



Ingenieurbüro CAT  
M. Zipperer GmbH

# Pricelist

## Effective

Payment and Delivery Terms:

All prices offered in Euro are ex works and do not include value added tax, insurance or packing.

All shipments to be made according to the terms and conditions of CAT.

VAT No.: DE 142212412

This pricelist is subject to change without notice

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## Magnetic Stirrers

Model	Description	Part No	Price in €	Discountgroup
<b>M 2</b>	Magnetic stirrer for simple stirring tasks up to 1000 ml, suitable for titrations, set-up plate 75x130 mm, brushless motor: 4 watt, fixed speed: 500 1/min, polypropylene housing, <b>230 V</b>	60260-0000	87,68 €	1
<b>M 5</b>	Standard magnetic stirrer with electronic speed control for up to 10 l H <sub>2</sub> O, set-up plate 140x155 mm, maintenance-free motor: 25 watt, continuously adjustable speed: 60-1600 1/min, stainless steel cover, <b>230 V</b> <b>same model in 115 V</b>	60265-0000	190,89 €	1
		60265-0001	190,89 €	1
<b>M 6</b>	Heatable magnetic stirrer for easy lab tasks, Ceran© hotplate: square 135x135 mm, 600 watt, continuously adjustable temperature: 40-400 °C, maintenance-free motor: 60-1600 1/min, <b>230 V</b> <b>same model in 115 V</b>	60266-0000	328,23 €	1
		60266-0001	on request	1
<b>M 6.1</b>	Heatable magnetic stirrer for easy lab tasks, stainless steel hotplate: round Ø 130 mm, 500 watt, continuously adjustable temperature: 40-330 °C, maintenance-free motor: 60-1600 1/min, <b>230 V</b> <b>same model in 115 V</b>	60268-0000	302,09 €	1
		60268-0001	on request	1
<b>M 6.2</b>	Heatable magnetic stirrer for easy lab tasks, anodized aluminum hotplate: round Ø 140 mm, 500 watt, continuously adjustable temperature: 40-330 °C, maintenance-free motor: 60-1600 1/min, <b>230 V</b> <b>same model in 115 V</b>	60269-0000	306,50 €	1
		60269-0001	on request	1

## Magnetic Stirrers

Model	Description	Part No	Price in €	Discountgroup
<b>M 15</b>	Standard magnetic stirrer with electronic speed control for up to 10 l H <sub>2</sub> O, set-up plate 135x155 mm, maintenance-free motor: 25 watt, continuously adjustable speed: 60-1600 1/min, stainless steel cover, <b>230 V</b> , Discontinued Model	60261-0000	324,87 €	1
<b>ECM 6</b>	Compact and energy-efficient heatable magnetic stirrer for up to 1 l H <sub>2</sub> O, anodized aluminum hotplate: square 90x90 mm, 160 watt, adjustable temperature: 40-250 °C, adjustable speed: 10-1200 1/min, energy and space saving, <b>230 V</b> <b>same model in 115 V</b>	60256-0000	296,31 €	1
<b>ECM 5</b>	Compact and energy-efficient magnetic stirrer for up to 1 l H <sub>2</sub> O, set-up plate 90x110 mm, adjustable speed: 10-1200 1/min, stainless steel cover, energy and space saving, <b>100-250 VAC</b>	60256-0001 60255-0000	296,31 € 178,61 €	1 1
<b>ECM 2</b>	Compact and powerful magnetic stirrer for up to 1 l H <sub>2</sub> O, set-up plate 90x110 mm, adjustable speed: 2-200 1/min, stainless steel cover, energy and space saving, <b>100-250 VAC</b>	60252-0000	178,61 €	1

## Magnetic Stirrers

Model	Description	Part No	Price in €	Discountgroup
<b>KM 16.4D</b>	Microprocessor controlled heatable flask stirrer for 100, 250 and 500 ml round bottom flasks, 4-digit LED display, aluminum hotplate: round Ø 120 mm, 500 watt, RT (+5 °C) -450 °C, external Pt100 connection, contact thermometer connection, maintenance-free motor: 60-1100 1/min, safety temperature, timer, RS485 interface (RS232 via adapter 61703-00 available), <b>230 V same model in 115 V</b>	60357-0000	693,00 €	1
		60357-0001	693,00 €	1
<b>KM 16.7D</b>	Microprocessor controlled heatable flask stirrer for 1000 and 2000 ml round bottom flasks, 4-digit LED display, aluminum hotplate: round Ø 120 mm, 500 watt, RT (+5 °C) -450 °C, external Pt100 connection, contact thermometer connection, maintenance-free motor: 60-1100 1/min, safety temperature, timer, RS485 interface (RS232 via adapter 61703-00 available), <b>230 V same model in 115 V</b>	60358-0000	734,27 €	1
		60358-0001	734,27 €	1

## Magnetic Stirrers

Model	Description	Part No	Price in €	Discountgroup
<b>MCS 77</b>	Programmable heatable magnetic stirrer, microprocessor controlled, backlit graphical LCD display, anodized aluminum hotplate: round Ø 140 mm, 500 watt, RT (+5 °C) -330 °C, external Pt100 connection, contact thermometer connection, maintenance-free motor: 50-1600 1/min, safety temperature, timer function, programmable multi-function timer with adjustable ramp function, RS485 interface, <b>230 V</b> <b>same model in 115 V</b>	60276-0050	713,37 €	1
		60276-0051	713,37 €	1
<b>MCS 78</b>	Programmable heatable magnetic stirrer, microprocessor controlled, backlit graphical LCD display, Ceran® hotplate: round Ø 130 mm, 600 watt, RT (+5 °C) -440 °C, external Pt100 connection, contact thermometer connection, maintenance-free motor: 50-1600 1/min, safety temperature, timer function, programmable multi-function timer with adjustable ramp function, RS485 interface, <b>230 V</b> <b>same model in 115 V</b>	60277-0050	754,11 €	1
		60277-0051	754,11 €	1
<b>M 26G2</b>	Microprocessor controlled heatable magnetic stirrer with a second safety circuit, backlit text display, anodized aluminum hotplate: round Ø 140 mm, 500 watt, RT (+5 °C) -360 °C, external Pt100 connection, contact thermometer connection, maintenance-free motor: 60-1600 1/min, safety temperature, second independent safety circuit, timer function, ramp function, RS485 interface (RS232 via adapter 61703-00 available), <b>230 V</b> <b>same model in 115 V</b>	60279-0000	732,90 €	1
		60279-0001	732,90 €	1

## Magnetic Stirrers

Model	Description	Part no	Price in €	Discountgroup
<b>M 21</b>	Microprocessor controlled heatable magnetic stirrer, 4-digit LED display, stainless steel hotplate: round Ø 135 mm, 500 watt, RT (+5 °C) -350 °C, external Pt100 connection, contact thermometer connection, maintenance-free motor: 60-1600 1/min, safety temperature, timer, RS485 interface (RS232 via adapter 61703-00 available), <b>230 V</b> <b>same model in 115 V</b>	60361-0000	586,10 €	1
		60361-0001	586,10 €	1
<b>M 22</b>	Microprocessor controlled heatable magnetic stirrer, 4-digit LED display, anodized aluminum hotplate: round Ø 140 mm, 500 watt, RT (+5 °C) -380 °C, external Pt100 connection, contact thermometer connection, maintenance-free motor: 60-1600 1/min, safety temperature, timer, RS485 interface (RS232 via adapter 61703-00 available), <b>230 V</b> <b>same model in 115 V</b>	60362-0000	586,10 €	1
		60362-0001	586,10 €	1
<b>M 23</b>	Microprocessor controlled heatable magnetic stirrer, 4-digit LED display, Ceran© hotplate: square 135x135 mm, 600 watt, RT (+5 °C) -500 °C, external Pt100 connection, contact thermometer connection, maintenance-free motor: 60-1600 1/min, safety temperature, timer, RS485 interface (RS232 via adapter 61703-00 available), <b>230 V</b> <b>same model in 115 V</b>	60363-0000	627,10 €	1
		60363-0001	627,10 €	1



## Accessories for MCS 66/67; M 26G2; M 21; M 22; M 23; KM 16.4D & KM 16.7D

Model	Description	Part No	Price in €	Discountgroup
<b>PT100</b>	Electronical temp. probe Pt-100 complete, probe diam. 3mm, probe length: 200mm, total length: 300mm	60278-0000	93,45 €	1
<b>PT100 duplex</b>	Electronical temp. probe Pt-100 complete (only for M26G2)	60673-0000	162,33 €	1
<b>Rod</b>	Diameter 8mm, length 350 mm, thread M6 (except for M26G2)	60663-0000	22,79 €	1
<b>Connecting cable</b>	Adapter cable RS 485 - RS 232 for direct connection to a serial port (except for MCS 77/78)	61703-0000	36,20 €	2
<b>Connecting cable</b>	Adapter cable RS 485 - RS 232 for direct connection to a serial port for MCS 77/78	61703-0050	31,60 €	2

## Accessories for Magnetic Stirrers

Model	Description	Part No	Price in €	Discountgroup	
<b>Clamp for thermometer</b>	From 0-20 mm, shaft diameter 8 mm, length 115 mm	8B005624	23,00 €	3	
<b>Cross over clamp</b>	For thermometer-clamp, diameter 15 x 30mm	60668-0000	35,18 €	1	
<b>Mount for rod</b>	Dimensions: 20 x 15 x 56 mm for M6 – M13	60669-0000	23,73 €	1	
<b>Mount for rod</b>	Dimensions: 20 x 15 x 50 mm for M26G2 and ECM	60669-0010	23,73 €	1	
<b>Support rod</b>	Stirring shaft / mounting rod Ø8 x 350 mm, Stainless steel for M6 – M13 and M26G2	60618-0000	14,70 €	1	
<b>Stirring Bars cylindric</b>	Length: 10 mm	Diameter: 6 mm	8b035009	2,20 €	3
	20 mm	7 mm	8b035017	2,20 €	3
	25 mm	7 mm	8b035020	2,60 €	3
	30 mm	7 mm	8b035022	4,00 €	3
	40 mm	7 mm	8b035024	4,20 €	3
	50 mm	7 mm	8b035028	6,80 €	3
	60 mm	7 mm	8b035031	5,00 €	3
	80 mm	10 mm	8b035035	8,50 €	3
<b>egg shaped Tandem</b>	65 mm	20 mm	8bC35814	31,80 €	3
	55 mm	height: 18 mm	2 x 12 mm	8bC36330	37,10 €
<b>Block</b>	44 mm	height: 18 mm	depth: 14 mm		
<b>Position stud for Tandem</b>	height 22 mm	8 mm	8bC36408	19,00 €	3

## Accessories for Magnetic Stirrers

Model	Description	Part No	Price in €	Discountgroup
<b>1 Set of stirring bars</b>	Content: 12 pieces Consisting of 2 each as described following:	8b000000	50,80 €	3
	10 mm                      6 mm			
	20 mm                      7 mm			
	30 mm                      7 mm			
	40 mm                      7 mm			
	50 mm                      7 mm			
	60 mm                      9 mm			
<b>Stirring Bar Extractor</b>	Length: 150 mm    Diameter: 10 mm	8b037202	14,90 €	3
	200 mm              10 mm	8b037204	15,80 €	3
	250 mm              10 mm	8b037206	15,60 €	3
<b>Stirring Bar Set</b>	set with magnetic stir bar and a long 150 mm magnetic stir bar remover	8bC34810	61,00 €	3
<b>Cylinder</b>	Length : 10 mm    Diameter: 6 mm			
	15 mm              4,5 mm			
	20 mm              6 mm			
	25 mm              6 mm			
	30 mm              6 mm			
	40 mm              8 mm			
	50 mm              8 mm			
	60 mm              9 mm			
<b>ring strainers</b>	Length: 15 mm    Diameter: 5 mm			
	25 mm              6 mm			
	25 mm              6 mm			
<b>triangular round wire</b>	Length: 25 mm    Diameter: 8 mm			
	40 mm              14 mm			

## Overhead Stirrers

Model	Description	Part No	Price in €	Discountgroup
R 1	Hand stirrer, battery operated, for use with disposable stirring rods and special, stainless steel blades, batteries not included, Discontinued Model	60211-0000	78,33	1
<b>Stirring rod</b>	Disposable stirring rods for R1 (set of 100 pieces)	60610-0000	11,03 €	1
<b>Stirring rod</b>	Suitable stirring rod for R1, made of stainless steel, length of rod (including blade): 120 mm, <b>width of blade:12 mm, height of blade: 25 mm</b> , rod diameter 3 mm	60613-0000	on request	1
<b>Stirring rod</b>	Suitable stirring rod for R1, made of stainless steel, length of rod (including blade): 120 mm, <b>width of blade:25 mm, height of blade: 12 mm</b> , rod diameter 3 mm	60614-0000	on request	1
R 18	Laboratory stirrer, 18 Ncm torque, electronic feed-back speed control 100-2000 rpm, 120 Watt input, 85 Watt output, chuck at 10,5 mm, <b>230 V same model in 230V with UK plug same model in 115 V</b>	60214-0000	378,00 €	1
		60214-0003	378,00 €	1
		60214-0001	378,00 €	1

## Overhead Stirrers

Model	Description	Part No	Price in €	Discountgroup
<b>R 50</b>	Laborstirrer for lab use (50 Ncm) adjustable 10.5 mm chuck, 120 Watt input, 85 Watt output, electronic feed-back speed control, 50-1600 rpm, <b>230 V</b>	60215-0000	455,39 €	1
	<b>same model in 230V with UK plug</b>	60215-0003	455,39 €	1
	<b>same model in 115 V</b>	60215-0001	455,39 €	1
<b>R 50D</b>	Same as R 50 but with digital speed display, <b>230 V</b>	60216-0000	566,79 €	1
	<b>same model in 230V with UK plug</b>	60216-0003	566,79 €	1
	<b>same model in 115 V</b>	60216-0001	566,79 €	1
<b>Stirring rod</b>	Suitable stirring rod for R 50 and R 50 D, Length of rod: 350 mm, Width of blade: 90 mm, Height of blade: 15 mm	60618-0050	45,78 €	1
<b>Stirring blade</b>	Suitable stirring blade for R 50 and R 50 D Ø8 x 90 x 10 mm without shaft	60619-0000	32,34 €	1
<b>Stirring shaft</b>	Stirring shaft / mounting rod Ø8 x 350 mm, Stainless steel	60618-0000	14,70 €	1
<b>Dissolver</b>	Stirring tool for R 50 and R 50 D Ø8 x Ø 100 x 12 mm without shaft	60617-0000	65,10 €	1
<b>Dissolver</b>	Stirring tool for R 50 and R 50 D Ø8 x Ø 36 x 12 mm without shaft	60617-0010	54,60 €	1
<b>Dissolver</b>	Stirring tool for R 50 and R 50 D Ø8 x Ø 100 x 12 mm with shaft Ø8 x 350 mm	60617-0050	78,33 €	1
<b>Dissolver</b>	Stirring tool for R 50 and R 50 D Ø8 x Ø 36 x 12 mm with shaft Ø8 x 350 mm	60617-0060	67,83 €	1
<b>R 80D-PC</b>	High torque stirrer (80 Ncm) for lab use, Capacity up to 120 litres related to water, 20-700 rpm, with RS232 interface, <b>230 V</b>	60311-0000	987,80 €	1
	<b>same model in 230V with UK plug</b>	60311-0003	987,80 €	1
	<b>same model in 115 V</b>	60311-0001	987,80 €	1





## Overhead Stirrers

Model	Description	Part No	Price in €	Discountgroup
R 100C	Powerful stirring motor 150 Ncm, 300 Watt input, 220 Watt output, hollow shaft and 10.5 mm chuck for lab and pilot plant use, Digital display of torque and speed, speed range: 40-2000 rpm, analogue interface to monitor respectively control torque and speed, as well as an RS232-interface, <b>230 V</b> <b>same model in 230V with UK plug</b> <b>same model in 115 V</b>	60218-0000	1.168,55 €	1
		60218-0003	1.168,55 €	1
		60218-0001	1.168,55 €	1
R 100SD	Powerful overhead stirrer, continuous torque output maximum 100 Ncm, 4 digit display, 220 Watt output, 300 Watt input, speed range: 40-2000 rpm, 10.5 mm chuck for volumes up to 200 Liter (H <sub>2</sub> O), <b>230 V</b> <b>same model in 230V with UK plug</b> <b>same model in 115 V</b>	60313-0000	993,72 €	1
		60313-0003	993,72 €	1
		60313-0001	993,72 €	1
R 100CT	Powerful stirring motor 600 Ncm, 300 Watt input, 220 Watt output, hollow shaft and 10.5 mm chuck for lab and pilot plant use, Digital display of torque and speed, speed range: 10-500 rpm, analogue interface to monitor respectively control torque and speed, as well as an RS232-interface, <b>230 V</b> <b>same model in 230V with UK plug</b> <b>same model in 115 V</b>	60314-0000	1.706,88 €	1
		60314-0003	1.706,88 €	1
		60314-0001	1.706,88 €	1
R 100CL	Powerful stirring motor 250 Ncm, 300 Watt input, 220 Watt output, hollow shaft and 10.5 mm chuck for lab and pilot plant use, Digital display of torque and speed, speed range: 30-1100 rpm, analogue interface to monitor respectively control torque and speed, as well as an RS232-interface, <b>230 V</b> <b>same model in 230V with UK plug</b> <b>same model in 115 V</b>	60315-0000	1.718,22 €	1
		60315-0003	1.718,22 €	1
		60315-0001	1.718,22 €	1

## Brushless Overhead Stirrers





Model	Description	Part No	Price in €	Discountgroup
<b>Stirring rod</b>	Suitable stirring rod for R 2 in stainless steel, length of rod (including blade): 120mm, width of blade:12mm, height of blade: 25mm, rod diameter 3 mm	60613-0000	on request	1
<b>Stirring rod</b>	Suitable stirring rod for R 2 in stainless steel, crosswise, blade length (incl. blade): 120 mm, blade width: 25mm, height of blade : 12 mm, rod diameter 3 mm.	60614-0000	on request	1
<b>R 14</b>	Overhead stirrer, 25 Watt, 100-2000 rpm, keyless chuck 4 mm, hollow shaft, electrical feed-back speed control, <b>230 V</b> , Discontinued Model <b>same model in 230V with UK plug</b> , Discontinued Model <b>same model in 115 V</b> , Discontinued Model	60213-0040 60213-0043 60213-0041	219,87 € 219,87 € 219,87 €	1 1 1
<b>Stirring rod for R 14</b>	Stirring rod in stainless steel, length of rod (incl. blade): 230 mm, Ø4 mm	60615-0040	21,32 €	1
<b>R 16</b>	Small laborator stirrer, brushless motor, hollow shaft, keyless chuck to hold stirring passles with a shaft diameter of 6 mm, speed range 50-900, 24 Watt motor, 24 V power supply, input 100-240V	60213-0050	300,72 €	4
<b>R 20D-PC</b>	Compact Overhead stirrer, up to 20 Ncm torque, speed range 50 - 2000, 60 Watt motor, keyless chuck(10mm), hollow shaft to fasten tools up to 10 mm, various PC connection cable optional available, 24 V power supply, 100-240V AC	60214-0055	775,00 €	2
<b>R 60D-PC</b>	Compact Overhead stirrer, up to 60 Ncm torque, speed range 20 - 800, 24V power supply, 60W motor, keyless chuck(10mm), hollow shaft to fasten tools up to 10 mm, various PC connection cable optional available, 24 V power supply, 24V power supply, 100-240V AC	60214-0065	975,00 €	2

## Accessories for R 100-Series

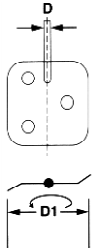
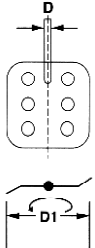
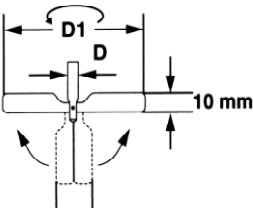
Model	Description	Part No	Price in €	Discountgroup
	U-Stand incl. rod, platform overall dimensions: 692x371mm, rod diameter: 27mm, length: 1010mm	60494-0000	237,30 €	1
	Special clamp for R100 for Ø 15 mm – 35 mm	60495-0000	57,96 €	1
	Shock Proof Protection for stirring shaft, suitable for all stirring motors	20618-0060	108,00 €	3
	Cross Over Clamp "Jumbo" ,aluminium 20-30mm e.g.to fix the "shock proof protection "	8B005650	54,00 €	3
	RS232 - USB Adapter	30244-0001	21,90 €	3
	RS232-connection and extension cable	60642-0000	11,03 €	2



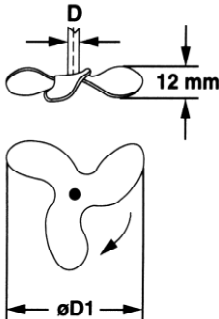
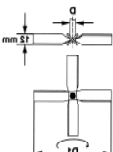
## Accessories for Overhead Stirrers R 14 - R 80D-PC

Model	Description	Part No	Price in €	Discountgroup
	Pedestal Stand incl. rod, platform dimensions: 330x200 mm, rod diameter: 16mm, length: 690mm	60491-0000	106,68 €	1
	Cross over clamp for pedestal stand / shock proof protection and all products with flange Ø 12, "light" (e. g. X120, R14, R16), aluminum	60492-0000	19,32 €	1
	Cross over clamp for pedestal stand and all products with flange Ø 12, " heavy" (e. g. R18 - R80D, X1000, X1000D), stainless steel	60492-0050	58,49 €	1
	Cross over clamp for pedestal stand / shock proof protection and all products with flange Ø 12, stainless steel	60492-0020	61,95 €	2

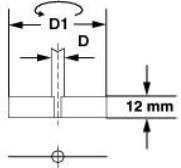
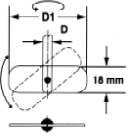
## Stirring Paddles

Model	Description	Part No	Price in €	Discountgroup		
	<b>length</b>	<b>diameter</b>	<b>impeller size</b>			
<b>Blade Stirrer</b>						
	400 mm	8 mm	70 mm	8B009404	23,72 €	3
	500 mm	10 mm	70 mm	8B009408	27,31 €	3
<b>Blade Stirrer</b>						
	400 mm	8 mm	70 mm	8B009504	24,08 €	3
	500 mm	10 mm	70 mm	8B009508	27,31 €	3
<b>Centrifugal Stirrer</b>						
	400 mm	8 mm	90/15 mm	8B009210	18,69 €	3
						

## Stirring Paddles

Model	Description	Part No	Price in €	Discountgroup		
<b>Propeller Stirrer</b> 	length	diameter	impeller size			
	300 mm	6 mm	50 mm	8B009100	18,20 €	3
	300 mm	8 mm	50 mm	8B009103	18,20 €	3
	400 mm	8 mm	50 mm	8B009104	18,69 €	3
	500 mm	8 mm	50 mm	8B009105	19,55 €	3
	400 mm	8 mm	70 mm	8B009110	19,44 €	3
500 mm	10 mm	100 mm	8B009114	27,56 €	3	
<b>Propeller Stirrer</b> 	300 mm	6 mm	50 mm	8B009000	18,19 €	3
	400 mm	8 mm	50 mm	8B009004	19,44 €	3
	400 mm	8 mm	100 mm	8B009010	20,05 €	3

## Stirring Paddles

Model	Description	Part No	Price in €	Discountgroup
	<b>length</b> <b>diameter</b> <b>impeller size</b>			
<b>Propeller Stirrer</b>				
2 blades fix	300 mm      6 mm      50 mm	8B009700	18,00 €	3
	300 mm      8 mm      50 mm	8B009703	18,00 €	3
	400 mm      8 mm      50 mm	8B009704	18,93 €	3
	500 mm      8 mm      50 mm	8B009705	19,67 €	3
				
<b>Propeller Stirrer</b>				
2 blades flexibel	300 mm      8 mm      50 mm	8B009603	21,79 €	3
	300 mm      8 mm      50 mm	8B009604	22,17 €	3
	500 mm      8 mm      50 mm	8B009605	22,78 €	3
				
<b>Stirring shaft</b>	Stirring shaft Ø6 x 300 mm, shaft end with M6, 10 mm long, Stainless steel, without stirring tool to accommodate existing impellers	10618-0001	13,80	1

# Heaters

Model	Description	Part No	Price in €	Discountgroup
<b>H 17.5D</b>	Microprocessor controlled heater, 4-digit LED display, Ceran© hotplate: square 135x135 mm, 600 watt, RT (+5 °C) -500 °C, external Pt100 connection, contact thermometer connection, safety temperature, timer, <b>230 V</b>	60228-0000	425,88 €	1
<b>H 3</b>	Heater for easy lab tasks, Ceran© hotplate: square 135x135 mm, 600 watt, continuously adjustable temperature: 40-400 °C, <b>230 V</b> <b>same model in 115 V</b>	60223-0000	177,35 €	1
		60223-0001	on request	1
<b>H 3.1</b>	Heater for easy lab tasks, stainless steel hotplate: round Ø 130mm, 500 watt, continuously adjustable temperature: 40-330 °C, <b>230 V</b> <b>same model in 115 V</b>	60225-0000	149,73 €	1
		60225-0001	142,60 €	1
<b>H 4</b>	Heater for water, oil or sand bath, stainless steel bath: volume 1.0 liters, 600 watt, continuously adjustable temperature: 40-330 °C, 230 V	60224-0000	199,08 €	1
<b>H 15/30</b>	Slide Drying Bench H 15/30 for up to 48 slides Temperature adjustable 30 – 100 °C Hotplate 360 x 182 mm, <b>230 V</b> <b>same model in 115 V</b>	60229-0000	430,50 €	1
		60229-0001	410,00 €	1

# Heaters

Model	Description	Part No	Price in €	Discountgroup
<b>H 30/30</b>	Heater for big vessels, anodized aluminum hotplate: square 300x300 mm, 2000 watt, continuously adjustable temperature: 40-350 °C, <b>230 V</b>	60226-0010	422,42 €	1
<b>H 30/30C</b>	Heater for big vessels, Ceran© hotplate: square 300x300 mm, 2000 watt, continuously adjustable temperature: 40-400 °C, <b>230 V</b>	60226-0030	473,66 €	1
<b>H 30/30D</b>	Microprocessor controlled heater for big vessels, 4-digit LED display, anodized aluminum hotplate: square 300x300 mm, 2000 watt, RT (+5 °C) -380 °C, external Pt100 connection, contact thermometer connection, safety temperature, timer, RS485 interface (RS232 via adapter 61703-00 available), <b>230 V</b>	60226-0050	724,92 €	1
<b>H 30/45</b>	Heater for big vessels, anodized aluminum hotplate: rectangular 300x450 mm, 2000 watt, continuously adjustable temperature: 40-350 °C, <b>230 V</b>	60226-0020	478,17 €	1
<b>H 30/45C</b>	Heater for big vessels, Ceran© hotplate: rectangular 300x450 mm, 2000 watt, continuously adjustable temperature: 40-400 °C, <b>230 V</b>	60226-0040	542,75 €	1
<b>Connecting cable</b>	Adapter cable RS 485 - RS 232 for direct connection of the H 30/30D to a serial port	61703-0000	36,20 €	2

## Liquid Handling

Model	Description	Part No	Price in €	Discountgroup
<b>μ 10H</b>	Contiburette, bottle top mounted electronic digital burette, hand operated version, smallest dosing amount 10 μl, calibration and adjustment facility, battery powered, LC display, thread adaptor A32 with adapters for A45 and A28	62723-0000	527,70 €	2
<b>μ 20H</b>	Contiburette, bottle top mounted electronic digital burette, hand operated version, smallest dosing amount 20 μl, calibration and adjustment facility, battery powered, LC display, thread adaptor A32 with adapters for A45 and A28	62724-0000	527,70 €	2
<b>μ 1D</b>	Contiburette, bottle top mounted electronic digital burette, motorized version, smallest dosing amount 1 μl, max. flowrate 2 ml/min calibration and adjustment facility, RS 485 interface, connection to PC with adaptor cable RS 485/RS 232 (to be ordered separately: PN 61703-00), LC display, thread adaptor A32 with adapters for A45 and A28	62730-0000	854,10 €	2
<b>μ 10D</b>	Contiburette, bottle top mounted electronic digital burette, motorized version, smallest dosing amount 10 μl, max. flowrate 20 ml/min calibration and adjustment facility, RS 485 interface, connection to PC with adaptor cable RS 485/RS 232 (to be ordered separately: PN 61703-00), LC display, thread adaptor A32 with adapters for A45 and A28	62732-0000	802,00 €	2
<b>μ 20D</b>	Contiburette, bottle top mounted electronic digital burette, motorized version, smallest dosing amount 20 μl, max. flowrate 30 ml/min calibration and adjustment facility, RS 485 interface, connection to PC with adaptor cable RS 485/RS 232 (to be ordered separately: PN 61703-00), LC display, thread adaptor A32 with adapters for A45 and A28	62734-0000	854,10 €	2

## Accessories for Contibuettes

Model	Description	Part No	Price in €	Discountgroup
<b>Power supply</b>	power supply , 9 Volt, for burettes of type D and DR	60736-0000	49,80 €	2
<b>Power supply</b>	power supply, 24 Volt	60732-0000	59,80 €	2
<b>Connecting cable</b>	Adapter cable RS 485 - RS 232 for direct connection of Contiburettes from types D and DR to a serial port	61703-0000	36,20 €	2
<b>Connecting cable</b>	RS232-connection and extension cable	60642-0000	10,50 €	2
<b>Y-cable</b>	for connection of further units via RS232	60729-0000	47,10 €	2
<b>Suction Tube</b>	made of PTFE, 300 mm long	60700-0000	4,20 €	2
<b>Ejection Tube</b>	made of FEP, OD 3 mm, 1 m long	60701-0000	10,50 €	2
<b>Ejection Cannula</b>	made of FEP, with fine calibrated tip	60702-0000	10,50 €	2
<b>Thread Adaptors</b>	made of high-grade polypropylen			
<b>A32-25</b>		60703-0000	2,90 €	2
<b>A32-28</b>		60704-0000	3,10 €	2
<b>A32-38</b>		60705-0000	5,20 €	2
<b>A32-40</b>		60706-0000	5,90 €	2
<b>A32-45</b>		60707-0000	5,20 €	2
<b>*Certificate</b>	*Cost for calibration certificate when ordered with a new unit	60739-0000	25,00 €	3



## Micrometering Pumps

Model	Description	Part No	Price in €	Discountgroup
<b>HPLH 20V</b>	High precision micrometering pump encased in a coated steel case, pump head embedded in stainless steel, wetted parts are Al <sub>2</sub> O <sub>3</sub> and PVDF or ETFE Smallest dosing amount 1 µl, max. flowrate 10 ml/min Calibration and adjustment facility. Electronic control PCONC and RemCon. Powered by a stabilised 24V power supply (to be ordered separately: part no. 60732-00)	70940-0000	1.428,30 €	2
<b>HPLH 20VCS</b>	High precision micrometering pump encased in a coated steel case, pump head embedded in stainless steel, wetted parts are Al <sub>2</sub> O <sub>3</sub> and PVDF or ETFE , with rinse port integrated into the ceramic cylinder Smallest dosing amount 1 µl, max. flowrate 10 ml/min Calibration and adjustment facility. Electronic control PCONC and RemCon. Powered by a stabilised 24V power supply (to be ordered separately: part no. 60732-00)	70947-0000	1.897,20 €	2
<b>HPLH 20VCS with rinse pump</b>	HPLH 20VCS, additionally with an integrated rinse pump. Powered by a stabilised 24V power supply (to be ordered separately: part no. 60732-00)	61772-0000	2.359,80 €	2
<b>HPLH 200V</b>	High precision micrometering pump encased in a coated steel case, pump head embedded in stainless steel, wetted parts are Al <sub>2</sub> O <sub>3</sub> and PVDF or ETFE Smallest dosing amount 10 µl, max. flowrate 100 ml/min Calibration and adjustment facility. Electronic control PCONC and RemCon. Powered by a stabilised 24V power supply (to be ordered separately: part no. 60732-00)	70950-0000	1.400,40 €	2

## Micrometering Pumps

Model	Description	Part No	Price in €	Discountgroup
<b>HPLH 200VCS</b>	High precision micrometering pump encased in a coated steel case, pump head embedded in stainless steel, wetted parts are Al <sub>2</sub> O <sub>3</sub> and PVDF or ETFE , with rinse port integrated into the ceramic cylinder Smallest dosing amount 10 µl, max. flowrate 100 ml/min Calibration and adjustment facility. Electronic control PCONC and RemCon. Powered by a stabilised 24V power supply (to be ordered separately: part no. 60732-00)	70957-0000	1.897,20 €	2
<b>HPLH 200VCS with rinse pump</b>	HPLH 200VCS, additionally with an integrated rinse pump. Powered by a stabilised 24V power supply (to be ordered separately: part no. 60732-00)	61775-0000	2.359,80 €	2
<b>HPLH 300VCS</b>	High precision micrometering pump encased in a coated steel case, pump head embedded in stainless steel, wetted parts are Al <sub>2</sub> O <sub>3</sub> and PVDF or ETFE , with rinse port integrated into the ceramic cylinder Smallest dosing amount 20 µl, max. flowrate 200 ml/min Calibration and adjustment facility. Electronic control PCONC and RemCon. Powered by a stabilised 24V power supply (to be ordered separately: part no. 60732-00)	70967-0000	1.897,20 €	2
<b>HPLH 300VCS with rinse pump</b>	HPLH 300VCS, additionally with an integrated rinse pump. Powered by a stabilised 24V power supply (to be ordered separately: part no. 60732-00)	61777-0000	2.359,80 €	2

## Micrometering Pumps

Model	Description	Part No	Price in €	Discountgroup
<b>HPLH 1000V</b>	High precision micrometering pump encased in a coated steel case, pump head embedded in stainless steel, wetted parts are Al <sub>2</sub> O <sub>3</sub> and PVDF or ETFE, smallest dosing amount 50 µl, max. flowrate 400 ml/min calibration and adjustment facility. Electronic control PCONC and RemCon. Powered by a stabilised 24V power supply (to be ordered separately: part no. 60732-00)	70970-0000	1.827,00 €	2
<b>HPLH 1000VS</b>	High precision micrometering pump encased in a coated steel case, pump head embedded in stainless steel, wetted parts are Al <sub>2</sub> O <sub>3</sub> and PVDF or ETFE , with piston rinse port. Smallest dosing amount 50 µl, max. flowrate 400 ml/min calibration and adjustment facility. Electronic control PCONC and RemCon. Powered by a stabilised 24V power supply (to be ordered separately: part no. 60732-00)	70975-0000	1.846,70 €	2
<b>HPLH 1000VS with rinse pump</b>	HPLH 1000VS, additionally with an integrated rinse pump, Powered by a stabilised 24V power supply (to be ordered separately: part no. 60732-00)	61779-0000	2.309,30 €	2

## Micrometering Pumps

Model	Description	Part No	Price in €	Discountgroup
<b>HPLH 20PF</b>	High precision pulsefree micrometering pump encased in a coated steel case, pump head embedded in stainless steel, wetted parts are Al <sub>2</sub> O <sub>3</sub> and PVDF or ETFE , with rinse port integrated into the ceramic cylinder. Smallest dosing amount 2 µl, max. flowrate 10 ml/min. Calibration and adjustment facility. Electronic control PCONC and RemCon Powered by a stabilised 24V power supply (to be ordered separately: part no. 60732-00),	70980-0000	2.432,30 €	2
<b>HPLH 200PF</b>	High precision pulsefree micrometering pump encased in a coated steel case, pump head embedded in stainless steel, wetted parts are Al <sub>2</sub> O <sub>3</sub> and PVDF or ETFE, with special rinse port integrated into the ceramic cylinder. Smallest dosing amount 20 µl, max. flowrate 100 ml/min. Calibration and adjustment facility. Electronic control PCONC and RemCon Powered by a stabilised 24V power supply (to be ordered separately: part no. 60732-00)	70985-0000	2.432,30 €	2

## Micrometering Pumps

Model	Description	Part No	Price in €	Discountgroup
	<b>Pump mechanics from HPLH - Pump with stepping motor and pump head. Without control electronics and housing.</b>			
HPLH 20V OEM		60771-0000	444,00 €	2
HPLH 20VCS OEM		60772-0000	500,90 €	2
HPLH 200V OEM		60775-0000	444,00 €	2
HPLH 200VCS OEM		60776-0000	500,90 €	2
HPLH 300VCS OEM		60777-0000	500,90 €	2
HPLH 1000VS OEM		60778-0000	684,90 €	2
HPLH 1000V OEM		60779-0000	579,30 €	2
HPLH 20T OEM		60791-0000	286,70 €	2
HPLH 20TCS OEM		60792-0000	480,20 €	2
HPLH 200T OEM		60795-0000	286,70 €	2
HPLH 200TCS OEM		60796-0000	480,20 €	2
HPLH 300TCS OEM		60797-0000	480,20 €	2
HPLH 1000T OEM		60799-0000	480,20 €	2

# Micrometering Pumps

Model	Description	Part No	Price in €	Discountgroup
<b>Multi-Channel-Pump</b>	Consisting of 2 up to 9 pumps in one housing. These systems are made upon customer request. Great variety of pump heads,also heatable, with different kinds of rinse ports available, dosingvolumes from 1µl step up to 400 ml/min. Pump heads in stainlesssteel, or highly resistant plastics such as PEEK, PFA, PVDF, or ETFE. Pump systems made from high grade Al <sub>2</sub> O <sub>3</sub> . RS232-Interface and Daisy chaining. Price upon request.	617xxx	on request	
<b>DP 200</b>	Top-quality micrometring pump with digital flowrate control, with plastic foil keyboard. Integrated Adjustment and calibration function.			
<b>Typ:</b>	<b>Available in several versions:</b>			
<b>20VCS</b>	Flowrate: 0,02 - 4 ml/min, Stroke volume: 20 µl	61763-0000	1.024,70 €	2
<b>200VCS</b>	Flowrate: 0,2 - 40 ml/min, Stroke volume: 200 µl	61767-0000	1.024,70 €	2
<b>300VCS</b>	Flowrate: 0,4 - 60 ml/min, Stroke volume: 350 µl	61769-0000	1.024,70 €	2
<b>20TCS</b>	Flowrate: 0,02 - 4 ml/min, Stroke volume: 20 µl	61761-0000	970,80 €	2
<b>200TCS</b>	Flowrate: 0,2 - 40 ml/min, Stroke volume: 200 µl	61765-0000	970,80 €	2
<b>300TCS</b>	Flowrate: 0,4 - 60 ml/min, Stroke volume: 350 µl	61768-0000	970,80 €	2
<b>20V</b>	Flowrate: 0,02 - 4 ml/min, Stroke volume: 20 µl	61762-0000	955,30 €	2
<b>200V</b>	Flowrate: 0,2 - 40 ml/min, Stroke volume: 200 µl	61766-0000	955,30 €	2
<b>20T</b>	Flowrate: 0,02 - 4 ml/min, Stroke volume: 20 µl	61760-0000	929,40 €	2
<b>200T</b>	Flowrate: 0,2 - 40 ml/min, Stroke volume: 200 µl	61764-0000	929,40 €	2

## Micrometering Pumps

Model	Description	Part No	Price in €	Discountgroup
<b>Spare parts pump head for HPLH-pumps, DP 200 pumps and Tower II</b>				
<b>20 T</b>	Pump head	60999-0060	192,50 €	3
<b>20 V</b>	Pump head	60999-0045	349,80 €	3
<b>20 VCS</b>	Pump head	60999-0010	406,80 €	3
<b>200 T</b>	Pump head	60999-0050	192,50 €	3
<b>200 V</b>	Pump head	60999-0090	349,80 €	3
<b>200 TCS</b>	Pump head	60999-0055	386,10 €	3
<b>200 VCS</b>	Pump head	60999-0040	406,80 €	3
<b>300 TCS</b>	Pump head	60999-0070	386,10 €	3
<b>300 VCS</b>	Pump head	60999-0080	406,80 €	3
<b>1000 T</b>	Pump head	60999-0085	239,30 €	3
<b>1000 V</b>	Pump head	51779-0000	360,80 €	3
<b>1000 VS</b>	Pump head	51739-0000	409,00 €	3

## Accessories for Micrometering Pumps

Model	Description	Part No	Price in €	Discountgroup
<b>PCON C</b>	Electronic control for HPLH pumps	60762-0000	508,40 €	2
<b>PCON C</b>	Electronic control PCON C for HPLH 1000	60765-0000	539,40 €	2
<b>PCON C</b>	Plate PCON C complet for HPLH PF	60767-0000	547,70 €	2
<b>PCON E</b>	Electronic control for HPLH pumps Tower II	60768-0000	436,80 €	2
<b>Remote - Control</b>	with 10 keys for set up of all relevant data	60712-0000	292,10 €	2
<b>PTFE tube</b>	1 m, AD 3.2 mm, ID 1.6 mm, 1/8"	10758-0001	5,60 €	3
	1 m, AD 1.56 mm, ID 0.96 mm, 1/16"	10758-0002	5,20 €	3
	1 m, AD 5 mm, ID 4 mm	10291-0003	6,80 €	3
	1 m, AD 6 mm, ID 4 mm	10291-0023	7,50 €	3
<b>FEP tube</b>	1 m, outer dia. 3 mm, inner dia. 2 mm	10291-0019	5,60 €	3
	1 m, outer dia. 5 mm, inner dia. 4 mm	10758-0003	6,80 €	3
<b>Connection for</b>	for PTFE tube with outer dia. 3.2 mm, 1/8" UNF 1/4-28	10721-0003	10,10 €	3
	for PTFE tube with outer dia. 1.56 mm, 1/16" UNF 1/4-28	10721-0001	10,10 €	3
	for FEP tube with outer diameter 3 mm, 1/8" UNF 1/4-28	10721-0003	10,10 €	3
	Pump head connection M8 for HPLH 300 versions	10721-0005	10,50 €	3
	Pump head connection M10 for HPLH 1000 versions	10738-0002	10,50 €	3



## Blood Cell Counter

Model	Description	Part No	Price in €	Discountgroup
<b>DIFF 15</b>	Compact multi-function cell counter 15 entry keys, 230 V same model in 115 V	60243-0000	519,02 €	1
		60243-0001	519,02 €	1
<b>DIFF 15PC</b>	same as DIFF 15 but with RS232 interface for PC connection, including PC software, 230 V same model in 115 V	60244-0000	750,65 €	1
		60244-0001	750,65 €	1

## Horizontal Mixers

Model	Description	Part No	Price in €	Discountgroup
<b>RM 10</b>	10 removable rollers synchronously rocking and rotating tube mixer, <b>10-70 rpm</b> , usable roll length: 330 mm, diameter 32 mm, average distance from roll to roll: 36 mm, tilt angle: $\pm 3^\circ$ , 24 V DC	60207-0030	1.037,40 €	1
<b>RM 10</b>	10 removable rollers synchronously rocking and rotating tube mixer, <b>4-30 rpm</b> , usable roll length: 330 mm, diameter 32 mm, average distance from roll to roll: 36 mm, tilt angle: $\pm 3^\circ$ , 24 V DC	60207-0100	1.037,40 €	1
<b>RM 5</b>	5 removable rollers synchronously rocking and rotating tube mixer, <b>10-70 rpm</b> , usable roll length: 330 mm, diameter 32 mm, average distance from roll to roll: 36 mm, tilt angle: $3^\circ$ , 24 V DC	60207-0070	548,00 €	1
<b>RM 5</b>	5 removable rollers synchronously rocking and rotating tube mixer, <b>4-30 rpm</b> , usable roll length: 330 mm, diameter 32 mm, average distance from roll to roll: 36 mm, tilt angle: $3^\circ$ , 24 V DC	60207-0110	548,00 €	1
<b>RM 5K</b>	5 rollers synchronously rocking and rotating tube mixer, <b>4-30 rpm</b> , usable roll length: 216 mm, diameter 32 mm, average distance from roll to roll: 36 mm, tilt angle: $5^\circ$ , 24 V DC	60207-0060	414,75 €	1
<b>RM 5F</b>	5 rollers synchronously rocking and rotating tube mixer, <b>40 rpm</b> , usable roll length: 330 mm, diameter 32 mm, average distance from roll to roll: 36 mm, tilt angle: $3^\circ$ , 24 V DC	60207-0020	452,03 €	1

# Homogenisers

Model	Description	Part No	Price in €	Discountgroup
<b>X 120</b>	Hand-held, high speed drive motor for small volumes, electronically stabilised speed control for tools up to 17 mm, speed: 10.000 - 33.000 rpm, 140 W, for shafts T6, T10 and T17, <b>230 V</b> <b>same model in 115 V</b> , speed: 5.000 - 32.000 rpm	60404-0000	245,28 €	1
		60404-0001	245,28 €	1
<b>Unidrive X1000</b>	Drive unit, 1050 Watt, built-in speed control, 4.000 - 33.000 rpm, <b>230 V</b> <b>same model in 115 V</b>	60402-0050	510,83 €	1
		60402-0051	510,83 €	1
<b>Unidrive X1000D</b>	Drive unit, 1050 Watt, built-in speed control, 4.000 - 33.000 rpm with display, <b>230 V</b> <b>same model in 115 V</b>	60406-0050	681,45 €	1
		60406-0051	681,45 €	1
<b>X 1740</b>	Very powerful drive motor, steplessly adjustable, without display, suitable for all shafts up to T/G 40, 2.500 - 23.000 rpm, 1500 Watt. <b>230 V</b> <b>same model in 115 V</b>	60408-0000	847,25 €	1
		60408-0001	847,25 €	1
<b>DK 30</b>	Flow Through Chamber for shafts G20 and G30	60428-0000	396,90 €	1
<b>DK 40 (incl. baseplate)</b>	Inline-disperser: Flow-through chamber with external cooling, benchmounting device and Generator G 40 (optional type F, N or V) Without drive unit. If no drive available, please order drive motor X 1740 (Part no 60408-00)!	60429-0000	1.003,80 €	1

# Homogeniser Tools

Model	Description	Part No	Price in €	Discountgroup
<b>T 6</b>	55 mm long			
	type <b>F</b> complete with generator	60420-000F	416,75 €	1
	type <b>M</b> complete with knife generator	60420-000M	487,20 €	1
	type <b>N</b> complete with generator	60420-000N	416,75 €	1
	type <b>V</b> complete with generator	60420-000V	416,75 €	1
<b>T 6</b>	120 mm long			
	type <b>F</b> complete with generator	60410-000F	500,75 €	1
	type <b>M</b> complete with knife generator	60410-000M	571,20 €	1
	type <b>N</b> complete with generator	60410-000N	500,75 €	1
	type <b>V</b> complete with generator	60410-000V	500,75 €	1
<b>T 10</b>	Shaft, 10 mm diameter, without Generator	60421-0000	183,54 €	1
	type <b>F</b> complete with generator	60421-000F	272,58 €	1
	type <b>M</b> complete with knife generator	60421-000M	343,04 €	1
	type <b>N</b> complete with generator	60421-000N	272,58 €	1
	type <b>V</b> complete with generator	60421-000V	272,58 €	1
<b>T 17</b>	Shaft, 10 mm diameter, without Generator	60421-0000	183,54 €	1
	type <b>F</b> complete with generator	60426-000F	286,13 €	1
	type <b>M</b> complete with knife generator	60426-000M	356,58 €	1
	type <b>N</b> complete with generator	60426-000N	286,13 €	1
	type <b>V</b> complete with generator	60426-000V	286,13 €	1
<b>T 20</b>	Shaft, 20 mm diameter, without Generator	60422-0000	189,84 €	1
	type <b>F</b> complete with generator	60422-000F	307,76 €	1
	type <b>N</b> complete with generator	60422-000N	307,76 €	1
	type <b>V</b> complete with generator	60422-000V	307,76 €	1
<b>G 20</b>	Shaft, 20 mm diameter, without Generator	60423-0000	266,81 €	1
	type <b>F</b> complete with generator	60423-000F	412,23 €	1
	type <b>M</b> complete with knife generator	60423-000M	482,58 €	1
	type <b>N</b> complete with generator	60423-000N	412,23 €	1
	type <b>V</b> complete with generator	60423-000V	412,23 €	1

## Homogeniser Tools

Model	Description	Part No	Price in €	Discountgroup
<b>T 30</b>	Shaft, 20 mm diameter, without Generator	60414-0000	448,46 €	1
	type <b>F</b> complete with generator	60427-000F	618,60 €	1
	type <b>N</b> complete with generator	60427-000N	618,60 €	1
	type <b>V</b> complete with generator	60427-000V	618,60 €	1
<b>G 30</b>	Shaft, 20 mm diameter, without Generator	60415-0000	607,53 €	1
	type <b>F</b> complete with generator	60428-000F	770,10 €	1
	type <b>M</b> complete with knife generator	60428-000M	842,50 €	1
	type <b>N</b> complete with generator	60428-000N	770,10 €	1
	type <b>V</b> complete with generator	60428-000V	770,10 €	1
<b>T 40</b>	Shaft, 20 mm diameter, without Generator	60414-0000	448,46 €	1
	type <b>F</b> complete with generator	60414-000F	699,51 €	1
	type <b>N</b> complete with generator	60414-000N	699,51 €	1
	type <b>V</b> complete with generator	60414-000V	699,51 €	1
<b>G 40</b>	Shaft, 20 mm diameter, without Generator	60415-0000	607,53 €	1
	type <b>F</b> complete with generator	60415-000F	858,59 €	1
	type <b>M</b> complete with knife generator	60415-000M	928,94 €	1
	type <b>N</b> complete with generator	60415-000N	858,59 €	1
	type <b>V</b> complete with generator	60415-000V	858,59 €	1





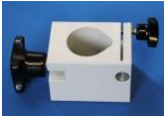
## Stators and Rotors

Model	Description	Part No	Price in €	Discountgroup
<b>Note:</b>				
To obtain the correct sized generator please order a rotor and stator as follows:				
V-Generator = V-Rotor + V-Stator				
F-Generator = F-Rotor + F-Stator				
N-Generator = F-Rotor + V-Stator				
M-Knifegenerator = Rotor M + Stator M				
<b>Knife rotor 6-M</b>		61442-0000	139,50 €	1
<b>Rotor 6 V</b>		60460-0000	115,82 €	1
<b>Rotor 6 F</b>		60461-0000	115,82 €	1
<b>Knife stator 10-M</b>		61436-0000	93,10 €	1
<b>Stator 10 V</b>		60430-0000	48,83 €	1
<b>Stator 10 F</b>		60431-0000	48,83 €	1
<b>Knife rotor 10-M</b>		61446-0000	62,70 €	1
<b>Rotor 10 V</b>		60440-0000	45,47 €	1
<b>Rotor 10 F</b>		60441-0000	45,47 €	1
<b>Knife stator 17-M</b>		61438-0000	96,30 €	1
<b>Stator 17 V</b>		60438-0000	52,29 €	1
<b>Stator 17 F</b>		60439-0000	52,29 €	1
<b>Knife rotor 17-M</b>		61448-0000	67,10 €	1
<b>Rotor 17 V</b>		60448-0000	48,83 €	1
<b>Rotor 17 F</b>		60449-0000	48,83 €	1

## Stators and Rotors

Model	Description	Part No	Price in €	Discountgroup
<b>Note:</b>				
To obtain the correct sized generator please order a rotor and stator as follows:				
V-Generator = V-Rotor + V-Stator				
F-Generator = F-Rotor + F-Stator				
N-Generator = F-Rotor + V-Stator				
M-Knifegenerator = Rotor M + Stator M				
<b>Knife stator 20-M</b>		61450-0000	119,00 €	1
<b>Stator 20 V</b>		60432-0000	76,13 €	1
<b>Stator 20 F</b>		60434-0000	76,13 €	1
<b>Knife rotor 20-M</b>		61460-0000	87,60 €	1
<b>Rotor 20 V</b>		60442-0000	71,51 €	1
<b>Rotor 20 F</b>		60444-0000	71,51 €	1
<b>Knife stator 30-M</b>		60437-000M	120,65 €	1
<b>Stator 30 V</b>		60437-000V	103,32 €	1
<b>Stator 30 F</b>		60437-000F	103,32 €	1
<b>Knife rotor 30-M</b>		60447-000M	124,95 €	1
<b>Rotor 30 V</b>		60447-000V	97,76 €	1
<b>Rotor 30 F</b>		60447-000F	97,76 €	1
<b>Knife stator 40-M</b>		61455-0000	180,90 €	1
<b>Stator 40 V</b>		60456-0000	130,62 €	1
<b>Stator 40 F</b>		60457-0000	130,62 €	1
<b>Knife rotor 40-M</b>		61465-0000	150,60 €	1
<b>Rotor 40 V</b>		60466-0000	120,44 €	1
<b>Rotor 40 F</b>		60467-0000	120,44 €	1

## Accessories for Homogenisers

Model	Description	Part No	Price in €	Discountgroup
<b>Universal Socket wrench</b>	for all shafts 6 – 40 mm	60471-0000	21,63 €	1
<b>Universal Rotor wrench</b>	for all shafts 6 - 30 mm except shafts G 30 M and T 30 M (use 60476-00)	60470-0000	31,82 €	1
<b>Rotor wrench</b>	for shaft T 10	60472-0000	12,08 €	1
<b>Rotor wrench</b>	for shaft T 30/G 30	60476-0000	31,82 €	1
<b>Rotor wrench</b>	for shaft T 40/G 40	60477-0000	49,46 €	1
	Cross over clamp for pedestal stand / shock proof protection and all products with flange Ø 12, "light" (e. g. X120, R14, R16), Aluminum	60492-0000	19,32 €	1
	Cross over clamp for pedestal stand and all products with flange Ø 12, " heavy" (e. g. R18 - R80D, X1000, X1000D), stainless steel	60492-0050	58,49 €	1
	Cross over clamp for pedestal stand / shock proof protection and all products with flange Ø 12, stainless steel	60492-0020	61,95 €	2
	Cross over clamp „Jumbo“ for U-Stand, Stainless steel, for Ø 10-30 mm and Ø 6-16 mm	8B005650	54,00 €	3
	Special clamp for X 1740	60495-0000	57,96 €	1





U-Stand, Dim.: 692 x 371 mm incl. rod  
Rod: Ø 27 mm, length: 1010 mm

60494-0000

237,30 €

1

Pedestal Stand incl. rod, platform dimensions: 330x200 mm, rod diameter:  
16mm, length: 690mm

60491-0000

106,68 €

1

## Shakers

Model	Description	Part No	Price in €	Discountgroup
<b>VM 4</b>	Universal shaker for test tubes up to 30 mm dia. micro tubes, centrifuge tubes Speed range: 100 - 2.800 rpm, timer 0-60 min., touch down or continuous operation, <b>230 V</b>	60208-0000	286,13 €	1
<b>VM 3</b>	Vortex mixer for up to 30 mm outer diameter test tubes, continuous or touch down operation, 100 - 2.800 rpm shaking amplitude: 3mm, <b>230 V</b>	60203-0000	244,62 €	1
<b>VM 2</b>	Vortex mixer for up to 30 mm test tubes, continuous or touch down operation, shaking amplitude: 3mm, electronic feed-back speed control, speed: 100 - 2.800 rpm, <b>230 V</b>	60204-0000	244,62 €	1

## Shakers

Model	Description	Part No	Price in €	Discountgroup
<b>S 26</b>	Microprocessor controlled, universal shaker for different shaking adapters, custom made shaking adapters available on request, backlit text display, maintenance-free motor: 18 watts, 50-1100 1/min, shaking platform: 275x190mm, horizontal circular motion, shaking orbit 3mm, timer function, RS232 interface, optional indexing mechanism, <b>230 V</b>	60386-0000	1.130,01 €	1

## Accessories / Shaking attachment S 25 for Erlenmeyer flasks and Separating funnel

Model	Description	Part No	Price in €	Discountgroup
<b>E6 - Adapter</b>	for 6 Erlenmeyer flasks à 250 ml	60689-0010	286,13 €	1
<b>E4 - Adapter</b>	for 4 Erlenmeyer flasks à 500 ml	60689-0020	217,88 €	1
<b>E2 - Adapter</b>	for 2 Erlenmeyer flasks à 1000 ml	60689-0030	188,16 €	1

## Shakers

Model	Description	Part No	Price in €	Discountgroup
<b>S 20</b>	Universal shaker with electronic speed control, different shaking adapters available, brushless motor: 40 watt, continuously adjustable speed: 100-1100 1/min, horizontal circular motion, shaking orbit 3mm, timer function, <b>230 V same model in 115 V</b>	60283-0000	425,88 €	1
		60283-0001	425,88 €	1

## Accessories / Shaking attachment for S 20

Model	Description	Part No	Price in €	Discountgroup
<b>E-Adapter</b>	for shaking single hand-held vessels	60683-0000	48,83 €	1
<b>S-Adapter</b>	platform with adhesive mat (200 x 400 mm) to hold petri dishes, microtiter plates, etc.	60684-0000	79,59 €	1
<b>V-Adapter</b>	for up to 4 Erlenmeyer or round-bottom flasks, 500 ml each	60685-0000	119,18 €	1
<b>U-Adapter</b>	universal adaptor with two rubber rollers to hold Erlenmeyer flasks, or flat bottom flasks	60686-0000	180,60 €	1
<b>R-Adapter</b>	test tube adaptor to hold 36 tubes with a diameter of 18 mm	60687-0000	170,42 €	1

## Shakers

Model	Description	Part No	Price in €	Discountgroup
<b>S 50</b>	Shaker with electronic speed control, holds up to eight 500 ml or 1000 ml Erlenmeyer flask, motor: 120 watt, continuously adjustable speed: 50-800 1/min, waving shaking to simulate hand shaking movement, tilt angle $\pm 2^\circ$ , timer function, <b>230 V</b> <b>same model in 115 V</b>	60285-0000	789,29 €	1
		60285-0001	789,29 €	1
<b>ST 5</b>	Shaker with electronic speed control, large rocker platform with non-slip mat to hold Petri dishes, microtiter plates and other small vessels: rectangular 410x340mm, brushless motor: 7 watt, continuously adjustable speed: 10-100 1/min, rocking movement, adjustable tilt angle of 3°, 6°, 9° or 12°, <b>230 V</b> , Discontinued Model	60281-0000	568,89 €	1

# Customs Tariff Numbers

Magnetic Stirrers

- 84798200

Overhead Stirrers

- 84798200

Heaters

- 84798200

Liquid Handling

- 84799080

Micrometering Pumps

- 84799080

Third Arm

- 84798200

Blood Cell Counter

- 84798200

Horizontal Mixers

- 84798200

Homogenisers

- 84798200

Shaker

- 84798200

## Export Documents

Description	Part No	Pice in €	Discountgroup
Customs Declaration	10000005	15,00 €	3

**Note:**

Please always specify which of the documents listed below is required!

EUR. 1	10000006	20,00 €	3
A.TR.	10000006	20,00 €	3
Certificate of Origin	10000006	20,00 €	3



Ingenieurbüro CAT  
M. Zipperer GmbH

**Company Name:** \_\_\_\_\_

Name of the consignor: \_\_\_\_\_

Street / No.: \_\_\_\_\_

ZIP / City: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-Mail: \_\_\_\_\_

## ORDER SHEET

Ingenieurbüro CAT  
M. Zipperer GmbH  
Wettelbrunner Str. 6  
D-79282 Ballrechten-Dottingen  
Tel.: ++49-(0)7634-5056-800  
Fax: ++49-(0)7634-5056-801  
[www.cat-ing.de](http://www.cat-ing.de)  
info@cat-ing.de

THE FOLLOWING NUMBER MUST BE LISTED ON ALL DOCUMENTS,  
SHIPPING DOCUMENTS AND INVOICES:

**ORDER NO:** \_\_\_\_\_

Part No	Quantity	Model / Description	Unit Price	Total Price
Total Price without 19% VAT				

\_\_\_\_\_ Date / Signature