



POLEKS MAKİNA SAN.VE TİC.AŞ

2.Organize San. Bol. Yayılacık Cad. Işıktepe Sk. No:21
Konya / TURKEY

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INDUSTRY 4.0

- Cast- iron base
- Touch screen and CNC - Software system
- Automatic CNC - Boring system special for POLEKS.
- 'X-Y-Z' Axis AC SERVO Motor Control
- Electronic Hand Wheel for X-Y-Z axis.(Speed Adjustable)
- Movable Boring head changer robot
- Transmission Head Up and Down movements with speed adjustable
- Electronic speed adjustable spindle rotation motor(Elc.Hand Wheel Control)
- Movable control panel with Touch Screen
- Speed adjustable table for surfacing process(AC Servo Control)
- Movable work lighting lamp
- Prepared system chip breakers (cutting tools)
- Column curtain for secure the slides
- Column 'V' type slide system
- Table slides 'Linear Guides ' with automatic lubrication system(X,Y axis)
- Electric panel inside lighting lamp
- Boring head with marble system
- Transmission down and up movements with ball screw and automatic lubrication.
- Ball screw system for table forward and backward with automatic lubrication.
- Ball Screw automatic lubrication system
- Touch Screen on Control Panel
- Time setting Automatic Lubrication System for all slides and ball screws.
- Electronic hand wheel control and movements for X,Y,Z axis.
- 4 Tons table weight load capacity
- Ethernet and Remote connection system for software update.
- Easy programming and automatic boring process
- Speed adjustable surface milling process
- Incremental electronic measuring device for (X,Y,Z axis)



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Technical Specifications		RM 320
Max. Boring diameter	Mm	320
Min. Boring diameter	Mm	35
Max Surfacing milling width	Mm	450
Distance between spindle centerline to column	Mm	400
Max. Boring stroke (with standard boring head)	Mm	740
Table working surface	Mm	1590x530
Max. Longitudinal travel of table	Mm	1890
Max. Table cross traverse	Mm	110
Spindle rotation speeds (speed adjustable)	Rpm	0-700
Spindle head fine feed speed (speed adjustable)	mm/dk(min)	0-2,00
Spindle head fast feed, up and down(speed adjustable)	Rpm	1400
Table quick feed speed	mm/dk(min)	10000
Table automatic fine feed speeds (speed adjustable)	mm/sn(sec)	0-5,00
Electric system	V	380-24
Spindle motor	Kw	3
Spindle head traverse,up and down motor(Z Axis)	Kw	1,5(ACServo)
Table automatic feed motor(X Axis)	Kw	1,5(ACServo)
Table forward and backward motor(Y Axis)	Kw	1,5(ACServo)
Work length of machine	Mm	4300
Length of machine	Mm	2420
Width of machine	Mm	1654
Height of machine	Mm	2500
Weight of machine	Kg	4000





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Seri No	Standard Extra Equipments	RM 320
032100	Boring head	3
032101	Surface milling head	1
032102	Universal setting-up fixture for V blocks	1
032103	Pair of parallels, supports 100 mm (small)	2
032104	Pair of parallels, supports 200 mm (big)	2
032106	Pair of quick setting up fixture	Extra
032107	Setting-up fixture for finned engine blocks	1
032108	Clamping engine block	4
032109	Setting screws and nuts	10
032110	Oil pump (manual)	2
032111	Chamfering tool	3
032112	Chip breaker	5
032113	Surface milling chip breaker	1
032114	Cylinder centering device	1
032115	Tools setting device (without dial gauge)	1
032116	Fulcrum lever of V block apparatus	1
032117	Boring heads changer robot	1
032118	Manual hand book	1
032119	Electric system box lighting lamp	1
032120	Lightening lamp	1
032121	Tool box (2pcs wrench 19,24-oil pump assemblytools screw)	1
032122	Tool box for chip breakers	1
032123	Diamond (tool) dresser (to sharpen the chip braker)	Extra
032124	Boring tool component with a dead-end hole tool	Extra



Fatura kalemi (ekstra)
Boring a machine tool component with a dead-end hole tool(extra)



Havşa kalemi, silindir ağızına havşa açmanızı sağlar.
Chamfering a cylinder with the chamfering tool.



Silindiri merkezledikten sonra, rektefiye edebilirsiniz
After centering the cylinder, you can bore the inside of cylinder.



032108



032122



032116 032102



032104



032112



032114



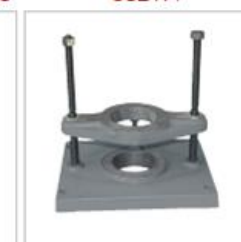
032100



032103



032115



032107



032101



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ULTRA CNC PACKET

(This is the packet can extra add on the machine)

Include;

- Interpolation system while cylinder boring process running
- "G code" typing and operating machine with G codes.
- Graphics showing results on graphic charts
- Simulation of the boring and milling process
- Automatic interpolation page
- X-Y-Z' Axis AC SERVO

COST:15.000 USD



VACUM SYSYTEM is the extra tool can add on the machine boring head side and this system vacuums the small metal chips while the boring process, and get secure the health of the operator. Vacuum system has the exhaust back side of the machines.



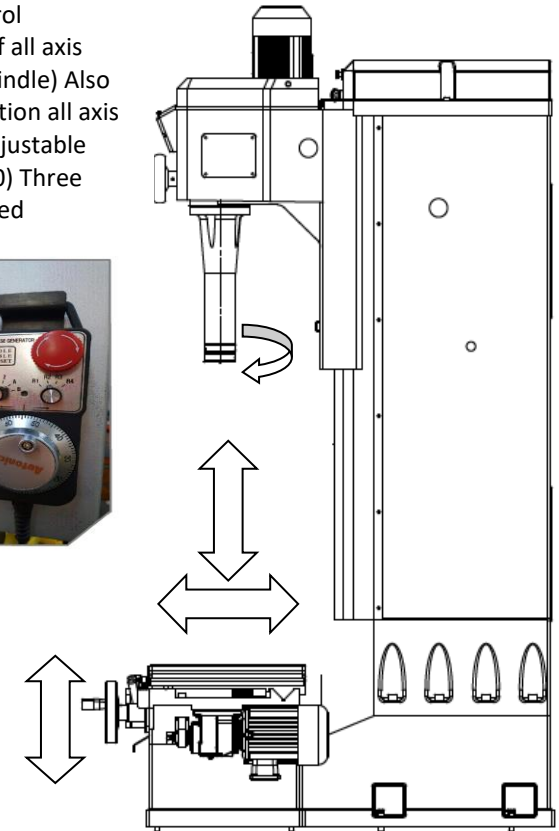
All slides applied with Linear Guides for (Y and X) axis.

(X,Y,Z) axis powered with SERVO MOTORS)

This functions helps the machine follow more accuracy and fast movements



Electronic handwheel has the control movement of all axis (X,Y,Z and spindle) Also another function all axis can speed adjustable (X1-X10-X100) Three different speed opportunity





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Elektronik kumanda paneli dönüş devirlerini ve amper'i elektronik göstergeden görebilirsiniz. Ayrıca dönüş devirlerini yine buradan ayarlayabilirsiniz.

You may see the spindle rotation speed and ampere on the electronic control panel. Moreover, you may adjust the spindle rotation speeds using here on control panel



032119

Makinalarımızın elektrik panoları özenle mühendislerimiz tarafından dizayn ve monte edilmiştir. Devir ayarlayıcı Inverter (Güç ayar ünitesi) pano içersine yerleştirilmiştir. Pano içi aydınlatması mevcut.

Electricity panels of our machines are designed as complete and particular by our engineers. Cycle adjuster inverters(power adjusting systems) is located in the panel. Also panel interior lighting system.



032117

Rektefiye başlığı değiştirmek için başlık robotu.

Boring head changer robot for change the boring heads easily



Moveable work lighting lamp



Depth dial gauge control apparatus(except dial-gauge) and limit switches



Boring head changer robot system



Stroke scale indicate



Engine blocks surfacing head



032123

Çakı bileme motoru (ekstra ekipman)
Diamond (tool) dresser
(to sharpen the chip breaker)
(extra equipment)

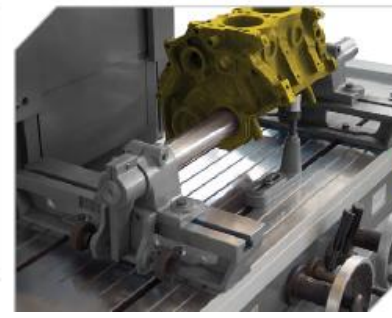


032115

Paso verme aparatı (saat ekstra)
Tools setting device (dial gauge
extra)



Paso mikrometresi (ekstra ekipman)
Feed dial gauge micrometer
(extra equipment)



V Blok aparatı 032102-032116
V Blok apparatus



Kızak yağlama pompası
Guide lubrication pump



Elektrik panosu soğutma sistemi

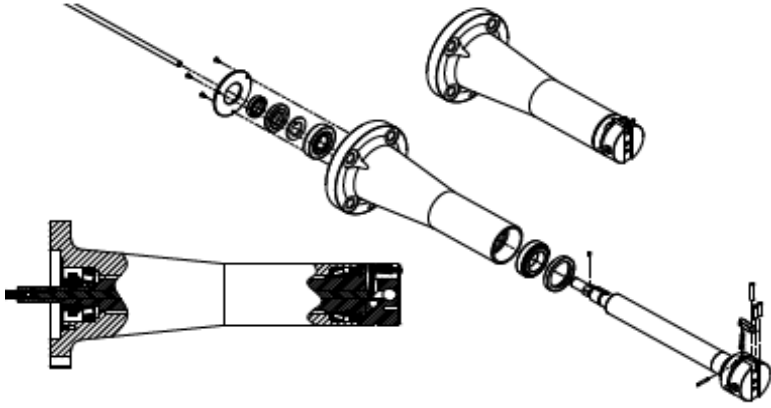


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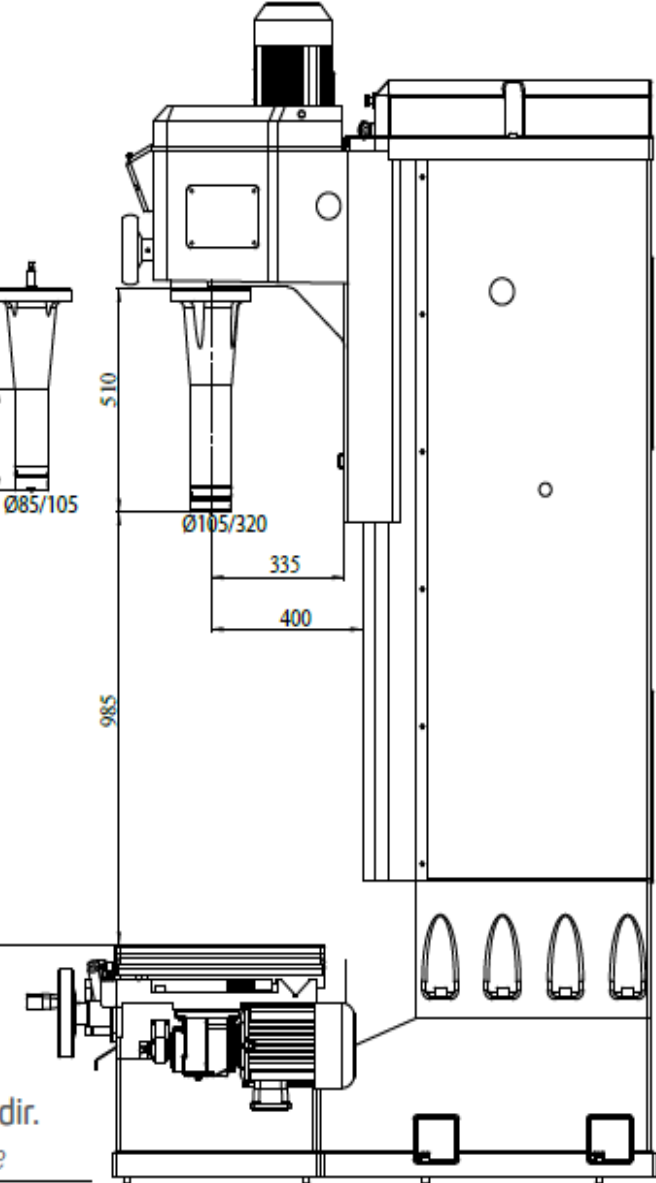
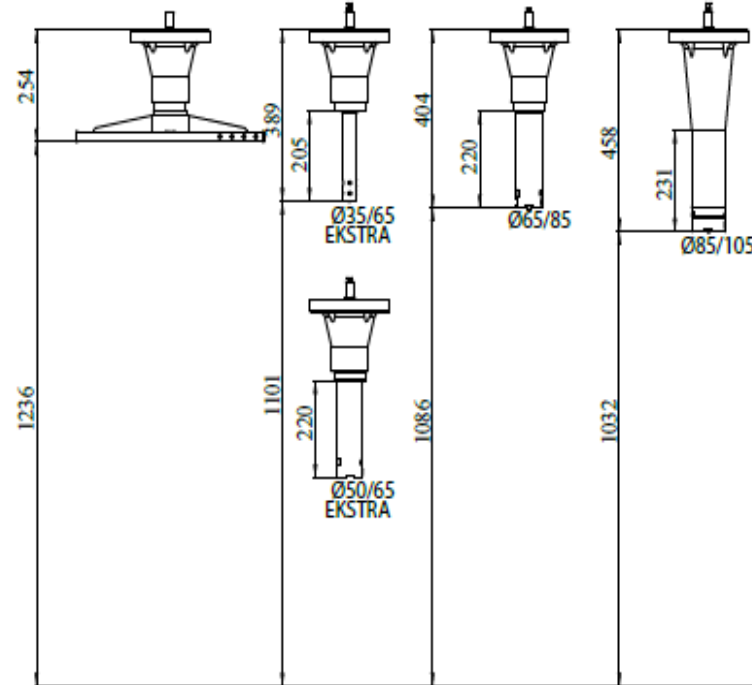
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Rektefiye başlığı iç yapısı bilyalı sistemdir.Rektefiye başlıkları temiz ve özel ortamda hassas biçimde imal edilmektedir.

Boring heads with morble system boring heads manufacturing with delicate in clean and optimum ambience.

RM 320



RM 320 makinası ile birlikte sadece üç adet rektefiye başlığı verilmektedir.
Only three pieces of boring head is handled with RM 320 Boring Machine