

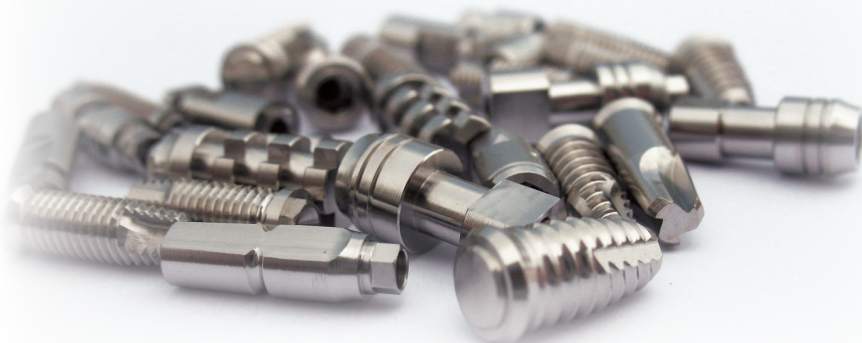


Clean Parts Clean Environment

KP .30
KP .HMA
KP .MAX

From dental implants to large die-cast products, the KP range (consisting of the KP 30, KP HMA and KP MAX versions) meets the most varied production requirements. Working completely in vacuum conditions, all systems are characterized by:

- *Continuous solvent filtration*
- *Drying and deodorization of the shavings before opening the filter*
- *Continuous solvent distillation*
- *Continuous separation of the emulsion with automatic water discharge*
- *Near total separation of oil from solvent, with continuous automatic discharge*
- *Operation data continuous detection*
- *Remote connection via internet*
- *Easy accessibility for maintenance purposes*



KP .30

Model	Internal Standard Basket Dimensions	Load weight Kg	Machine Dimensions mm W/O Automation	Cycles/hour
KP 30	180x 330 x 200h	30	1300 x 2000 x 2095h	4 - 6

Designed for the smallest items

- The best part cleaning quality
- The best solvent management
- The best environmental quality
- The best performance

VACUUM CLEANING MACHINES

MODIFIED ALCOHOLS . HFE HYDROCARBONS



KP .HMA

Model	Internal Standard Basket Dimensions	Load weight Kg	Machine Dimensions mm W/O Automation	Cycles/hour
KP 50 HMA	300 x 450 x 200h	50	1800 x 2350 x 2775h	4 - 8
KP 100 HMA	600 x 450 x 200h	100	1900 x 2900 x 2975h	4 - 8
KP 150 HMA	900 x 450 x 200h	150	2300 x 3250 x 3170h	4 - 8
KP 200 HMA	1200 x 450 x 200h	200	2300 x 3250 x 3170h	4 - 8

For the most demanding applications

- The best cleaning quality
- The best solvent management
- The best environmental quality
- The best productivity

VACUUM CLEANING MACHINES

MODIFIED ALCOHOLS . HYDROCARBONS



KP .MAX

Model	Internal Standard Basket Dimensions	Load weight Kg	Machine Dimensions mm W/O Automation	Cycles/hour
KP 400 MAX	450 x 1200 x 400h	400	2450 x 3100 x 3440h	3 - 6
KP 600 MAX	600 x 1000 x 600h	600	2500 x 3800 x 2920h	3 - 6
KP 800 MAX	800 x 1200 x 800h	1200	2500 x 3800x 2920h	3 - 6

Large systems with great performance

- The best cleaning quality
- The best solvent management
- The best environmental quality
- The best productivity

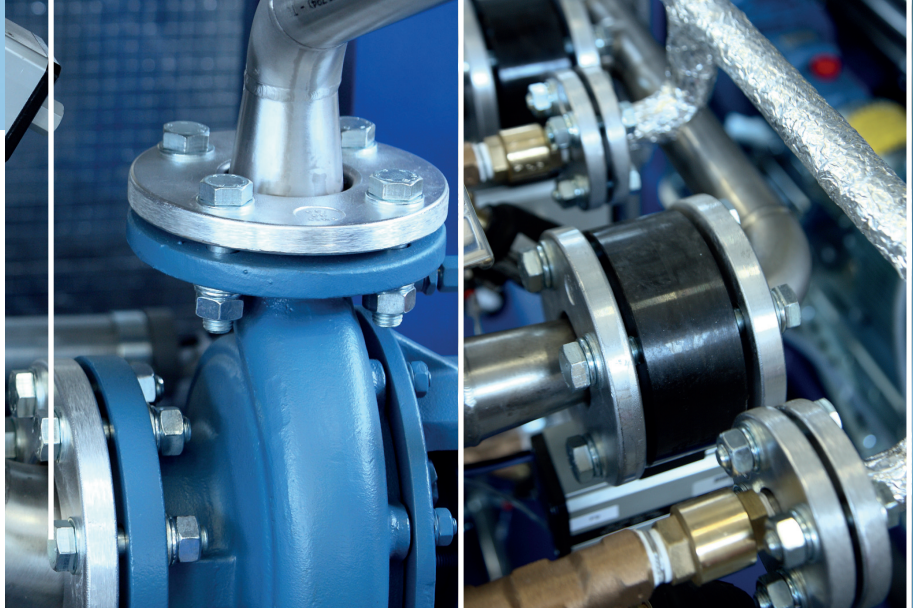
VACUUM CLEANING MACHINES

MODIFIED ALCOHOLS . HYDROCARBONS



Applications

*Turned mechanical parts
Precision CNC turned parts
Pressed metal parts
Die-casting
Bent items
Hydraulic components
Valves
Fittings
Taps
Pots and pans
Cutlery
Heat exchangers
Automotive
Sintered components
Gears
Watches
Jewelry
Medical components*



The best technology on the market

The unparalleled efficiency of the KP vacuum treatment cycle reaches vacuum values of up to 1 millibar. This efficiency combined with wide standard and optional ranges ensures the KP series cleaning units are the best cleaning technology on the market.

The best environmental quality

The absolute vacuum environment in the KP cleaning units guarantees that no solvent residue is present on the items or released into the environment at the conclusion of the treatment cycle.

The best productivity

The reduced cycle time the KP cleaning units typically produce a 100% increase in production capacity while reducing energy consumption by up to 50 percent.

The best cleaning quality

The KP cleaning units consistently guarantee the best cleaning results regardless of type or extent of the contamination. This includes the full range of difficult to reach part configurations such as blind drilled holes, threads and grooves.

The best solvent management

The KP cleaning units typically reduce solvent consumption to a few litres a year and frequently eliminate the need for stabilizers.

The greatest management saving

The KP units continually separate the cleaning solvent from oil and other contaminants. The reclaimed solvent is then used in subsequent cleaning cycles and the process repeated infinitely - dramatically constraining overall solvent consumption. Shavings can also be separated according to the type of material or additional cost savings.



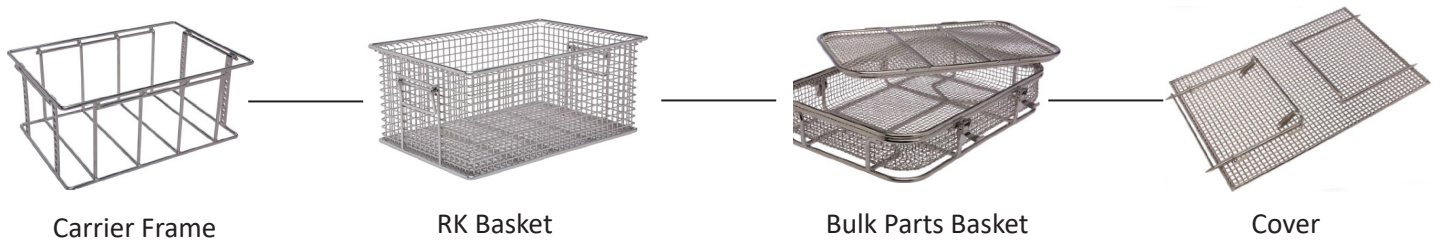


SPECIFICATIONS

ITEM	KP 30		KP 50	
SOLVENT	Liters	Gallons	Liters	Gallons
TOTAL SOLVENT VOLUME	171	45	395	104
Basket rotation rpm - min	5		1.5	
Basket rotation rpm - max	15		5	
Solvent pump flow (gallons per minute)	7 mq/h		7 mq/h	
ULTRASONIC				
Standard Weber Ultrasonic Unit (Watts /kHz)	500 W 40 khz		750W 40khz	
Optional Weber Ultrasonic Unit (Watts /kHz)				
Number of ultrasonic units available	1		3	
ELECTRIC/ELECTRONIC				
Connected Power KW	18		33	
Averaged (Absorbed power)	9		16.5	
Siemens PLC model number	SIEMENS SIMATIC S7-1200		SIEMENS SIMATIC S7-1200	
Amps	30		48	
FILTERS	Liters	Gallons	Liters	Gallons
Standard Course filter volume (gallons)	4	1	4	1
Standard fine filter volume (gallons)	4	1	4	1
WEIGHT	kg	pounds	kg	pounds
Washer weight without automation and solvent	1300	2860	2500	5500
	mm	inches	mm	inches
Loading door height (inches) mm	950 +/-20	37,4 +/-1	950 +/-20	37,4 +/-1
BASKETS	mm	inches	mm	inches
Capacity (standard baskets)	1		1	
Approximate standard basket outside dimensions (L/W/H inches)	371x221x200	14,6x8,7x7,9	471x321x200	18,5x12,6x7,9
Kogel model number reference	RK 380		RK 480	
VACUUM PUMPS				
Roots pump vacuum level (millibar)	\		1 mbar	
Roots pump Kw	2.2 Kw		2.2 Kw	
Vane pump vacuum level (millibar)	0.1		0.5	
Vane Pump KW	2.2 Kw		3Kw	
Liquid ring pump vacuum level (millibar)	\		33 mbar	
Liquid ring pump Kw	\		3 Kw	
STANDARD AUTOMATION			mm	inches
A+A50:M52 automation operator basket loading height (inches)			740+/-20	29+/-1
Number of basket rows -dirty parts conveyor staging	4		4	
Number of basket rows -clean parts conveyor staging	4		4	
CHILLER				
Chiller capacity (tons)	N/A		9500 W	
Chiller power (kw)	N/A		6 Kw	
Chiller amps	N/A		9.5 A	
APPROXIMATE AVERAGE TIMES				
Average total distill time (minutes)	N/A		180 min	
Average oil separator distill time (minutes)	150 min		300 min	
Average RP cycle time (seconds)	120 sec		120 sec	
TEMPERATURES				
Average Solvent wash cycle temperature range (degrees F)	149-185		149-185	
Average Boiler temperature (degrees F)	203-239		203-239	
Average Oil Separator (degrees F)	262.4-275		262.4-275	
Average vapor degrease cycle temperature (degrees F)	203-239		203-239	

KP 100		KP150		KP 200		KP Max Based on 600x600x1000	
Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons
642	170	1083	286	1123	297	2378	628
1.5		1.5		1.5		1.5	
5		5		5		5	
7 mq/h		32 mq/h		32 mq/h		32 mq/h	
1000 W 40 khz		1500 W 25 khz		2000 W 25 Khz		to be defined	
1000 W 25 khz							
3		3		3			
46		67		69		80	
23		33.5		34.5		40	
SIEMENS SIMATIC S7-1200		SIEMENS SIMATIC S7-1200		SIEMENS SIMATIC S7-1200		SIEMENS SIMATIC S7-1200	
67		97		100		116	
Liters	Gallons	Liters	Gallons	Liters	Gallons	Liters	Gallons
4	1	4	1	4	1	4	1
4	1	4	1	4	1	4	1
kg	pounds	kg	pounds	kg	pounds	kg	pounds
3100	6820	4000	8800	4100	9020	5000	11000
mm	inches	mm	inches	mm	inches	mm	inches
1060 +/-20	41,7 +/-1	1060 +/-20	41,7 +/-1	1060 +/-20	41,7 +/-1	950 +/-20	37,4 +/-1
mm	inches	mm	inches	mm	inches		
2		3		4		Per application	
471x321x200	18,5x12,6x7,9	471x321x200	18,5x12,6x7,9	471x321x200	18,5x12,6x7,9	Per application	
RK 480		RK 480		RK 480		Per application	
1 mbar		1 mbar		1 mbar		1 mbar	
2.2 Kw		2.2 Kw		2.2 Kw		2.2 Kw	
0.5		0.5		0.5		Per application	
3 Kw		3 Kw		3 Kw		Per application	
33 mbar		33 mbar		33 mbar		33 mbar	
3 Kw		5.5Kw		5.5Kw		5.5Kw	
mm	inches	mm	inches	mm	inches		
740+/-20	29+/-1	740+/-20	29+/-1	740+/-20	29+/-1		
4		4		4			
4		4		4			
9500 W		30000W		30000W		30000W	
6 Kw		10 Kw		10 Kw		10 Kw	
9.5 A		23 A		23 A		23 A	
INDICATIVE							
180 min		180 min		180 min		Per application	
300 min		300 min		300 min		300 min	
120 sec		120 sec		120 sec		Per application	
149-185		149-185		149-185		149-185	
203-239		203-239		203-239		203-239	
262.4-275		262.4-275		262.4-275		262.4-275	
203-239		203-239		203-239		203-239	

Modular Basket System



Stainless Steel Electropolished Baskets for Parts Cleaning Machines



PART	DESCRIPTION	PART NUMBER
RK 480/13-200	Basket 471X 321 X h200 - mesh 13X13	KO22.516.0102
VD 480/13	Adjustable Lid - mesh 13X13	KO22.516.0152
RK 480/7-200	Basket 471X 321 X h200 - mesh 7X7	KO22.516.0202
VD 480/7	Adjustable Lid - mesh 7X7	KO22.516.0752



PART	DESCRIPTION	PART NUMBER
FG 480-200LL	Modular carrier frame 471X 321 X h200	KO22.516.9030
SGKT 480-22/3 SDC	Basket 274X213Xh60 w/clamps - mesh 3mm	KO22.516.3555
SGKT 480-22/2 SDC	Basket 274X213Xh60 w/clamps - mesh 2mm	KO22.516.3604
SGKT 480-22/1 SDC	Basket 274X213Xh60 w/clamps - mesh 1mm	KO22.516.3587

WE'RE REDEFINING CLEAN AND GREEN



Vacuum Chamber Parts Washers



ZERO Water Use



**ZERO Consumable
Detergent Cost**



**ZERO Detergent
Mixing or Monitoring**



**ZERO Typical Wash
Waste Disposal**



**SUPERIOR Results
for Challenging Parts**



**REDUCED Energy
Consumption**

- Clean and properly dry parts manufactured in oil.
- Improve results and environmental concerns with a solvent based system.





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