



Established 1983 in Shijiazhuang Hebei China

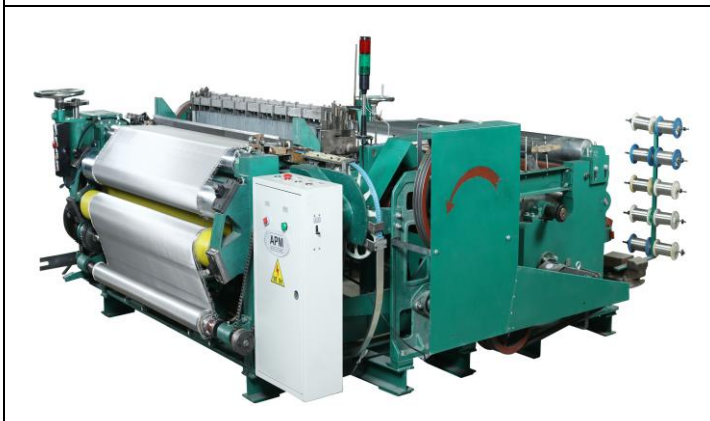
WIRE WEAVING LOOM MODEL ZWJ



1300Q/1600Q



Full PLC1300Q/1600Q

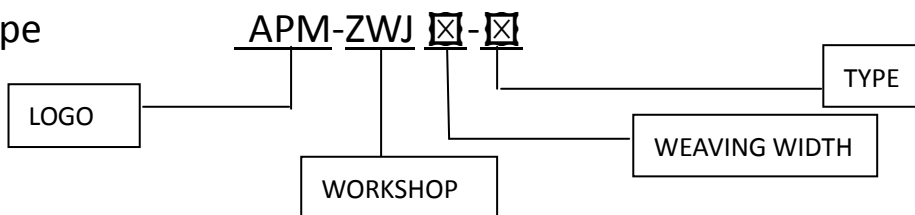


Endless roller 1300QD/1600QD/2000QD



Full PLC 1300QD/1600QD/2000QD

Machine type



HEBEI ZONGHANG MACHINERY MANUFACTURING CO., LTD

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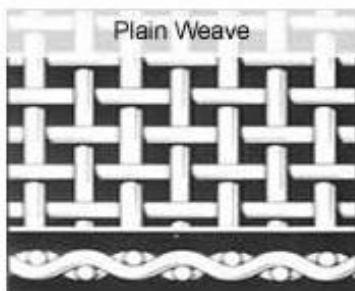
Serves for the production of light metal fine weaving. This model is generally arranged for a weaving range of 8-600mesh per inch square opening if desired can also be provided with changes wheels for adjustment. Furthermore, the production of Hollander cloth to No 2600 is possible by the supply of change wheels for the regulator.

The machine adopts technique of shuttle-less and straightaway weft leading, Automatic warp feeding and winding. Shedding is small, and surface of woven cloth is smooth. So there is not any bright spot, bright trace and other defects on fine cloth. Lower center of the gravity, good stability, low noise and energy consumption, high efficiency.

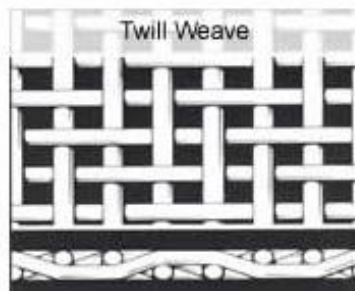
The advantage numerical control wire mesh weaving loom. Through adopting the PLC programmable controlling system and controlling cloth reeling and warp feeding by servo motors. The fabric with 8-600 standard wire diameter can be more accurately weaved. The weaving tension can be automatically adjusted by tension sensor, thereby making higher precision of mesh; the adoption of conjugate cam beating-up loom and rapier transmission mechanism with the tooth profile rapier band can make

the beating-up speed reach 120time/min. improving the efficiency of 30%. The mesh count regulation and cloth surface can realize numerical control with simple and accurate mesh account adjustment; the adoption of the endless cloth reeling method realizes the numerical display function of length of woven cloth which can shorten the auxiliary weaving time. Thereby greatly improving the production efficiency.

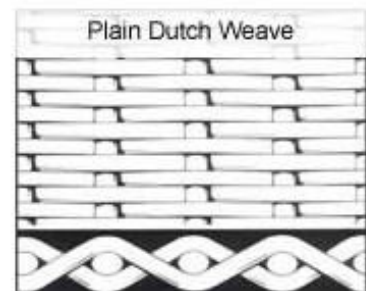
Light metal wire mesh weaving loom of ZWJ series is make with the 1980s world advanced technique. This loom fills the vacancy in metal wire mesh weaving equipment in China and can replace the imports ones. This loom produces plain cloth and by the provision of suitable extra equipment can also make four-shaft and five-shafts twill weavings, mat weavings and taper contrast high density mesh weaving etc. In particular on this loom model ZWJ, filter cloth from stainless steel is produced. Furthermore, however, the loom is very suitable for the production of various of metal wires. The Metal wire mesh woven with the machine are widely used for filtering of liquid or gas and sieving of solid particles in industry, machinery, military industry. spaceflight and etc.



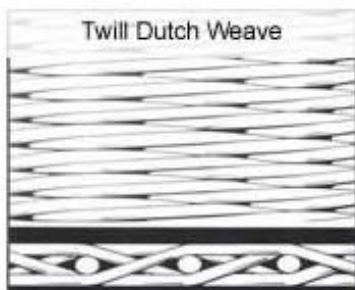
Plain Weave



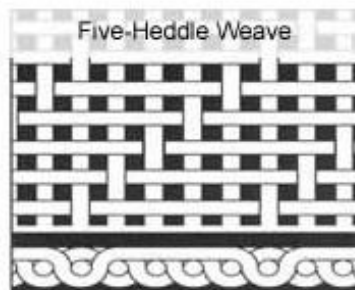
Twill Weave



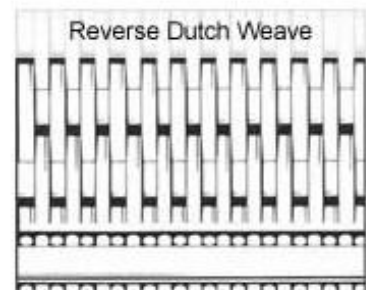
Plain Dutch Weave



Twill Dutch Weave



Five Heddle Weave



Reverse Dutch Weave



Technical Details

Weaving Range: 8 to 600mesh per inch but also special kinds up to 2600mesh by the supply of change wheels for the regulators

Full PLC control equipment is to adjust any mesh freely.

Wire Diameter: up to 0.6mm

For accurate wire diameter range see the chart

Weaving Width: 1000 to 2000mm, with strengthening for still large widths.

Kinds of Weaving: Plain weaving and with extra equipment four-shafts twill. And Special Five-shafts

Wire Material: Iron, stainless steel, spring steel, copper, brass, bronze, aluminum, plastic asbestos.

Picking Speed: adjust freely by the frequency see chart

Drive: by electromagnetic motor making about 950r.p.m. (motor output according to width). Friction clutch with three V-belts **17x11**; if desired equipment with geared flywheel clutch for power return of slay.

Beaming Drive: by chain from main driving clutch

Beaming Speed: about **25m/min (82ft)**

Stopping Devices: on warp and weft, primary connection 220 volts A.C., 50 cycles, secondary 24 volts.

Weaving Reed Measurements:

Overall height: 70mm

Reed slot: 7mm and 10mm with the 1.1mm thickness plate

Maximum reed length: about weaving width +60mm

Heddle Measurements: Hole centre distance: 173 or 200mm. Heddles nos. 2, 4 and 5

Heddle frame Plates: Nos. 2, 4 and 5

Advantage of Design:

Warp and cloth beams of steel tube, with single end drive. But from 1600mm & Q type with double end drive.

Endless cloth beams construction: two PE coating beams and one steel tube can keep the flattening surface of wire mesh and 24hours weaving without any stop.

Gear Wheel Regulator for accurate mesh adjustment on finest and heaviest weaving. However full PLC control is not needed. Servo motor with the reducer control mesh size.

Front and Rear Breast Rolls are adjustable so as to adjust the shed correctly. Equipment of front breast roll with smoothing rail is possible.

Control of Heddle Frames by accurately milled cam segments which can be easily exchanged, where by the shed height can always be adjusted suitably for the rapier being used

Geared Flywheel Clutch for power return of slay can be supplied, if desired. The operation is made from the weaver's position.

Slay Drive by toggle lever system; adjustment for single as well as small one beat; shorter rest of slay as the shuttle-less rapier passes through.

Beat-up of Weft Wire at bottom edge of reed.

Shaft Bearings: all heavily loaded or high speed shafts run in bronze bushes. The driving shaft is provided with ball bearing and the crankshaft with ring lubricator bearings.

Rapier Transmission Mechanism: the Carbon Fiber or Nylon rapier belt with tooth profile rapier band can make the beating-up speed reach 120r/min.

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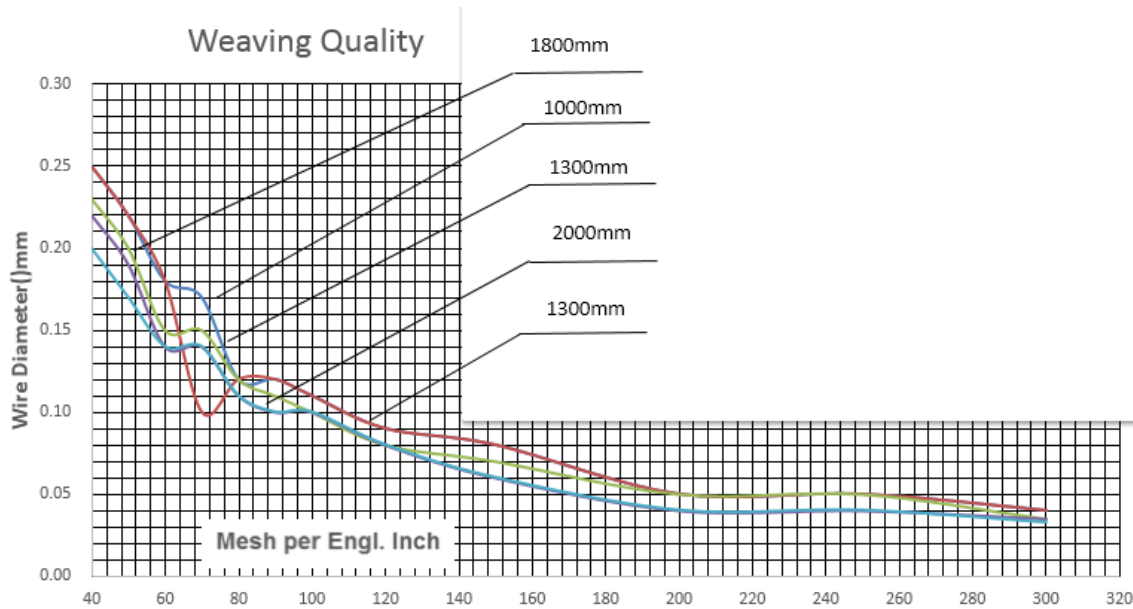
Parameters and configurations

	B type	Full PLC QD type	QD type	Q type	Full PLC Q type
Basic Parameters					
Weaving Mesh Range (mesh)	PW: 40-600 DW: to 2600	PW: 0-600 DW: to 2600	PW: 8-120 DW: to 300	PW: 8-80 DW: to 300	PW: 0-200 DW: to 300
Wire Diameter	<=0.30mm	<=0.35mm	<=0.35mm	<=0.60mm	<=0.60mm
Weaving Width	1000mm 1300mm 1600mm	1000mm 1300mm 1600mm 1800mm 2000mm	1000mm 1300mm 1600mm 1800mm 2000mm	1000mm 1300mm 1600mm	1000mm 1300mm 1600mm
Heddle Frame Number	2 & 4 or 5	2 & 4 or 5	2 & 4 or 5	2&4	2&4
Main drive Motor	2.2/3.0KW	3.0/4.0KW	3.0/4.0KW	3.0KW	3.0KW
Servo Motor	No	Let off: 1.5KW Take-up:3.0KW Rapier: 2.3KW	No	No	Let off: 1.5KW Take-up:3.0KW Rapier: 2.3KW
Weaving Speed	60-90T/min	60-120T/min	60-120T/min	60-90T/min	60-90T/min
Let-off Mechanism	Geared Flywheel Clutch	Servo Motor + Reducer	Worm Gears	Worm Gears or All Gears	Servo Motor + Reducer
Shedding Mechanism	Cam motion or AC Server Dobby				
Rapier	Tooth Profile Band				
Take-up Mechanism	Geared Flywheel Clutch	Servo Motor + Reducer	Worm Gears	All Gears	Servo Motor + Reducer
Weaving Tensile Control	Hanging Weight	Display digitally	Hanging Weight	Hanging Weight	Display digitally
Outside Size (Meter)	2.6*2.8*1.2 2.63*3.2*1.36	2.8*3.1*1.26 2.8*3.4*1.36	2.7*2.8*1.26 2.73*3.2*1.36	2.7*2.8*1.65 2.7*3.2*1.65	2.8*3.1*1.65 2.8*3.4*1.65
Net Body Weight (kg)	3000/3300	3000/3300	3100/3400	3200/3500	3500/3800
Additional Safety Design					
Rapier Movement Limit Protection	N	Y	N	N	Y
Electric Rapier Cam Protection	N	Y	N	N	Y
Let-off Movement Degree Protection	N	Y	N	N	Y
Take-up Movement Degree Protection	N	Y	N	N	Y
DIY Design need to afford the cost accordingly					
Color Choice	Y	Y	Y	Y	Y
Remote Control	N	Y	N	N	Y
Safety Light Curtains	Y	Y	Y	Y	Y
Endless Take-up Cloth	Y	Y	Y	Y	Y
Safety Chain and Air Expansion shaft	Y	Y	Y	Y	Y

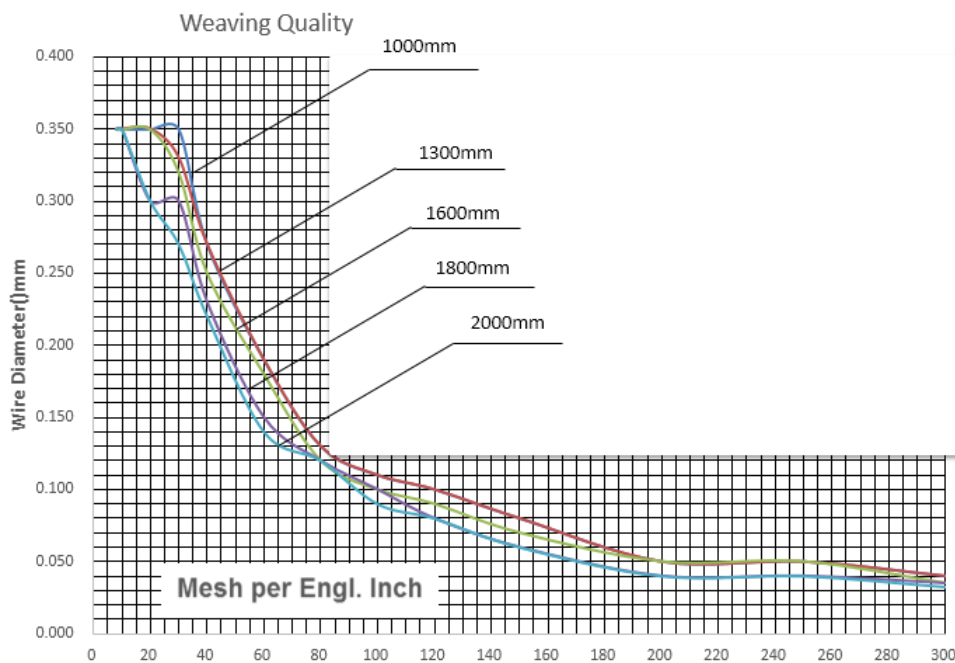
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Machine with the weaving Specification in Plain



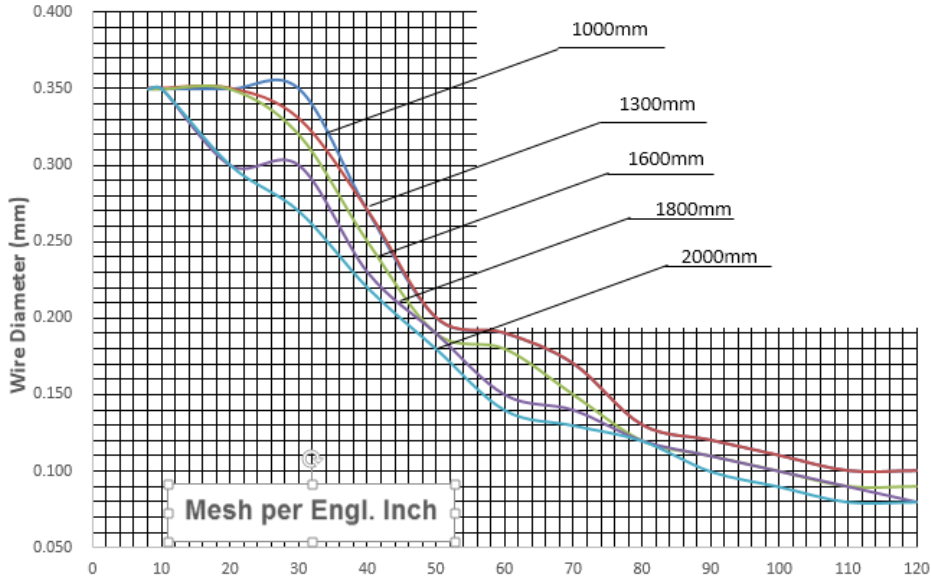
B type	Mesh per Engl. Inch												
Weaving Width	40	50	60	70	80	90	100	120	150	200	250	300	
1000m m	0.25	0.22	0.18	0.17	0.12	0.12	0.110	0.090	0.080	0.050	0.050	0.040	
1300m m	0.25	0.22	0.18	0.10	0.12	0.12	0.110	0.090	0.080	0.050	0.050	0.040	
1600m m	0.23	0.20	0.15	0.15	0.12	0.11	0.100	0.080	0.070	0.050	0.050	0.035	
1800m m	0.22	0.19	0.14	0.14	0.11	0.10	0.100	0.080	0.060	0.040	0.040	0.035	
2000m m	0.20	0.17	0.14	0.14	0.11	0.10	0.100	0.080	0.060	0.040	0.040	0.0325	



Full PLC QD	Mesh per Engl. Inch												
Weaving Width	8	10	20	30	40	60	80	100	120	150	200	250	300
1000m m	0.350	0.350	0.350	0.350	0.270	0.190	0.130	0.110	0.100	0.080	0.050	0.050	0.040
1300m m	0.350	0.350	0.350	0.330	0.270	0.190	0.130	0.110	0.100	0.080	0.050	0.050	0.040
1600m m	0.350	0.350	0.350	0.320	0.250	0.180	0.120	0.100	0.090	0.070	0.050	0.050	0.035
1800m m	0.350	0.350	0.300	0.300	0.230	0.150	0.120	0.100	0.080	0.060	0.040	0.040	0.035
2000m m	0.350	0.350	0.300	0.270	0.220	0.140	0.120	0.090	0.080	0.060	0.040	0.040	0.0325

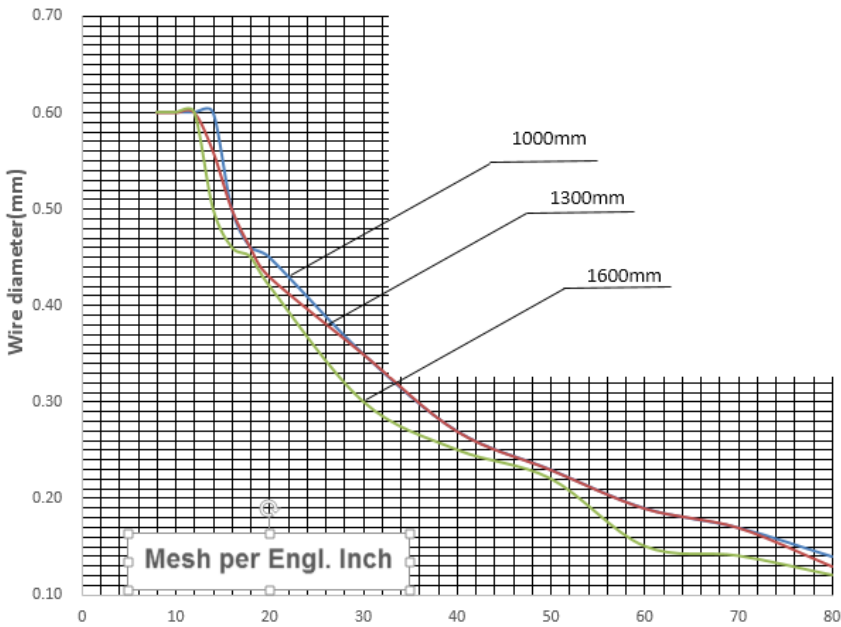
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Weaving Quality



Q D	M e s h p e r E n g l . I n c h												
W e a v i n g W i d t h	8	10	20	30	40	50	60	70	80	90	100	110	120
1000m m	0.350	0.350	0.350	0.350	0.270	0.200	0.190	0.17	0.130	0.120	0.110	0.100	0.100
1300m m	0.350	0.350	0.350	0.330	0.270	0.200	0.190	0.17	0.130	0.120	0.110	0.100	0.100
1600m m	0.350	0.350	0.350	0.320	0.250	0.190	0.180	0.15	0.120	0.110	0.100	0.090	0.090
1800m m	0.350	0.350	0.300	0.300	0.230	0.190	0.150	0.14	0.120	0.110	0.100	0.090	0.080
2000m m	0.350	0.350	0.300	0.270	0.220	0.180	0.140	0.13	0.120	0.100	0.090	0.080	0.080

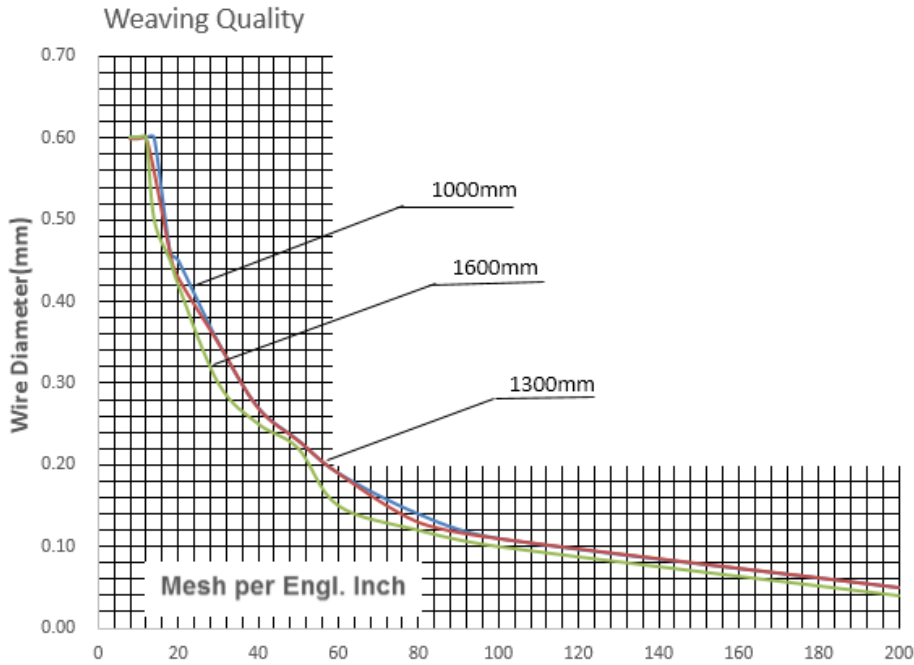
Weaving Quality



Q	M e s h p e r E n g l . I n c h												
W e a v i n g W i d t h	8	10	12	14	16	18	20	30	40	50	60	70	80
1000m m	0.60	0.60	0.60	0.60	0.50	0.46	0.45	0.35	0.27	0.23	0.19	0.17	0.140
1300m m	0.60	0.60	0.60	0.56	0.50	0.46	0.43	0.35	0.27	0.23	0.19	0.17	0.130
1600m m	0.60	0.60	0.60	0.50	0.46	0.45	0.42	0.30	0.25	0.22	0.15	0.14	0.120

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Full PLC Q	Mesh per Engl. Inch												
Weaving Width	8	10	12	14	18	20	30	40	50	60	80	100	200
1000m m	0.60	0.60	0.60	0.60	0.46	0.45	0.35	0.27	0.23	0.19	0.140	0.110	0.050
1300m m	0.60	0.60	0.60	0.56	0.46	0.43	0.35	0.27	0.23	0.19	0.130	0.110	0.050
1600m m	0.60	0.60	0.60	0.50	0.45	0.42	0.30	0.25	0.22	0.15	0.120	0.100	0.040

Valid for plain weaving with square meshes from iron wire up to 60kg/mm²(38t.p.s.i) tensile quality
 For twill weaving the wire size can be increased by 25%

About us

Hebei Zonghang Machinery manufacturing is new name for export and the old name is Jin Jingwei Machinery manufacture which began to operate in 1983 and divided from our Army machinery factory in 1993. We are only professional in weaving wire mesh machine and machine parts with Germany and Japanese technology for over 20years old.

Our main factory located in Shijiazhuang City, the capital of Hebei Province. And 5 branch workshops near the wire mesh market.

Our main machine range: Shuttle-less wire weaving machine, Crimped wire mesh machine, Knitted mesh machine, Welded wire mesh machine, Expanded metal machine, Razor barbed wire machine.

The range of our applications includes very finely woven mesh for the filtration industry including oil industry and plastic chemical industry, food industry, pharmaceutical industry and architecture.

With the good service and high technology quality machine, we got proved and praise from our clients. From 2008 to till now. Our machine are widely exported to India, Egypt, France. Iran, Indonesia. Malaysia. Jordan, Bahrain and Africa etc. 25countries till now.

We aim to set new standards together with our customers and endeavor to make the largest contribution possible in making the world cleaner, safer, more beautiful, and ultimately more worth living in.

Our Brand is APM (advanced productive machine).

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FACTORY SHOW



**If you want to be a manufacturer of industrial mesh,
we are just the partner you are looking for!**

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