



北京荣恩卓立设备技术有限公司

BENING RON-EN MACHINERY & INTEGRATION CO.LTD



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Product Introduction:

The Multiple axes CNC spring machine can be produced (0.2-10.0mm wire diameter). The camless wire spring machine adopts a unique camless and rockerless design, which is independently controlled by multiple sets of servo motors, and each station has a separate servo drive.

The crimping function has a detachable installation function, which has a faster processing speed for corner processing and arc bending. Wire transfer system solves the fact that the entire wire feed of the spring machine can be rotated 360 degrees in the forward and reverse directions during the wire feed process. Achieve Multiple angle forming and cutting, etc., in order to facilitate the completion of the various types of spring samples and production you require.

Wide range of applications: electronics, toys, electrical appliances, sports equipment, cars, tableware, supermarkets stationery, apparatus, instruments, hair ornaments, crafts and so on.

► RN-1026 ◀



Technical Parameters:

Model	RN-1026	Total output power of servo motor	9.45Kw
Wire diameter	0.2-2.5mm	Input voltage	380V
Max Wire Feed instruction value	10000.00mm	Program data storage	More than 2000 pcs
Min Wire Feed instruction value	0.01mm	Pneumatic system (pressure)	5-6KG/cm
Max Wire Feed speed	100 m/min	Pneumatic system (probe)	3pcs
Max Wire Feed length	Infinite length	Machine sizes	1600x1100x1800mm
Axes number	10 axes	Machine weight	1200KG



Technical Parameters:

Model	RN-1045	Total output power of servo motor	16.3Kw
Wire diameter	1.2-4.5mm	Input voltage	380V
Max Wire Feed instruction value	10000.00mm	Program data storage	More than 2000 pcs
Min Wire Feed instruction value	0.01mm	Pneumatic system (pressure)	5-6KG/cm
Max Wire Feed speed	100 m/min	Pneumatic system (probe)	3pcs
Max Wire Feed length	Infinite length	Machine sizes	2100x1100x2100mm
Axles number	10 axles	Machine weight	2100KG

► RN-1245/1250 ◀



Technical Parameters:

Model	RN-1245	RN-1250
Wire diameter	1.2-4.5mm	1.5-5.0mm
Max Wire Feed instruction value	10000.00mm	10000.00mm
Min Wire Feed instruction value	0.01mm	0.01mm
Max Wire Feed speed	80 m/min	100 m/min
Max Wire Feed length	Infinite length	Infinite length
Axes number	12 axes	12 axes
Total output power of servo motor	20.2Kw	28.9Kw
Input voltage	380V	380V
Program data storage	More than 2000 pcs	More than 2000 pcs
Pneumatic system (pressure)	5-6KG/cm	5-6KG/cm
Pneumatic system (probe)	3pcs	3pcs
Machine sizes	2200x2000x2200mm	2200x2300x2100mm
Machine weight	3000KG	3500KG

► RN-1260 ◀



Technical Parameters:

Model	RN-1260	Total output power of servo motor	40Kw
Wire diameter	2.0–6.0mm	Input voltage	380V
Max Wire Feed instruction value	10000.00mm	Program data storage	More than 2000 pcs
Min Wire Feed instruction value	0.01mm	Pneumatic system (pressure)	5–6KG/cm
Max Wire Feed speed	100 m/min	Pneumatic system (probe)	3pcs
Max Wire Feed length	Infinite length	Machine sizes	2450x3000x2300mm
Axles number	12 axles	Machine weight	5300KG

► RN-1280/12100 ◀



Technical Parameters:

Model	RN-1280	RN-12100
Wire diameter	3.0–8.0mm	5.0–10.0mm
Max Wire Feed instruction value	10000.00mm	10000.00mm
Min Wire Feed instruction value	0.01mm	0.01mm
Max Wire Feed speed	100 m/min	80 m/min
Max Wire Feed length	Infinite length	Infinite length
Axles number	12 axles	12 axles
Total output power of servo motor	59.5Kw	67.7Kw
Input voltage	380V	380V
Program data storage	More than 2000 pcs	More than 2000 pcs
Pneumatic system (pressure)	5–6KG/cm	5–6KG/cm
Pneumatic system (probe)	3pcs	3pcs
Machine sizes	2500x3100x2500mm	2500x3100x2500mm
Machine weight	5800KG	7000KG

Product introduction:

Multiple axes CNC spring compression machine can be produced (0.15-12.0mm wire diameter). This machine has the characteristics of traditional mechanical spring compression machine. It is equipped with modern computer-controlled servo system with high speed and accuracy.

The system is equipped with a computer and can store hundreds of work programs. The position of each axis, wire feed information, production speed, production quantity are displayed on the screen, the program information is easy to set and change on the keyboard, the pitch adjustment is convenient and flexible, the outer diameter axis is independent, and can be easily set by the program. Adjust the size of the outer diameter, the compression spring machine can produce any shape of compression spring without adjusting the mechanical part, completely avoid the trouble of replacing the cam piece, adjustment and convenience.

Suitable for all kinds of compression springs, oil seal springs, pagoda springs, wave springs, clockwork spring, and various special-shaped springs, complex and difficult spring, etc.

► RN-8208 ◀



Technical Parameters:	
Model	RN-8208
Wire diameter of coiled material	Φ0.15–φ0.8mm
Max outer diameter of coiled spring	Max φ20mm
Speed	Max 560 pcs/min
Wire Feed instruction value	± 0.01– ± 9999.99
Cam instruction value	± 0.1° – ± 359.9°
Wire feed servo power	0.75KW
Cam servo motor	0.75KW
Power supply	220V ± 10%V50HZ
Size	1000X950X1600mm
Weight	350KG

► RN-8508 ◀



Technical Parameters:

Model	RN-8508
Wire diameter of coiled material	Φ0.15–φ0.8mm
Max outer diameter of coiled spring	Max φ20mm
Speed	Max 560 pcs/min
Wire Feed instruction value	± 0.01– ± 9999.99
Cam instruction value	± 0.1° – ± 359.9°
Cutter servo motor (1)	0.4KW
Cutter servo motor (2)	0.4KW
Pitch axis servo power	0.4KW
Wire feed servo motor	0.75KW
Cam servo motor	0.4KW
Power supply	220V ± 10%V50HZ
Size	1050X950X1600mm
Weight	400KG

► RN-8212/8512 ◀



Technical Parameters:

Model	RN-8212	RN-8512
Wire diameter of coiled material	Φ0.2-φ1.2mm	Φ0.2-φ1.2mm
Max outer diameter of coiled spring	Max φ25 mm	Max φ25mm
Speed	Max 560 pcs/min	Max 560 pcs/min
Wire Feed instruction value	± 0.01- ± 9999.99	± 0.01- ± 9999.99
Cam instruction value	± 0.1° - ± 359.9°	± 0.1° - ± 359.9°
Cutter servo motor (1)	/	0.4KW
Cutter servo motor (2)	/	0.4KW
Pitch axis servo power	/	0.4KW
Wire feed servo motor	1.2KW	1.2KW
Cam servo motor	1.0KW	0.75KW
Power supply	380V ± 10%V50HZ	380V ± 10%V50HZ
Size	1000X1000X1600mm	1050X1000X1600mm
Weight	400KG	450KG

▶ RN-8320/8330 ◀



Technical Parameters:

Model	RN-8320	RN-8330
Wire diameter of coiled material	Φ0.4-Φ2.0mm	Φ1.0-Φ3.0mm
Max outer diameter of coiled spring	Max Φ60mm	Max Φ80 mm
Wire Feed instruction value	± 0.01- ± 9999.99	± 0.01- ± 9999.99
Speed	Max 250 pcs/min	Max 300 pcs/min
Cam instruction value	± 0.1° - ± 359.9°	± 0.1° - ± 359.9°
Wire feed servo power	2.9KW	4.5KW
Cam servo motor	2.9KW	4.5KW
Pitch axis servo power	0.4KW	0.4KW
Power supply	380V ± 10%V50HZ	380V ± 10%V50HZ
Size	1000X1000X1600mm	900X1000X1600mm
weight	400KG	800KG

► RN-8620 ◀



Technical Parameters:

Axles number	6 axles	Cutter servo power (1)	1.0KW
Wire diameter	0.3–2.0mm	Cutter servo power (2)	1.0KW
Max outside diameter	30mm	Wire feed servo power	2.9KW
Max production rate	350 pcs/min	Pitch axis servo power	0.4KW
FeedCylinder probe	2 sets	Power supply	Three phase 380v
Outside diameter servo power (1)	0.75KW	Machine weight	500Kg
Outside diameter servo power (2)	0.75KW	Machine sizes	1300x800x1800mm

► RN-8630 ◀



Technical Parameters:

Axles number	6 axles	Cutter servo power (1)	1.2KW
Wire diameter	1.0–3.0mm	Cutter servo power (2)	1.2KW
Max outside diameter	50mm	Wire feed servo power	4.5KW
Max production rate	230 pcs/min	Pitch axis servo power	0.4KW
FeedCylinder probe	2 sets	Power supply	Three phase 380v
Outside diameter servo power (1)	0.75KW	Machine weight	800Kg
Outside diameter servo power (2)	0.75KW	Machine sizes	1500x1000x1800mm

► RN-8645 ◀



Technical Parameters:

Axles number	6 axles	Cutter servo power (1)	1.2KW
Wire diameter	1.5–4.5mm	Cutter servo power (2)	1.2KW
Max outside diameter	65mm	Wire feed servo power	5.5KW
Max production rate	180 pcs/min	Pitch axis servo power	0.75KW
FeedCylinder probe	2 sets	Power supply	Three phase 380v
Outside diameter servo power (1)	1.5KW	Machine weight	1400Kg
Outside diameter servo power (2)	1.5KW	Machine sizes	1700x1900x1200mm

► RN-8660 ◀



Technical Parameters:

Wire diameter of coiled material	Φ2.0-Φ6.0mm	Outside diameter servo motor	1.5KW
Max outer diameter of coiled spring	MaxΦ120mm	Cutter servo motor	2.7KW
Speed	Max 150 pcs/min	Cutter servo motor	2.7KW
Wire Feed instruction value	± 0.01 - ± 9999.99	Pitch servo motor	1.2KW
Other instruction value	± 0.1° - ± 359.9°	Power supply	380V ± 10%V50HZ
Wire feed servo motor	7.0KW	Size	2100x1250x2100mm
Outside diameter servo motor	1.5KW	Weight	3000KG

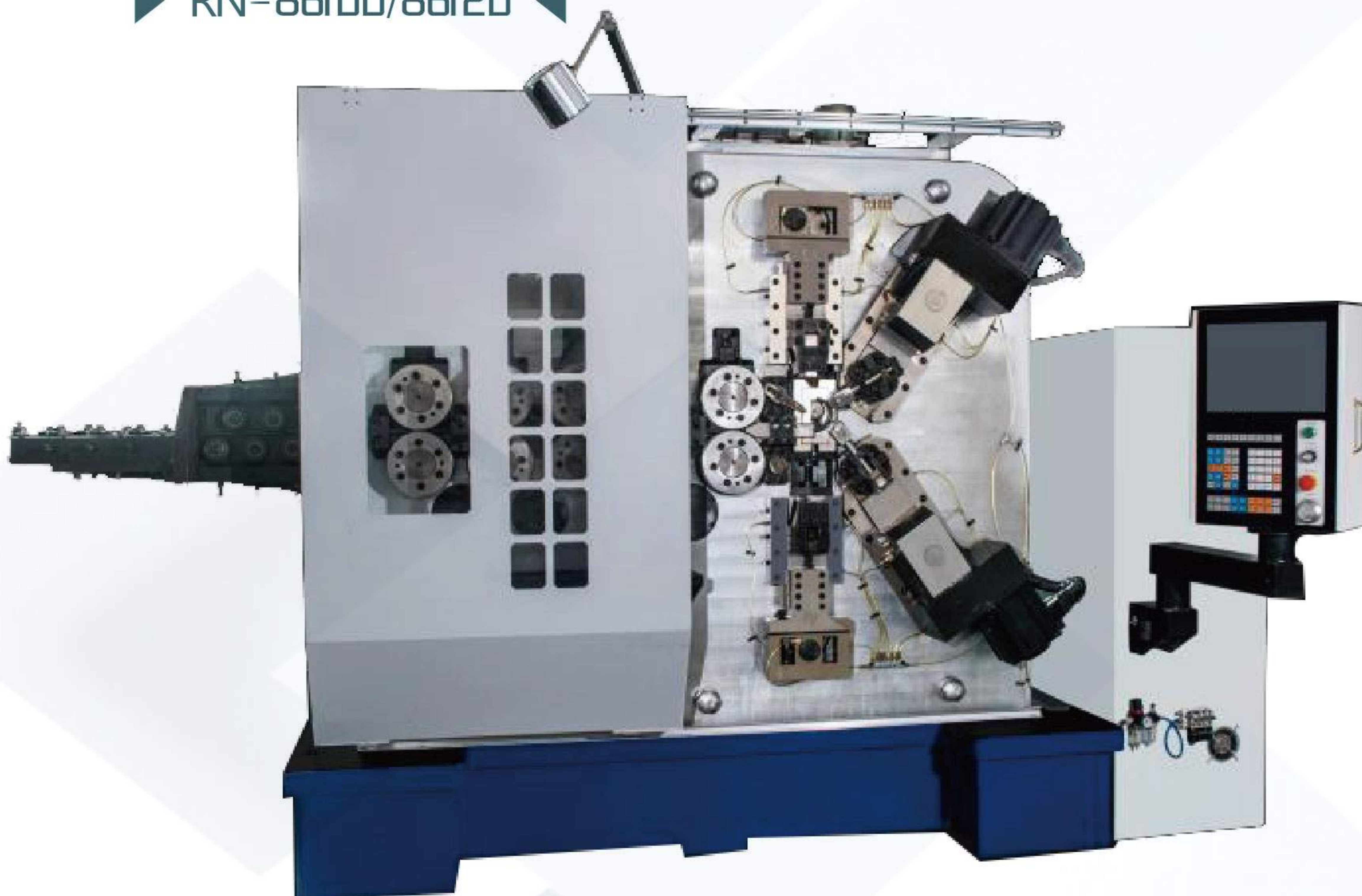
► RN-8680 ◀



Technical Parameters:

Wire diameter of coiled material	$\Phi 3.0-\Phi 8.0\text{mm}$	Outside diameter servo motor	2.7KW
Max outer diameter of coiled spring	Max $\Phi 120\text{mm}$	Cutter servo motor	4.5KW
Speed	Max 150 pcs/min	Cutter servo motor	4.5KW
Wire Feed instruction value	$\pm 0.01-\pm 9999.99$	Pitch servo motor	1.5KW
Other instruction value	$\pm 0.1^{\circ}-\pm 359.9^{\circ}$	Power supply	380V $\pm 10\%$ V50HZ
Wire feed servo motor	15.0KW	Size	2500x1400x2100mm
Outside diameter servo motor	2.7KW	Weight	3500KG

► RN-86100/86120 ◀



Technical Parameters:

Model	RN-86100	RN-86120
Axles number	6 axles	6 axles
Max outside diameter	140mm	140mm
Wire diameter range	3.0-10.0mm	6.0-12.0mm
Max wire feed length	Infinite length	Infinite length
Max wire feed length	150 pcs/min	150 pcs/min
FeedCylinder probe	2 sets	2 sets
Outside diameter servo power (1)	5.5 KW	5.5 KW
Outside diameter servo power (2)	5.5 KW	5.5 KW
Cutter servo power (1)	7.0 KW	11.0 KW
Cutter servo power (2)	7.0 KW	11.0 KW
Wire feed servo power	30 KW	30 KW
Pitch axis servo power	2.9 KW	4.5 KW
Power supply	380V ± 10%V50HZ	380V ± 10%V50HZ
Machine sizes	3000X2500X2200mm	3050X2500X2200mm
Machine weight	5800KG	6200KG



The cam CNC spring machine can be produced (0.2-6.0mm wire diameter). The wire-turning spring machine is continuously developed on the basis of the traditional universal spring machine with cam (eight-jaw spring machine). The conventional three-axis eight-jaw machine has a wire feed shaft. In order to make the formation and processing of springs more convenient and more complicated, the company has developed the curling function and the function of the spinning system.

The crimp function has a detachable installation function, which has a faster processing speed for corner processing and arc bending. The function of the wire transfer system solves the problem that the entire wire feed of the spring machine can be rotated 360 degrees in the forward and reverse directions during the wire feed process.

Multiple angle forming and cutting, also improve the working efficiency of the machine, more convenient debugging, simpler forming, more convenient operation, more powerful functions. Suitable for the production of double torsion springs, straight springs, pagoda springs, tension springs. Rectangular spring wire forming, steel skin vortex spring, spring and various fancy springs, complicated and difficult shaped springs, etc.

► RN-8322/8335 ◀



Technical Parameters:

Model	RN-8322	RN-8335
Wire diameter of coiled material	Φ2.0–Φ2.5mm(iron wire 0.5–Φ3.5mm)	Φ0.5–Φ3.5mm(iron wireΦ1.0–Φ5.0mm)
Max outer diameter of coiled spring	Max φ 60mm	Max φ 80 mm
Wire Feed instruction value	± 0.01– ± 9999.99	± 0.01– ± 9999.99
Max Wire Feed speed	0–110m/min	0–110m/min
Cam instruction value	± 0.1° – ± 359.9°	± 0.1° – ± 359.9°
Cam rotation speed	1–100RPM	1–60RPM
Wire feed servo power	2.7KW	4.5KW
Core-switching servo motor	0.75KW	1.0KW
Cam servo motor	2.7KW	4.5KW
Power supply	380V ± 10%V50HZ	380V ± 10%V50HZ
Size	1500X900X1900mm	1700X1300X2000mm
weight	800KG	1500KG

► RN-8345/8350 ◀



Technical Parameters:

Model	RN-8345	RN-8350
Wire diameter of coiled material	Φ1.0-Φ4.5mm(iron wireΦ1.0-Φ6.0mm)	Φ1.0-Φ5.0mm(iron wireΦ1.0-Φ7.0mm)
Max outer diameter of coiled spring	Max Φ80mm	Max Φ135 mm
Wire Feed instruction value	± 0.01- ± 9999.99	± 0.01- ± 9999.99
Max Wire Feed speed	0-110m/min	0-70m/min
Cam instruction value	± 0.1° - ± 359.9°	± 0.1° - ± 359.9°
Cam rotation speed	1-60RPM	1-60RPM
Wire feed servo power	5.5KW	7.0KW
Core-switching servo motor	1.5KW	1.5KW
Cam servo motor	5.5KW	7.0KW
Power supply	380V ± 10%V50HZ	380V ± 10%V50HZ
Size	1700X1300X2000mm	1900X2200X1400mm
weight	1800KG	1950KG

► RN-8545 ◀



Technical Parameters:

Wire diameter of coiled material	$\Phi 1.5-\Phi 4.5\text{mm}$ (iron wire $\Phi 1.5-\Phi 6.0\text{ mm}$)	Cam servo motor	5.5KW
Max outer diameter of coiled spring	Max $\Phi 110\text{mm}$	Core-switching servo motor	1.5KW
Wire Feed instruction value	$\pm 0.01 - \pm 9999.99$	Wire-switching servo motor	2.9KW
Max Wire Feed speed	0-80m/min	Spinner axis servo motor	1.0KW
Cam instruction value	$\pm 0.1^\circ - \pm 359.9^\circ$	Power supply	380V $\pm 10\%$ V50HZ
Cam rotation speed	1-60RPM	Size	1800x1700x2100mm
Wire feed servo power	5.5KW	Weight	2800KG



The flat wire forming machine 3D or 2D can be produced (2.0-14.0mm wire diameter). This machine adopts a special computer control system for wire forming machine and imported high-precision servo motor. The computer is Chinese-language interface, easy to operate, accurate and accurate. It can store hundreds of processing programs with different specifications, shorten the time for the next debugging, according to the working conditions of the fluorescent screen, you can modify the outer diameter angle of the product at any time. The design of automatic shutdown when the thread is broken or tangled and the automatic acceleration function of the thread stand make the production easier and more effective. Applicable to production: wire forming equipment for car seat suspension springs, sun visor skeletons, car door lock levers, handicraft metal wires, sanitary ware tableware supports, storage cages, shopping trolleys and other wire rods.

► RN-4-80 ◀



Technical Parameters:

Model	RN-4-60	RN-4-80
Wire diameter	Φ 2.0mm-Φ 6.0mm iron wire	Φ 3.0mm-Φ 8.0mm iron wire
Axles number	4 axles	4 axles
Wire Feed length	Infinite	Infinite
Wire Feed speed	100Meter/MIn	100Meter/MIn
Wire Feed instruction value	± 0.01- ± 9999.99	± 0.01- ± 9999.99
Cam instruction value	± 0.1 °-359.9 °	± 0.1 °-359.9 °
Wire feed shaft servo power	2.9KW	2.9KW
Torsion shaft servo power	1.0KW	1.2KW
Lifting platform servo power	0.75KW	0.75KW
Cut shaft servo motor	0.75KW	0.75KW
Machine weight	1200KG	1800KG
Machine sizes	2400x850x1650mm	2750x950x1650mm

► RN-7-60 ◀



Technical Parameters:

Model	RN-7-60	Wire-switching shaft servo power	1.2KW
Wire diameter	Φ 2mm- Φ 6mm iron wire	Torsion shaft servo power	0.75KW
Axles number	7 axles	Lifting platform servo power	0.75KW
Wire feed length	Infinite	Cut shaft servo motor	0.75KW
Wire feed speed	100Meter/MIn	Torsion lifting platform servo power	0.75KW
Wire Feed instruction value	± 0.01- ± 9999.99	Core-switching shaft servo power	1.2KW
Cam instruction value	± 0.1° - ± 359.9°	Machine weight	2000KG
Wire feed shaft servo power	2.7KW	Machine sizes	2900x1900x1700mm

► RN-7-80 ◀



Technical Parameters:

Model	RN-780	RN-7120
Wire diameter	Φ3mm-Φ8mm iron wire	Φ4mm-Φ12mm iron wire
Axles number	7 axles	7 axles
Wire Feed length	Infinite	Infinite
Wire Feed speed	100Meter/MIn	100Meter/MIn
Wire Feed instruction value	± 0.01- ± 9999.99	± 0.01- ± 9999.99
Cam instruction value	± 0.1 °-359.9 °	± 0.1 °-359.9 °
Wire feed shaft servo power	2.7KW	4.5KW
Wire-switching shaft servo power	1.2KW	2.7KW
Torsion shaft servo power	1.2KW	2.7KW
Lifting platform servo power	0.75KW	2.7KW
Cut shaft servo motor	0.75KW	2.7KW
Torsion lifting platform servo power	0.75KW	2.7KW
Core-switching shaft servo power	1.2KW	2.7KW
Machine weight	2800KG	3800KG
Machine sizes	4100x2000x1900mm	4250x2000x1900mm

Automatic material feed frame

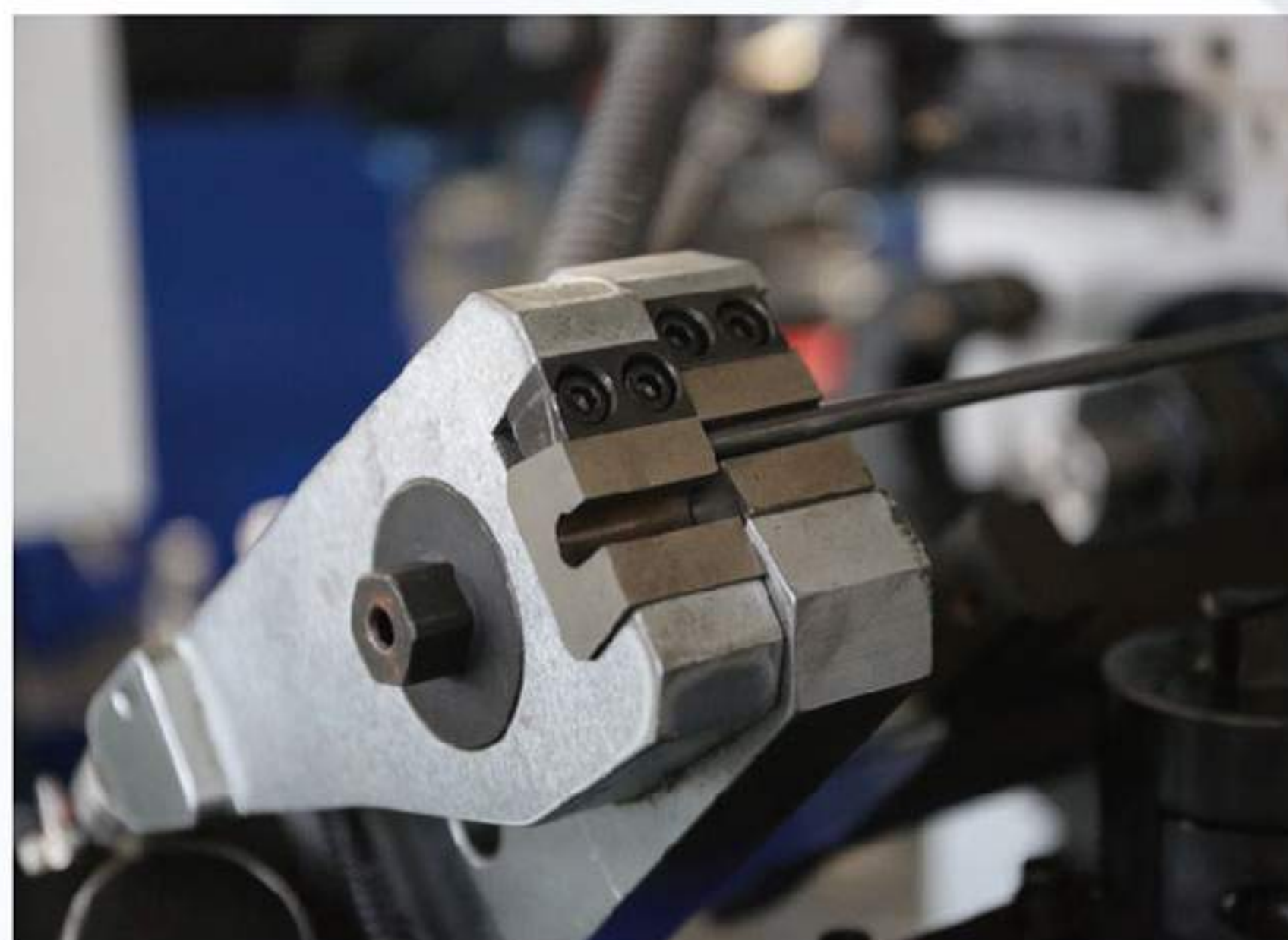


Automatic material feed frame RN-150-350-500-1000
(weight bearing between 150-1000 Kg)



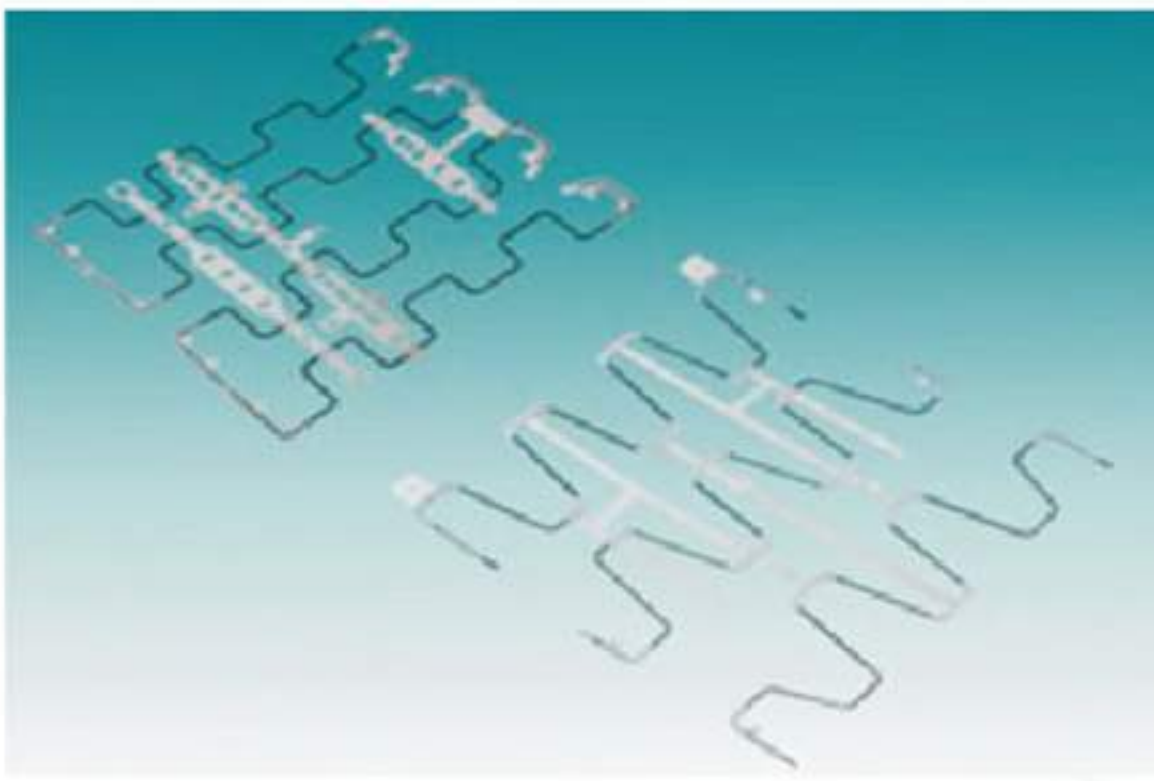
Characteristics: timing, disconnection, (starved feeding), abnormal stops (deviation), automatic alarm stop run, induction control, high safety control compatibility, can use for parallel or serial electric production machinery, to independent or synchronization feeding material.

Spinner axis/ Servo motor cutter axis

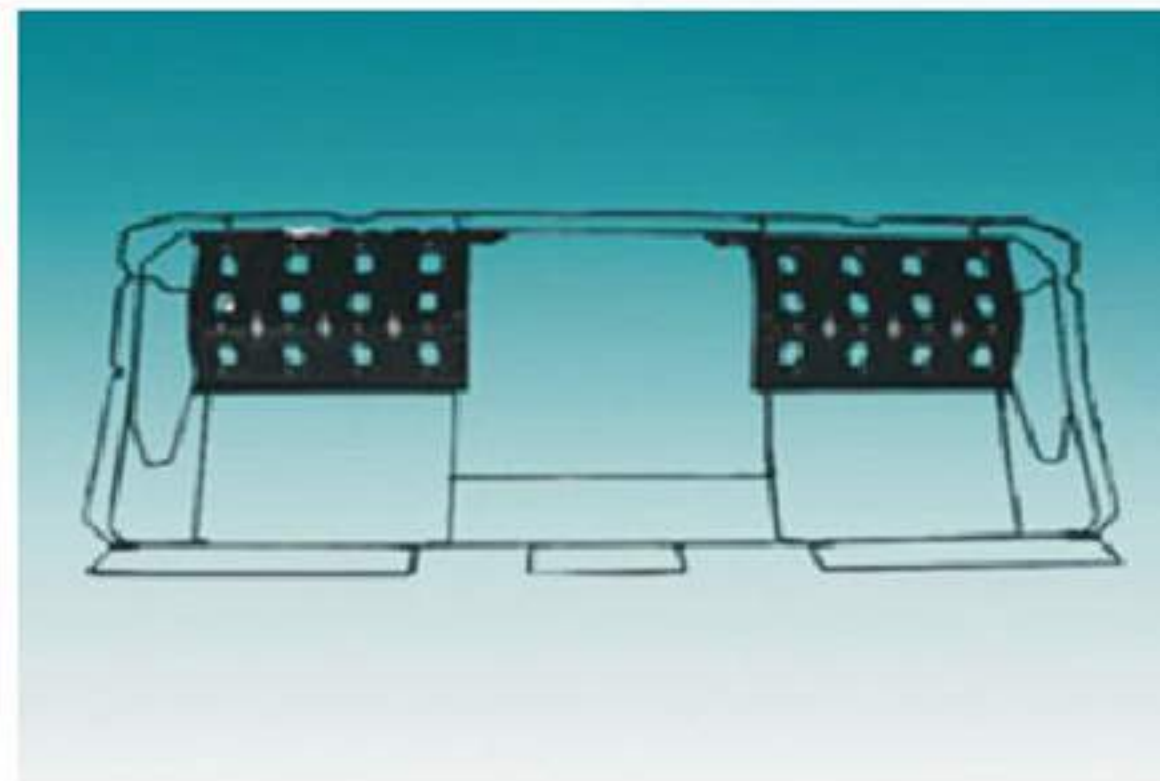


Welcome to choose and buy by telephone

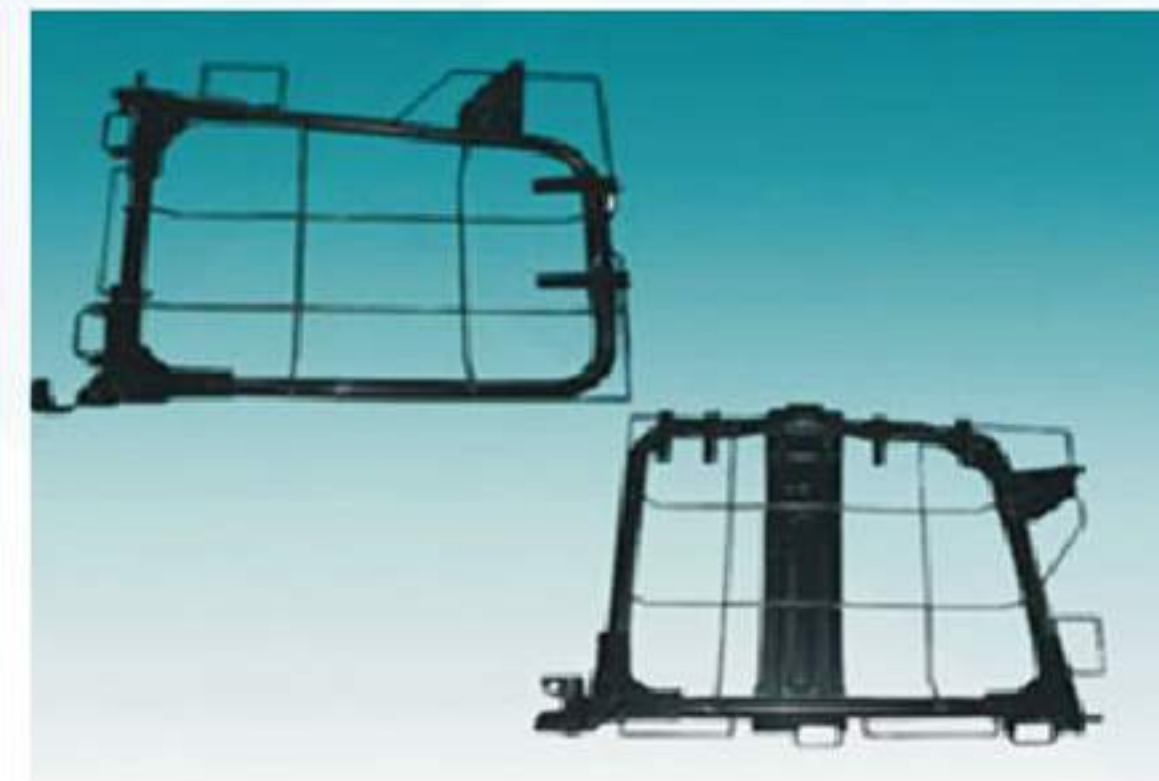
Wire 3D molding machine samples:



cushion steel wire



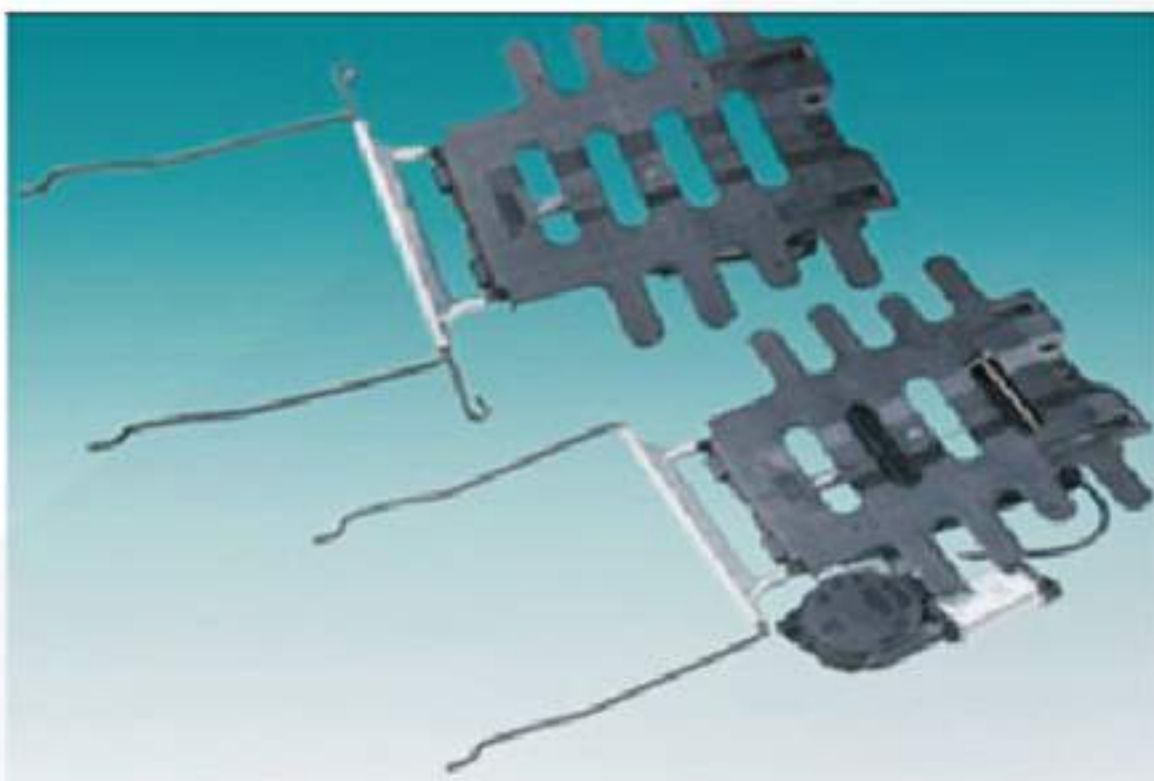
seat cushion frame



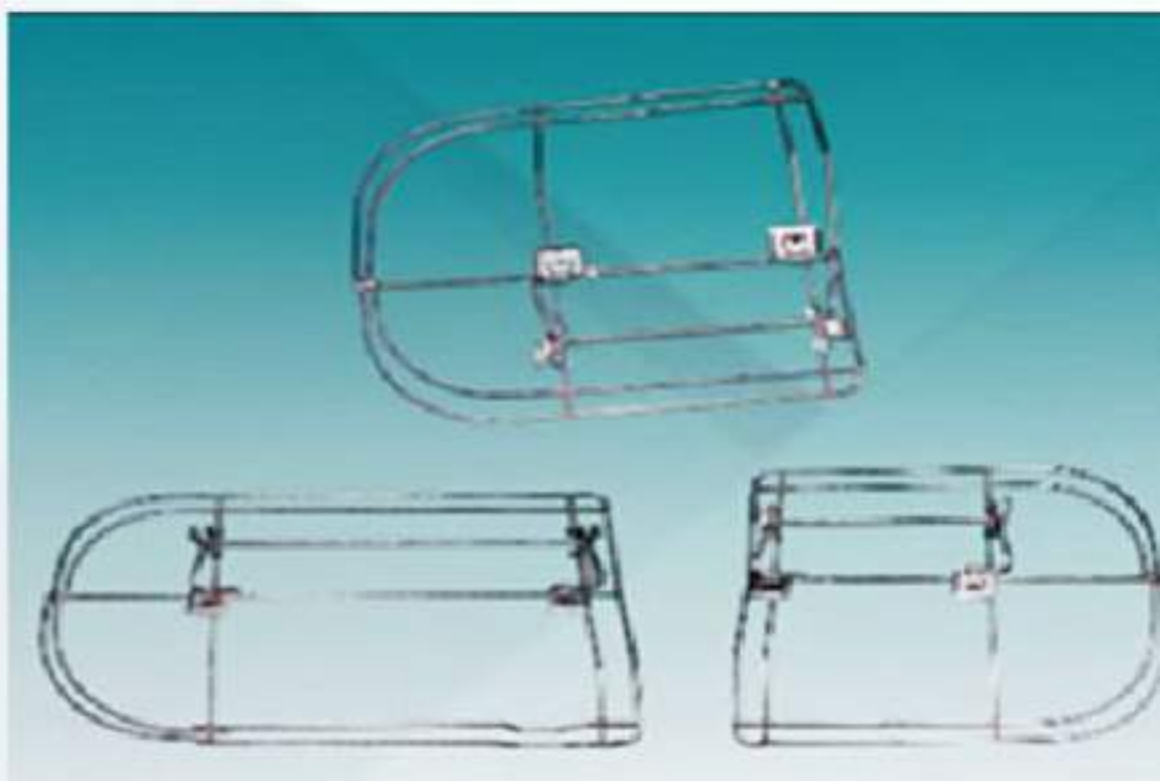
hand holder



car headrest bracket



car seat lumbar support



seat frame



B supermarket shelves



supermarket trolleys

Spring samples

