



AMARGO

Butt, electrofusion,
polifusion
welding machines for
pipes and fittings

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Electrofusion welding machine for welding pipes and fittings of PE and PP (without registration)

Basic technical parameters

	ZERN-800	ZERN-2000	ZERN-3300
www.amargo.pl			
Pipes diameter range	~230[V] 50[Hz] ±10[%]		
Power voltage			
Total power	1250W	2200W	3300W
Weight [kg]	~12	~24	~27
Dimensions [mm]	390x240x160	430x280x180	430x280x180
Welding time [sec]	10÷5000sec (adjustment every 0,1sec)		
Cooling time [sec]	1÷99 min (adjustment every 1 min)		
Work temperature	-5 ÷ +40°C		
Wire length [m]	3m		
Protection range	IP55		
Number of welds	0		
Option of protocol print out	NO		
NET PRICE	2 815,00PLN	4 360,00PLN	5 125,00PLN
to fi 110mm	to fi 250mm	to fi 400mm	

Electrofusion welders are versatile devices for joining pipes and fittings of thermoplastics (PE, PP) by using a bead shaped like sockets, tees, elbows, caps, reducers, saddles, etc. Connections of this type are widely used in the construction of pipelines: gas, water, sewage, industrial installations, etc. Lightweight unit for easy transport and perform welding even in the toughest conditions. Controls and Operating Systems are tailored to work with the network energy ~ 230 [5% -10%], 50Hz and power generators. Ends of connecting leads are fitted with universal quick-tip ends 5 fi4. Power cord and connection cables of 3m. The device has a current and overcurrent differential protection.

Description of welder:

Electrofusion welding machines have the ability to set parameters: either manually or by direct input of digital shapes (called barcode) using the keyboard or by using the optional barcode scanner. automatic welding of flexible working hours to ambient temperature. the electronic control system is constantly adjusting to changes in parameters power. automatic manner in which the welding process,

ensuring ease of use and reliability of the seal.

Accessories (optional):

1. Scanner (reader) of bar codes.
2. Roller cutters for pipes.

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Welders for pipes
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Electrofusion welding machine for welding pipes and fittings of PE and PP (with registration)

Basic technical parameters

	ZEEN-800	ZEEN-2000	ZEEN-3300
Pipes diameter range	to fi 110mm	to fi 250mm	to fi 400mm
Power voltage	~230[V] 50[Hz] ±10[%]		
Total power	1250W	2200W	3300W
Weight [kg]	~12	~24	~27
Dimensions [mm]	390x240x160	430x280x180	430x280x180
Welding time [sec]	10÷5000sec (adjustment every 0,1sec)		
Cooling time [sec]	1÷99 min (adjustment every 1 min)		
Work temperature	-5 ÷ +40°C		
Wire length [m]	3m		
Protection range	IP55		
Number of welds	400 full cycles		
Option of protocol print out	YES - included software to transfer, programming, and print data from a computer protocol PC		
NET PRICE	4 360,00PLN	5 890,00PLN	6 660,00PLN

Electrofusion welders are versatile devices for joining pipes and fittings thermoplastics (PE, PP) by using a bead shaped like sockets, tees, elbows, caps, reducers, saddles, etc. Connections of this type are widely used in the construction of pipelines: gas, water, sewage, industrial installations, etc. Lightweight unit for easy transport and perform welding even in the toughest conditions. Controls and Operating Systems are tailored to work with the network energy ~ 230 [5% -10%], 50Hz and power generators. Ends of connecting leads are fitted with universal quick-tip ends fi5 fi4. Power cord and connection cables of 3m. The device has a current and overcurrent differential protection.

Description of sealers:

Electrofusion welding machines have the ability to set parameters: either manually or through the introduction of digital code shapes (called barcode) using the keyboard or by use the optional barcode scanner. automatic adjustment of working time fusion to ambient temperature. the electronic control system for adjusting the keep the change in the power supply. automatic manner in which the welding process. ensures ease of use and reliability of the seal. Memory of last 400 welds (no weld,

date. time. operator code. the code
construction. welding voltage, welding
time. cooling time.
assessment of the weld or an error code),
software to communicate with the PC
allowing the transmission of bidirectional,
data printout of the execution protocol,
programming device
from your computer. option to print on the
optional portable thermal printer (for
example, directly
on site).

Accessories (optional):

1. Scanner (reader) of bar codes.
2. Roller cutters for pipes.
3. Portable thermal printer.

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Welders for pipes
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Polifusion welder for welding pipes of PE and PP

Basic technical parameters

	ZPEN-40	fi 16-75mm	fi 16-110mm
Welded pipes range 16-40mm	fi	~230[V] 50[Hz] ±10[%]	
Power voltage		1200W	1600W
Total power	900 W	190-280°C ±1%	
Temperature range			
	ZPEN-75	ZPEN-110	
Work temperature		~16kg	~19kg
Storage temperature	fi 16, 20,25,32,40	1 490,00PLN	1 860,00PLN
Power wire length	~14kg		
Replacable heating matrix (set.)	990,00PLN 5-40°C		
Whole set weight	-20 - +50°C		
NET PRICE		3m	
	fi 16, 20, 25,35, 40, 50, 63, 75	fi 25, 32, 40, 50, 63, 75, 90, 110	

Polifusion welders are used for welding pipes and fittings of thermoplastics (PE, PP, PVDF, PB), such as sockets, tees, elbows, plugs, adapters - different systems, by thermal method by welding of pipes and fittings (by fusing the surface of the socket of fitting and the external surface of the pipe).

Pipelines constructed by this method are widely used in the construction of pipelines of mainly hot and cold water installation and c.o. and other transmission networks using the polifusion method.

Description of welder:

- Microprocessor-based measurement system and temperature control
- Temperature of 180-280°C ± 1%
- Compensation of temperature of measured object.
- Readout of the actual temperature on the digital display built into the handle.
- Control by the keyboard control panel, replacable heating refill.
- Interchangeable heating matrices, screws for fixing of fittings.
- Vice for fixing the edge of the table, stand with the extension,

- The key to the fittings,
- Transport metal box.

Accessories (optional):

1. Fastening system of pipes and fittings (centrator) - recommended for welding pipes and fittings of diameters of 40 - 110mm with a set of reduction refillers.
2. Pipe cutters.
3. Pipe chamfers.

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Hvdraulic butt welder for weldina PE and PP pipes without the recorder

Basic technical parameters

	ZHCN-160	ZHCN-250	ZHCN-315
Welded pipes range	fi 50 - 160	fi 75 - 250	fi 90 - 315
Power voltage		~230V 50Hz	
Total power	1,9kW	2,5kW	3,2kW
Whole set weight	~90kg	~130	~152
Components parameters			
Hydraulic power unit	2,5l 100bar, 0,55kW,42kg	2,5l 100bar, ~0,37kW,42kg	2,5l 100bar, 0,55kW,42kg
2-sided manual milling unit	[fi50-160] 550W, 8kg	[fi 75-250] 0,75kW, 15kg	[fi 160-315] 750W,21kg
Heating plate Joining-fixing device	[fi50-160] 900W, 2kg	[fi75-250] 1,6kW, 5kg	[fi160-315] 1,8kW, 7kg
Replacable brackets[set.]	F=~980kG, 29kg ~10kg	F=~1000kG, 37kg 27kg	F=~1000kG, 43kg 37kg
NET PRICE	from 22 125,00PLN from 24 660,00PLN from 26 725,00PLN		

Butt welders are used for welding pipes and fittings of thermoplastics such as polyolefins (eg PE, PP) by thermal bonding. Butt seals are permanent joints characterized by very high strength with ease of use and high certainty (integrity), and economics. Butt-welding machines are widely used in

construction of pipelines: gas, water, sewage, industrial installations and also for the addition of casing pipes for the installation of telecommunications, energy, etc.

Lightweight yet durable construction made of aluminum alloy for easy transportation and carrying welds even in the toughest conditions. The use of high quality materials ensures a long trouble-free operation, and the fact that the device is fully manufactured in Poland guarantees continuous availability of spare parts, and in case of accident damage can be repaired very quickly.

Description of welder:

Versions of ZHCN-160-250 and ZHCN-315 are a set of hydraulic butt welder allows you to make connections for high quality pipes and fittings in diameters ranging from:

- ZHCN-160: 50 fi - fi 160,
- ZHCN-250: 75 fi - fi 250,
- ZHCN-315: 90 fi - fi 315th

Clamp control is done electromagnetically

Devices are suited to work from the

network and from the power generators.

The set includes:

ZHCN-160

CN-250

CN-315

Hvdraulic-IHRT 2.5 T the device of fixing-Integration UMSN-160, Bilateral Electric router- FRDN 160 hob PGFN-160 Reducing refills WW7N-160 fi 63 75 90 110 125 (Optional fi 50, 140).

Hvdraulic IHRT-2.5 device of fixing-Integration UMSN-250 Bilateral Electric Router FRDN-250 CD hob PGFN-250 Reducing refills WW7N-250 fi 90 110, 125, 160, 180, 200, 225 (Optional fi 75.140).

Hvdraulic IHRT-2.5 device of fixing-Integration UMSN-315, Bilateral Electric Router FRDN-315 hob PGFN-315 reducing refills WWZN fi-315 160, 180, 200, 225, 250 280 (Optional fi 90, 110, 125, 140).

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Hvdraulic butt welder for weldina PE and PP pipes without the recorder

Basic technical parameters

	ZHCN-400	ZHCN-500
Welded pipes range	fi 160 - 400	fi 315 - 500
Power voltage	~230V 50Hz	
Total power	3,5kW	4,0kW
Whole set weight	~198kg	~265kg

COMPONENTS PARAMETERS

Hydraulic power unit	2,5l 160bar, 0,55kW,42kg	2,5l 160bar, 0,55kW,42kg
2-sided manual milling unit	[fi160-400] 0,75kW, 31kg	[fi 315-500] 0,75kW, 60kg
Heating plate	[fi160-400] 2,1kW, 9kg	[fi315-500] 2,7kW, 18kg
Jointing-fixing device	F=~2000kG, 71kg	F=~2000kG, 112kg
Replacable brackets[set.]	~42kg	~52kg
net price	from 34 035,00PLN	from 46 120,00PLN

BUTT WELDERS ARE USED FOR WELDING PIPES AND FITTINGS OF THERMOPLASTICS SUCH AS POLYETHYLENE (EG PE, PP) BY THERMAL BONDING. BUTT SEALS ARE PERMANENT JOINTS CHARACTERIZED BY VERY HIGH STRENGTH WITH EASE OF USE AND HIGH CERTAINTY (INTEGRITY), AND ECONOMICS. BUTT-WELDING MACHINES ARE WIDELY USED IN CONSTRUCTION OF PIPELINES: GAS, WATER, SEWAGE, INDUSTRIAL INSTALLATIONS AND ALSO FOR THE ADDITION OF CASING PIPES FOR THE INSTALLATION OF TELECOMMUNICATIONS, ENERGY, ETC. LIGHTWEIGHT YET DURABLE CONSTRUCTION MADE OF ALUMINUM ALLOWS FOR EASY TRANSPORTATION AND CARRYING WELDS EVEN IN THE TOUGHEST CONDITIONS. THE USE OF HIGH QUALITY MATERIALS ENSURES A LONG TROUBLE-FREE OPERATION, AND THE FACT THAT THE DEVICE IS FULLY MANUFACTURED IN POLAND GUARANTEES CONTINUOUS AVAILABILITY OF SPARE PARTS, AND IN CASE OF ACCIDENT DAMAGE CAN BE REPAIRED VERY QUICKLY.

DESCRIPTION OF WELDER:
VERSIONS OF ZHCN-400, ZHCN-500, IS A SET OF HYDRAULIC BUTT WELDER ALLOWING CONNECTIONS TO BE MADE OF HIGH QUALITY PIPES AND FITTINGS IN DIAMETERS FROM:
- ZHCN-400: FI 160 - 400 FI,
- ZHCN-500: FI 315 - 500TH FI

DEVICES ARE SUITED TO WORK WITH THE
GRID AND FROM THE POWER GENERATORS.

The set includes:

ZHCN-400

HYDRAULIC UHRT-2 5 THE DEVICE
OF FIXING-INTEGRATION UIMSN-400 BILATERAL
ELECTRIC ROUTER FRDN-400 HOR PGEN-400
REDUCING REFILLERS WWZN-400 FI 250, 280, 315,
355
(OPTIONAL FI 160, 180, 200, 225).

ZHCN-500

HYDRAULIC UHRT-2 5 THE DEVICE
OF FIXING-INTEGRATION UIMSN-500 BILATERAL ELECTRIC
ROUTER FRDN-500 HOR
PGEN-500, REDUCING REFILLERS WWZN-500 FI
400, 450
(OPTIONAL FI 315, 355).

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Hvdraulic butt welder for weldina PE and PP pipes with a recorder

BASIC TECHNICAL PARAMETERS

	ZHCN-160E	ZHCN-250E	ZHCN-315E
WELDED PIPES RANGE	fi 50 - 160	fi 75 - 250	fi 90 - 315
POWER VOLTAGE		~230V 50Hz	
Total power	1,9kW	2,5kW	3,2kW
Whole set weight	~90kg	~130	~152
Hydraulic power unit	Components parameters		
2-sided manual milling unit	2,5l 100bar, 0,55kW,42kg [fi50-160] 550W, 8kg	2,5l 100bar, ~0,37kW,42kg [fi 75-250] 0,75kW, 15kg	2,5l 100bar, 0,55kW,42kg [fi 160-315] 750W,21kg
Heating plate Jointing-fixing device	[fi50-160] 900W, 2kg	[fi75-250] 1,6kW, 5kg	[fi160-315] 1,8kW, 7kg
Replacable brackets [set.]	F=~980kG, 29kg ~10kg	F=~1000kG, 37kg 27kg	F=~1000kG, 43kg 37kg
NET PRICE	from 29 170,00PLN	from 31 710,00PLN	from 33 820,00PLN

Butt welders are used for weldina pipes and fittings of thermoplastics such as polyolefins (eg PE, PP) by thermal bonding. Butt seals are permanent joints characterized by very high strength with ease of use and high certainty (integrity), and economics. Butt-weldina machines are widely used in construction of pipelines: gas, water, sewage, industrial installations, as well as for the addition of casing pipes for the installation of telecommunications, energy, etc. Lightweight yet robust aluminum alloy allows for easy transportation and welding performance even in the toughest conditions. The use of high-quality materials ensures long trouble-free operation, and the fact that the device is fully manufactured in Poland ensure continuous availability of spare parts, and in case of failure a very fast repair of the damage.

Description of welder:

Versions ZHCN-160E,-250E and ZHCN ZHCN-315E is a set of semi-butt welders. In addition to standard equipment units with a microcomputer system for monitoring the technical, presentation, business transactions and registration process. The kit includes: software and connection cable to transfer recorded data to a desktop PC. The device also features a battery backup system that allows stable operation at variable power and control parameters and timing during the cooling process of the finished weld under pressure, without the need for external power supply such as generator.

The set includes:

CN-250E

CN-315E

Hvdraulic UHRT-2 5T
 device of fixing-Integration
 IIMSN-160 Bilateral Electric
 Router FRDN-160,
 Hoh PGFN-160
 Reducing refillers WWZN-160 fi 63,
 75,
 90 110 125
 (Optional fi 50 140)
 The RZEN-550 weld recorder
 + Software and
 Connection cable

Hvdraulic UHRT-2 5
 device of fixing-Integration
 IIMSN-250 Bilateral Electric
 Router FRDN-250,
 HohPGFN-250
 Reducing refillers WW7N-250 fi 90,
 110 125 160 180, 200, 225
 (Optional fi 75).
 The R7FN-550 weld recorder
 + Software and
 Connection cable

Hvdraulic UHRT-2 5
 device of fixing-Intearation IIMSN-315,
 Bilateral Electric Router FRDN-315,
 hoh PGFN-315
 Reducing refillers WW7N fi-315 160,
 180 200 225 250 280
 (Optional fi 90 110 125
 140). weld Recorder
 RZEN-550 + software and
 cable

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Hvdraulic butt welder for weldina PE and PP pipes with a recorder

Basic technical parameters		
	ZHCN-400E	ZHCN-500E
Welded pipes range	fi 160 - 400	fi 315 - 500
Power voltage	~230V 50Hz	
Total power	3,5kW	4,0kW
Whole set weight	~198kg	~265kg
Components parameters		
Hydraulic power unit	2,5l 160bar, 0,55kW,42kg	2,5l 160bar, 0,55kW,42kg
2-sided manual milling unit	[fi160-400] 0,75kW, 31kg	[fi 315-500] 0,75kW, 60kg
Heating plate Jointing-fixing device	[fi160-400] 2,1kW, 9kg	[fi315-500] 2,7kW, 18kg
Replacable brackets	F=~2000kG, 71kg	F=~2000kG, 112kg
[set.]	~42kg	~52kg
NET PRICE	from 34 025,00PLN	from 46 120,00PLN

Butt welders are used for welding pipes and fittings of thermoplastics such as polyolefins (eg PE, PP) by thermal bonding. Butt seals are permanent joints characterized by very high strength with ease of use and high certainty (integrity), and economics. Butt-welding machines are widely used in construction of pipelines: gas, water, sewage, industrial installations, as well as for the addition of casing pipes for the installation of telecommunications, energy, etc. Lightweight yet robust aluminum alloy allows for easy transportation and welding performance even in the toughest conditions. The use of high-quality materials ensures long trouble-free operation, and the fact that the device is fully manufactured in Poland ensure continuous availability of spare parts, and in case of failure a very fast repair of the damage.

Description of welder:

Versions of ZHCN-400E, ZHCN-500E, is a set of hydraulic butt welder allows you to make connections for high quality pipes and fittings in diameters ranging from:

- ZHCN-400E: 160 fi - fi 400,
- ZHCN-500E: fi 315 - 500th fi

The kit includes: software and connection cable to transfer recorded data to a desktop PC. The device also features a battery backup system that allows stable operation at variable power and control parameters and timing during the cooling process of the finished weld under pressure, without the need for external power supply such as generator.

The set includes:

ZHCN-400E

Hydraulic UHRT-2, 5, the device
of fixing-Integration UMSN-400 Bilateral Electric
Router FRDN-400 hob PGEN-400
Reducing refillers WWZN-400 fi 250, 280, 315, 355
(Optional fi 160, 180, 200, 225) welds recorder
RZEN-550 + software and connection cable

ZHCN-500F

of fixing-Integration UMSN-500 Bilateral Electric Router
FRDN-500 hob
PGEN-500, reducing refillers WWZN-500 fi
400, 450
(Optional fi 315, 355)
welds recorder RZEN-550 + software and connection cable

Hydraulic UHRT-2, 5, the device

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Welders for pipes and
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Hvdraulic butt welder for weldina PE and PP pipes with a recorder

Basic technical parameters

	2,5l 160bar, 0,75kW, 52kg	2,5l 160bar, ~0,75kW, 40kg	~680kg
Welded pipes range	[fi355-630] 1,1kW, ~90kg	[fi 630-800] 1,1kW, ~70kg	126 790,00PLN
Power voltage	[fi355-630] 4,8kW, ~30kg	[fi 630-800] 5,2kW, ~30kg	
Total power	F=~2250kG, ~260kg	F=~3500kG, ~320kg	
Whole set weight			
Hydraulic power unit	~260kg	~200kg	
2-sided manual milling unit	from 71 095,00PLN	91 591,00PLN	
Heating plate	ZHCN-1200E		
Jointing-fixing device	fi 710 - 1200 (PN 2,5-PN16)		
Replacable brackets [set.]	24kW ~1500kg		
NET PRICE			

ZHCN-630E

fi 355 - 630

6,5kW

~640kg

ZHCN-800E

fi 60 - 800

~400V 50Hz

6,4kW

~700kg

Components parameters

4,0l 160bar,
1,5kW, 70kg
[fi 710-1200]
2,2kW, 250kg
[fi 710-1200]
20kW, ~120kg
F=~3500kG,
~380kg

Butt welders are used for weldina pipes and fittinas of thermoplastics such as polyolefins (eg PE, PP) by thermal bonding. Butt seals are permanent ioints characterized by very high strength with ease of use and high certainty (integrity), and economics. Butt-weldina machines are widely used in construction of pipelines: aas. water, sewage, industrial installations. as well as for the addition of casina pipes for the installation of telecommunications, energy, etc. Lightweight vet robust aluminum alloy allows for easy transoportation and weldina performance even in the toughest conditions. The use of high-ualitv materials ensures lona trouble-free operation. and the fact that the device is fully manufactured in Poland ensure continuous availability of spare parts. and in case of failure a very fast repair of the damage.

Description of sealers:

Versions ZHCN-630E.-800E and ZHCN ZHCN-1200 is a set of semi-butt welders. In addition to standard equipment units with a microcomputer svstem for monitorina the technical. presentation, business transactions and reaistration process. The kit includes: software and connection cable to transfer recorded data to a desktop PC. The device also features a batterv backup svstem that allows stable operation at variable power and

control parameters and timing during the cooling process of the finished weld under pressure. without the need for external power supply such as generator.

The set includes:

ZHCN-630E

HCN-800E

HCN-1200E

Hydraulic UHFEN-2 5AT
 device of fixing-Integration
 UMSN-630 Bilateral Electric Router
 FRDN-630 hob
 PGFN-630 reducing refillers
 WWZN-630 fi 400, 450, 500, 560
 (Optional fi 355),
 RZEN-550 welds recorder
 software and connecting cable

Hydraulic-UHEN
 2 5 AT-device of
 fixing-Integration UMSN-800
 Bilateral Electric Router FRDN
 800 hob PGFN-800
 Reducing refillers WWZN-800 fi
 630 710
 RZEN -550 welds recorder
 software and connecting cable

Hvdraulic UHFEN AT-4
 device of fixing-Integration
 UMSN-1200 Bilateral Electric Router
 FRDN-1200 motherboard
 Heating PGFN-1200
 Reducing refillers WWZN-1200 fi 710,
 800 900 1000
 RZEN-550 welds recorder
 software and connecting cable

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Hydraulic workshop butt welder for production of elbows, tees of pipes: PE, PP.

Basic technical parameters

	ZHSN-315
Welded pipes range	fi 90 - 315
Power voltage	400V, 50Hz
Total power	4,5kW
Parameters of components included in the station:	
Holding-down device UHSN-315	0,55kW, 180kg
Electric two-sided milling machine FSDN-315	0,75kW, 40kg 3,2Kw, 20kg
Heating plate PGSN-315	Jointing brackets for elbows fi 90-315
Locking brackets for arcs	(0-25°)
Locking brackets for tees	Jointing brackets for tees fi 90-315 (45°)
replacable brackets [set.]	fi 90, 110, 125, 160, 180, 200, 225, 250, 280, (80kg) ~320kg
Whole set weight	44 835,00PLN*
NET PRICE	

* price concerns base station without brackets

Workshop butt welder is designed for the manufacture of the nine segments made of thermoplastics such as polyolefins (eg PE, PP) by butt method in diameters fi 90 - 315mm. Sectional elements made using the method of butt welding are of high strength, tightness, ease of performance and economy. They are used extensively in the construction of pipelines: gas, water, sewage and industrial installations.

using the presented device one can make these elements:

- Arcs (elbows) of any corner of the unit (0-25°). This allows for the execution of finished items depending on the number of segments: (30°, 45°, 60°, 90°, etc.).
- Tees using special mounting clips.

A set of hydraulic butt welder made in the form of independent workshop position. Control of all equipment forming part of the machine is from the front panel. Clamp control is electromagnetically. The temperature of heating plate is adjustable and regulated by the precise electronic control. Devices are suited for continuous operation.

The position includes:

- Clamping device UHSN-315 form the basis of the integrated unit hydraulic.
- Electric double-sided milling FSDN-315,
- Hob PGSN-315.

Milling and plate are installed on the bearing guide.

* The above prices are approximate and may change. Any discounts negotiated individually. Please send requests by fax or e-mail. For all transactions, the general conditions of sale available on the website www.amargo.nl or directly at the headquarters of AMARGO.

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