

Cooling Lubricant Hose System

ARIANA

Cool-Line-System

This is where it belongs to!



Zertifikat

Zertifikat über die Anerkennung eines Managementsystems nach DIN EN ISO 9001:2000

Certificate for an approval of a management system according to
DIN EN ISO 9001:2000

Zertifikatsinhaber: **ARIANA Industrie GmbH Marketing**
Holder of Certificate: **Zum Lausbühl 3 · 79227 Schallstadt**



Geltungsbereich: **Entwicklung,**
Scope: **Montage und Vertrieb**
von Kunststoff-Gelenkschlauchsystemen für
Werkzeugmaschinen, Kühlschmierstoffwartungs-
anlagen und Dosiereinrichtungen



Der Zertifikatsinhaber hat nach SES 45012 T2 alle notwendigen Nachweise erbracht, dass ein Managementsystem nach DIN EN ISO 9001:2000 wirksam ist.

The holder of certificate has adduced all required evidence according to the SES 45012 T2 in order to prove that an effective management system is implemented according to
DIN EN ISO 9001:2000.

SECert

Hinter dem Dorfe 2b
D-31162 Bad Salzdetfurth



Leiter der Zertifizierungsstelle
Dipl.-Ing. Stephan Eierund

Ausgestellt am: **23.08.2007**
Issued at:

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Valid to:



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Power-Vac-Pump



Order-no.: 0321000

The **ARIANA-Power-Vac-Pump** is a dual acting suction-force pump operating with compressed air. It is mainly used for the filling and deflation of coolant and lubricant containers. The tool is designed for a fast and smooth installation on a barrel. It is screwed on the barrel's faucet hole (3/4 inch) and connected with compressed air. A conveyer tube is mounted on the other barrel's faucet hole (2 inch).

The Power-Vac-Pump requires app. 8 bar compressed air. Thus a filling or a deflation of app. 60 l/min is possible. An automatic closure valve is used as in-/ outlet-control and avoids an overrun.

The Power-Vac-Pump generates a low pressure within the barrel whereby used coolants, abrasive slurry, metal remains etc. out of coolant reservoirs as well as waste liquids out of chemicals reservoirs can be exhausted. Due to a simple switch the operator effects a reversion of the application, which generates an overpressure within the barrel whereby coolants and lubricants as well as liquid chemicals can be pumped in the machine. The Power-Vac-Pump can be also used in explosion-proof areas.

The Power-Vac-Pump contains the following accessories: plug nipple, conveyer tube as well as a hose connection.



Order-no.: 0389001



Hot & Cold-Gun



Order-no.: 0331000

The **ARIANA Hot & Cold-Gun** is driven by compressed air and is used for punctual heating or cooling of metal and plastic parts on machine tools. It features a dual function: producing both hot and cold air. The hot air is used for fast drying and heat treating. The cold air is especially used where the application of coolants and lubricants is not desired. The Hot & Cold-Gun is also used in laboratories for several applications.

The efficiency of the Hot & Cold Gun depends on the humidity of the available compressed air: at approximately 8 bar air pressure with a comparative low air humidity (for example at + 10°C) it is possible to reach - 30 °C to + 60 °C.

The accessory of the Hot & Cold-Gun mainly consists of **ARIANA-Cool-Line-System** parts.



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Refractometer



Order-no.: 0521000 (0 - 32°)

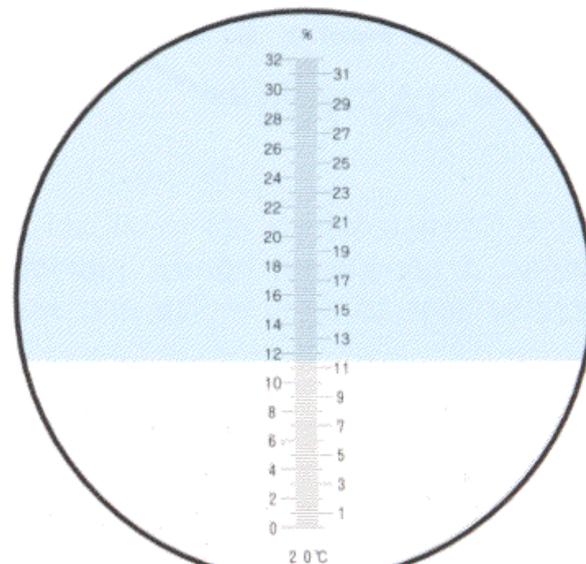
Order-no.: 0521001 (0 - 15°)

The portable **ARIANA-Refractometer** is an essential instrument to control the concentrations of coolants and lubricants. It allows a quick and accurate measurement of the concentration. By means of this instrument fluids can always be used in the optimal concentration.

The Refractometer offers the following advantages:

1. better utilisation of machine tools
2. higher expectancy of life for the tools
3. avoiding of grid caused by low concentrated emulsions
4. possibility to vary the concentration of the emulsion according to the requirements
5. cost reduction

The chart of the Refractometer is well exposed and easy to read.



0 ~ 32 %



Mono-Mixing-Unit



Order-no.: 512000

A Mixing-Unit is an essential device for mixing of emulsions and lubricants. By means of a needle control valve the **ARIANA-Mono-Mixing-Unit** allows a fast and exact adjustment of the emulsion-concentration. For this reason liquids can be mixed in an optimal concentration.

The Mono-Mixing-Unit disposes one water-entrance and one concentrate entrance. The user can assume from a once acquired, optimal mixing ratio. Of course the mixing ratio can be changed easily at anytime. For safety reasons a non-return valve is installed on the water entrance so that any pull to the potable water can be avoided.

The Mono-Mixing-Unit is the basic version of the Mixing-Unit-Series. By means of the appertaining oil drum connecting set the Mixing-Unit can be installed on a barrel fast and easy. The tool is easy to handle and extremely compact.



Example: Adjustment of a mixing-ratio

rotations	mixing-ratio
5	app. 3,0%

Technical data:

water entrance	inch	1/2
mixed fluid outlet	inch	1/2
concentrate entrance	inch	3/8
mixing volume	l/h	540



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Duo-Mixing-Unit



Order-no.: 511000

A Mixing-Unit is an essential device for mixing of emulsions and lubricants. By means of two needle control valves the **ARIANA-Duo-Mixing-Unit** allows a fast and exact adjustment of the emulsion concentration. For this reason emulsion can be mixed in an optimal concentration.

The Duo-Mixing-Unit disposes one water entrance and two concentrate entrances. The user can assume from a once acquired, optimal mixing ratio. Of course the mixing ratio can be changed easily at any time. For safety reasons a non-return valve is installed on the water entrance so that any pull to the portable water can be avoided.

The Duo-Mixing-Unit comes, in contrary to the Mono-Mixing-Unit, with two concentrate entrances. This allows the mixing of two different concentrates without a new installation of the tool.

Example: Adjustment of a mixing ratio

rotations	mixing ratio
5	app. 3,0%



Technical data:

water entrance	inch	1/2
mixed fluid outlet	inch	1/2
concentrate entrances	inch	3/8
mixing volume	l/h	540



Operation-Control for Mixing-Units



Order-no.: 0513500

One of the common reasons for overflowed emulsion reservoirs on machine tools is inattention during the filling process of those reservoirs. Often attention is paid to other activities after the filling process is initialized. Extensive and time-consuming cleaning procedures on the overflowed emulsion reservoirs and their surface are the arguable result.

Remedy to this problem is realized through the **ARIANA-Operation-Control** for Mixing-Units:

With the support of a timed relay on the Operation-Control the desired amount of litres of the required emulsion quantity can easily be programmed. The mixing procedure will be started through pushing the power button. Arriving the required emulsion quantity the Operation-Control automatically stops the supply of liquids.

The Operation-Control for Mixing-Units ensures a trouble-free working process during the mixing procedure.

The supervision of the emulsion reservoirs during the mixing procedure is not necessary any longer.



Hose-Skimmer

Leak oils favours bacteria cultivation, generates deposits waste on machine tools and work pieces, causes oil fog and reduces cooling capacity as well as the emulsion's oxygen absorption.

The consequences are: higher costs of waste disposal, corrosion, bacteria infestation, unpleasant odors, worse cooling effect, skin problems, etc.

The **ARIANA-Hose-Skimmer** offers the solution to remove the discharged oil on the emulsions surface. Due to the application of self-cleaning, oil-conveying special hoses, the leak oil is removed and stripped at the Hose-Skimmer. The application of filters and micro-porous membranes is not required. Thus the operating expenses as well as the consequential costs can be reduced. The Hose-Skimmer is equipped with an oil separating device and ensures a separation of external oils up to 90%.



Order-no. 0541021

Assembling

The Hose-Skimmer is assembled above the emulsion reservoir by means of a magnetic plate- best place is the opposite point of the fluid inlet. The base plate of the power unit must be placed about 300 mm over the highest possible fluid level. On the fluid outlet a hose must be attached leading to the catchment tank.

Operation

The Hose-Skimmer can be used either for continuous or intermittent operation. Length and time can be controlled by use of a clock timer. It is recommended to use the Hose-Skimmer during the operation time of the machine tool.

The hose is moving through the floating oil film and separates it from the fluid. In the Hose-Skimmer the oil is separated and transported to the catchment tank beyond the machine tool.

Technical data

power plug	V	230
weight	Kg	4,5
hose diameter	mm	5
engine output	l/h	3



Micro-System Minimal-Amount-Lubrication



Order-no.: 0551000

The **ARIANA-Micro-System** is based on a coaxial spray nozzle, which generates a round stream. By means of turning the spray nozzle, several spray cones can be generated for many applications.

The coaxial sprayer works pneumatic and is provided with a medium by a separate unpressurized container.

The small installation size requires only little space. For difficult accessible areas the nozzle can be adapted by means of the **ARIANA-Cool-Line-System**.

The special cone nozzle technique allows the application of different fluids ranging from water soluble coolants to viscous cutting oils.

By request a magnetic valve can be interposed for working with tact lubrication.

Technical data

compressed air	bar	app. 8
fluid	cSt.	28 – 500
conveyance quantity	ml-mm	5 - 40



Maintenance-Station R-2000 for cooling lubricants

Contaminations of coolants and lubricants during the production process in consequence of external oil and particulate material are unavoidable.

By means of the **ARIANA-Maintenance-Station R-2000** emulsions and fluids can be optimal cleaned and tended during the production process. The lifetime of emulsions will multiple increase and the disposal costs are reduced to a minimum.

Applications

turning lathes

milling machines

grinding machines

component cleaners

quenching bath box



Order-no. 0541020

Advantages

- removes simultaneously external oils and particulate material
- automatic operation via bypass principle without personnel placement
- avoids smell and danger of infections
- extension of lifetime with lubricants and tools
- reduces disposal costs up to 50%



Application

Cooling lubricant on wet-cutting machines subject to a strong contamination. External implemented oils (of the different application areas), fluids and greases deposit on the surface of the cooling lubricant, prevent in higher concentration the vital exchange of oxygen.

In consequence of the interaction of floated and sedimented particulate material, an ideality nutrient solution is established for bacteria and fungi, responsible for the corrosion of the cooling lubricant.

A continuous maintenance by removing these particulate material regularly prolongs the life time of the cooling lubricant and reduces the disposal costs.

Function

The **ARIANA-Maintenance-Station R-2000** exhausts a mixture of oils and particulate material from the surface of the emulsion.

This mixture is separated within the Maintenance-Station and returns to the machine tool, whereas the filtered oil flows into the separate catchment tank. The Maintenance-Station is equipped with a 100 μ filter.

The separating of oil and emulsion is effected in a physical sparing method so that the emulsion can not be negative affected by skidding or else. Floating and turbulenced external oils will be removed up to 97%.

The maintenance of the emulsion is an automatic operation via bypass principle without personnel placement and machine tool downtime.

Technical details

- ⌚ eccentric worm pump
- ⌚ electric motor
- ⌚ made of stainless steel
- ⌚ all hose connections with one hand couplings
- ⌚ completely assembled, available for assignment, including accessories

Technical data		
motor	kWh	0,37
power plug	V	230
flow rate	l/h	350
dimensions	mm	860 x 830 x 440 (H x L x D)
weight	Kg	65
temperature of liquids	°C	40 (max.)



Maintenance-Station R-3000 for cooling lubricants

Contaminations of coolants and lubricants during the production process in consequence of external oil and particulate material are unavoidable.

By means of the **ARIANA-Maintenance-Station R-3000** emulsions and fluids can be optimal cleaned and tended during the production process. The lifetime of emulsions will multiple increase and the disposal costs are reduced to a minimum.

Applications

- turning lathes
- milling machines
- grinding machines
- component cleaners
- quenching bath box



Order-no.: 0541000

Advantages

- removes simultaneously external oils and particulate material
- automatic operation via bypass principle without personnel placement
- avoids smell and danger of infections
- extension of lifetime with lubricants and tools
- reduces disposal costs up to 50%



Application

Cooling lubricant on wet-cutting machines subject to a strong contamination. External implemented oils (of the different application areas), fluids and greases deposit on the surface of the cooling lubricant prevent in higher concentration the vital exchange of oxygen.

In consequence of the interaction of floated and sedimented particulate material, an ideality nutrient solution is established for bacteria and fungi, responsible for the corrosion of the cooling lubricant.

A continuous maintenance by removing these particulate material regularly prolongs the life time of the cooling lubricant and reduces the disposal costs.

Function

The **ARIANA-Maintenance-Station R-3000** exhausts a mixture of oils and particulate material from the surface of the emulsion.

This mixture is separated within the Maintenance-Station and returns to the machine tool, whereas the filtered oil flows into the separate catchment tank. The Maintenance-Station is equipped with a 100µ filter by default (change-over with 50µ or 25µ filters possible).

The separating of oil and emulsion is effected in a physical sparing method so that the emulsion can not be negative affected by skidding or else. Floating and turbulenced external oils will be removed up to 97%.

The maintenance of the emulsion is an automatic operation via bypass principle without personnel placement and machine tool downtime.

Technical details

- eccentric worm pump
- electric motor
- made of stainless steel
- all hose connections with one hand couplings
- completely assembled, available for assignment, including accessories

Technical data

motor	kWh	0,37
power plug	V	230
flow rate	l/h	550
dimensions	mm	860 x 1200 x 470 (H x L x D)
weight	Kg	86
temperature of liquids	°C	40 (max.)



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Clean System Cutting oil filtration system



Order-no: 0541030

The **ARIANA-Clean System** allows to filter whichever present solid particles in suspension in the bathtubs of machine tools, guaranteeing always cleaned up systems. It works automatically via bypass principle without personnel placement.

Applications

Milling machines
Lathes and Gear-cutters
Rectifyinig machines
Electrical discharge machining
Hardening und Washing Bathtubs

Advantages

Reduces disposals costs
Extension of lifetime of cutting oils
Automatic operation via bypass principle without personnel placement

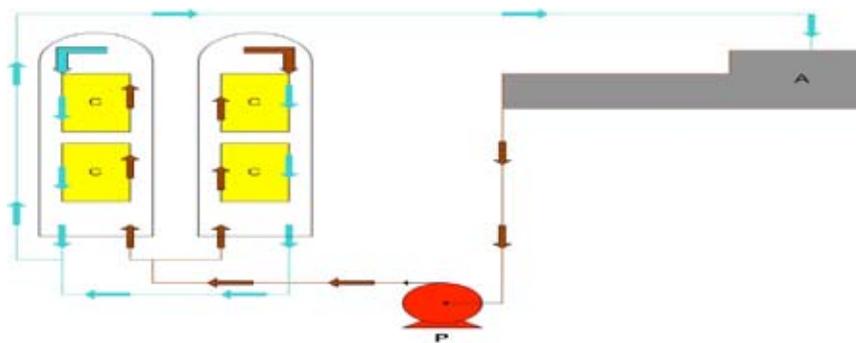
Application

The evolution of machine tools in terms of job precision and speed execution has determined the necessity to filter cutting oils used during the production process. The filter must not be considered nowadays an accessory any more, but a fundamental part of the machine tool whose productivity, qualitatively and quantitevely, depends on the filtration quality.



Function

The Clean System satisfies the requirements of filtration of the most machine tools. The filtration process is effected in a mechanical method. The cutting oil in the bathtub of the machine tool (fig. A) is suctioned by means of a pump (fig. P) and is made to pass through the filtration tower (fig. C).



The Clean System is delivered with 5 μ standard filter cartridges. 3 μ cartridges can be caught up for particular applications. Once treated the cutting oil returns to the bathtub. So it is possible to create a permanent circulation of cutting oil between bathtub of machine tool and Clean System which allows to avoid the sedimentation of solid particles and dirty on the bottom of the bathtub.

The Clean System can be used decentralised or installed on single machine tools.

Complementary it is possible to mount an operation-control device in order to control cutting oil's purity grade. This device includes an automatic cut-off function. Arriving the required purity grade the operation-control automatically stops the filtering process. Order-no: 0541031

Technical details

Centrifuge pump and chromium plated impeller

Tower in AISI 304 stainless steel

Pipages NBR

Analogical control's manometer

Wheels and handles for the transport

Completely assembled, available for assignment, including accessories

Technical data

motor	CV	0,75
power plug	V	380
flow rate	L/h	7.200
leaking surface (with 10 cSt.)	m ²	6
dimensions	mm	400 x 400 x 1100
weight empty	Kg	50
temperature of fluid	° C	100 – 150 (max.)



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Pneumatic grease pump



Order-no: 0541090

Pneumatic grease pump

- Pneumatic pump with high deflation flow rate
- High flexibility by means of mobile trolley
- Measured and specific lubrication is guaranteed

Included accessories

- Trolley for 180 / 220 kg drums
- Drum cover and follower plate
- High-pressure lubrication gun with nozzle tube
- 3 m delivery hose

It can be used for greases from type NLGi-00 to NLGi-3

Technical data			
Compressed air	min. 2 bar	max. 8 bar	recommended: from 4 to 8 bar



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Pneumatic oil pump



Order-no: 0541091

Pneumatic oil pump

- Pneumatic pump with high deflation flow rate
- High flexibility by means of mobile trolley

Included accessories

- Trolley for 180 / 220 kg drums
- Flow amounts counter
- High-pressure lubrication gun with nozzle tube
- 3 m delivery hose

It can be used for oils from type VG-10 to VG-460

Technical data			
compressed air	min. 2 bar	max. 8 bar	recommended: from 4 to 8 bar



Magnetic-Separator

The **ARIANA-Magnetic-Separator** is used to separate up to 98% of all ferromagnetic parts from cooling emulsions, before cleaning by the Maintenance-Stations. Grid, scales, gray cast iron, graphite as well as all magnetic parts are separated. The compound of the coolant is thereby irrelevant.



Order-no.: 0541024

Application

The coolant reaches the input tank of the Magnetic-Separator. During the continuous operation the magnetic roll is turned by a gear motor in the reverse to the flow direction, whereas the ferromagnetics particles are separated. The adherent dirt on the magnetic roll is removed by a scraper and slides into a waste container.

Advantages

Through the separation and elimination of particulate material no unrequested ferromagnetical particles reach the coolant reservoir, therefore the lifetime of coolants and lubricants increases and the pureness of the emulsions reservoir is positive affected.

Assembling

The Magnetic-Separator has to be attached on the **ARIANA-Maintenance-Stations** and connected with an electrical plug of 230 V.

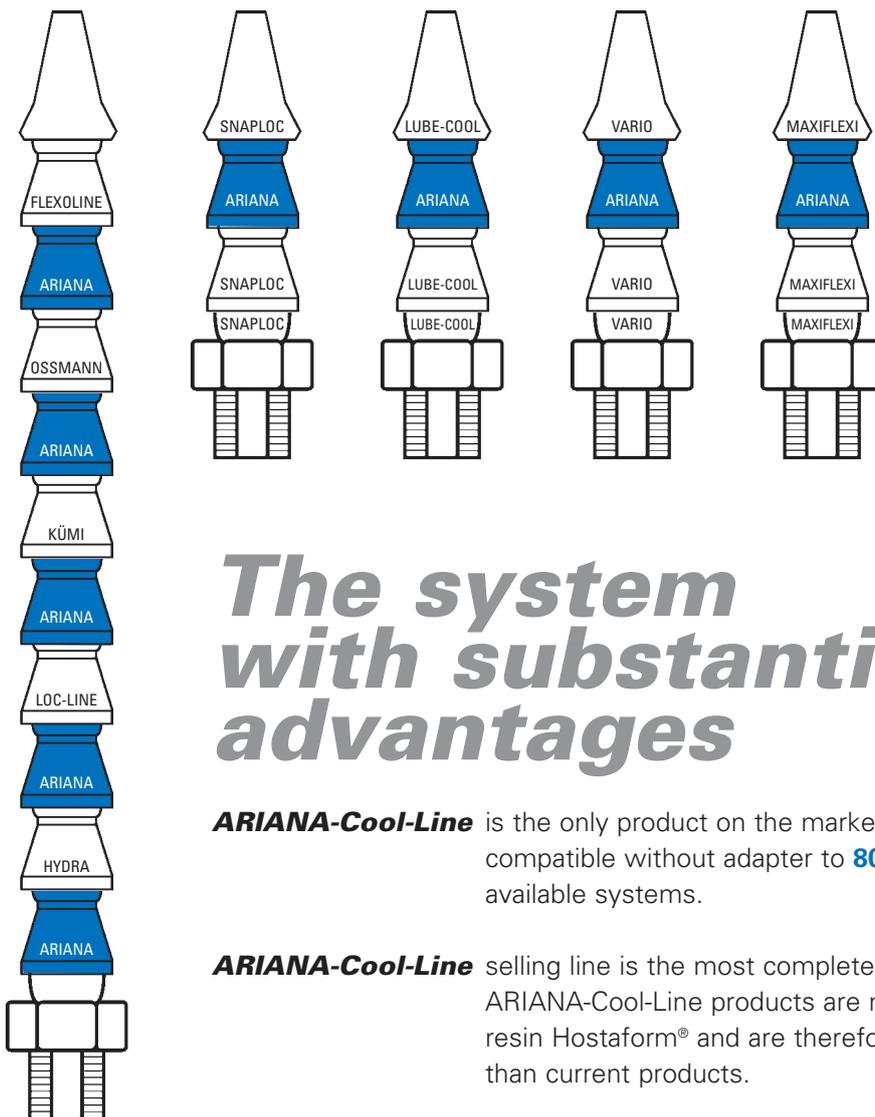


Technical data

power plug	V	230
weight	Kg	32



Comparison of compatibility



The system with substantial advantages

ARIANA-Cool-Line is the only product on the market, which is compatible without adapter to **80 %** of all conventional available systems.

ARIANA-Cool-Line selling line is the most complete system on the market. ARIANA-Cool-Line products are made of a high quality resin Hostaform® and are therefore more resistant than current products.

ARIANA-Cool-Line offers the advantage that its modules snap in closer. This effects a withstanding under higher pressure load and ensures a directional stability of the fluid jet.





Accessories

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Order-no.

Description

Unit

€

Compressed Air Products

0321000	Power Vac Pump	pcs.	445,00
0331000	Hot & Cold Gun	pcs.	305,00
0389000	Accessories Set for Air Vac Cleaning Gun	set	40,00
0389001	Accessories Set for Power Vac Pump	set	185,00

Accessories for Compressed Air Products

0385101	Conveyer Tube (ID = 32 mm)	per meter	7,50
0385200	Extension Pipe (500 mm, ED =32 mm)	pcs.	7,50
0385300	Flare Nozzle (ID = 33 mm)	pcs.	6,50
0385400	Round Brush (ID = 33 mm)	pcs.	6,50
0385500	Crevice Tool (ID = 33 mm)	pcs.	6,50
0385610	Non-returnable Waste Bag (10 pcs.)	package	35,00
0385800	Rod f. non-returnable Waste Bag (length 250 mm)	pcs.	6,50
0385900	Adapter for Conveyer Tube (ID = 32 mm)	pcs.	5,50
0386100	Conveyer Tube with Adapter (length 2,5 m, ID = 38 mm)	pcs.	20,00
0386101	Conveyer Tube (ID = 38 mm)	per meter	8,50
0386200	Extension Pipe (length 860 mm, ID = 32mm, ED = 39mm)	pcs.	11,50
0386701	Quick Opening Device for Conveyer Tube	pcs.	110,00
0386900	Adapter for Conveyer Tube (ID = 38 mm)	pcs.	6,50
0541207	Catchment Tank (volume 25 l)	pcs.	47,50



Accessories

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Order-no. Description

Unit

€

Handling Accessories for Coolants and Lubricants

0512000	Mono Mixing Unit	set	360,00
0511000	Duo Mixing Unit	set	436,00
0512100	Barrel Adapter for Mono Mixing Unit	pcs.	79,00
0512103	Barrel Adapter for Duo Mixing Unit	pcs.	150,00
0513500	Operation Control for Mixing Unit	pcs.	304,00
0521000	Refractometer (0 - 32°)	pcs.	191,00
0521001	Refractometer (0 - 15°)	pcs.	191,00

Maintenance Stations and Accessories

0541000	Maintenance Station R-3000	pcs.	6.490,00
0541020	Maintenance Station R-2000	pcs.	4.430,00
0541021	Hose Skimmer	pcs.	690,00
0541024	Magnetic Separator	pcs.	4.099,00
0541030	Clean System	pcs.	3.640,00
0541090	Pneumatic grease pump	pcs.	795,00
0541091	Pneumatic oil pump	pcs.	795,00
0541100	Ballcock (150 x 150 mm)	pcs.	115,00
0541101	Ballcock (300 x 300 mm)	pcs.	222,00
0541200	Filter 25 µ (20 pcs./package) for R-3000	package	212,00
0541201	Filter 50 µ (20 pcs./package) for R-3000	package	190,00
0541202	Filter 100 µ (20 pcs./package) for R-3000	package	165,00
0541204	Filter Element 100 µ (stainless steel) for R-2000	pcs.	145,00
0541300	Chipping Hook (length 325 mm)	pcs.	16,50
0541400	Chipping Hook (length 500 mm)	pcs.	17,50
0541500	Chipping Hook (length 175 mm)	pcs.	14,50
0551000	Micro System (Minimal Amount Lubrication)	set	350,00
0551005	Attachment for Micro System	pcs.	42,50
0551006	Magnetic Control Valve for Micro System	pcs.	799,50
0551010	Air Adapter for Micro System	pcs.	22,50
0553580	Medium for Micro System 500 ml	bundle	11,00



Cool-Line-System 1/4"

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	Order-no.	Description	Unit	€
	0211000-1	Versatile Jointed Hose 1/4", length approx. 31 cm	2x 10 modules	8,50
	0211010-1	Versatile Jointed Hose acid resistant 1/4" length approx. 31 cm	2x 10 modules	12,10
	0211025-1	Versatile Jointed Hoserolle 1/4" length approx. 25 m, without pic.	1615 modules	655,00
	0211030-2	Fixing Clamp for 1/4" system	2 pcs.	4,55
	0211100-4	Round Nozzle ID = 1,6 mm, 1/4"	4 pcs.	6,40
	0211101-4	Round Nozzle ID = 3,2 mm, 1/4"	4 pcs.	6,40
	0211102-4	Round Nozzle ID = 6,4 mm, 1/4"	4 pcs.	6,40
	0211200-2	Flare Nozzle 24 mm wide, 1/4"	2 pcs.	10,20
	0211201-2	Flare Nozzle 30 mm wide, 1/4"	2 pcs.	10,20
	0211202-2	Flare Nozzle 16 hole, 1/4"	2 pcs.	12,10
	0211203-2	Flare Nozzle 6 hole, 90°, 1/4"	2 pcs.	8,80
	0211300-2	Y-Fitting 1/4"	2 pcs.	10,20
	0211310-2	Y-Fitting acid resistant 1/4"	2 pcs.	11,20
	0211414-1	Ring Jet System 1/4" 16 modules incl. end piece	1 pcs.	33,50
	0211600-2	Control Valve for Versatile Jointed Hose 1/4"	2 pcs.	15,40
	0211610-2	Control Valve acid resistant for Versatile Jointed Hose 1/4"	2 pcs.	16,50
	0211601-2	Control Valve NPT AG 1/4"	2 pcs.	15,40
	0211611-2	Control Valve acid resistant NPT AG 1/4"	2 pcs.	16,50
	0211602-2	Control Valve IG 1/4"	2 pcs.	15,40
	0211612-2	Control Valve acid resistant IG 1/4"	2 pcs.	16,50
	0211603-2	Control Valve for Versatile Jointed Hose, NPS AG 1/4"	2 pcs.	15,40
	0211700-4	Connector NPT 1/8"	4 pcs.	6,00
	0211710-4	Connector acid resistant NPT 1/8"	4 pcs.	8,10
	0211701-4	Connector NPT 1/4"	4 pcs.	6,00
	0211702-2	Special Connector NPT 1/8"	2 pcs.	6,90
	0211703-2	Special Connector NPT 1/4"	2 pcs.	6,90
	0211704-4	Adapter for Versatile Jointed Hose IG 1/8"	4 pcs.	6,60
	0211712-4	Adapter acid resistant for Versatile Jointed Hose IG 1/8"	4 pcs.	8,70
	0212200-2	Elbow Fitting 90°, 1/4"	2 pcs.	6,40
	0212300-2	T-Fitting 1/4"	2 pcs.	6,40
	0212400-1	Modular Manifold Brackets for T-Fitting 1/4"	1 pcs.	8,50
	0212500-1	Magnetic Base Metal Ball Valve and Hose Barb Connector 1/4"	1 pcs.	25,00
	0212501-1	Mono Block Distribution Device 4 outlets 1/4" and IG 3/8"	1 pcs.	35,00



Cool-Line-System 1/4"

2007-03-01 / Page A	Order-no.	Description	Unit	€
	0212502-2	T-Connection AG 1/4" and 2 IG 3/8"	2 pcs.	26,00
	0212503-2	Metal Ball Valve IG and AG 1/4"	2 pcs.	21,50
	0212504-2	Threaded Double Nipple 2 AG 1/4"	2 pcs.	6,20
	0212505-2	Hose Barb Connector for 13 mm hose	2 pcs.	9,00
	0212506-2	Metal Reducer AG 1/4", IG 1/8"	2 pcs.	4,80
	0212507-2	Hexagonal Closing Cap 1/8"	2 pcs.	4,90
	0212508-2	Hexagonal Closing Cap 1/4"	2 pcs.	4,90
	0212509-2	Magnetic Clamp round, AD 63 mm, ID 18 mm	2 pcs.	45,00
	0212510-2	Non-Return Valve 1/4"	2 pcs.	13,60
	0212605-2	Extension Pipe rigid PVC, 95 mm lg., 1/4"	2 pcs.	12,90
	0218000-1	Hose Assembling Pliers 1/4" system	1 pcs.	33,50
	0219000-1	Versatile Jointed Hose Set 1/4" Versatile Jointed Hose (2x 10 modules) Round Nozzles ID 1,6 / 3,2 / 6,4 mm Flare Nozzle 24 mm wide Connectors NPT 1/8" / 1/4"	1 Set	10,00
	0219029-1	Magnetic Base 1/4" with Versatile Jointed Hose Set (16 modules), Round Nozzle ID 6,4 mm, Connector NPT 1/4", Metal Ball Valve IG-AG 1/4", Magnetic Base 2 IG 90°, Hose Barb Connector 1/4" for 13 mm	1 Set	42,00
	0219031-1	Magnetic Base 1/4" mit Versatile Jointed Hose-Set (2x 13 modules), Flare Nozzles (2 pcs., 24 mm wide), Y-Fitting, Connector NPT 1/4", Metal Ball Valve IG-AG 1/4", Magnetic Base 2 IG 90°, Hose Barb Connector for 13 mm hose	1 Set	63,00

IT = Inside thread
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ID = Inner diameter
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NPT = Tapered screw thread
NPS = Cylindric screw thread



Cool-Line-System 3/8"

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	Order-no.	Description	Unit	€
	0221000-1	Versatile Jointed Hose 3/8" length approx. 30 cm	2x 8 modules	12,00
	0221015-1	Versatile Jointed Hoserolle 3/8" length approx. 15 m, without picture	802 modules	580,00
	0221100-4	Round Nozzle ID = 6,4 mm, 3/8"	4 pcs.	6,90
	0221101-4	Round Nozzle ID = 9,5 mm, 3/8"	4 pcs.	6,90
	0221102-4	Round Nozzle ID = 12,7 mm, 3/8"	4 pcs.	6,90
	0221200-2	Flare Nozzle 32 mm wide, 3/8"	2 pcs.	11,00
	0221601-2	Control Valve NPT AG 3/8"	2 pcs.	17,50
	0221602-2	Control Valve IG 3/8"	2 pcs.	17,50
	0221700-4	Connector NPS 3/8"	4 pcs.	6,90
	0221701-4	Connector NPS 1/2"	4 pcs.	6,90
	0222501-1	Mono Block Distribution Device 4 outlets 3/8" and IG 1/2"	1 pcs.	38,50
	0222502-2	T-Connection AG 3/8" and 2 IG 3/8"	2 pcs.	30,00
	0222503-2	Metal Ball Valve IG and AG 3/8"	2 pcs.	24,50
	0222504-2	Threaded Double Nipple 2 AG 3/8"	2 pcs.	7,50
	0222505-2	Hose Barb Connector 3/8" for 13 mm hose	2 pcs.	12,90
	0222507-2	Hose Barb Connector 3/8"	2 pcs.	6,20
	0222508-2	Hexagonal Closing Cap round AD 63 mm, ID 18 mm	2 pcs.	44,50
	0222509-2	Non-Return Valve 3/8"	2 pcs.	13,50
	0228000-1	Non-Return Valve 3/8" system	1 pcs.	33,50
	0229000-1	Versatile Jointed Hose-Set 3/8" Versatile Jointed Hose (2x 8 Module) Round Nozzlen ID 6,4 / 9,5 / 12,7 mm Flare Nozzle 32 mm wide Connectors NPS 3/8" / 1/2"	1 set	13,70
	0229030-1	Magnetic Base 3/8" with Versatile Jointed Hose Set, (16 modules) Round Nozzles ID 6,4 mm, Connector 3/8" Metal Ball Valve IG-AG 3/8", magnetic Base 2 IG 3/8" Hose Barb Connector 3/8" for 13 mm hose	1 set	43,50

NPT = Tapered screw thread
NPS = Cylindric screw thread

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Cool-Line-System 1/2"

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	Order-no.	Description	Unit	€
	0231000-1	Versatile Jointed Hose 1/2" length approx. 29 cm	2x 5 modules	13,20
	0231001-1	Versatile Jointed Hose extrem fest 1/2" length approx. 28 cm, without pic.	2x 6 modules	14,30
	0231010-1	Versatile Jointed Hose acid resistant 1/2" length approx. 29 cm	2x 5 modules	14,40
	0231015-1	Versatile Jointed Hoserolle 1/2" length approx. 15 m, without pic.	518 modules	450,00
	0231030-2	Fixing Clamp 1/2" System	2 pcs.	5,30
	0231100-4	Round Nozzle ID = 6,4 mm, 1/2"	4 pcs.	7,50
	02311000-4	Round Nozzle acid resistant ID = 6,4 mm, 1/2"	4 pcs.	9,50
	0231101-4	Round Nozzle ID = 9,5 mm, 1/2"	4 pcs.	7,50
	02311001-4	Round Nozzle acid resistant ID = 9,5 mm, 1/2"	4 pcs.	9,50
	0231102-4	Round Nozzle ID = 12,7 mm, 1/2"	4 pcs.	7,50
02311002-4	Round Nozzle acid resistant ID = 12,7 mm, 1/2"	4 pcs.	9,50	
	0231200-2	Flare Nozzle 32 mm wide, 1/2"	2 pcs.	11,70
	0231201-2	Flare Nozzle 50 mm wide, 1/2"	2 pcs.	12,70
	0231202-2	Flare Nozzle 62 mm wide, 1/2"	2 pcs.	13,90
	0231203-2	Flare Nozzle 8 holes 90°, 1/2"	2 pcs.	20,00
	0231300-2	Y-Fitting 1/2"	2 pcs.	13,70
	0231414-1	Ring Jet System (16 modules) incl. end piece 1/2"	1 pcs.	37,90
	0231600-2	Control Valve for Versatile Jointed Hose 1/2"	2 pcs.	19,60
	0231610-2	Control Valve acid resistant for Versatile Jointed Hose 1/2"	2 pcs.	20,70
	0231601-2	Control Valve NPT AG 1/2"	2 pcs.	19,60
	0231611-2	Control Valve acid resistant NPT AG 1/2"	2 pcs.	20,70
	0231602-2	Control Valve IG 1/2"	2 pcs.	19,60
	0231612-2	Control Valve acid resistant IG 1/2"	2 pcs.	20,70
	0231700-4	Connector NPT 3/8"	4 pcs.	7,50
	023171000-4	Connector acid resistant NPT 3/8"	4 pcs.	9,50
	0231701-4	Connector NPT 1/2"	4 pcs.	7,50
	023171001-4	Connector acid resistant NPT 1/2"	4 pcs.	9,50
	0231702-2	Special Connector NPT 3/8"	2 pcs.	9,20
	0231703-2	Special Connector NPT 1/2"	2 pcs.	9,20
	0231707-4	Adaptor for Versatile Jointed Hose IG 1/2"	4 pcs.	15,80
	0231900-2	Reducer 1/2" to 1/4"	2 pcs.	8,50
	0232000-2	Y-Reducer 1/2" to 2x 1/4"	2 pcs.	11,70



Cool-Line-System 1/2"

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	Order-no.	Description	Unit	€
	0232200-2 0232300-2	Elbow Fitting 90°, 1/2" T-Fitter 1/2"	2 pcs. 2 pcs.	10,70 12,70
	0232400-1	Modular Manifold Brackets for T-Fitting 1/2"	1 pcs.	9,50
	0232501-1	Mono Block Distribution Device 4 outlets 1/2" and IG 3/4"	1 pcs.	40,80
	0232502-2	T-Connection AG 1/2" and 2 IG 1/2"	2 pcs.	31,70
	0232503-2	Metal Ball Value IG and AG 1/2"	2 pcs.	25,50
	0232504-2	Threaded Double Nipple 2 AG 1/2"	2 pcs.	7,90
	0232505-2	Hose Barb Connector for 19 mm hose	2 pcs.	16,70
	0232506-2	Metal Reducer AG 1/2", IG 3/8"	2 pcs.	6,80
	0232507-2	Hexagonal Closing Cap 1/2"	2 pcs.	6,80
	0232508-2	Magnetic Base round ED 63 mm, ID 18 mm	2 pcs.	44,50
	0232509-2	Non-Return Valve 1/2"	2 pcs.	17,30
	0232605-2	Extension Pipe rigid PVC, length 95 mm, 1/2"	2 pcs.	14,70
	0238000-1	Hose Assembling Pliers 1/2" system	1 pcs.	33,50
	0239000-1	Versatile Jointed Hose Set 1/2" (2x 5 modules) Round Nozzles ID 6,4/9,5/12,7 mm Flare Nozzle 32 mm wide Connectors NPT 3/8" / 1/2"	1 set	14,90

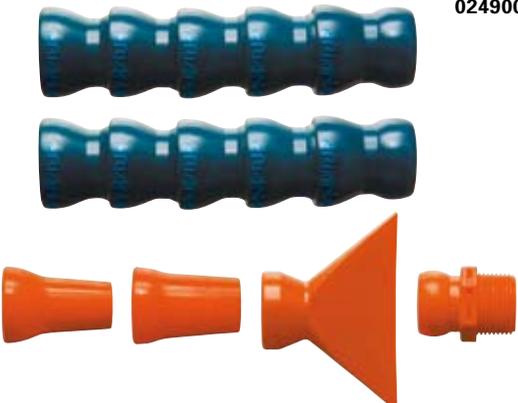
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Cool-Line-System 3/4"

2007-03-01 / page 1	Order-no.	Description	Unit	€
	0241000-1	Versatile Jointed Hose 3/4" ca. 29,5 cm long	2x 5 modules	17,30
	0241015-1	Versatile Jointed Hoserolle 3/4" ca. 15 m long, without picture	509 modules	530,00
	0241100-4	Round Nozzle ID = 16 mm, 3/4"	4 pcs.	8,90
	0241101-4	Round Nozzle ID = 19 mm, 3/4"	4 pcs.	8,90
	0241200-2	Flare Nozzle 75 mm wide, 3/4"	2 pcs.	12,70
	0241300-2	Y-Fitting 3/4"	2 pcs.	15,90
	0241700-4	Connector NPS 3/4"	4 pcs.	10,20
	0241900-2	Reducer 3/4" zu 1/2"	2 pcs.	8,50
	0249000-1	Versatile Jointed Hose-Set 3/4" Versatile Jointed Hose (2x 5 modules) Round Nozzles ID 16 / 19 mm Flare Nozzle 75 mm wide Connector NPS NPS 3/4"	1 Set	30,70

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ARIANA

Industrie GmbH Marketing ...

ARIANA is market leader in the field of Cooling Lubricant Hose Systems with an extensive line of accessories for the metal working industry.

ARIANA is accredited by DIN EN ISO 9001:2000.

Research and Development

Research and development are the first priorities for **ARIANA**. A long lasting experience influences all our products. The development takes place in a practical, application-oriented way and is matched to the requirements of its customers.



Our technicians and application engineers are responsible for the optimal adaptability of the **ARIANA-Cool-Line-System** as well as for the implementation of special construction wishes.

Production

ARIANA disposes through participation in own workshops with latest machinery and production facilities. Flexibility offers short terms of delivery and a permanent control ensures our high norm of quality.



Cool-Line-System



Maintenance Stations



Mixing Units and Refractometer



Accessories



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