

## Deforming machines

Herbert Arnold GmbH & Co. KG Weilburg  
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## Glasverformungsmaschine 55/1

Item number: VC3-00005

Category: Deforming machines

semi-automatic, for winding condensor coils from glass and hard glass for different pitches and diameters. Max. coil length 400 mm. This machine works by means of a weight stone.



## Universal – Glass forming machine bench model 48/025

Item number: VV1-00027

Category: Deforming machines

**Design:** The ball bearing working spindle is mounted in the electrically welded working head. The working spindle is executed in such a way that a collet clamp for the use of collet chucks, as well as normal clamping chucks can be accepted. The steplessly variable electro motor with power encoder is directly mounted at the spindle stock. The speed regulation can be adjusted via manually operated potentiometer as well as through a knuckle joint. To support especially long glass tubes, the machine is equipped with an additional adjustable guide. The working support runs on ball bushings and can be easily moved by a hand wheel and adjusted into each working position that is required. Via a mechanical clamping device the support is fixed. By pressing and rotating the hand wheel the upper part of support is moved upwards and herewith the forming tools which are necessary for the forming process are positioned accordingly. An appropriate burner holder is integrated in the working support, too. The tailstock is mounted on a two-bar guide bed and can be fixed via a mechanical clamping device. The upper part has two guide shafts which can be moved lengthwise for the acceptance of two – possibly different forming esp. reaming tools. Two guide shafts, arranged crosswise, enable the positioning of forming resp. reaming tools in two working positions. By means of moving the tailstock into the final position also longer work pieces can be easily exchanged. **Application:** Machine is especially suitable for the production of serial articles in relatively small dimensions, for example, small standard ground joints, glass threads, glass flanges, tube- and capillary extensions in various forms.

The high maximum revolution of the machine guarantees best possible exploitation of the centrifugal effect during forming process.

Spindle bore:	25 mm
Bed length:	560 mm
Connected load:	370 Watt
Centre height:	100 mm
Steplessly variable speed range:	15 – 1500 1/min

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## Glass forming machine 54/50

Item number: VV1-00037

Category: Deforming machines

As standard the feeding of glass parts to be processed is done manually, however, machine can be completed with an automatic loading- and unloading system. The complete procedure is effected fully-automatic according to the appropriate program. The programs of each single stations worked step by step. Each program of one station can be executed with a max. length of 25 steps.

The stations work independently from each other. It is possible to store 10 different programs in the PLC.

All machine functions can be manually operated for adjustment works.

During the automatic mode the working procedure can be followed resp. Controlled via the operating unit.

Each of the 6 spindle drives can be adjusted to a basic speed. During the course of the program, the speeds of each station are freely programmable.

Production of:

- Standard ground male joints NS 10 – 45

- Standard ground male joints with tip NS 14,5 – 45

- Standard ground female joints NS 10 – 45

- Standard ground female joints at round bottomed flasks and Erlenmeyer flasks NS 10 – 29

- Standard ground male ball joints and standard ground female ball joints from KS 13/5 – 34/20

- Glass external threads GL 14 – 45

- Flanges up to NW 25

- PLC controlled working process, easily programmable, stored programs are called in via touch control

- high capacity, import accuracy by fine adjustment of forming tools, thus constant, tight tolerances and low grinding times

- tool operation pneumatically, (motorized as an option) with oil-retarding process in working range

- automatic compensation of length, thus constant glass quantities for forming process

- operation of the machine by unskilled staff



Spindle bore	62 mm
Bed length	1180 mm
Centre height	250 mm
Steplessly variable speed range	max. 1000 1/min

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## Glass forming machine 54/06

Item number: VV1-00036

Category: Deforming machines

The machine consists of a solid, electrically welded machine housing. A two-spar guide bed with solid machine base is installed at the right side. The drive of the working spindles which run on ball bearings is effected by steplessly variable D.C. motor.

An immediate locking of the working spindles after having switched-off the machine can be achieved by means of an electro-magnetic brake which can either be switched-on or switched-off. Thus the operation of three-jaw ring chucks is facilitated.

When switching-on the machine, the brake releases automatically.

The feeding of the glass parts to be worked is carried out manually. The whole operational cycle is effected fully automatic according to the designed input programs.

- PLC controlled operation cycles – easily programmable, depending on the execution different programs can be stored at the control unit
- connection of modem for remote control possible
- high capacity, high accuracy by means of fined adjustment of forming tools and thus constantly, close tolerances and low grinding times
- handling of machine by semi-skilled personnel, whereby one person can handle two or three machines, depending on operation hours of program
- application of oil- or air-cooled tools is possible.

Spindle bore	62 mm
Bed length	1400 mm
Centre height	250 mm
Steplessly variable speed range	max. 1000 1/min



## Glass forming machine 54/09

Item number: 54/09

Category: Deforming machines

The machine consists of a solid, electrically welded machine housing. A two-spar guide bed with solid machine base is installed at the right side. The drive of the working spindles which run on ball bearings is effected by steplessly variable D.C. motor.

An immediate locking of the working spindles after having switched-off the machine can be achieved by means of an electro-magnetic brake which can either be switched-on or switched-off. Thus the operation of three-jaw ring chucks is facilitated.



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When switching-on the machine, the brake releases automatically.

The feeding of the glass parts to be worked is carried out manually. The whole operational cycle is effected fully automatic according to the designed input programs.

- PLC controlled operation cycles – easily programmable, depending on the execution different programs can be stored at the control unit
- connection of modem for remote control possible
- high capacity, high accuracy by means of fined adjustment of forming tools and thus constantly, close tolerances and low grinding times
- handling of machine by semi-skilled personnel, whereby one person can handle two or three machines, depending on operation hours of program
- application of oil- or air-cooled tools is possible.

Spindle bore	92 mm
Bed length	1400 mm
Centre height	300 mm
Steplessly variable speed range	max. 750 1/min

## Glass forming machine 54/012

Item number: VV1-00381

Category: Deforming machines

The machine consists of a solid, electrically welded machine housing. A two-spar guide bed with solid machine base is installed at the right side. The drive of the working spindles which run on ball bearings is effected by steplessly variable D.C. motor.

An immediate locking of the working spindles after having switched-off the machine can be achieved by means of an electro-magnetic brake which can either be switched-on or switched-off. Thus the operation of three-jaw ring chucks is facilitated.

When switching-on the machine, the brake releases automatically.

The feeding of the glass parts to be worked is carried out manually. The whole operational cycle is effected fully automatic according to the designed input programs.

- PLC controlled operation cycles – easily programmable, depending on the execution different programs can be stored at the control unit
- connection of modem for remote control possible
- high capacity, high accuracy by means of fined adjustment of forming tools and thus constantly, close tolerances and low grinding times
- handling of machine by semi-skilled personnel, whereby one person can handle two or three machines, depending on operation hours of program



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- application of oil- or air-cooled tools is possible.

Spindle bore	122 mm
Bed length	1400 mm
Centre height	300 mm
Steplessly variable speed range	max. 750 1/min

## Glass forming machine 48/06

Item number: VV1-00002

Category: Deforming machines

Machine for production of standard ground joints, ball joints, stop cock barrels, glass threads and flanges, forming of outer joints at flasks, according to machine type, suitable for the forming of tube ends made of borosilicate glass up to 120 mm diameter.

- High forming accuracy due to precise adjustment of forming tools and thus constant, close tolerances and short grinding periods
- Machines can be operated by semi-skilled staff
- Also suitable for small series



Spindle bore	62 mm
Bed length	1350 mm
Centre height	200 mm
Steplessly variable speed range	max. 1000 1/min

## Glass forming machine 48/09

Item number: VV1-00252

Category: Deforming machines

Machine for production of standard ground joints, ball joints, stop cock barrels, glass threads and flanges, forming of outer joints at flasks, according to machine type suitable for the forming of tube ends made of borosilicate glass up to 120 mm diameter.

- High forming accuracy due to precise adjustment of forming tools and thus constant, close tolerances and short grinding periods
- Machines can be operated by semi-skilled staff
- Also suitable for small series



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Spindle bore	92 mm
Bed length	1400 mm
Centre height	300 mm
Steplessly variable speed range	max. 750 1/min

## Glass forming machine 48/012

Item number: VV1-00213

Category: Deforming machines

Machine for production of standard ground joints, ball joints, stop cock barrels, glass threads and flanges, forming of outer joints at flasks, according to machine type suitable for the forming of tube ends made of borosilicate glass up to 120 mm diameter.



- High forming accuracy due to precise adjustment of forming tools and thus constant, close tolerances and short grinding periods
- Machines can be operated by semi-skilled staff
- Also suitable for small series

Spindle bore	122 mm
Bed length	1400 mm
Centre height	300 mm
Steplessly variable speed range	max. 750 1/min

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## Drilling machines

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## Diamond High-speed Drilling Machine 561/02

Item number: VI1-00005

Category: Drilling machines

Execution like no. 561 described before with: -&nbsp;water collecting tank with divided plexiglass windows which can be removed individually-&nbsp;Base-&nbsp;Three-chamber water cascade made from enamelled steel sheet-&nbsp;Individual regulation of pressure by built in pressure gauge



Technical data:	Please see machine no. 561
Weight:	180 kgs
Dimensions with base and water collecting tank:	710x710x420 mm
Working gap:	550x605 mm
Volumetric displacement of pump:	Up to 20 litres/min
Final pressure:	Max. 5 bar
Electric supply:	Please see no 561
Connected power/ Motor/ Total power: /	0,37/ 0,6 / 1 kW
Number of revolutions:	Please see no 561
Standard accessory:	Please see no 561

## Diamond High-speed Drilling machine 561/01

Item number: VI1-00004

Category: Drilling machines

Execution like machine no 561, with water collecting tank with divided plexiglass windows which can be removed individually. Note: Before installation of the diamond high-speed drilling machine, the table which can be used for this purpose has to be provided with a sparing for the waste piece.



Technical data:	Please see no. 561
Weight:	100 kgs
Dimensions of water collecting tank:	690x690x700 mm
Working gab:	550x605 mm
Electric supply:	Please see No. 561
Number of revolutions:	Please see No. 561
Standard accessory:	Please see No. 561

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## Glass drilling- and reaming machine 564/01

Item number: VI1-00002

Category: Drilling machines

In special execution for use of diamond-tipped hollow drills and conical diamond-tipped reamers  
 Construction of Machine:-&nbsp;Heavy drilling machine, vertical type, in solid and precise execution, with sturdy base made from cast iron-&nbsp;Drilling table fully rotating, height adjustable by means of toothed rack and worm gear-&nbsp;Drilling spindle runs on precision ball bearings-&nbsp;Drilling spindle possesses a pole-changing three-phase motor-&nbsp;The stop of drilling depth can easily be adjusted special steel, it is axially bored through and equipped with an attached coolant flushing hinge-&nbsp;Water collecting tank with built-in submerged pump-&nbsp;Pedal switch for actuation of pump  
 Range of application: Suitable for all brittle materials as for instance glass, quartz, ceramics, oxydes etc. Standard accessory: 1 set of tools



Drilling capacity:	1-100 mm into glass
Reaming capacity:	Ns 5 – NS 60
Stroke of drilling spindle:	Approx. 100 mm
Diameter of column:	110 mm
Overhang (centre of column up to centre of spindle):	260 mm
Max. useful height (spindle up to adjustable working table):	90 – 760 mm
Surface of drilling table:	500 x 350 mm
Thread in drilling spindle for accommodation of tools:	R ½"
Volumetric displacement of pump:	Max. 40 litres/min
Dimensions of water collecting tank (lxwxh):	700 x 500 x 320 mm
Working gap:	350x270 mm
Total height:	2050 mm
Weight:	Approx. 300 kgs
Electric supply:	Three-phase current, 230/400 volts, 50 cycles
Connected power/ Motor/ Total power:	0,75/ 1,3/ max. 2,3 kw

## Diamond High-speed Drilling Machine 561

Item number: VI1-00003

Category: Drilling machines

In special execution, for use of diamond-tipped hollow drills and conical diamond-tipped reamers  
 Construction of machine:-&nbsp;Solid drilling machine, table model, with height adjustable drilling table which can be swung laterally and fully rotating-&nbsp;Drilling spindle runs



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on&nbsp;precision ball bearings&nbsp;Drive of drilling spindle by means of three-phase pole-changing motor&nbsp;Drilling spindle made from special stainless steel, axially bored through, with fixed coolant flushing hinge&nbsp;Device of ejection of plugs&nbsp;Stop of drilling depth can easily be adjusted&nbsp;Standard accessory: 1 piece collet chuck for diamond-tipped hollow drills with cylindrical shank 1 set of tools

Drilling capacity:	1 – 30 mm into glass
Reaming capacity:	NS 5 – NS 29
Stroke of drilling spindle:	55 mm
Max. useful height (spindle up to adjusting drilling table)	Up to 275 mm
Surface of drilling table:	230 x 170 mm
Weight:	5 kgs
Water cooling:	By means of connection to water conduit system

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## Grinding machines

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## Grinding machine 510 - 524

Item number: 510 - 524

Category: Grinding machines

Grinding machine with a compact construction, closed housing, with built-in electric motor, grinding spindle runs on ball bearings with Morse taper 3. Construction of machine:

The speed is changed by reversing a V-belt; as far as machines are concerned which are steplessly adjustable, change of speed is effected by means of a tapered disc gear.

The machines according to cat-no. 523 and 524 are also suitable for engraving operations (Kugler-machines) because of their large speed range.



### Grinding machine 510

Item number: VS1-00010

with foot reversing switch

Gear motor:	Three-phase current motor
Electric supply:	230/400 volts 50Hz
Revolutions:	400, 620, 940, 1400, 2200 r.p.m.
Connected power:	0,37 KW
Dimension:	600 mm x 320 mm x 460 mm
Weight:	80 kg

### Grinding machine 510 W

Item number: VS1-00040

without foot reversing switch

Gear motor:	Single-phase A.C.-motor- -without foot reversing switch-
Electric supply:	230 volts 50Hz
Revolutions:	400, 620, 940, 1400, 2200 r.p.m.
Connected power:	0,37 KW
Dimension:	600 mm x 320 mm x 460 mm
Weight:	80 kg

### Grinding machine 521

Item number: VS1-00012

continuously variable rotational speed

Gear motor:	Three-phase current motor
Electric supply:	230/400 volts 50Hz

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Revolutions:	220 - 1100 r.p.m. steplessly
Connected power:	0,37 KW
Dimension:	600 mm x 320 mm x 460 mm
Weight:	80 kg

## Grinding machine 524

Item number: VS1-00022

pole-changeable infinitely variable

Gear motor:	Three-phase current motor, changing motor
Electric supply:	230/400 volts 50Hz
Revolutions:	150 3000 r.p.m. steplessly
Connected power:	0,3/0,55 KW
Dimension:	600 mm x 320 mm x 460 mm
Weight:	80 kg

## Grinding machine 523

Item number: VS1-00011

pole-changeable, changing motor

Gear motor:	Three-phase current motor, changing motor
Electric supply:	230/400 volts 50Hz
Revolutions:	I: 300, 470, 700, 1000, 1640 r.p.m., II: 600, 950, 1400, 2100, 3300 r.p.m.
Connected power:	0,3/0,55 KW
Dimension:	600 mm x 320 mm x 460 mm
Weight:	80 kg

## Horizontal plane grinding machine 540 - 545/1

Item number: 540 - 545/1

Category: Grinding machines

With grinding wheel diameter of 600 up to 1000 mm and either with three different revolution speeds&nbsp;or steplessly variable adjustably revolutions.Construction of machine:Solid, welded steel construction, working spindle runs on grooved ball bearings and tapered roller bearings, drive by means of high-capacity three-phase current motor. Change of speed is&nbsp;performed by changing a narrow V-belt with a five-step V-belt pulley. As far as machines with stepless adjustment are concerned, change of speed is acheived by means of a bevel gear.



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Diameter of grinding wheel:	600 - 1000 mm
Electric supply:	Three-phase current motor, 230/400 volts, 50 cycles
Revolutions:	100, 150, 200 r.p.m.   seplessly variable max 200 U/min
Connected. power:	1,1 KW
Dimensions:	800-1200 mm x 800-1200 mm x 1000 mm
Weight:	300 kg

## Grinding machine 551 W

Item number: VS1-00002

Category: Grinding machines

Construction of machine: Solid, welded steel construction, standing on adjustable rubber feet, equipped with an infinitely variable and vertically flange-mounted motor which is directly connected to a high-quality grinding wheel made of gray cast iron, through an intermediate flange with labyrinth seal. The grinding trough is made of stainless steel sheeting. Standard accessory: 1 piece holding pin (for holding up during exchange of cast iron grinding wheel)



Diameter of grinding wheel:	400 mm
Grinding through (lxbxh):	490 x 490 x 130 mm
Revolutions:	1000 r.p.m.
Electric supply:	230 volts, 50 cycles, single-phase A.C., with cable and shock-proof plug
Connected. power:	0,55 kW
Weight:	70 kg
Dimensions:	490 x 490 x 490 mm

## Belt grinding machine 553/01

Item number: VS1-00013

Category: Grinding machines

For wet and dry grinding operations, for surface grinding and edging as well as for trimming of flat glasses and hollow glass ware. Construction of machine: - solid housing made from gray cast iron - welded base with space for tools (provided for storing of grinding belts) - roller runs on ball bearings - the grinding belt is kept in constant tension by mean of a spring - the grinding rest can easily be exchanged (roller rest or plane adjustment) - backing of grinding belt for hollow glassware - water spray jet with shut-off valve (connection to water conduit system)



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Length of belt:	1830 mm
Width of belt:	100 mm
Dimensions (W x D x H):	590 x 570 x 1660 mm
Electrical supply:	three-phase current 230/400 V, 50 Hz
Connected Power:	1,1 KW
Cutting Speed:	11 m/s
Grinding pressure max:	30 kg
Working height:	1020 mm

## Combined grinding machine 555/2

Item number: VS1-00049

Category: Grinding machines

This grinding machines represents a combination of the continuously variable grinding machine no. 521 and the horizontal-plane grinding machine no. 540/1 which can is infinitely variable as well and processes a grinding wheel made of cast iron, with a diameter of 600 mm. Thus, this machines combines two different working methods in one machine. The grinding trough consists of special stainless steel.



Range of speed:	220–1100 r.p.m.
Horizontal plane grinding machine:	max. 200 r.p.m.
Connected power:	1,5 Kw
Standard accessory:	1 piece foot reversing switch   1 piece ejector

## Horizontal plane-grinding machine 553/50

Item number: VS1-00006

Category: Grinding machines

A handy and high-capacity universal grinding machine for surface grinding, bevelling and edging, suitable for wet grinding as well as for short-time dry grinding.



Diameter of grinding wheel:	250 mm
Weight:	13 kg
Dimensions (BxTxH):	470 x 340 x 360 mm
Electric supply:	Single-phase A.C., 230 volts, 50 cycles

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 Amtsgericht Limburg HRB-Nr. 3071 Geschäftsführer: Dipl.-Ing. Wolfram Arnold

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 Website: www.h-arnold.de

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Connected power:	0,3 kW
Number of revolutions:	2800 r.p.m.

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## Merging machines

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