

Benchttop models

Herbert Arnold GmbH & Co. KG Weilburg
Amtsgericht Limburg HRA-Nr. 2032 P.h.G.: H. u. W. Arnold GmbH Weilburg
Amtsgericht Limburg HRB-Nr. 3071 Geschäftsführer: Dipl.-Ing. Wolfram Arnold

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10.03.2010
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Glassworking lathe P1016 E - G

Item number: P1016 E - G

Category: Benchtop models

For performing highly precise joining and melting works in the glass instrument, quartz lamp and electronics industry.

Construction: Solid, torsion free machine bed with mounted precision linear guides. Closed stainless steel cover over the bed guide for protection against dirt and heat influence.

Aluminium working heads with integrated control panel.

Working heads can be locked electrically in order to guarantee an easy, simple operation at the use scroll chucks.

As an option each spindle head can be equipped with an own step motor, which drives the spindle via a toothed belt. As a result the mechanical synchronization of both working heads is not necessary.

The movable machine mountings – working head and burner support – run on a pre-clamped guide carriage, so that a precise and smooth running is guaranteed during the manual and the motorized transport.

motorized drive of working head and burner support via a step motor and ball screw.

These machines are usually offered with Scroll chucks. If required the machines can be equipped with other clamping devices. Furthermore we can equip the machines with automatic feeders, burner gas suppliers, air blowing devices, burner devices, reshaping devices as well as a fully automatic control via an industrial PC (Arnold Easy Panel System AEPS).

Drive: Steplessly variable D.C. motor for connection to 230 volts A.C., 50 cycles, special voltages can be considered.



Glassworking lathe P1016 E

Item number: VD1-00005

For performing high precision joining-and sealing jobs in the glass instrument-, quartz lamps- and electronic industry.

Working length between spindle flanges: 500 mm

Working length between spindle flanges:	500 mm
Spindle bore:	16 mm
Centre height above burner support:	80 mm
Steplessly variable speed range:	1-200 1/min

Glass working lathe P1016 F

Item number: VD1-00108

For performing high precision joining-and sealing jobs in the glass instrument-, quartz lamps- and electronic industry.

Working length between spindle flanges: 750 mm

Working length between spindle flanges:	750 mm
Spindle bore:	16 mm
Centre height above burner support:	80 mm

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Centre height above burner support:	1-200 1/min
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Glass working lathe P1016 G

Item number: VD1-00190

For performing high precision joining-and sealing jobs in the glass instrument-, quartz lamps- and electronic industry.

Working length between spindle flanges: 1000 mm

Working length between spindle flanges:	1000 mm
Spindle bore:	16 mm
Centre height above burner support:	80 mm
Steplessly variable speed range:	1-200 1/min

Glassworking lathes 1060F - 1080H

Item number: 1060 F - 1080 H

Category: Benchtop models

The guide consisting of two hardened and ground bars, is mounted as a compound system on the cast machine base. A closed stainless steel cover protects the wear-free guide against heat radiation, cullet, dust and dirt. The headstock is fixed and the tailstock can be moved on linear ball bushings via toothed rack very sensitively by means of a handwheel. The same refers to the burner support. The spindle of the tailstock can be declutched, that means separated from drive by means of an electro clutch. The direction of rotation of the spindles can be changed by means of a switch. The guide for the tailstock and the burner support can fixed mechanically. For easy opening and closing of the chucks the lathe is equipped with an electromagnetic brake. Upon switched-on brake the spindles block when stopping the machine. Upon start the brake releases automatically.

Further Options: The machines are standardly offered with three-jaw ring chucks. On demand, also other clamping devices can come be offered, e.g. quick acting chucks or three-jaw scroll chucks, as well as vacuum clamping devices.

Furthermore, machines can be equipped with an automatic advance, burner gas supply, blast air device, burner equipment, forming tools up to fully automatic control via industrial- PC (Arnold Easy Panel System AEPS).

Please contact us for more details. **Standard accessories:** 1 piece Burner support 1 piece Blowing swivel with holder 1 piece Electromagnetic brake 1 piece Electromagnetic clutch for tailstock spindle Clamping units for burner support and tailstock 1 set of tools



Glassworking lathes 1060 F

Item number: VD1-00105

Precision machine, series "assistant" – table model -

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Spindle bore	62 mm
Centre height above burner support	250 mm
Working length between spindle flanges	750 mm
Working length between tips of jaws	560 mm
max. Spindle speed, steplessly adjustable	300 1/min

Glassworking lathes 1060 G

Item number: VD1-00048

Precision machine, series "assistant" – table model -

Spindle bore	62 mm
Centre height above burner support	250 mm
Working length between spindle flanges	1000 mm
Working length between tips of jaws	810 mm
max. Spindle speed, steplessly adjustable	300 1/min

Glassworking lathes 1060 H

Item number: VD1-00073

precision machine, Series "Assistant" – Table model -

Spindle bore	62 mm
Centre height above burner support	250 mm
Working length between spindle flanges	1250 mm
Working length between tips of jaws	1060 mm
max. Spindle speed, steplessly adjustable	250 1/min

Glassworking lathes 1080 F

Item number: VD1-00308

Precision machine, series "assistant" – table model -

Spindle bore	80 mm
Centre height above burner support	250 mm
Working length between spindle flanges	750 mm
Working length between tips of jaws	460 mm
max. Spindle speed, steplessly adjustable	150 1/min

Glassworking lathes 1080 G

Item number: VD1-00096

Precision machine, series "assistant" – table model -

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Spindle bore	80 mm
Centre height above burner support	250 mm
Working length between spindle flanges	1000 mm
Working length between tips of jaws	710 mm
max. Spindle speed, steplessly adjustable	150 1/min

Glassworking lathes 1080 H

Item number: VD1-00058

precision machine, series "assistant" – table model -

Spindle bore	80 mm
Centre height above burner support	250 mm
Working length between spindle flanges	1250 mm
Working length between tips of jaws	960 mm
max. Spindle speed, steplessly adjustable	150 1/min

Glassworking lathe 1060 MINI

Item number: VD1-00022

Category: Benchtop models

The handy price worthy table model for forming of small special-and series parts, as well as for the execution of joining works.

The guide bed of the machine consists of a hardened, ground and therefore wear-resistant single ball-guide shaft, on which the moveable machine elements - right working head and burner support – are guided precise and easy-running.



Construction:

The guide of the machine consists of a hardened, ground and therefore wear-resistant single guide shaft.

The headstock is fixed, the tailstock can be moved sensibly via toothed rack and handwheel. (Against moderate surcharge the headstock can also be executed movable).

The tailstock can be separated from the drive by means of a mechanical clutch.

The rotation of the working spindles can be reversed.

The tailstock and burner support have mechanical fixtures for positioning, which can also be used as a friction brake of these movable machine elements.

For easy opening and closing of all chucks to be operated by turning, and electromagnetic brake is incorporated. With the brake switched-on the spindles are blocked when the machine is turned-off. Upon start the brake will release automatically.

Further Options:

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The machines are standardly offered with three-jaw ring chucks. On demand, also other clamping devices can come into operation, e.g. quick acting chucks or three-jaw scroll chucks as well as vacuum clamping devices.

Furthermore, machines can be equipped with blast air device, burner equipment or forming tools.

Standard accessories:

- 1 piece Burner support- 1 piece Blowing swivel with holder- 1 piece Electromagnetic brake- 1 piece Electromagnetic clutch for tailstock spindle- Clamping units for burner support and tailstock- 1 set of tools

Spindle bore	60 mm
Centre height above burner support	155 mm
Working length between spindle flanges	850 mm
Working length between tips of jaws	700 mm

Glassworking lathe 1025 assistant

Item number: VD1-00007

Category: Benchtop models

Machine construction: The machine is delivered together with sturdy working table. Motor and motor controls are mounted separately under the table in a capsuled control box. Lathe controls are incorporated in headstock. Working spindles have plane flanges for small scroll chucks and additionally an internal cone for the acceptance of small quick acting chucks. Further options: Our default offering of this machines includes three-jaw scroll chucks. On demand, also other clamping devices can come into operation. Standard accessories: - 1 piece burner support- 1 piece blowing swivel with holder- 1 piece foot switch for ON/OFF- 1 piece electromagnetic clutch for right working spindle- 1 piece Electromagnetic clutch For blocking of the working spindles- Mechanical fixing device for right working head and carriage- 1 set Tools- 1 stable base frame made of aluminium profile struts and stable table plate made of aluminium



- Hardened and ground and therefore wear resistant dual bar bed guide, mounted in compound system on a solid, ground and torsion free bed made of nodular graphite iron.
- The machine bed is protected against dirt, glass dust and heat by means of a closed stainless steel cover.
- Right working head and burner support are guided on ball screws guaranteeing a smooth transport of these movable machine elements via hand wheel. Spindle stock is fix mounted.
- Right working head and burner support can be blocked in each position by means of an extender level.
- The working spindle of the right working head is to be switched on and off (separated from drive) via magnetic clutch.

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- The working spindles are containing beside plan acceptance for scroll chucks an add. inner cone for the acceptance of quick clamping chucks and an elektro magnetic brake for an easier blocking of the working spindles. The turn direction of the working spindle is reversible.
- Both working heads contain at the outer side an acceptance for blowing swivels.
- Because of the included adjusting screws in the machine base an easy and exact adjusting of the machine is possible at any time.

Spindle bore	25 mm
Centre height above burner support	125 mm
Working length between spindle flanges	560 mm
Working length between tips of jaws	355 mm
Working height from floor till centre	1000 mm

Glassworking lathe P1016/02.20

Item number: VD1-00097

Category: Benchtop models

The modular construction allows an optimal adaption to the individual production processes. Through the combination of different modules a customer specific machine concept, with the desired grade of automation for every use can be constructed.

Basic machine:

All main machine axes are driven via AC-servo motors. The signal feedback occurs via resolver. The linear axes are equipped with precision flat guidances.

Clamping chucks:

Pneumatically operated with high concentric running exactness, for simple and fast loading and unloading of the machine. The clamping pressure can be adjusted individually and is permanent.

Tool Revolver:

For up to 6 individually configured forming tools, that can be controlled particularly in the production process.

Forming roll:

Can be used alternatively to the tool revolver. Made of graphite or a customer specific material, driven or free running. Hereby the contours match the components which have to be produced.

AEPS:

Arnold Easy Panel System. Especially developed operation area for our automated machines and plants, based on an industrial PC.



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Tool rest:

According to the existing material logistic, the plant can be equipped with adapted tool carriers or pallets.

Pressure control:

MFC-controlled for sensitive forming and reaming processes. Control range adjustable, adapted for different media.

Robot:

For full automation of the plant. The machine can be loaded from max. 2 pattern magazines. In combination with an image processing system a 100% quality control before palletizing is possible. N.o.k. parts can be transferred outward.

Magazines:

Individually designed pattern magazines for the automatic distribution of tools.

Burner and burner swivel drive:

Burner is tuned individually to the chosen kind of gas and the production process. The burner swivel drive finds its application for the design of an individual forming process and the strategically forming of sharp edges on the work piece contour.

Burner gas control:

Via MFCs which are tuned to the desired kind of gas and the used burner. Via the control behaviour of the MFCs, which is pressure independent, a very high degree of reproducibility and product quality is granted.

Pyrometer:

Used for visualisation of the work piece temperature or in logical combination with the automatic program for indexing of chosen working steps

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Floor models

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Glass working lathe SY 3260 - SY 3600

Item number: SY 3260 - SY 3600

Category: Floor models

The technical development in the semiconductor industry represents a great challenge for the quartz glass fabrics and quartz glass blowers, to manufacture even larger tube dimensions.

The direct pipe pulling is restricted due to technical limits. Therefore the inflating of available tube dimensions was the consequence. This is why the inflating- or glass working lathe was developed.

We were ahead of the times and were prepared for this trend. The technical construction of our glass working lathes, which allows a huge flexibility regarding work piece length and centre heights, benefited from this development.

As a basis machine for the calibrating process we can recommend you the machines with a spindle drilling of 260 – 600 mm, and a centre height of 800 or 1000 mm.

Under consideration of a calibrating rollers diameter of 150 mm, the following tube diameters can be calibrated when assembling:

Centre height 800 mm: up to 520 mm tube diameter

Centre height 1000 mm: up to 920 mm tube diameter

Spindle boring max.	1100 mm
Workpiece length max.	12000 mm
Centre height max.	1200 mm



Glassworking lathes 3260 - 3500

Item number: 3260 – 3500

Category: Floor models

The machines excel by a sophisticated, modern and sturdy construction, absolute reliability and high precision. Hardened and ground and therefore wear- resistant dual round bar guide bed in combination with a throughout machined base. A closed stainless steel cover protects the bed against heat radiation and soiling. Modern components guarantee an axial exactness and a play free running of the machine conceived for use over decades.

The main drive of machine grants even in the lower range of speed an exact control of spindle rotation.

It is characterized by a high and steady torque.

The right working head can be separated from drive by clutch.



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Working spindles have plane flanges on both sides to accept chucks on the outer flanges as well. Power transfer to the working spindles via easily adjustable double roller chains.

The right working head and the burner support are guided on precision linear ball bearings. This technical complex construction guarantees the so important wear-reduced running during the continuous oscillating working method.

The machines are standardly offered with three-jaw ring chucks. On demand, also other clamping devices can come into operation.

Furthermore, machines can be equipped with automatic advance, burner gas supply, blast air device, burner equipment, forming tools up to fully automatic control via industrial- PC (Arnold Easy Panel System AEPS).

Please contact us for details.

Spindle bore	262 - 504 mm
Working length between spindle flanges	2500 - 3200 mm
Centre height above burner support	600 - 1000 mm
Steplessly variable speed range	max. 150 1/min

Glassworking lathes 3120 – 3200

Item number: 3120 – 3200

Category: Floor models

The machines excel by a sophisticated, modern and sturdy construction, absolute reliability and high precision. Hardened and ground and therefore wear- resistant dual round bar guide bed in combination with a throughout machined base. A closed stainless steel cover protects the bed against heat radiation and soiling. Modern components guarantee an axial exactness and a play free running of the machine conceived for use over decades.

The main drive of machine grants even in the lower range of speed an exact control of spindle rotation.

It is characterized by a high and steady torque.

The right working head can be separated from drive by clutch.

Working spindles have plane flanges on both sides to accept chucks on the outer flanges as well. Power transfer to the working spindles via easily adjustable double roller chains.

The right working head and the burner support are guided on precision linear ball bearings. This technical complex construction guarantees the so important wear-reduced running during the continuous oscillating working method.



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The machines are standardly offered with three-jaw ring chucks. On demand, also other clamping devices can come into operation.

Furthermore, machines can be equipped with automatic advance, burner gas supply, blast air device, burner equipment, forming tools up to fully automatic control via industrial- PC (Arnold Easy Panel System AEPS).

Please contact us for details.

Spindle bore	125 - 202 mm
Working length between spindle flanges	1600 - 2500 mm
Centre height above burner support	450 - 750 mm
Steplessly variable speed range	max. 250 1/min

Glassworking lathes 3080 – 3100

Item number: 3080 – 3100

Category: Floor models

The machines excel by a sophisticated, modern and sturdy construction, absolute reliability and high precision. Hardened and ground and therefore wear- resistant dual round bar guide bed in combination with a throughout machined base. A closed stainless steel cover protects the bed against heat radiation and soiling. Modern components guarantee an axial exactness and a playfree running of the machine conceived for use over decades.

The main drive of machine grants even in the lower range of speed an exact control of spindle rotation.

It is characterized by a high and steady torque.

The right working head can be separated from drive by clutch.

Working spindles have plane flanges on both sides to accept chucks on the outer flanges as well. Power transfer to the working spindles via easily adjustable double roller chains.

The right working head and the burner support are guided on precision linear ball bearings. This technical complex construction guarantees the so important wear-reduced running during the continuous oscillating working method.

The machines are standardly offered with three-jaw ring chucks. On demand, also other clamping devices can come into operation, e.g. quick acting chucks or three-jaw scroll chucks as well as vacuum clamping devices.

Furthermore, machines can be equipped



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with automatic advance, burner gas supply, blast air device, burner equipment, forming tools up to fully automatic control via industrial- PC (Arnold Easy Panel System AEPS).

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Glassworking lathes 3080/1200/300

Item number: 3080/1200/300

The solid and reliable glass working lathes for all applications in the glass- and quartz glass industry

Spindle bore	82 mm
Working length between spindle flanges	1200 mm
Centre height above burner support	300 mm
Steplessly variable speed range	3 - 300 1/min

Glassworking lathes 3080/1200/450

Item number: VD2-00256

The solid and reliable glass working lathes for all applications in the glass- and quartz glass industry

Spindle bore	82 mm
Working length between spindle flanges	1200 mm
Centre height above burner support	450 mm
Steplessly variable speed range	3 - 300 1/min

Glassworking lathes 3080/1200/600

Item number: 3080/1200/600

The solid and reliable glass working lathes for all applications in the glass- and quartz glass industry

Spindle bore	82 mm
Working length between spindle flanges	1200 mm
Centre height above burner support	600 mm
Steplessly variable speed range	3 - 300 1/min

Glassworking lathes 3080/1800/300

Item number: VD2-00201

The solid and reliable glass working lathes for all applications in the glass- and quartz glass industry

Spindle bore	82 mm
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Working length between spindle flanges	1800 mm
Centre height above burner support	300 mm
Steplessly variable speed range	3 - 300 1/min

Glassworking lathes 3080/1800/450

Item number: VD2-00382

The solid and reliable glass working lathes for all applications in the glass- and quartz glass industry

Spindle bore	82 mm
Working length between spindle flanges	1800 mm
Centre height above burner support	450 mm
Steplessly variable speed range	3 - 300 1/min

Glassworking lathes 3080/1800/600

Item number: 3080/1800/600

The solid and reliable glass working lathes for all applications in the glass- and quartz glass industry

Spindle bore	82 mm
Working length between spindle flanges	1800 mm
Centre height above burner support	600 mm
Steplessly variable speed range	3 - 300 1/min

Glassworking lathes 3100/1200/300

Item number: 3100/1200/300

The solid and reliable glass working lathes for all applications in the glass- and quartz glass industry

Spindle bore	112 mm
Working length between spindle flanges	1200 mm
Centre height above burner support	300 mm
Steplessly variable speed range	3 - 250 1/min

Glassworking lathes 3100/1200/450

Item number: VD2-00129

The solid and reliable glass working lathes for all applications in the glass- and quartz glass industry

Spindle bore	112 mm
Working length between spindle flanges	1200 mm

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Centre height above burner support	450 mm
Steplessly variable speed range	3 - 250 1/min

Glassworking lathes 3100/1200/600

Item number: VD2-00690

The solid and reliable glass working lathes for all applications in the glass- and quartz glass industry

Spindle bore	112 mm
Working length between spindle flanges	1200 mm
Centre height above burner support	600 mm
Steplessly variable speed range	3 - 250 1/min

Glassworking lathes 3100/1800/300

Item number: 3100/1800/300

The solid and reliable glass working lathes for all applications in the glass- and quartz glass industry

Spindle bore	112 mm
Working length between spindle flanges	1800 mm
Centre height above burner support	300 mm
Steplessly variable speed range	3 - 250 1/min

Glassworking lathes 3100/1800/450

Item number: VD2-00140

The solid and reliable glass working lathes for all applications in the glass- and quartz glass industry

Spindle bore	112 mm
Working length between spindle flanges	1800 mm
Centre height above burner support	450 mm
Steplessly variable speed range	3 - 250 1/min

Glassworking lathes 3100/1800/600

Item number: VD2-00691

The solid and reliable glass working lathes for all applications in the glass- and quartz glass industry

Spindle bore	112 mm
Working length between spindle flanges	1800 mm
Centre height above burner support	600 mm

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Steplessly variable speed range

3 - 250 1/min

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Vertical machines

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Glass working lathes V 3080 – V 3200

Item number: V3080 – V 3200

Category: Vertical machines

The machines excel by a sophisticated, modern solid construction at reliable operating safety and high precision. Hardened and ground and therefore wear resisting dual round bar guide bed in combination system mounted on the basement. The vertical disposed machine bed is mounted protected against fold on the machine foot for the purpose of additional stabilisation.

A closed stainless steel cover protects the bed guide against heat and dirt. Modern building elements grant an axially exactness and play free running for the machines which are constipated for a use over decades. The machine main drive grants an exact control of the spindle rotation even in the lower speed range. It excels by a high and constant speed. The working spindles have plan acceptions on both sides, so that clamping elements can be mounted at every time even on the outside.

The power transmission on the working spindles occurs via lightly adjustable precision double roller chains. The right working head and the burner support are guided on precise ball sliding bushes. Via balance weights on the machine backside a weight counterbalance of these movable elements occurs.

- The stainless steel cover sheet which is mounted standard on the machines can be water cooled
- Water cooled heat shields for the working heads
- The under working heat which is standard fix mounted can be also executed moveable
- For the working heads multi plate clutches can be provided for cutting from the main drive



Spindle bore	82 - 202 mm
Working length between spindle flanges	1200 - 6100 mm
Centre height above burner support	300 - 600 mm
Steplessly variable speed range	3 - 300 1/min

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Swivel-type machines

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Glass working lathes NC 1060

Item number: VD1-00033

Category: Swivel-type machines



The precision machines for a allround and exacting use, e.g. for automatic production of glass electrodes, lamp flasks from quartz glass as well as for transaction of glass metal sealing and for general automation of many working processes at the glass and quartz glass working. Machine bed is swivelable via stroke gear, for simulating of vertical production processes. The guide bed which consists of four hardened and ground round shafts is mounted in the compound system on the machine socle. Two closed stainless steel covers protect the wear resistant bed guides against thermal influences, glass braking and dirt. Left and right working head as well as burner support are guided moveable on precision linear ball bearings, drive via ball rolling spindle, toothed belt and AC servo motor. The main drive of the working spindles occurs via AC servo motor, synchronous shaft and toothed belt.

Spindle bore	62 mm
Center height over burner support	250 mm
Working length between the Spindle flanges	1250 mm
Speed, steples	max. 400 1/min

Glass working lathes 2080 - 2200

Item number: 2080 - 2200

Category: Swivel-type machines



Design: The swivelling process is done electrically, via strong threaded lifting spindle, the lifting process can be interrupted in each tilting position, so that also between horizontal and vertical position each working position is possible. The left working head is moveable; therefore it is also possible to adjust a convenient working height in vertical position. The right working head has counter balances with a tension chain, so that in each swivelling position an easy and sensitive transport is guaranteed. Counter balance for support at surcharge upon request. Both working spindles can be switched on and off via lamina clutch.

Further options:

The machines are normally quoted with ring chucks. Upon request other clamping devices can be used. In addition the machines can be equipped with automatic advances, burner gas supply, blowing air -, burner - and forming equipment up to fully automatic control via industrial PC (Arnold Easy Panel System AEPS). In case of more details please contact us.

STANDARD ACCESSORIES:

- 1 pce. burner support (lathe carriage)
- 2 pcs. blowing swivels
- 1 pce. electromagnetic brake
- 1 pce. grease gun set
- 1 pce. separate control panel with all push buttons for ON/OFF, FORWARD/BACKWARD, potentiometer for speed control and control lamps mounted on four rollers for easy positioning.

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Glass working lathe 2080/1200/300

Item number: VD4-00006

Universal glass working lathes for various operations in the glass- and quartz glass industry.

Spindel bore:	82 mm
Working length between spindle flanges:	1200 mm
Centre height above burner support:	300 mm
Speed range:	3-300 1/min

Glass working lathe 2080/1200/450

Item number: VD4-00008

Universal glass working lathes for various operations in the glass- and quartz glass industry.

Spindle bore:	82 mm
Working length between spindle flanges:	1200 mm
Centre height above burner support:	450 mm
Speed range:	3-300 1/min

Glass working lathe 2080/1200/600

Item number: VD4-00009

Universal glass working lathes for various operations in the glass- and quartz glass industry.

Spindle bore:	82 mm
Working length between spindle flanges:	1200 mm
Centre height above burner support:	600 mm
Speed range:	3-300 1/min

Glass working lathe 2100/1200/300

Item number: VD4-00002

Universal glass working lathes for various operations in the glass- and quartz glass industry.

Spindle bore:	112 mm
Working length between spindle flanges:	1200 mm
Centre height above burner support:	300 mm
Speed range:	3-300 1/min

Glass working lathe 2100/1200/450

Item number: VD4-00003

Universal glass working lathes for various operations in the glass- and quartz glass industry.

Spindle bore:	112 mm
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Working length between spindle flanges:	1200 mm
Centre height above burner support:	450 mm
Speed range:	3-300 1/min

Glass working lathe 2100/1200/600

Item number: VD4-00010

Universal glass working lathes for various operations in the glass- and quartz glass industry.

Spindle bore:	112 mm
Working length between spindle flanges:	1200 mm
Centre height above burner support:	600 mm
Speed range:	3-300 1/min

Glass working lathe 2120/1600/450

Item number: VD4-00005

Universal glass working lathes for various operations in the glass- and quartz glass industry.

Spindle bore:	125 mm
Working length between spindle flanges:	1600 mm
Centre height above burner support:	450 mm
Speed range:	3-250 1/min

Glass working lathe 2120/1600/600

Item number: VD4-00011

Universal glass working lathes for various operations in the glass- and quartz glass industry.

Spindle bore:	125 mm
Working length between spindle flanges:	1600 mm
Centre height above burner support:	600 mm
Speed range:	3-250 1/min

Glass working lathe 2160/1600/450

Item number: VD4-00007

Universal glass working lathes for various operations in the glass- and quartz glass industry.

Spindle bore:	162 mm
Working length between spindle flanges:	1600 mm
Centre height above burner support:	450 mm
Speed range:	3-250 1/min

Glass working lathe 2160/1600/600

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Item number: VD4-00012

Universal glass working lathes for various operations in the glass- and quartz glass industry.

Spindle bore:	162 mm
Working length between spindle flanges:	1600 mm
Centre height above burner support:	600 mm
Speed range:	3-250 1/min

Glass working lathe 2200/1600/600

Item number: VD4-00012x

Universal glass working lathes for various operations in the glass- and quartz glass industry.

Spindle bore:	200 mm
Working length between spindle flanges:	1600 mm
Centre height above burner support:	600 mm
Speed range:	3-200 1/min

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