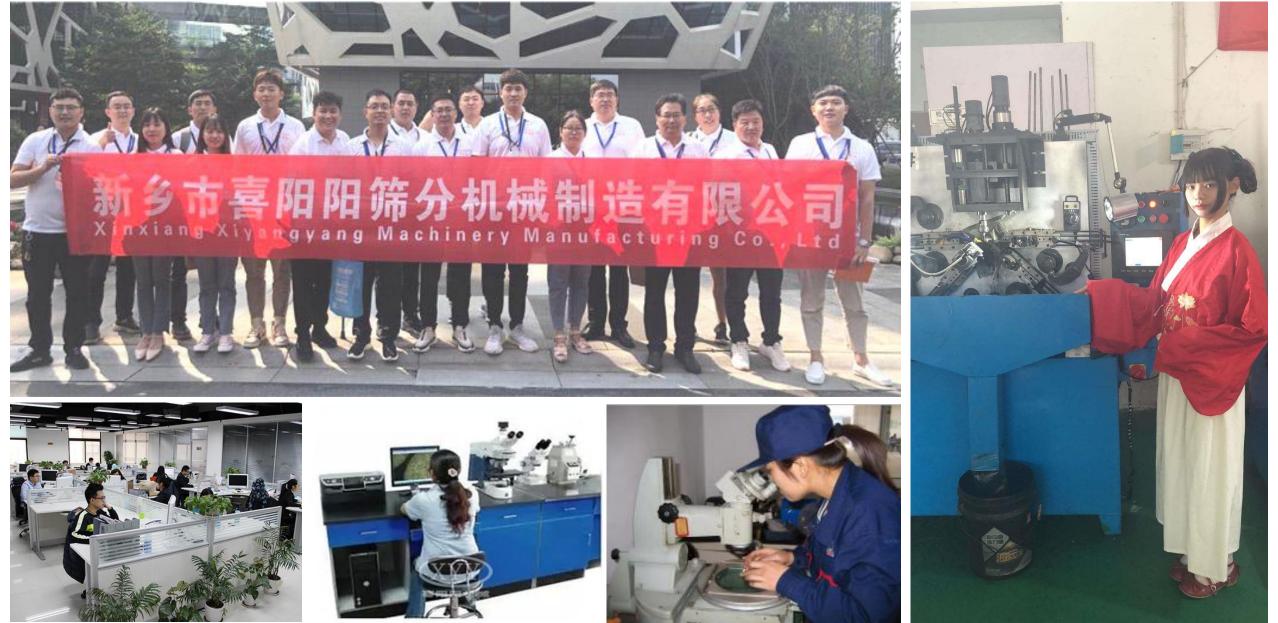


Our warehouse has a large inventory of



various specifications, and the commonly used specifications are stocked. Xiyangyang is willing to be a strong backing for everyone!

Staff style



Cooperative customers



Classification of thread inserts



According to the material classification of thread insert

- (1) Stainless steel material
- (2) copper alloy material
- (3) high temperature alloy material



- Classification according to the use function of thread insert
- (1) Ordinary type steel wire screw sleeve
- (2) Locking type steel wire screw sleeve



Classification according to thread system of thread insert

- (1) International standard ISO "M, MJ" series
- (2) Unified thread "UN" series
- (3) pipe thread without thread sealing



Standard thread insert



Locking threadinsert

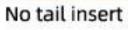
Classification of thread inserts



Classification according to the spiral direction of thread insert (1) Right hand thread insert

- (2) Left hand thread insert
- According to the classification of the thread insert installation handle(1) Wire threaded sleeve with mounting handle(2) Wire screw sleeve without mounting handle







Classification according to whether there is coating on the surface of thread insert

- (1) Surface uncoated steel wire screw sleeve
- (2) The surface has coated steel wire screw sleeve such as: silver plating, cadmium plating, etc.





Copper insert

Cadmium insert

Use of steel wire screw sleeve

Enhance connection strength and improve connection conditions.

The steel wire insert is selected from low-strength materials such as aluminum and magnesium, which can avoid slipping wires and staggered teeth and obtain excellent connection performance.

Durable. Used for frequently dismantled parts, can greatly increase the service life of the thread.

Increase the force surface. Used for parts that require strong connecting force but cannot increase the diameter of the screw hole..

Prevent loosening. Especially for spacecraft and other products requiring high safety factor.

Easy to repair. Put the damaged screw hole into the wire screw sleeve, after repair, you can continue to use it to avoid the possibility of workpiece damage.

Common parameter table of metric thread insert

Thread size (d*p)	Nominal length (k * d)	Hole depth t (mm)	Drill diameter (do)	Outer diameter in free state Dz (mm)	Turns N
	1D	2			2.9
2*0.4	1.5D	3	2.1	2.60-2.80	4.9
	2D	4			6.9
	1D	3			3.9
3*0.5	1.5D	4.5	3.1	3.8-4.0	6.3
	2D	6			8.7
	1D			5.05-5.25	3.7
4*0.7	1.5D	6	4.2		6.1
	2D	8			8.4
	1D	5			4.3
5*0.8	1.5D	7.5	5.2	6.25-6.6	6.9
	2D	10			9.7
	1D	6			4.2
6*1	1.5D	9	6.3	7.6-7.85	6.9
	2D	12			9.6

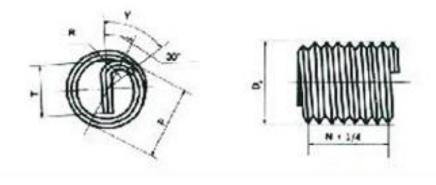
Common parameter table of metric thread insert

Thread size (d*p)	Nominal length (k * d)	Hole depth t (mm)	Drill diameter (do)	Outer diameter in free state Dz (mm)	Turns N
	1D	8			4.7
8*1.25	1.5D	12	8.3	9.85-10.11	7.4
	2D	16			10.6
	1D	10			5
10*1.5	1.5D	15	10.3	12.1-12.5	8.1
	2D	20			11.2
	1D	12			5.2
12*1.75	1.5D	18	12.4	14.4-14.8	8.4
	2D	24			11.7
	1D	14			5.6
14*2	1.5D	21	14.5	16.8-17.2	8.8
	2D	28			12.
	1D	16			6.5
16*2	1.5D	24	16.5	19.0-19.4	10.1
	2D	32			13.8

Table of common parameters of English thread insert

Thread size (d*p)	Nominal length (k * d)	Hole depth t (mm)	Drill diameter (do)	Outer diameter in free state Dz (mm)	Turns N
	1D	2.9			3.2
4-40	1.5D	4.3	3	3.66-4.04	5.1
	2D	5.8			7.2
	1D	3.5			2.8
6-32	1.5D	5.3	3.7	4.52-4.90	4.8
	2D	7.0			6.8
	1D	6.4		7.86-8.38	3.9
1/4-20	1.5D	9.5	6.7		6.2
	2D	12.7			8.6
	1D	9.5			7.3
3/8-24	1.5D	14.3	9.8	11.37-11.88	11.5
	2D	19.1			15.6
	1D	12.7			7.9
1/2-20	1.5D	19.7	13	15.03-15.67	12.8
	2D	25.4			17.3

Parameter description



- d -----Nominal diameter of wire screw sleeve
- p ----- pitch
- T -----Deep hole
- Do ----- drill bit diameter
- N ----- The number of turns of the wire screw sleeve in the free state
- Dz ----- The length of the wire screw sleeve selected in the free state

Note:

1. The number of free-state turns N of Xiyangyang wire screw sleeve can be determined by the unit design

- 2. The wire screw sleeve for blind hole has no break groove
- 3. The outer diameter Dz in the free state is the size before assembly

Special tap for thread insert



The special tap for steel wire thread insert is used for processing the special internal thread of the installation hole of steel wire thread insert. The structural dimension is manufactured according to the national standard "machine and hand tap with thin handle" GB3464-83 and other standards. The material is W18Cr4V, which can be used by machine or hand.

Marking method: St d * P ST is the code of special internal thread for steel wire insert Example of marking: Special tap for processing and installing 8 * 1.25 steel wire thread socket bottom hole thread on light alloy, mark: ST8 * 1.25

Installation wrench of thread insert

The steel wire socket wrench is used for the installation of the steel wire socket in the bottom hole of the thread. The basic principle is to make the steel wire thread sleeve pass through a section of guide thread, force the outer diameter to shrink, so as to install the bottom hole smoothly.





Manual installation wrench

Electric installation wrench It is used for the installation of batch thread inserts or in the assembly line

Handle removal tool, removal tool, inspection tool







Handle removal tool

Remove tool

ST plug gauge

Using instantaneous impulse to break the installation handle of wire screw sleeve

Used to take out the thread insert in the bottom hole

Internal thread used for testing the installation bottom hole of thread insert

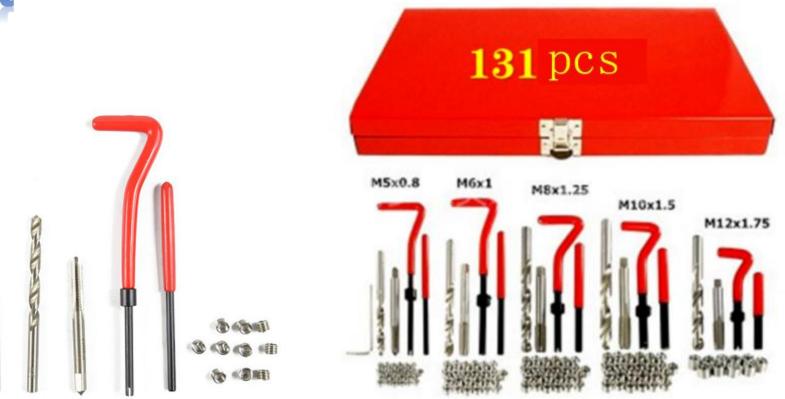
Thread repair kit



M2-M16 thread repair kit

25 inserts Hexagonal wrench Bit St tap St simple wrench Handle removal tool

There are 25 m5-m8 inserts and 10 m10-m12 inserts Hexagonal wrench of each specification Bit per specification St tap of each specification St simple wrench for each specification Handle removal tool for each specification



Installation process of wire thread insert



1. Drilling

According to different specifications, the corresponding standard drill bit shall be selected for drilling, and the drilling depth shall be greater than or equal to the installation depth of steel wire screw sleeve.

2. Tapping

Use the special tap marked with the specified thread specification to tap the steel wire thread, and the tapping length must exceed the length of the steel wire thread. When the accuracy of the threaded hole is high, the special plug gauge for the bottom hole of the steel wire insert shall be used for inspection.

3. In general, use the manual installer to install the steel wire insert.
After the installation of the steel wire insert, in order to check the accuracy level of the standard internal thread hole formed, the corresponding level plug gauge can be used for inspection.
4. Handle removal

For the steel wire screw sleeve with broken groove, the installation handle shall be removed after screwing into the screw hole, and the handle removal tool is required. When through-hole, it is necessary to break the installation handle of steel wire screw sleeve. Generally, use a punch to align the installation handle, and use a hammer of about 200g to punch it to remove it

5. Disassembly

Insert the tip of the remover into the screw sleeve hole, press the handle firmly, and rotate it anticlockwise to remove the screw sleeve.

Application scope of wire thread insert

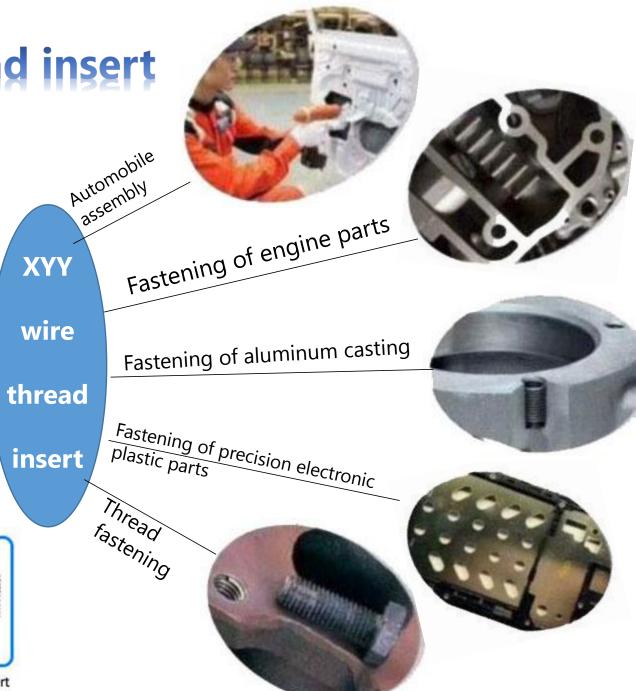
In addition to the aerospace military, the steel wire screw sleeve is also widely used in road and rail transportation, construction machinery, textile machinery, medical equipment, paper making, weapons, radar, rocket, ship, steam turbine, chemical and other civil products. In foreign countries, it is not only used in aircraft, aerospace industry, but also in ship, automobile, machine tool, motor, textile machinery, instrument and other industries. Even in the light industrial products such as cameras, sewing machines and combination furniture, this kind of silk cover is widely used.











302 Self-tapping insert

No tail insert

307/308 insert

Non magnetic insert

Self tapping insert

Self tapping insert is a new type of fastener to strengthen the thread strength. There are tooth marks inside and outside of the self tapping sleeve. It is embedded in soft materials such as plastic, aluminum alloy cast iron and copper, which can form high strength internal thread hole. Self tapping sleeve (self tapping sleeve) can also repair the damaged internal thread.

The materials used for self-tapping thread insert are generally carbon steel and stainless steel.

1. Carbon steel 1215:

color-plated zinc, suitable for surface carburizing heat treatment on aluminum alloy, copper alloy, plastic and other substrates with low engineering strength.

2. Stainless steel SUS303 (304, 316, 316L): suitable for surface passivation treatment on products with higher strength such as cast iron.



302开槽型自攻螺套参数表

302 slotted type self tapping thread insert Parameter table

内螺纹	螺纹 长度 外螺纹		Referen	参考钻孔直径 ce borehole diamet	最小钻孔深度 Minimum bore hole	重量 Weight	
Internal thread	(mm)	External thread	塑料 Plastic cement	铝合金 Aluminium alloy	铸铁 Cast iron	Depth (mm)	KG/1000pcs
M2-0.4	6	M4.5-0.5	4.0-4.1	4.1-4.2	4.2-4.3	8	0.4
M2.5-0.25	6	M4.5-0.5	4.0-4.1	4.1-4.2	4.2-4.3	8	0.4
M3-0.5	6	M5-0.5	4.5-4.6	4.6-4.7	4.7-4.8	8	0.4
M4-0.7	8	M6-0.75	5.8-5.9	6.0-6.1	6.1-6.2	10	0.9
M5-0.8	10	M8-1.0	7.1-7.2	7.3-7.5	7.5-7.6	13	1.6
M6-1.0	12	M9-1.0	8.1-8.2	8.3-8.5	8.5-8.6	15	2.3
M6-1.0	14	M10-1.5	9.0-9.2	9.2-9.3	9.3-9.4	17	3.6
M8-1.25	15	M12-1.5	10.8-11.0	11-11.2	11.2-11.4	18	5.0
M10-1.5	18	M14-1.5	12.8-13.0	13.0-13.3	13. 2–13. 4	22	7.7
M12-1.75	22	M16-1.5	14.8-15.0	15.0-15.3	15.2-15.4	26	11.5
M14-2.0	24	M18-1.5	16.8-17.0	17.0-17.3	17.2–17.4	28	14.5
M16-2.0	22	M20-1.5	18.8-19.0	19.0-19.3	19.2–19.4	27	15.5
M18-2.5	24	M22-1.5	20.8-21.0	21.0-21.3	21. 2-21. 4	29	20.0
M20-2.5	27	M26-1.5	24.8-25.0	25.0-25.3	25. 2-25. 4	32	40.0
M24-3.0	30	M30-1.5	28.8-29.0	29.0-29.3	29.2-29.4	36	50.0

307 / 308 three hole self tapping insert

307 / 308 made a great breakthrough in material cutting difficulties. This product not only has a very thick wall, but also has three round holes with cutting ability scattered on the wall. 307 / 308 product is especially suitable for the case of material thickness is not too abundant.

The application of self tapping screw sleeve almost runs through the whole metal and plastic processing industry. The products have been used in automobile industry, civil and commercial vehicle engine, transmission, aviation industry, rail car industry, etc,



307	长度 外螺纹 length External		参考钻 Reference bore	最小钻孔深度 Minimum drilling	
(Three holes)	(mm)	thread	铝合金 Aluminium alloy	铸铁 cast iron	Depth (mm)
M3-0.5	4	M5-0.6	4.6-4.7	4.7-4.8	8
M4-0.7	6	M6.5-0.8	6.0-6.1	6. 1–6. 2	10
M5-0.8	7	M8-1.0	7.4–7.6	7.6-7.7	13
M6-1.0	8	M10-1.25	9. 3-9. 4	9. 5-9. 6	15
M8-1.25	9	M12-1.5	11. 1–11. 3	11. 3–11. 5	18
M10-1.5	10	M14-1.5	13. 1–13. 3	13. 3–13. 5	22
M12-1.75	12	M16-1.75	15.0–15.3	15. 3–15. 5	26
M14-2.0	14	M18-2.0	17.0-17.2	17.3–17.5	28
M16-2.0	14	M20-2.0	19.0–19.2	19. 3–19. 5	27

308	长度 length	外螺纹 External	参考钻 Reference bore	孔直径 ehole diameter	最小钻孔深度 Minimum drilling
(Three holes)	(mm)	Ŭ	铝合金 Aluminium alloy	铸铁 cast iron	Depth (mm)
M3-0.5	6	M5-0.6	4.6-4.7	4.7-4.8	8
M4-0.7	8	M6. 5-0. 8	6.0-6.1	6. 1–6. 2	10
M5-0.8	10	M8-1.0	7.4–7.6	7.6-7.7	13
M6-1.0	12	M10-1.25	9.3-9.4	9. 5-9. 6	15
M8-1.25	14	M12-1.5	11. 1–11. 3	11. 3–11. 5	18
M10-1.5	18	M14-1.5	13. 1–13. 3	13. 3–13. 5	22
M12-1.75	22	M16-1.75	15.0–15.3	15. 3–15. 5	26
M14-2.0	24	M18-2.0	17.0-17.2	17. 3–17. 5	28
M16-2.0	24	M20-2.0	19.0–19.2	19. 3–19. 5	27



Keensert is a special fastener with threads inside and outside, and four or two bolt keys on the outer thread. The Keensert is set into the bottom hole after tapping, and then the four bolts are pressed in to achieve Strong fastening effect. The products are mainly used in military, aerospace, railway locomotives, vibration machinery and other products that require high thread strength.

Keensert material :

1. Stainless steel

2. Carbon steel



插销螺套参数表 Parameter table of keensert

类别 Category	规格 Size	内螺纹 Internal thread	外螺纹 Outer thread	长度 Length	钻孔尺寸 Drill hole
	M2	M2*0.4	M4*0.7	3	3.4
微型	M2.5	M2.5*0.45	M4.5*0.75	3. 8	3.9
Miniature	МЗ	M3*0.5	M5*0.8	4.2	4.4
	M4	M4*0.7	M6*0.75	5.2	5.5
	М5	M5*0.8	M8*1.25	8	6.9
	М6	M6*1	M10*1.25	10	8.8
轻型 Light	M8	M8*1.25	M12*1.25	12	10.8
	M10	M10*1.5	M14*1.5	14	12.8
	M12	M12*1.75	M16*1.5	16	14.8

插销螺套参数表 Parameter table of keensert

类别 Category	规格 Size	内螺纹 Internal thread	外螺纹 Outer thread	长度 Length	钻孔尺寸 Drill hole
	M4	M4*0.7	M8*1.25	8	6.9
	M5	M5*0.8	M10*1.25	10	8.8
	M6	M6*1	M12*1.25	12	10.8
	M8	M8*1.25	M14*1.5	14	12.8
	M10	M10*1.5	M16*1.5	16	14.8
重型	M12	M12*1.75	M18*1.5	18	16.8
Heavy	M14	M14*2	M20*1.5	20	18.8
	M16	M16*2	M22*2.5	18	20. 5
	M18	M18*1.5	M24*1.5	21	22.5
-	M20	M20*2.5	M30*2	25	28
	M22	M22*1.5	M32*2	28	30
	M24	M24*3	M33*2	30	31





our company

WEARE PROMISE

Factory direct sales, lightning delivery Support customized, do your strong backing!



Welcome to our company for guidance and inspection!