

Ingenieurbüro M. Zipperer GmbH

From marketing knowledge to real innovation

# **Product Overview**



## Ingenieurbüro CAT

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## **Hotplate Stirrers and**









## **Hotplate Magnetic Stirrers**

Unit	Description	Watts	Rpm	Temp	Cat.No.
MCS66	microprocessor controlled, LCD display, programmable multistep timer, safety temp.,				
	temp. ramps, RS232, Eloxal hotplate, membrane keyboard, PT-100 sensor	500	60-1600	40°-330°	60276-00
MCS67	same as above but with Ceran® hotplate	600	60-1600	40°-440°	60277-00
M26	μP controlled, alpha-numeric LCD display, Eloxal hotplate 2 independant safety circuits, connector for PT-100 sensor programmable: timer, safety temp.,				
	temp. ramp. RS232 interface	500	60-1600	40°-360°	60279-00
M17.5	μP-controlled, 4 digit temp., speed and time LED display, Ceran® hotplate,				
	connector for PT100 probe	600	60-1600	40°-500°	60263-00
M16.5	same as M17.5, but with stainless steel hotplate	500	60-1600	40°-350°	60262-00
M16.6	same as M17.5, but with Eloxal hotplate	500	60-1600	40°-380°	60264-00
M11	el. feed-back speed control, st. steel hotplate, KTA1	500	80-1600	40°-330°	60270-00
M12	el. feed-back speed control, Eloxal hotplate, KTA1	500	80-1600	40°-330°	60271-00
M13	el. feed-back speed control, Ceran® hotplate, KTA1	600	80-1600	40°-400°	60272-00
M6	el. feed-back speed control, Ceran® hotplate	600	80-1600	40°-400°	60266-00
M6.1	el. feed-back speed control, st. steel hotplate	500	80-1600	40°-330°	60268-00
M6.2	el. feed-back speed control, Eloxal hotplate	500	80-1600	40°-330°	60269-00
ECM6	compact low-energy stirrer, Eloxal hotplate	160	10-1600	40°-250°	60256-00
KM16.4D	magnetic hotplate stirrer and bath heater for round-bottom flasks of 100,		V.*		
	250 or 500 ml, µP-controlled, 4 digit temp,, speed and time LED display,				
	connector for PT100 probe	500	60-1600	40°-300°	60257-00
KM16.7D	same as above but for round-bottom flasks of 1000, 2000 ml	500	60-1600	40°-300°	60258-00
	with connector for electronic and standard contact thermometer.	230	.000	.000	55256 66
	All microprocessor controlled instruments are also available with an RS232 interface.		**		



## Magnetic Stirrers (with stainless steel cases)

Unit	Descriptio	n					Watts	Rpm			Cat.No.
M30 M20.20 M15 M5 ECM5 ECM2 M2	electr. feed opto-elect stirrer with compact lo compact s		tronic speed control t, low speed range	4/			65 65 40 40 6 6 6	100 - 1100 100 - 1100 60 - 1600 80 - 1600 10 - 1200 2 - 200 500			60254-00 60253-00 60261-00 60265-00 60255-00 60252-00 60260-00
Accessorie	es for MCS6	6, MCS67, M26, M1	6.5, M16.6 and M17.5								
Dummy PI	lug MCS66										30278-45
Dt. 100	FI .										60278-00
Pt-100 Pt-100		temperature probe col ctronic temp. probe fo	mplete, probe diameter 3r r MCS and M26 only	nm, total lengti	n 300 mm						60273-00
Electronica Length: 25 Electronica	60 mm, temp al contact th	ermometer, digital and . range: -50 - +300°C ermometer, digital and	I mercury free with Pt-10 I mercury free with Pt-10 2A probe encased in glass	00 probe,							60664-00 60666-00
Stirring E	Bars		Cat.No.			Stirring I	Bar Extrac	tor			Cat.No.
Length:	20 mm 25 mm 30 mm 40 mm 50 mm 60 mm	Diameter: 6 mm 7 mm 7 mm 7 mm 7 mm 7 mm 7 mm 10 mm Content: 12 pieces	8b035009 8b035017 8b035020 8b035022 8b035024 8b035028 8b035031 8b035035 8b000000			Length: Egg-shape	150 mm 200 mm 250 mm d stirring ba	Diameter: ar for M20.:	10 mm 10 mm	130.30	8b037202 8b037204 8b037206



## **Hotplates and Heaters**

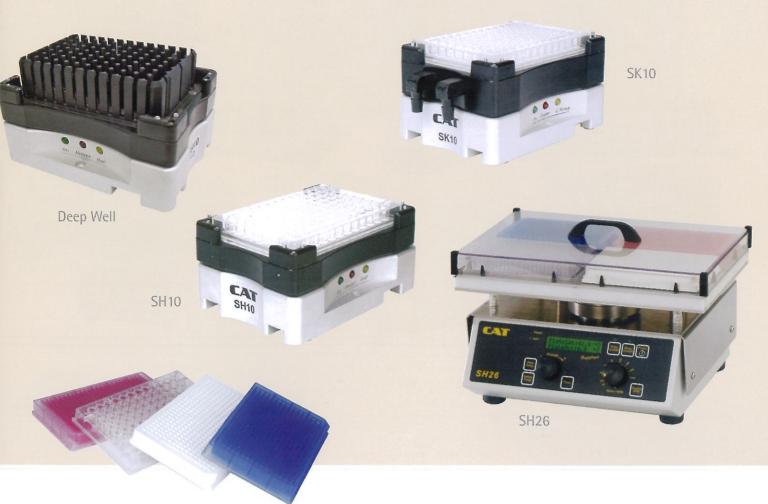


## Heaters

Unit	Description		Watts	Cat.No.
M17.5D	μP controlled, 4 digit temp., speed and time LED display, Ceran® hotplate,			
	connector for PT100 probe, 150x184x110mm, RT-500°C		600	60228-00
H3	Ceran® hotplate 140 x140 mm	4	600	60223-00
H3.1	stainless steel hotplate 130 mm dia		500	60225-00
H4	sandbath for sand, oil or other fluids, 1 ltr st. steel bath		600	60224-00
H30/30	Aluminium hotplate 300 x 300 mm		2000	60226-10
H30/30C	Ceran® hotplate, otherwise same as H30/30		2000	60226-30
H30/45	Aluminium hotplate 300 x 450 mm		2000	60226-20
H30/45C	Ceran® hotplate, otherwise same as H30/45		2000	60226-40
H60/30	Aluminium hotplate 600 x 300 mm		4000	60226-60
H60/30C	Ceran® hotplate, otherwise same as H60/30		4000	60227-70



# **Shaking Heaters**



### **Shaking Heaters**

Unit	Description	Frequency	Cat.No.
SH26.0	Shaking heater for 4 microtiter plates, high precision temp. control from ambient to 65°C in steps of 0.1°C Programmable over-temperature-cut-out. Optical control via a 2 x 16 character alpha-numeric LC-display. Protection against unintended changes on set		
	temperature, safety-temperature and switch-off timer	50-1100	65287-00
SH26.1	same as SH26.0. Customer can choose from pick ups for MTP or Eppendorf tubes and with		
	RS232-interface, high precision temp. Control from ambient to 95°C in steps of 0.1°C	50-1100	65287-10
SH26.2	same as SH26.1. Full computer control and special indexing mechanismn which stops		
	platform always at defined position	50-1100	65287-20
SH26.4	shaking and heating up to 160°C, 2 heating blocks for 24 reagent vessels		
	of either 1.5 or 2ml	50-1100	65287-40
SH25	Shaking heater for microtiter plates, high precision temp. control from ambient to 90°C Programmable over-temperature-cut-out. Optical control via a 2 x 16 character alpha-numeric LC-display. Protection against unintended changes on set temperature,		
	safety-temperature and switch-off timer	50-200	65286-00

Heating blocks for a great variety of microplates are available upon request.

SK10	Cooling/Heating Shaker via bath thermostat.
	Operating temperature range minus 5 -° to 50 -°C.
	61 1: 6 400 000

Shaking frequency: 100 - 800 rpm

SH10 Modular shaking/heating unit with separate electronic control box suitable for automated applications. Operating temperature from RT to 90 - °C.

Shaking frequency: 200 - 1.200 rpm.

The size of both shakers is based on the "footprint" of a microtiter plate. Please contact us in case of special applications. Stand-alone versions will be available soon.



## **Shakers**



## **Shaking Heaters**

Unit	Description	Frequency	Cat.No.
S25	Powerful shaker with linear reciproce shaking motion, RS232 interface for computer control,	200	
200	indexing mechanism, timer. rpm, 20mm amplitude. To be combined with various shaking adaptors	40-200	60385-00
S26	Powerful shaker with horizontal shaking motion, RS232 interface for computer control, indexing mechanism, timer., 3mm amplitude. To be combined with various shaking adaptors	50-1100	60386-00
S50	wrist-action shaker for up to 8 Erlenmeyer flasks of 500 ml each, feed-back speed control,		
500	60 min timer	50-700	60285-00
S20	multi-use orbital shaker, electronic feed-back speed control, 3 mm amplitude, 0-60 min timer,		
	40 W, to be combined with the following shaking-adaptors	80-1000	60283-00
S20D	same as S20 but with digital display and digital timer	100-800	60289-00
S20 shak	ing adaptors:		
ozo onan	E- shaking-adaptor for single hand held vessels		60683-00
	S- platform with adhesive mat, to hold petri dishes and similar items (200x400)		60684-00
	V- shaking-adaptor for either 4 Erlenmeyer flasks or round-bottom flasks		60685-00
	U- universal shaking-adaptor, two rubber rollers to hold Erlenmeyer flasks		60686-00
	R- test tube shaking-adapter to hold 36 test tubes of up to 16 mm o.d., variable from		
	vertical to 45° inclination		60687-00
VM2	Vortex mixer for up to 30 mm o.d. test tubes, continuous or touch operation,		
	feed-back speed control	100-2800	60204-00
VM3	Vortex mixer for up to 20 mm o.d. test tubes, continuous or touch operation,		
	feed-back speed control	100-2800	60203-00
VM4	Universal vortex mixer for test tubes, microcentrifuge tubes and microtiter plates,		
	timer controlled or touch operation, feed-back speed control	100-2800	60208-00
ST5	Bidimensional shaker, flat tray 420 x 350 mm, oscillation angle at 3, 6, 9 and 12°,	40 400	20001 00
	electronic speed control	10-100	60281-00
ST5D	same as above but with digital display	10-100	60282-00
ST3	Bidimensional shaker, flat tray 217x217 mm, oscillation angle at 3 or 6°. electronic speed control	3-50 O/min	60381-00
GM3	Shaker with 3D-movement. Ideal for low foaming agitation as well as DNA extraction.		
	Angular tilt: 3 and 6°. Platform dimension: 217 x 217 mm to hold Petri dishes, micro plates and	3-50	60382-00
	other small containers. With digital display and built in timer: up to 99 hours	3-30	00302-00



Accesories for Shaker ST3 and GM3 Detachable platform

### **Horizontal Mixers**

Unit	Description	Watts	Rpm	Cat.No.
RM5-40	5 rollers synchronous rocking and rotating tube mixer	45	36	60205-00
RM5K-30	same as above, but shorter rollers	45	30-32	60205-10
RM5-6	same as above, but slow speed	6	6	60206-00
RM5-30V	same as above, but variable slow speed	6	1-30	60207-00
RM5-80V	5 rollers synchronous rocking and rotating tube mixer	45	10-80	60207-80
RM5W-40	same as RM5-40 but with removable rollers	45	36	60205-30
RM5W-30V	same as above but with removable rollers		1-30	60207-40
RM5W-80V	same as above but with removable rollers		10-80	60207-50
RM10W-30V	10 removable rollers synchronous rocking and rotating tube mixer		1-30	60207-10
	10 removable rollers synchronous rocking and rotating tube mixer		10-80	60207-90
RT20	rotating and swaying mixer for 20 test tubes up to 15 mm o.d., exchangeable tube holders	6	5/6	60201-00
RT60	rotating and swaying mixer for 60 test tubes, 12, 15 and 18 mm o.d.	6	5/6	60202-00



## **Overhead Stirring Motors**

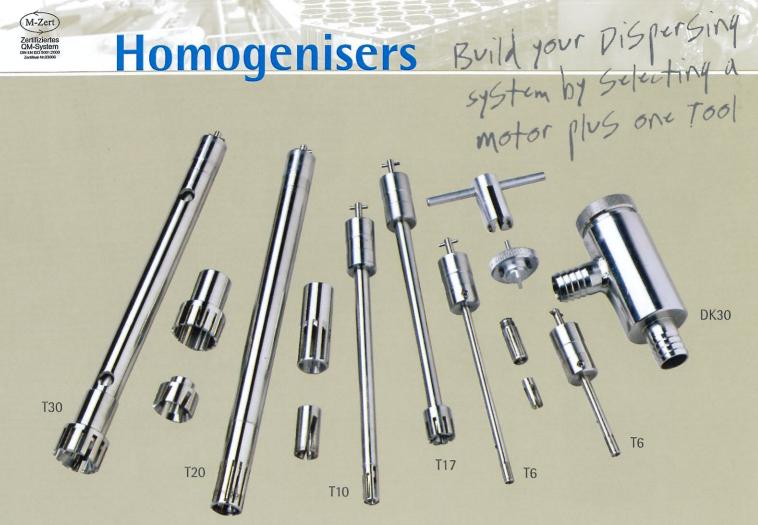


## **Stirring Motors**

Unit	Description	Watts	Rpm	Cat.No.
R100CT	the "bull" of CAT high torque stirring motors applies up to 600 Ncm torque at speeds of 10–500 rpm. Ideal for medium to high viscous media, 10,5 mm chuck, hollow shaft,			
	μ-controller and alpha-numeric display of mechanic power, torque and timer, RS232.	220	10-500	60314-00
R100C	powerful stirring motor (150 Ncm) for laboratory and pilot-plant use, 10.5 mm chuck	220	40-2000	60218-00
R100CL	with hollow shaft, microprocessor, speed and torque display, timer, RS232. same as R100C but with 250 Ncm torque and speed range of 40–1100 rpm.	220	40-2000	60315-00
R100SD	general purpose laboratory use, same as above but with 4- digit LED speed readout only.	220	10 1100	00010 00
	Max. torque 100 Ncm. Hollow shaft and precision chuck at 10.5 mm.	180	40-2000	60313-00
	The R100-series is designed for stirring jobs up to 200 litres (related to water); ideal for medium			
	and high viscous media 1,000-50,000 mPaxs. We also offer units with other speed ranges up to			
	6000 rpm. For further information please contact us directly.			
	Accessories: Special stand for all R100 overhead stirrers Cat.No. 60494, special clamp, essential for all R100 overhead stirrers Cat.No. 60495			
R80D	high torque stirrer (80 Ncm) for lab use, clamping Diameter 1–10.5 mm; capacity 120			
	liters related to water, electronic speed control/display	85	20-700	60310-00
R80-PC	same as R80D, but with RS232 interface	85	20-700	60310-10
R50D	high torque stirrer (50 Ncm) for lab use, adjustable hollow shaft, 10.5 mm chuck,	05	20 1000	00210 00
DEO	electronic speed control/display	85 85	30-1600 30-1600	60216-00 60215-00
R50 R18	same as R50D, but without speed display	120	110-2000	60214-00
R18	laboratory stirrer (18 Ncm) electronic feed-back control laboratory stirrer, steplessly adjustable speed, 4 mm shaft only	40	100-2000	60213-00
R2	mini-stirrer, fixed speed, stainless steel stirring paddle	3	750	60212-00
R1	hand stirrer, battery-powered, for use with disposable stirring rods and special stainless			
	steel stirring blades		3000	60211-00



Part No.	Blade Stirrer	Length including blade	Diameter of rod	Diameter of blade	Part No.	Propeller Stirrer	Length including blade	Diameter of rod	Diameter of blade
8B009403	D	300 mm	8 mm	70 mm	8B009110	- D	400 mm	8 mm	70 mm
8B009404	d	400 mm	8 mm	70 mm	8B009111	12 mm	500 mm	8 mm	70 mm
8B009405		500 mm	8 mm	70 mm	8B009112		300 mm	10 mm	100 mm
8B009406		300 mm	10 mm	70 mm	8B009113	S.	400 mm	10 mm	100 mm
8B009407	- 01-	400 mm	10 mm	70 mm	8B009114	1(0)	500 mm	10 mm	100 mm
8B009408		500 mm	10 mm	70 mm		0,			
					8B009000	σD1 →	300 mm	6 mm	50 mm
8B009503	D	300 mm	8 mm	70 mm	8B009001		400 mm	6 mm	50 mm
8B009504		400 mm	8 mm	70 mm	8B009002	<del>-</del>	500 mm	6 mm	50 mm
8B009505	0 0 0	500 mm	8 mm	90/15 mm	8B009003	T Isam	300 mm	8 mm	50 mm
8B009506	(0)0)	300 mm	10 mm	90/15 mm	8B009004		400 mm	8 mm	50 mm
8B009507	D12+	400 mm	10 mm	90/15 mm	8B009005		500 mm	8 mm	50 mm
8B009508	D1	500 mm	10 mm	90/15 mm					
					8B009703	D1	300 mm	8 mm	50 mm
					8B009704		400 mm	8 mm	50 mm
Part No.	Centrifugal Stirre	r			8B009705	D1	500 mm	8 mm	50 mm
rait ivo.	centinagai stine					1-h-1.			
8B009209		300 mm	8 mm	90/15 mm	8B009603	18 mm	300 mm	8 mm	50 mm
8B009210	- D1-+	400 mm	8 mm	90/15 mm	8B009604	18 mm	400 mm	8 mm	50 mm
8B009211		500 mm	8 mm	90/15 mm	8B009605		500 mm	8 mm	50 mm
8B009212	10 mm	300 mm	10 mm	90/15 mm	0000000		000 11111	0 111111	50 mm
8B009213	M	400 mm	10 mm	90/15 mm				23	
8B009214	П	500 mm	10 mm	90/15 mm	Part No.				
00000211				00/1011111	rart No.				
					60619-00	Stirring blade		0-0-0	E . 3
Part No.	Propeller Stirrer				60618-00	Stirring shaft Ø 8x3	50	À	Berney 19
					60617-00	Dissolver Ø 100			and the second
8B009100		300 mm	6 mm	50 mm					20000
8B009101	D	400 mm	6 mm	50 mm					
8B009102	12 mm	500 mm	6 mm	50 mm	Part No.				
8B009103		300 mm	8 mm	50 mm	60494-00	II_Stand	-	-	
8B009104		400 mm	8 mm	50 mm	00434 00	O Stanta	· Comment		
8B009105	7.	500 mm	8 mm	50 mm	60495-00	Special clamp for R	100	1 10	
8B009106	0	300 mm	6 mm	70 mm	00495-00	Special claimp for N	100		
8B009107	eD1	400 mm	6 mm	70 mm	60700 00	Software "LabContro	ol for Mindows"	1	
		500 mm	6 mm	70 mm	00/09-00	PC-connecting cable			
8B009108		300 mm		70 mm	60401 00				
8B009109		300 mm	8 mm	70 mm	60491-00	redestal Stand			



## Homogenisers/Motors (Drive units)

Unit	Description	Rpm	Cat.No.
X1740	high-power, heavy-duty drive motor with electronic speed control, 1700 watts for 40 mm tools	5000-22000	60408-00
X1030	very powerful robust drive motor 1000 watt electronic speed control, for tools up to 30 mm	10000-24000	60407-00
X1030D	same as above but with digital display of rpm,	10000-24000	60406-00
Unidrive	powerful drive motor, built-in speed control for all dispersing tools below up to 30 mm	4000-33000	60402-00
X520D	high-speed robust drive motor for all dispersing tools up to 30 mm, with electronic speed control		
	and digital display of rpm	11000-29000	60405-00
X520	same as above but without digital speed display	11000-29000	60403-00
X360	drive motor, 350 watts, high speed motor, speed control separateley available	45000	60401-00
P1500	speed control unit for X360		60493-00
X120	hand-held, high speed drive motor for small volumes electronically stabilized speed control for	11000-33000	60404-00
	tools up to 17 mm		

### Homogeniser/Dispersing Tools (interchangeable all stainless steel)

Volume	Volume Dispersing Shafts		vicer	viscous V low viscosity N			fir	ne F	knit	fe**M	Potor	Stator	Possible	motors	
volume	tools*	diam. (mm)	length (mm)	V-rotor +	· V-stator nerator	F-rotor -			F-rotor + F-stator = F-generator		M-rotor + M-stator = M-generator		(mm)	motors /	max. v m/sec.
0,1 - 50	T6/T6 lang	6	105-170	2	7	4	7	4	11	2	7	4	6	X120	
6	CAT No.: 6420/6410	*				-N		-F		-M				X360 X520D Unidrive	9,5
1 - 250	T10	10	205	2	7	4	7	4	15	2	7	7,5	10	X120	
10	CAT No.: 6421			-V	9	-N	60	-F	3	-M				X360 X520D Unidrive	17,5



## Homogeniser/Dispersing Tools (interchangeable all stainless steel)

### Teath per rotor/stator

Volume	Dispersing tools*	Sha diam. (mm)	afts length (mm)	V-rotor			Iow viscosity N F-rotor + V-stator = N-generator		fine F F-rotor + F-stator = F-generator		knife**M M-rotor + M-stator = M-generator		Stator (mm)	Possible motors /	motors max. v m/sec.
5 - 1000	T17	10	205	2	9	6	9	6	13	2	9	12,5	17	X120	***************************************
17	CAT No.: 6426		-6	-V		-N	No.	-F	No.	-M				X360 X520D Unidrive	29,5
10 - 2000	T20/G20	20	265	2	9	6	9	6	13	2	9	15	20		
20	CAT No.: 6422/6423			-V		-N		-F		-M	1			X360 Unidrive X1030D	35,4
30 - 5000	T30/G30	20	255	3	13	6	13	6	17	3	13	25	30		
30	CAT No.: 6424/6425			-V		-N		-F		-М	1975			Unidrive X1030D	32,7
100 - 20000	T40/G40	20	360	4	13	8	13	8	23	4	13	33	42		
40	CAT No.: 6414/6415		1	-V		-N		-F						X1740	40,8

<sup>\*</sup>T denotes Teflon bearing, G denotes ceramic seals \*\*Special knife generator for stringy and fibrous materials

Tools	Description	Cat.No.
DK30	stainless steel, flow through chamber for shaft G20 and G30, flow 3000 ltr/h	60428-00
DK40	stainless steel, flow through chamber incl. motor and G40, flow 5000 ltr/h	60429-00
AX60	analytical mill (use drive unit X520 or Unidrive) stainless steel grinding chamber with separate	
	cooling channels	60409-00



## **Dispensing Units**

Accessories

Unit	Description		Cat.No.
Liquid pr	rocessor	system comprising a bottle-mounted dispensing unit for precise dispensing, pipetting, diluting,	
		sampling and time controlled operations, microprocessor controlled, remoteable programming keypad, with 2 line a-numeric LCD display, RS232 interface, handles volumes from 10μ l to 100 ltr.	60294-00
		optional; remote dispensing hand-set.	60715-00
Contibur	rette µ10MC	motor-driven burette, 0.01 ml-9999.99 ml, rinse port optional with connections for power supply with	
	atte promo	calibration and adjustment facility, RS 232 interface.	60792-00
Contibur	rette µ10MCR	burette as µ10MC but with pistonrinse device	61793-00
	rette µ1MC	burette as μ10MC but smallest dosing volume 1μ l	60290-00
	rette µ20MC	burette as µ10MC but smallest dosing volume 20µ l	60298-00
Contibur	rette µ10-C	electronic digital burette, 0.01 ml-9999.99 ml, hand operated version, with 500 hr battery-powered	
		LCD display, with calibration and adjustment facility.	60791-00
Contibur	rette µ20-C	burette as μ10-C but smallest dosing volume 20μ l	61794-00
Contibur	rette µ10M0	similar as μ10MC but without digital display and controls without calibration and adjustment facility,	60291-00
	• 0000 00000000	without RS 232 interface, for use with remote controllers C2 or C4 or	60710-00
		PC cable	60711-00
Remote 6	controller C2	remote functions "reset", "run", and "10μl" steps, digital display for dispensed volume.	
Remote	controller C4	2-line a-numeric display, microprocessor controlled for setting and read-out of set volume and digital display of actual volume and total sum dispensed.	60713-00

Power supplies, PC-connecting cable, remote foot- and hand-switch, bottle thread adaptors,

suction and ejection cannulas - on request.

# and Pumps





HPLH 200PF



9 channel pump



HPLH 1000



DP04

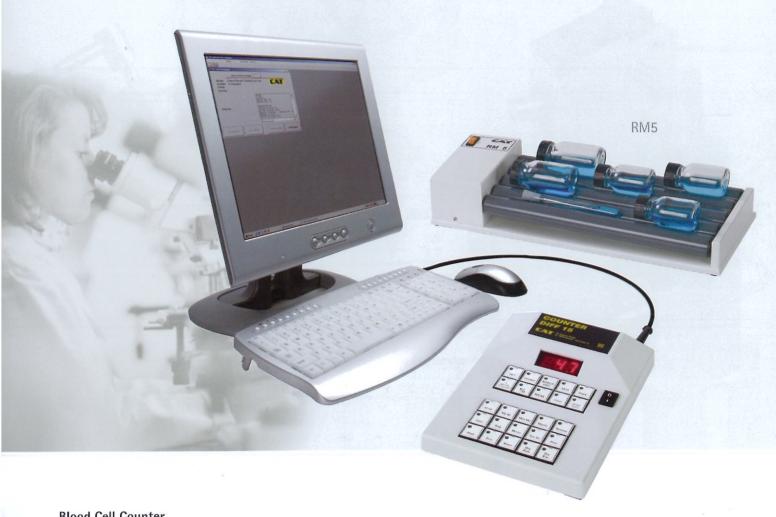


## **Pumps**

Unit	Description	Cat.No.
DOSCA microme	etering pump HPLH PCON C with remotable controllers	
HPLH 20V	high precision micrometering pump (ø 4 mm) encased in a coated steel housing, pump head stainless steel, wetted parts are	
	AL2O3 and PVDF or Tefzel, flow rate: 5 μl/min – 10ml/min	70940-00
HPLH 20VS	same as above but with rinse port, wetted parts: AL2O3 and PVDF or Tefzel	70945-00
HPLH 20VCS	same as above but with special rinse port inside ceramic cylinder, "wetted" parts: AL2O3 and PEEK or PFA	70947-00
HPLH 200V	high precision micrometering pump (ø 6 mm) encased in a coated steel housing, pump head stainless steel,	
	wetted parts are AL2O3 and PVDF or Tefzel, flow rate: 50 μl/min - 100ml/min	70950-00
HPLH 200VS	same as above but with rinse port, wetted parts: AL2O3 and PVDF or Tefzel	70955-00
HPLH 200VCS	same as above but with special rinse port inside ceramic cylinder, "wetted" parts: AL 203 and PEEK or PFA	70957-00
HPLH 300VCS	same as above (ø 8 mm), flow rate: 100 µl/min - 200ml/min wetted parts are AL2O3 and PEEK or PFA	70967-00
HPLH 1000V	high precision micrometering pump (ø 10 mm) encased in a coated steel housing, pump head stainless steel,	
	wetted parts are AL203 and PVDF or Tefzel, flow rate: 250 μl/min - 400ml/min	70970-00
HPLH 1000VS	same as above but with rinse port, wetted parts: AL2O3 and PVDF or Tefzel	70975-00
HPLH 20PF	pulse-free pump, flow rate: 5 μl/min–10ml/min, wetted parts: AL2O3 and Tefzel	70980-00
HPLH 200PF	pulse-free pump, flow rate: 50 μl/min-100ml/min, wetted parts: AL2O3 and Tefzel	70985-00
Multi channel	consisting of 2 up two 9 pump units in one housing. These systems are made upon customer request.	
pumps	Great variety of pump heads, also heatable, with different kinds of rinse ports available, dosing volumes from 1 ul/step up	
	to 400 ml/min. Pump heads in stainless steel, or highly resistant plastics such as PEEK, PFA, PVDF or Tefzel. Pump systems	
	made from high grade AL203. RS232-interface and Daisy chaining.	617xx-xx
Lab Pump DP04	precise micrometering lab pump with analogue flow rate control. Flowrate 0 - 2ml/min. Flow direction: Normal/reverse,	
	Piston dia: 4mm V-pump head made of stainless steel.	70900
	VS-pump head made of stainless steel with rinse port.	70901
	T-pump head made of Tefzel.	70902
Lab Pump DP06	same as above but with flowrate from 0–20ml/min, Piston dia: 6mm V-pump head made of stainless steel	70905
	VS-pump head made of stainless steel with rinse por.	70906
	T-pump head made of Tefzel.	70907



## **Blood Cell Counter**



### **Blood Cell Counter**

Unit Description

compact, multi-function cell counter for manual differential counting procedures, e.g. bone, DIFF15

marrow, blood, 15 entry keys, % or real read out

DIFF15PC same as above but with RS232 interface, including software to be used with windows®

Print Adaptor for connection to DIFF15PC. Generates a formatted output of the counting

results on a printer

Cat.No.

60243-00 60244-00

60641-00

XYZ Robot (DEM) and Third Arm



### XYZ Robot

### Your application - our solution!

Please ask for our OEM XYZ machines. A tool changing device offers a variety of robotic handlings. Our product specialist will assist you with detailed information

### **DSR**

Our Dissolution Sampling Robot saves time and grants for reproducibility. Built-in pumps save a lot of bench space. For technical and product information please contact our product specialist.

## Third Arm

Your personal pipetting assistant fills tubes and vials with either a constant or variable amount of liquid(s). It also collects from preparative HPLC, Flash chromatography, leaching test and other fraction collection applications. ThirdArm and pump may be operated locally, or remotely, via a simple keypad or via PC. Contact our product specialist for detailed information.

## Interested?

Please feel free to browse and visit our website www.cat-ing.de

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