麦特密封科技
MATE SEALING TECHNOLOGY

苏州麦特密封科技有限公司

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COMPANY PROFILE

公司简介 | COMPANY PROFILE

Suzhou Mate Sealing Technology Co., Ltd. is a metallic gasket machinery and equipment manufacturing and selling company. Our factory locates at Suzhou - a well known city for its Chinese classic garden, south of Jiangsu Province, China. One of most attractive tourism destinations. Approximately 2 hours car driving far from the Shanghai Pudong International Airport, and Shanghai harbor, one of the biggest harbor in China. We have successfully sold our machines and equipment to customers from home and over 30 countries worldwide such as North-America, South-America, Europe, and Asia Pacific and so on.

12 years since Mate fund in 2008, we have been focusing on metallic gasket related machinery and equipments R&D and manufacturing, we have developed a full range of machinery on making metallic gaskets, such as

Spiral wound gasket winding machine;
Kammprofile gasket machine;
Metal jacket machine;
Guide rings grooving machine;
Inner ring beveling machine;
Ring bending & welding machine;
Laser marking machine;
as well as computer controlled gasket performance testing machine.

Our concept is to provide our customers with one-stop procurement and service for all types of metallic gasket related products, parts, and equipment.
“Create value for customer” is our motto. Sincerely hope that Mate can become your business mate helps you grow their business more successfully.
We welcome all customers from abroad and home.

麦特密封科技
MATE SEALING TECHNOLOGY

ENTERPRISE CERTIFICATE

企业证书 | ENTERPRISE CERTIFICATE

EMC CERTIFICATION

ISO CERTIFICATION

CE CERTIFICATION

SOFTWARE REGISTRATION

ENTERPRISE CERTIFICATE

企业证书 | ENTERPRISE CERTIFICATE

江苏省民营科技企业

苏民科企证字 第 20200332052023103103148 号

苏州工业园区麦特自动化技术有限公司

经备案符合《江苏省发展民营科技企业条例》的有关规定，特发此证。

有效期：二〇二〇年十一月至二〇二三年十月

江苏省民营科技企业协会

二〇二〇年十一月

高新技术企业

证书

企业名称：苏州工业园区麦特自动化技术有限公司　　证书编号：GR202032000486

发证时间：2020 年 12 月 2 日　　有 效 期：三年

批准机关：

实用新型专利证书

实用新型专利证书

实用新型专利证书

实用新型专利证书

实用新型专利证书

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实用新型专利证书

MV-01A

Fully automatic winding machine specification

Technical parameter

Type	MV-01A
Machine profile	1295*1270*1680mm
Power supply	3 phase 380 V (Adjustable)
Drive motor	750 W Servo motor
Process control	Fully automatic
Work range	ASME standard 1 1/2"to 6"
Gasket type	Basic type and inner ring type
Standards	All standards
Cycle time	20 seconds for 3" gasket
Change over time	From 5 to 10 minutes
Inner ring loading capacity	160 pieces
Graphite loading capacity	9 pancakes
Welding	Automatic
Gasket ejection	Yes
Parameter setting storage	Memory can save 500 sets of para
Filler break sensor	Yes
Steel former	Yes
Strip feeding and cut off	Automatic
Filler feeding and cut off	Automatic
Strip protection	Optional
Flange width measuring	Yes
Filler control by wraps	Optional
Steel strip spool support	Yes, one charge 15-20 kg

MACHINES MAIN FEATURES

- This is a fully automatic winding machine can make both basic type and inner type of gasket.
- Use PLC programmed process control, and servo motor as driver, precisely control the whole winding process.
- Build in strip former, use flat strip on bobbin, weight capacity 15-20kg.
- Build with a welding robot, make all welding points reliable and even
- Deployed an automatic flange width measuring device, make gasket OD very accurate, and you can choose having a strip tail or welding to the end, e.g without tail of strip.
- 6.With large memory storage, can save over 500 sets of parameter settings for different sizes and press classes. Each type of gaskets will be given a product code, whenever you want to make it, you only need to change the product code, then all parameter settings for this type will be ready to produce, save time from repeative parameter setting.
- Build with steel strip automatic feeding and automatic cutting off.
- Build with graphite tape automatic feeding and automatic cutting off, one charge can load 9 pancakes of graphite tape.
- Build in graphite detector, the machine will automatically stop in any cases such as graphite break or run out.
- The most controlling electronic components such as PLC, relay are all high quality international brands. This gaurantee the machine's relieability and productivity.

MV-01B

Fully automatic winding machine specification

Technical parameter	
Type	MV-01B
Machine profile	1550*2000*1800mm
Power supply	3 phase 380 V
Drive motor	750 W Servo motor
Working mode	Automatic
Work range	ASME standard 1 1/2"to 6"
Standard suitable	Suitable for all standards
Gasket type can make	Basic type and inner ring type
Standards	All standards
Cycle time	20 seconds for 3" gasket
Change over time	From 5 to 10 minutes
Fully automatic process control	Both type
Inner ring loading & unloading	Automatic
Inner ring loading capacity	560 pieces
Gasket ejection	Yes
Parameter setting storage	Save 500 sets
Filler break sensor	Yes
Steel former	Yes
Strip feeding and cut off	Automatic
Filler feeding and cut off	Automatic
Filler load capacity	40 pancakes
Filler pancake shift	Automatic
Strip protection	Yes

Flange width measuring	Yes
Filler control by wraps	Yes
Steel strip spool support	Yes, one charge 15 kg

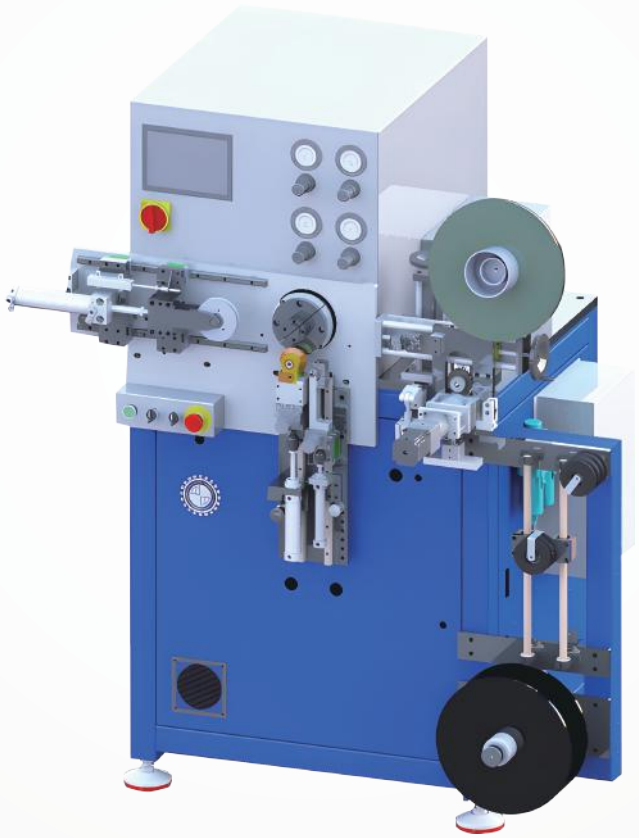
MACHINE MAIN FEATURES

- Deployed with automatic inner ring feeding system, this type of machine can make both basic type and inner type of gasket fully automatically.
- Use PLC programmed process control, and servo motor as driver, precisely control the whole winding process.
- Build in strip former, use flat strip on bobbin with motor driven uncoil.
- Build with a welding robot, make all welding points reliable and even
- Deployed an automatic flange width measuring device, make gasket OD very accurate, and you can choose having a strip tail or welding to the end, e.g without tail of strip.
- With large memory storage, can save over 500 sets of parameter settings for different sizes and press classes. Each type of gaskets will be given a product code, whenever you want to make it, you only need to change the product code, then all parameter settings for this type will be ready to produce, save time from repeative parameter setting.
- Build with steel strip automatic feeding and automatic cutting off.
- Build with graphite tape automatic feeding and automatic cutting off.
- Build in graphite detector, the machine will automatically stop in any cases such as graphite break or run out.
- The most controlling electronic components such as PLC, relay are all high quality international brands. This gaurantee the machine's relieabili-ty and productivity.

MV-01

Vertical Winding Machine

Technical parameter	
Type	MV-01
Machine profile	1500*1000*1550mm
Power supply	3 phase 380 V
Drive motor	750 W
Working mode	Semi-automatic
Work range	ASME standard 1/2"to 10"
Gasket type	Basic & inner ring type
Standards	All standards
Cycle time	20 seconds(3" gasket)
Change over time	From 5 to 10 minutes
Process control	Programmed by PLC
Material feeding	Manual
Welding	Automatic
Gasket ejection	No ejection
Strip tension	Adjustable
Parameter setting capacity	Save 500 sets of para
Filler break control	Yes
Steel former	Pressure adjustable
Steel Auto cut off	Yes
Strip automatic feeding	Yes
Strip automatic cut off	Yes
Flange width measuring	Yes
Steel strip capacity	15 kg
Filler load capacity	6 pancakes



MACHINE MAIN FEATURES

- With automatic steel strip cutter, the machine almost full automatic except strip and graphite feeding, achieve much higher productivity and reliability. Use 4” 150/300 as example, cycle time can reach 20 to 25 seconds.
- Use PLC control, up to 500 sets of parameters can be saved into the machine, so operator can easily select the product type, then start the production right way, save lots of time from setting the parameters each time.
- Provides both English and Chinese, we can also provide other language version as per customers’ request.
- Wire forming and winding synchronize, save one step of wire pre-forming compare to the old generation of machine. Furthermore, one charge can load 15-20 kg of wire, saves lots of material change over time.
- Automatic welding saves great deal of working time, moreover, makes welding points strong and reliable, and welding span even.
- Configured filler material break sensor, machine automatically stop when the filler breaks or run out, allows you connect the filler and run the rest of process.
- Automatic dimensional control, make OD variation very small, +/-0.2 mm tolerance, so it significantly improves the assembly efficiency.
- Successfully use man-machine engineering principle, layout all often use operation within arm-reach area, easy operator’s work.
- Good compatibility, one machine can make 1/2”to 12” sizes, both types of gasket with and without inner ring, and good flexibility to make different thickness of gasket by changing few spare parts.
- Strip feeding system built-in a buffering mechanism, which easies the tension of the strip.

MH-02

Horizontal winding machine

Technical parameter	
Type	MH-02
Machine profile	4000*3500*1100mm
Voltage	3 phase 380 V
Drive motor	1.1 KW
Driving power	Variable frenquency motor
Working mode	Semi automatic
Size	10" up to 150"
Filler Material	Multiple filler material
Gaskets type	Basic and inner ring type
Standards	All standards
Cycle time	6-8 minutes for a 24" gasket

Technical parameter	
Change over time	5 to 15 minutes
Process control	Programmed by PLC
Material feed and cut off	Manually
Automatic Welder	Yes
Filler break sensor	Yes
Steel form assistant	Yes
Steel former	Yes
Flange width measuring	Yes
Steel spool support	Load up to 15 kg strip
Filler Plate support	Load over 6-8 pancakes

MACHINE MAIN FEATURES

- This machine is specially designed to wind big size of gaskets (10" to 120") it can make both basic type (without inner ring) and inner ring type of gasket.
- Automatic welding saves great deal of working time, moreover, makes welding points strong, reliable, and even.
- PLC programmed process control make production more efficient.
- Deployed filler material break sensor, machine will stop in case the filler break or run out.
- One charge can load 15 to 20 kg wire, saves a lot of working time, especially on making big size gaskets.
- Deployed with strip forming assistant, which helps easy tension of strip during winding process, make sure gasket perfect flat, it play an important role espacially as making wide flange gasket.
- Build in strip former, use flat steel strip, one charge can load 15-20 kg of strip, saves lots of material change over time.

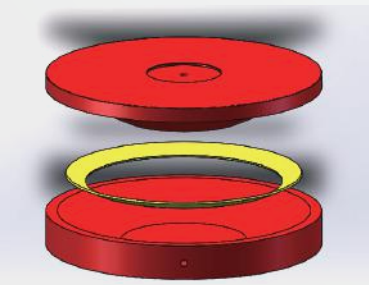
MGA-20

Guide ring assembly machine

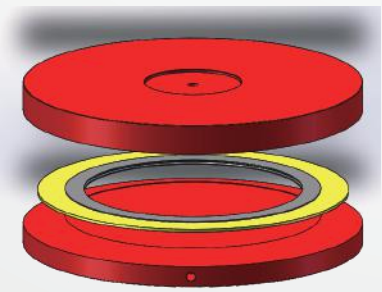
Technical parameter	
Type	MGA-20
Profile（L*W*H)	1060*900*1500mm
Net weight	740KG
Motor power	4KW
Voltage	380V
Size scale	1/2"– 8"
Volum count	Yes
Compress	Hydraulic power pack
Maximum pressure	11 T
Circle time	5-10 Seconds
Safe protection	Double switch
Guide light	Optional
Material suited	CS/SS
Hydraulic oil	ISO VG32 or above

MACHINE MAIN FEATURES

- Machine basically is hydraulic press with two work stations, one station make guide ring deform into cone shape, let winding element fit in, then the second station press guide ring back to flat, guide ring assembled, 2-step process, very simple to operate, it needs no skills for operators.
- Deployed with multiple deforming mold and single flatten mold, with quick change design, save set up time and change over time, flatten mold suitable for both basic type and inner ring type.
- With double safe protection, double switch and guard light (optional as per customer's request, well protect operator.
- Hydraulic power pack provide maximum pressure up to 50 tons, can assembly sizes from ½" up to 8", cover all big volume items.
- Durable machine with simply and easy maintenance requirements.
- Build in digital counter, record production volume.



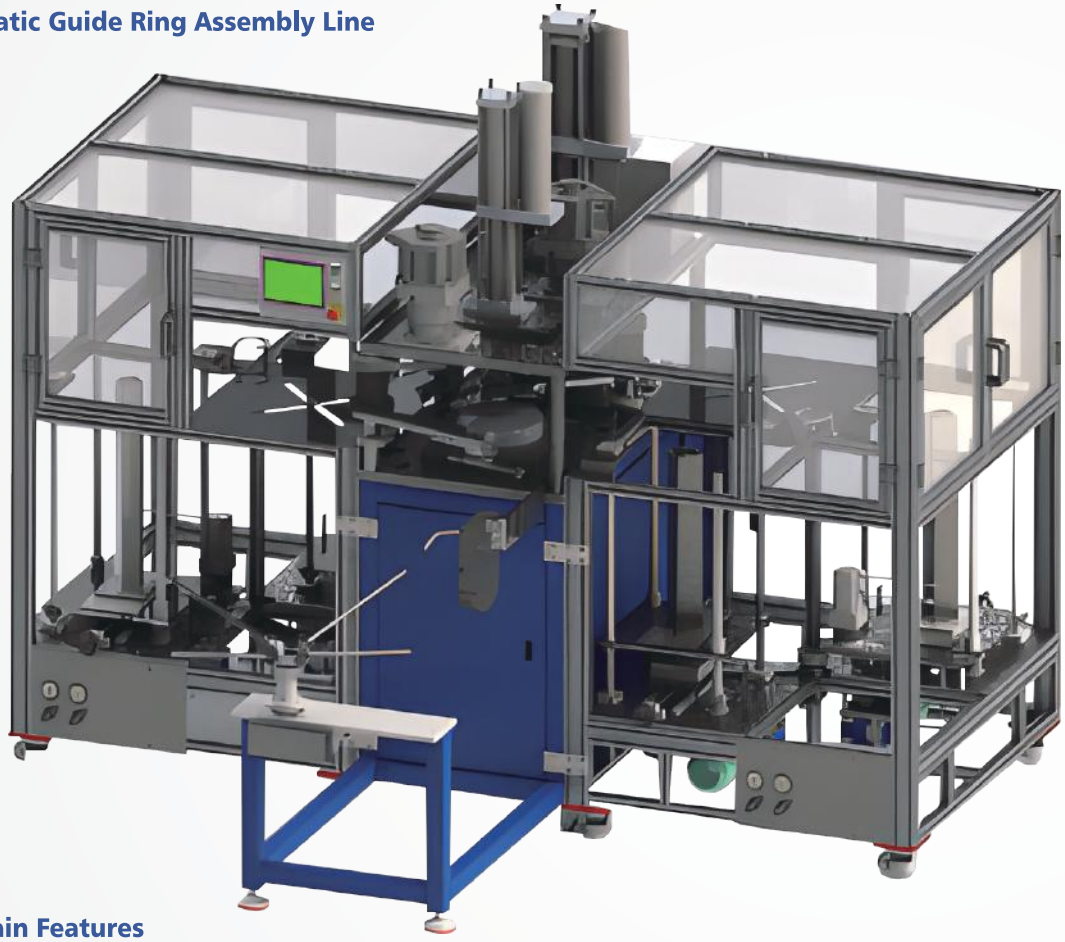
DEFORM DIE



FLATTEN DIE

MGA-20A

Fully Automatic Guide Ring Assembly Line



MGA-20A Main Features

- This line is a fully automatic guide ring assembly machine, consist of 4 major parts, guide ring supply system, winding element supply system, automatic assembly system as well as gasket unloading system, controlled by PLC.
- Each supply system have two storages, one is under supplying, meanwhile another one can be reloading, so this line can run constantly run without stop for reload; and the gasket unloading system have 4 bars to hang the gasket, as soon as one is full system will automatically switch to the next one, so operator can collect the gasket without stop the machine.
- Winding elements supply system also quick measuring device, it automatically measure and judge the diameter fit or not.
- Deployed 2 double arm picking robots and 2 single arm picking robots make cycle time less than 10 seconds.
- Special designed quick changing mold, reduce set up time and change over time.
- Use pressurized oil air cylinder provide pressure up to 10 tons, can assembly sizes from ½" up to 8" 150, cover all big volume items.
- Durable assembly line with simply and easy maintenance requirements.

Technical parameter	
Type	MGA-20A
Profile（L*W*H)	2950*2640*2400mm
Net weight	1240KG
Voltage	380V
Size scale	1/2"– 8"
Suitable for all standards	Yes
Process control	PLC program
Work mode	Fully automatic
Compress	Pressurized oil-air cylinder
Maximum pressure	10 T
Circle time	Less than 16 Seconds
Guide ring load capacity	350 Pieces
Winding element load capacity	280 Pieces
Material suited	CS/SS
Pressed air supply	0.5-0.8 MPs

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MK-03

Kammprofile machine

Technical parameter	
Type	MK-03
Machine Profile	4250*3700*1500mm
Weight	660 KG
Power supply	4.5 KW
Voltage	380V,variable
Process control	Numberical control system like CNC
Servo motor	Servo motor control cutting
Size range	450mm - 3500mm
Material allowed	Stainless steel, Carbon steel, Alloy
Thickness	3mm-5mm
Flange width maximum	60mm

Technical parameter	
Profile	Wide variety of profiles
Cycle time	5 minutes for size 24'
Setup or size change time	2-10 minutes
Ring load & Unload	Manually
Grooving process	One by one, start from the OD to ID
Groove and Chemferring	Yes
Turning speed	80-120 m/minute,adjustable
Driving mode	Two driving wheels
Cooling mode	Vortex Cooler
Air Consumption	0.8 m^3/minute
Electronic wheel control	Yes

MACHINE MAIN FEATURES

- This machine is specially designed to make all types of large sizes of kammprofile gasket, from 16” up to 3500mm diameter; It also can do guide ring grooving and inner ring chamfering easily.
- Very high productivity, use 24” 20mm flange width kammprofile as example, cycle time is less than 8 minutes for both sides’ kammprofile processing.
- CNC process controlled, with servo motor driven cutter, make very precise and quality kammprofile gasket.
- Deployed with vortec air cooling device, it cooling down the cut insert, meanwhile helps blowing away the scrap during process.
- Most common programs are pre-installed in the machine, user can alse use G code make other program to do different job, and program can be saved in the memory of machine, so the operator can quick set by selecting a program code.

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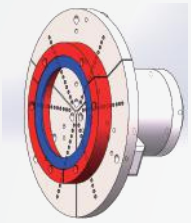
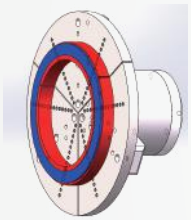
MK-03S

Small Kammprofile machine



FIXTURE FOR GROOVE



FIXTURE FOR
KAMMPROFILE & CHAMFER

Technical parameter	
Type	MK-03S
Profile	1600*900*1700mm
Weight	560 KG
Power	4.5 KW
Voltage	380V Adjustable
Process control	Numberical control system
Servo motor	Yes
Work range	1/2"-18"
Material suited	CS SS, Alloy
Thickness scale	3-5mm

Technical parameter	
Max Flange width	60mm
Work height	930mm +/-50mm
Kammprofile type	All types of Kammprofile
One side CT	3-5 minutes
Setup time	2 to 5 minutes
Load & Unload	Manual
Process	Side by side
Linar speed	80 - 120 m/minute
Cooling	Vortec air cooler
Electronic wheel control	Yes

MACHINE MAIN FEATURES

- MK-03S is a special designed machine for making small sizes of kammprofile gasket, work range cover from 1/2” to 18”, work mode is basically like a CNC lathe;
- With Numeric control system make process fully automatic except ring loading and unloading;
- It can make all types of kammprofile, work with our MK-03 Kammprofile machine, users can make all types and full sizes range of kammprofile gasket;
- Use vortex air cooling to cool down cut insert.
- Deployed with a pneumatic jaw, the operator can load and unload ring quickly.
- Deployed couple of horizontal press rollers, which is very useful when you process 200mm - 450mm diameter rings, horizontal press rollers can eliminate the ring’s deformation, therefore ensure the kammprofile quality.

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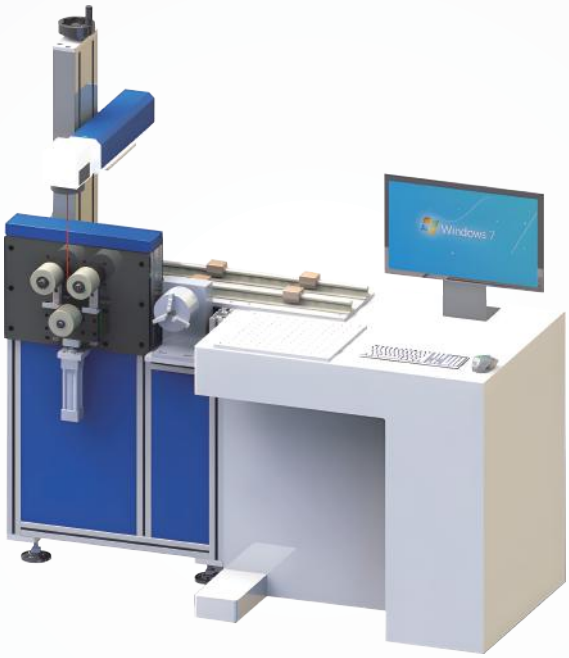
MLM-0420A / B

Automatic laser marking machine

MLM-0420A



MLM-0420B

Technical parameter A / B	
Type	MLM-0420A/B
Profile	1240*1180*1355mm / 1400*600*1500mm
Weight	81 KG / 160 KG
Power	≤20 W
Wave length	1064nm
Laser Beam M2	＜1.8mm
Frequency Q	20kHz-200kHz
Mark scope	110x110mm
On cylinder surface	---------- / Yes, 1/2"-48"

Technical parameter A / B	
Optional scope	150x150mm
Mark depth	≤0.3mm
Overall power	800W
Min line width	0.01mm
Repeatability	0.001mm
Power supply	Single phase 220V 50Hz 10A
Marking speed	800mm/s(Single line 1mm hight)
Material suitable	All kinds of material

MACHINE MAIN FEATURES

- A type is a basic type, it can only mark on flat surface, while B type can mark on both flat surface and cylinder surface.
- Work mode semi-automatic, operator only need to feed parts on and take off after precess finished;
- Equipped with fiber laser source with 100,000 working hours;
- Very economic and cost effective for using， and very easy to learn and operate;
- Compact size, suitable for online marking, or fit into your process;
- Widely used for hardware, gaskets and seals, PCB, electronic parts, chips, auto parts, steel strips, bearings, lead frame and plastics material marking etc;

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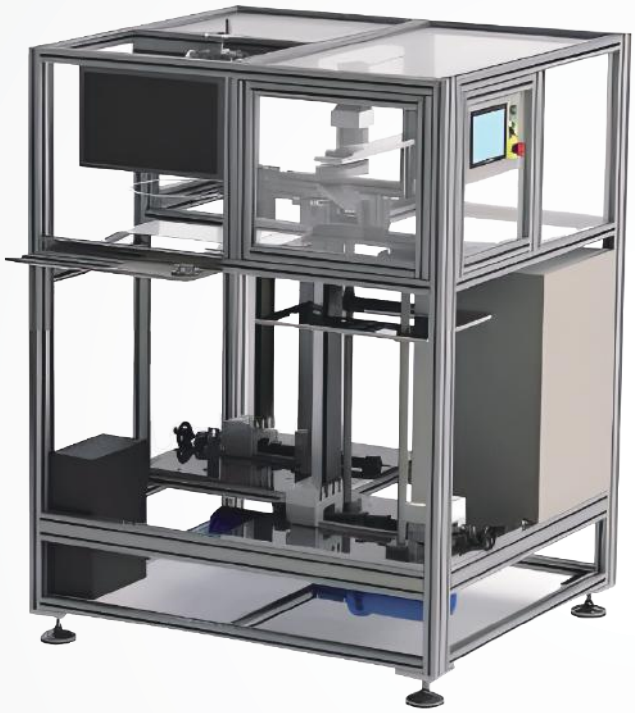
MLM-0430F

Fully Automatic Guide Ring Assembly Line



MLM-0430F Fully Automatic Laser Marking Machine Features

- 1 Deployed with two load stations, Max load 350 pieces in one process. Robot will automatically switch to another station once the first station run out;
- 2 Work mode fully automatic, cycle time is around 10 seconds very productive;
- 3 Equipped with fiber laser source with 100,000 working hours;
- 4 Very economic and cost effective, and very easy to learn and operate;
- 5 Widely used for hardware, gaskets and seals, PCB, electronic parts, chips, auto parts,
  steel strips, bearings, lead frame and plastics marking, etc.

Technical parameter	
Type	MLM-0430F
Profile (L*W*H)	1140*1128*1648mm
Weight	400 KG
Laser Power	30W
Wave length	1064nm
Laser Beam M2	＜1.8mm
Frequency Q	20kHz-200kHz
Mark scope	110x110mm
Optional scope	150x150mm
Mark depth	≤0.3mm
Overall power	800W
Min line width	0.01mm
Repeatability	0.001mm
Power supply	Single phase 220V 50Hz 10A
Marking speed	800mm/s (Single line 1mm hight)
Cooling system	Air cooling & blow dust
Size range	All sizes
Material Suitable	CS and SS

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MCT-0530

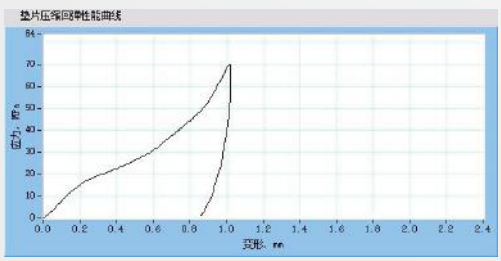
Gasket performance test machine

Technical parameter	
Type	MCT-0530
Press	1050*640*1630mm
Power Pack	990*640*1020mm
Control Cabinet	1560*665*1760mm
Press	1550KG
Power Pack	260KG
Control Cabinet	185KG
Compression rate	Yes
Resilient rate	Yes
Leakage rate	Yes

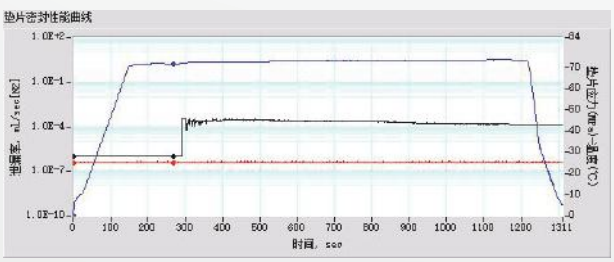
Technical parameter	
Leakage rate Accuracy	0.30%
Motor Power	7.5 KW
Voltage	380V(Adjustable)
Size range	1/2'-4'
Thickness	2 – 5 mm
Gasket type	Wide Verieties
Loading speed	5 – 45 mm/s
Pressure	0-60000 LBS
Gas pressure	N2 15MPa
Accuracy	+/-0.1%

MACHINE MAIN FEATURES

- This is gasket performance test machine it can test up to 17 different types of gaskets including spiral wound gasket, non-asbestas gasket, kammprofile gasket, double jacket, rubber gasket etc. This machine can do gasket performance test such as compression rate, recovery rate as well as gasket's leakage rate under ambient temperature and given temperature;
- Test out varieties of gasket's leakage rate under ambient temperature.
- Test process is fully automatic, will generate and save the test report and experiential curve and chart.
- Power pack, use hydraulic power pack as drive force, which can provides maximum 60,000 LBS pressure.



COMPRESSION & RECOVERY



LEAKAGE TEST

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MW-18

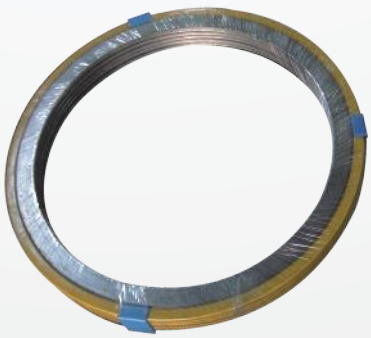
Gasket wrapping machine

Technical parameter	
Type	MW-18
Profile	2050*1500*1300mm
Net weight	200KG
Power Supply	1KW
Voltage	380V
Size scale	4"– 60"

Technical parameter	
Film thickness	0.1 mm
Film Width	50 mm
Mix Film Roller OD	70 mm
Film winding speed	25 mm/s
Process control	Automatic
Spacer feerding	Automatic

MACHINE MAIN FEATURES

- PLC programmed process control, make gasket wrapping much quicker than hand work, it is a very productive machine, roughly about 3-5 times quicker than hand wrapping.
- Work mode semi-automatic, operator load the gaskets, then machine do all rest of work, then cut off film and take off the gasket;
- Deployed with automatic spacer feeding system, user can programming how many spacers you want to put on gaskets, machine will automatically allowcate spacers around the gaskets.



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MATE SEALING TECHNOLOGY

MGM-28

Graphite moulding machine

Technical parameter	
Type	MGM-28
Profile(L*W*H)	1250*1000*2000mm
Net weight	820KG
Work mode	Fully automatic
Controlling	PLC Programmed process control
Max pressure	11T
Power supply	5KW
Voltage	3 Phase 380V
Max OD	100 mm
Min ID	14mm
Max Graphite width	40mm
Weight accuracy	0.50%
Density adjustable	automatic
Automatic sorting	Yes

MACHINE MAIN FEATURES

- MGM-28 machine is a special design for high volume graphite ring die moulding production.
- Deployed with high precision weighting system, the machine can automatically weight the ring and feedback to PLC, therefore automatically adjust the length of the graphite strip to achieve the same weight.
- A graphite feeding device that corrugates and feeds the graphite strip till the winding device. The corrugation process is performed to make graphite strip more flexible, therefore avoid the graphite breaking during the winding stage.
- Work mode, fully automatic, the operator only need load the graphite pancake when it run out.
- Die easy change design make changing over quick and easy.

PROCESS MAP

- Corrugate and feed the graphite strip to winding device
- Wind the graphite strip.
- Cutting off the strip.
- Wind the tail of the strip.
- Up die press down, and move up,
- Eject finished ring up,
- Transfer ring to weighting system.
- Ejector going down and ready for next winding
- Measure weight and judge good or no good, then transfer to relative outlet

Mould Sub-Assembly

Mould set consist of following parts

1. Up mould
2. Outer mould
3. Outer mould base
4. Down mould
5. Down mould base
6. Ejection pin
7. Ejection pin base
8. Cross bridge

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MATE SEALING TECHNOLOGY

MDJ-23

Double jacket machine

Technical parameter	
Type	MDJ-23
Machine profile	2200*750*1720mm
Max occupation	2200*700mm
Net weight	350KG
Power supply	2.2 KW
Drive motor	2*1.1 KW
Voltage	380V
Work mode	Semi-automatic
Bending capability	Yes
Max Thickness	4 mm
Line Speed	0-200 mm/s
Material suited	SS & Alloy
Min Size can bend for 25mm width	900 mm Dia
Min Size can bend for 20mm width	800 mm Dia
Min Size can bend for 16mm width	600 mm Dia
Min Size can bend for 13mm width	200 mm Dia
Min Size can bend for 10mm width	150 mm Dia

MACHINE MAIN FEATURES

- This Machine is specially designed for making double jacket gasket, it can make the straight double jacket bar and bend to ring in one process.
- Significantly improve the productivity and material utilization compare with the old process.
- With this machine hand, you can make all customized size of double jacket gasket, and all types of double jacket gaskets.

MDJ-23S

Small double jacket machine

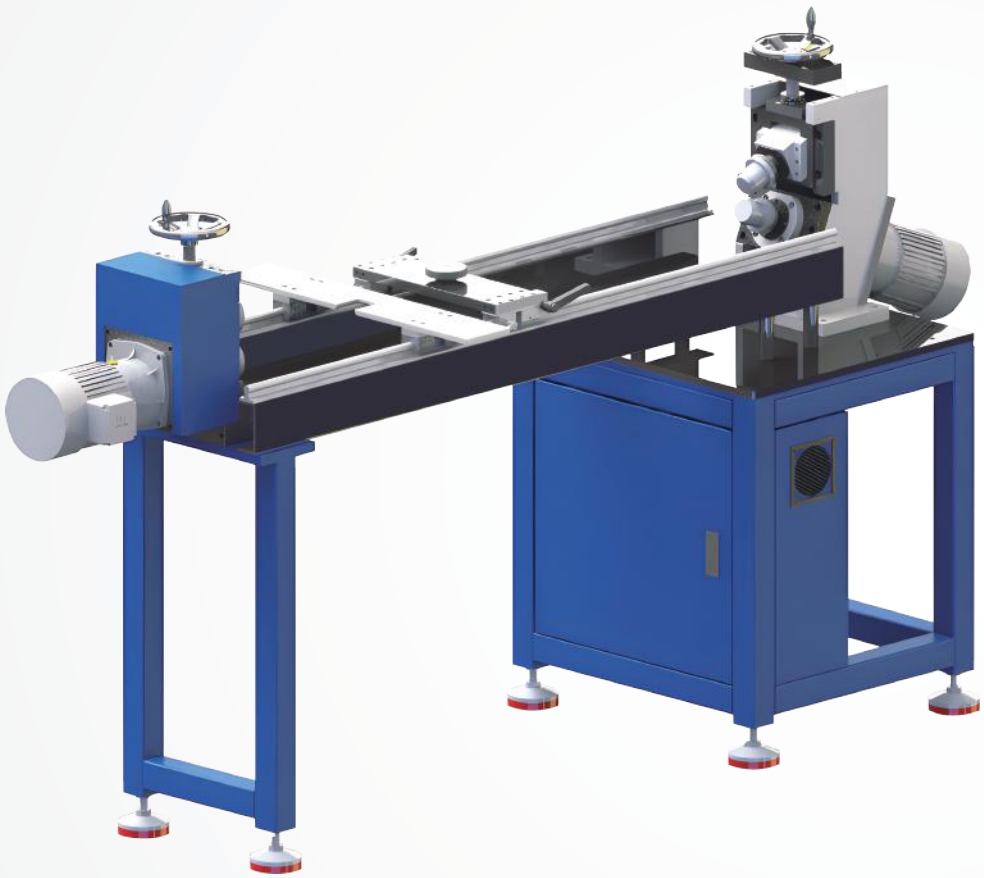
Technical parameter	
Type	MDJ-23S
Machine profile (L*W*H)	1550*500*1200mm
Net weight	320KG
Power supply	0.75 KW
Drive motor	0.75 KW
Voltage	380V
Work mode	Semi-automatic
Ring Size	10"-3500 mm
Max Thickness	0.8 mm
Line Speed	0-200 mm/s
Material suited	SS & Alloy

MACHINE MAIN FEATURES

- Small Double Jacket Machine is special designed for making small sizes of double jacket gasket
- Small size normally can not be bended due to softness, so small sizes are made from ring cut off by laser or plasma cut machine, then make U shape, then fill in graphite strips, and close both edges.
- This machine can do such job, make U shape, and close the both edges by two step process.

MCG-11

Corrugated washer



Machine Main Features

- Machine is specially designed for making the metal corrugation gasket, with two work stations at both end of the machine; One is for forming corrugation, another is for circular cut. Two stations lined up with a rail, metal sheet will be loaded on the travel head between two stations, which can travel from one side to another.
- Process control is manual, but very easy to operate. 3 steps process only,

  1 prepare a round metal sheet, load on the central hole of travel head;

  2 form corrugation at one station first;

  3 travel to circular cut station for inside circular cut.
- Machine is designed heavy duty, very durable, corrugation forming rollers and cutter are all made by tooling steel with heat treated to HRC 60, can last very long time.

Technical parameter	
Type	MCG-11
Machine profile	1640*710*1400
Net weight	340KG
Power supply	2.2 KW
Drive motor	2*1.1KW
Voltage	380V 3 phase (Adjustable)
Work mode	Semi-automatic
Max Thickness	0.8mm
Ring Size	10"-1500 mm
Material suited	SS & Alloy

MRB-08A

Automatic bending machine

Technical parameter	
Type	MRB-08A
Machine Profile	1900*1100*1420 mm
Power Supply	380 V 50 HZ
Drive Motor	3.7 KW
Main Shaft RPM	36 RPM
Linary Speed	0-200 mm/s
PLC Controlled	Yes
Bending Wheel Diameter	120 mm

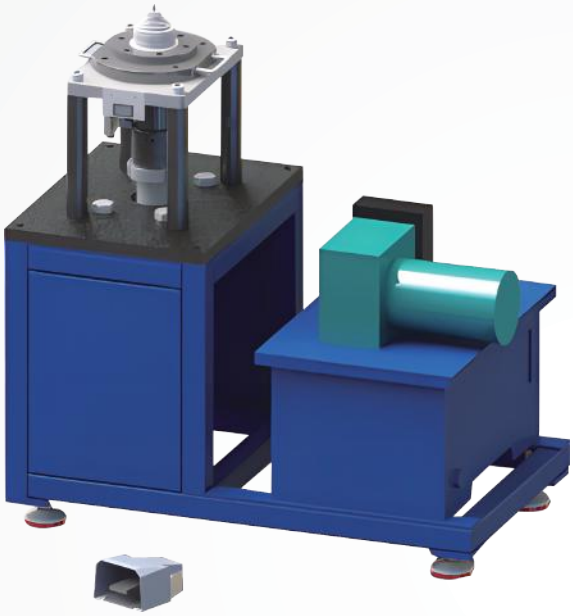
Technical parameter	
Work Range	200-3500 mm
Thickness	3-5 mm
Width Range	5-30 mm
Cycle Time	5 S/Piece（8"）
Accuracy	±0.3 mm
Automatic cut off	Yes
Volume count	Yes

MACHINE MAIN FEATURES

- This machine is designed to bend all sizes of guide rings and inner rings from 6” up to 3.5 meters’ diameter, with this machine, you can make ring much more efficiently and much more cost effectively, because the material utilization will be much higher;
- Major processes include bar straightening, bending and cutting off;
- PLC programmed process control, make very precise diameter, and very easy to operate.
- Heavy duty design allow machine can bending up 40mm width carbon steel and 30mm width stainless steel;
- Interface allow people to set up parameters, display necessary production information, such as ring size, line speed, production volume and so on.

MRS-09

Inner ring stretch machine

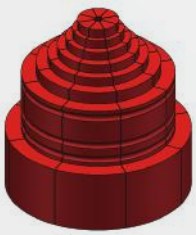


Technical parameter	
Type	MRS-09
Profile(L*W*H)	1200*700*1230mm
Net weight	450KG
Motor power	7.5KW
Voltage	380V
Size scale	1/2"– 8"
Max stretch OD	2mm

Technical parameter	
Thickness	2 - 5 mm
Flange width	5 - 35 mm
Cycle time	2-3s
Material suited	CS/SS
Volume count	Yes
Hydraulic oil	ISO VG32 or above

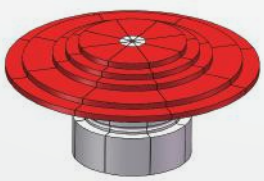
MACHINE MAIN FEATURES

- Biggest advantage of using this machine, it can significantly reduce your inventory level, free your cash out. With this machine on hand, you don't need to store both standard gasket and inner gasket. It also gives you great flexibility to meet customer's varieties of needs.
- In order to use this machine, user would need to make inner ring ID around 1 mm smaller than specification.
- Quick change design multiple dies, cover sizes from 1/2"to 8" all pressure classes, easy learn and easy operation, can finish job in 2-3 Seconds.
- Almost maintenance free, what you need to do change the pressure oil periodically.



1-3" MULTIPLE DIE

1/2 & 3/4 SINGLE DIE



4--8" MULTIPLE DIE

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MATE SEALING TECHNOLOGY

MGB-12

Groove & Chamfer machine

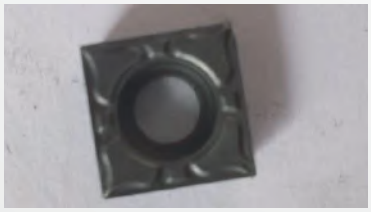
Technical parameter	
Type	MGB-12
Profile	2600*2200*1450 mm
Max space occupation	4600*3500 mm
Net weight	370 KG
Motor power	2.5 KW
Voltage	380V
Size scale	8"– 3500 mm

Technical parameter	
Thickness	3 – 5 mm
Flange width	5 - 50 mm
Cut line speed	5 mm/s
Material suited	CS/SS
Cooling	Vortex cooler
Air consumption	0.8m³/minute

MACHINE MAIN FEATURES

- It is a bouble function machine, can do both guide ring grooving and inner ring chamfering for large size rings from 8” up to 3.5 meter diameter;
- Work mode, semi-automatic, operator only need to load and unload, process fully automatically controlled by program.
- With Numeric control system make process fully automatic except ring loading and unloading, very productive machine, need no skills for operator;
- Use standard cut insert, so as consuming parts it is very easy available at customers’ local market.
- Need fixtures for each size of rings, grooving and chamfering fixtures are different, inner ring is held from inside, while the guide ring is clamped from outside, details please see the below pictures.

CUT HOLDER



CUT INSERT

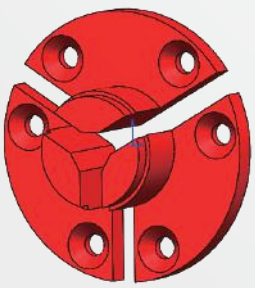
MGB-12S

Small groove & chamfer machine

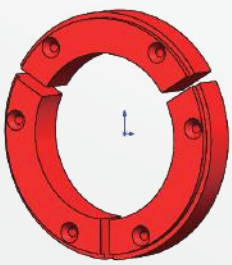
Technical parameter	
Type	MGB-12S
Profile L*W*H	1100*580*1400mm
Net weight	210KG
Motor power	2.5KW
Voltage	380V
Chamfer	Yes
Groove	Yes
Work mode	Semi-automatic
Ring load & unload	Manually
Inner ring range	1/2"-6"
Guide ring range	1/2"-6"
Thickness	2 – 5 mm
Flange width	5 - 50mm
Cut linar speed	500 mm/s
Cycle time	3-5 S
Material suited	CS/SS

MACHINE MAIN FEATURES

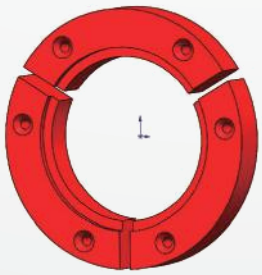
- Double function design, it can do both guide ring grooving and inner ring chamfering for small size ring from 1/2” up to 6”600 class.
- Work mode, semi-automatic, operator only need to load and unload, process fully automatically controlled by program.
- With Numeric control system make process fully automatic except ring loading and unloading, very productive machine, need no skills for operator.
- Use standard cut insert, so as consuming parts it is very easy available at customers’ local market.
- Need fixtures for each size of rings, grooving and chamfering fixtures are different, inner ring is held from inside, while the guide ring is clamped from outside, details please see the below pictures.



1/2"-1" Inner ring chamfer & Kammprofile fixture



2"-6" Inner ring chamfer & Kammprofile fixture



1/2"-6" Guide ring groove fixture

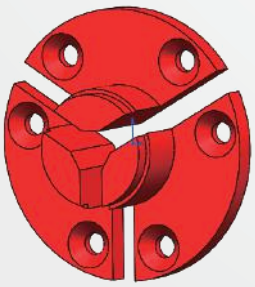
MGB-22A

Fully automatic Groove & Chamfer machine

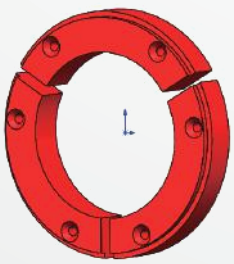
Technical parameter	
Type	MGB-22A
Profile （L*W*H)	1600*1100*1600mm
Net weight	490KG
Power Supply	2.5KW
Voltage	380V
Size scale	1/2"–6"
Groove & Chamfer	Double function
Thickness	3 mm-5mm
Flange width	5 - 20 mm
Cycle time	6-8 seconds
One charge load	150 Rings
Material suited	CS/SS
Cooling	Vortec Air Cooling

MACHINE MAIN FEATURES

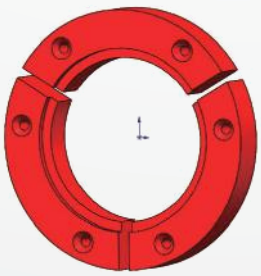
- Double function machine, it can do both guide ring grooving and inner ring chamfering;
- Work mode fully automatic, user only need to load rings to the machine, one charge can load 160 rings, then pick up right program, and press “start” button, the machine can run fully automatically;
- Use standard cut insert, so as consuming parts it is very easy available at customers’ local market;
- Need fixtures for each size of rings, grooving and chamfering fixtures are different, inner ring is held from inside, while the guide ring is clamped from outside, details please see the below pictures.



1/2"-1" Inner ring chamfer & Kammprofile fixture



2"-6" Inner ring chamfer & Kammprofile fixture



1/2"-6" Guide ring groove fixture

MRF-24

Ring flatten machine

Technical parameter	
Type	MRF-24
Profile(L*W*H)	920*800*1600mm
Net weight	250KG
Driven motor	1.5KW
Hydraulic pump	3.5KW
Voltage	380V
Work mode	Semi-auto
Size scale	200– 3000mm
Thickness	2 – 5 mm
Flange width	5 - 50 mm
Line speed	0-200 mm/s
Material suited	CS/SS

MACHINE MAIN FEATURES

- Machine is specially designed for flattenning the inner ring or guide ring, especially for those bended and welded rings, normally those rings will be more or less deformed after bending and welding, and contain internal stress, this machine can help flattenning the ring's deformation and release the internal stress crated by bending and welding process or any other reasons, those rings will stay flat after processing by this machine;
- Use hydraulic power pack as press to flatten the rings, very simple machine, easy to operate and almost maintenance free, all need to do change the pressure oil periodically.

MAW-27

Argon welding machine

Technical parameter	
Type	MAW-27
Profile	1050*700*1580mm
Net weight	260KG
Power	2 KW
Voltage	380V
Max welding thickness	4 mm
Max flange width	60 mm
Sutitable material	SS and CS
Argon Pressure mini	0.5 Mpa
Max welding current	185 Amp

MACHINE MAIN FEATURES

- MAW-27 Argon arc welding machine is a semi-automatic welding machine, the best advantage of this machine is that operating need no weling skill, all need to do is loading the ring and unload when job finish, make welding a easy job,
- save cost for hiring expensive welding techinician.
- It weld both sides in one single process, no need welding two times.
- It can weld both stainless steel and carbon steel by adjusting the parameter settings and changing welding wire.

MWG-15

Weld bead grind machine

Technical parameter	
Type	MWG-15
Profile L*W*H	850*620*1700mm
Net weight	290KG
Power Supply	1.1KW
Voltage	380V
Size scale	3" and above
Thickness	2-5 mm
Maximum width	60 mm
Cycle time (one side)	15-20 Seconds
Work mode	Semi-automatic
Process control	PLC programmed
Ring load and unload	Manual
Thickness adjustable	Manual

MACHINE MAIN FEATURES

- Special designed for remove the surplus of ring welding bead, inlcuding two surfaces and two beads on OD and ID;
- Two step process, first step remove the surplus on up-side surface, OD & ID, then the second step remove the surplus on down side surface;
- Process controlled by PLC program, user only need to load the ring and unload when job done, suitable for both stainless steel and carbon steel, all sizes of inner ring and guide ring;
- With pneumatic cylinder controlling clamp, quick clamp and release rings.

MRP-14

Ring polish machine

Technical parameter	
Type	MRP-14
Machine profile	1100*1600*1200mm
Net weight	230KG
Power supply	2KW
Voltage	380V
Work range	6" and above
Thickness	2 – 5 mm
Flange width	5 - 50mm
Cycle time	10-20s
Material suited	CS/SS
Dust collection	Optional
Ring loading	Manual

MACHINE MAIN FEATURES

- Special designed for polishing ring two surfaces, suitable for both carbon steel and stainless steel.
- Simple machine, easy to operate.

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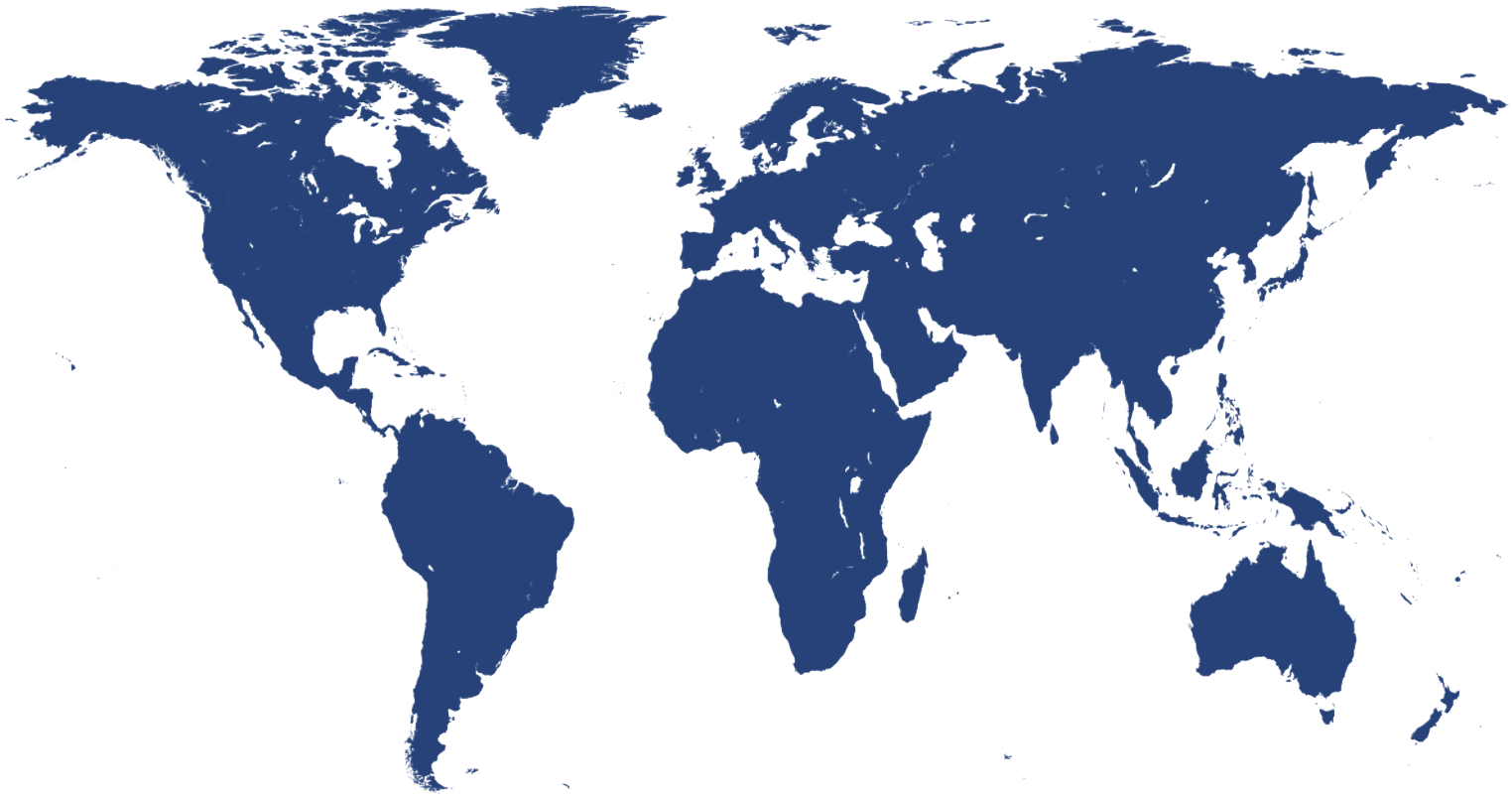

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