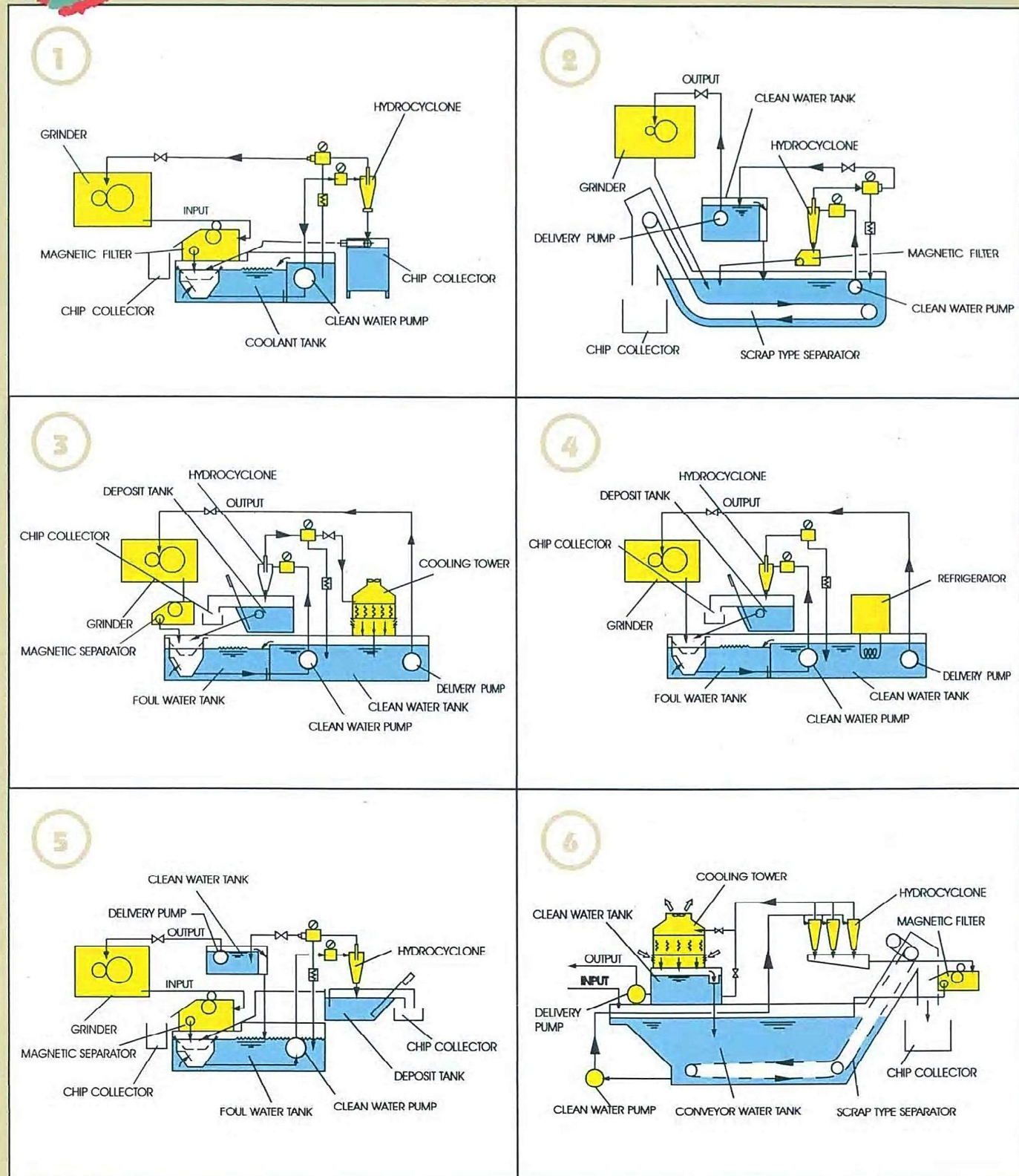
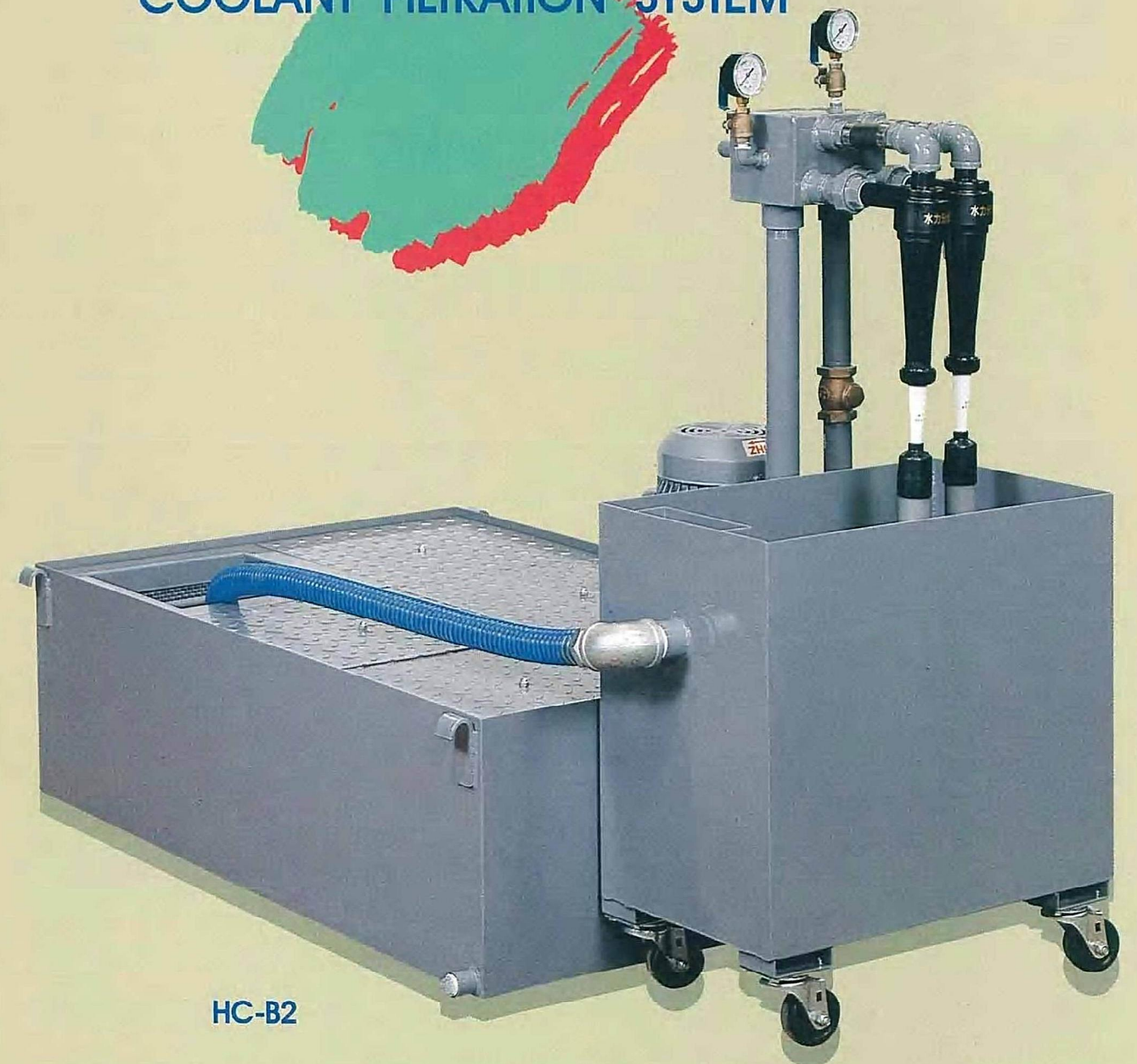


COMBINING TYPE HYDROCYCLONE SCHEMATIC



HYDROCYCLONE

COOLANT FILTRATION SYSTEM



HC-B2



源利電磁工業股份有限公司

UNI MAGNETIC INDUSTRIAL CO., LTD.

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No 23, Gongye West 6th Rd, Lukang Town, Changhua Hsien 50544, Taiwan R. O. C

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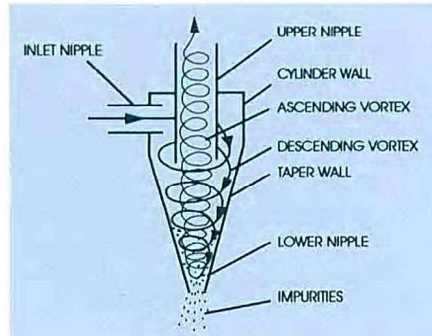
E-mail : unicoltd@ms26.hinet.net

HYDROCYCLONE

COOLANT FILTRATION SYSTEM

PRINCIPLE:

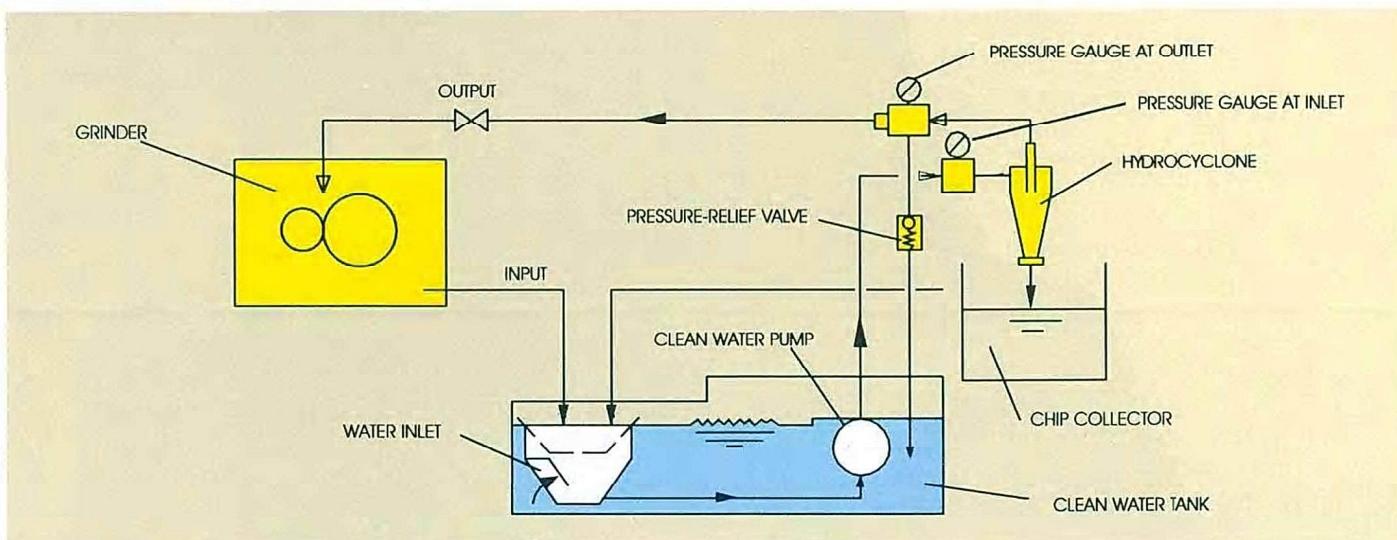
Hydrocyclone is a device using pump to supply pressure and high speed to inject water into tube of special design where ascending/descending vortices are created. Clean water will be drained out through ascending vortex while impurities will be precipitated by descending vortex.



FEATURES:

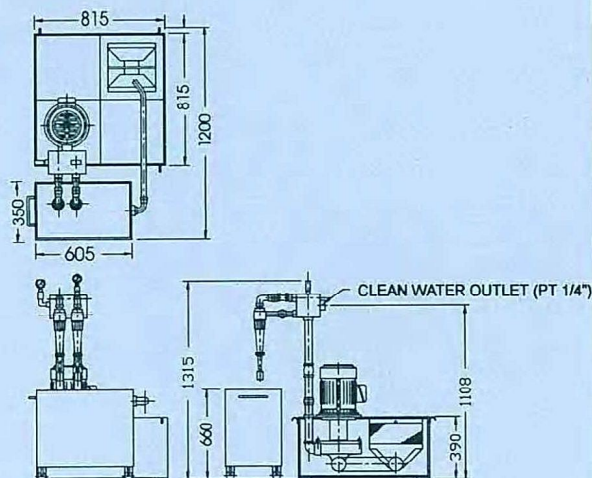
1. Excellent filtration effect up to 98% .
2. Easy maintenance, long duration. (Steel-tungsten shaft seal of pump. Lower nipple of ceramic material, replacable in no need of add of any tool.)
3. Filtration effect remains unchanged in a long-term use.
4. No consumption in filtration materials (such as tape of the paper tape filter).
5. Able to filter the impurities in the water so as to reduce water replacement frequency and produce smoother workpiece surface to deduct trimming demand for grinding wheel.
6. Ideal for the following impurities:
 - Magnetic materials (steel, nei, etc.)
 - Non-magnetic materials (stainless steel, chrome, corp, aluminium, etc.)
 - Non-matelic materials (glass, chip of grinding wheel.)

STANDARD HYDROCYCLONE SCHEMATIC

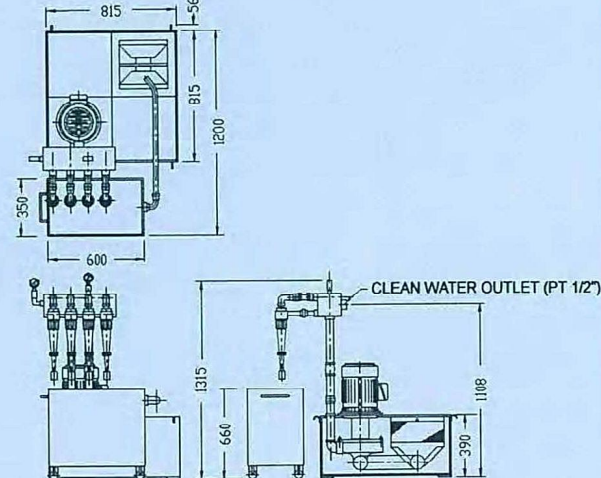


DIMENSION DIAGRAM

● 2 PCS (MODEL No. HC-B26-1EWL1)

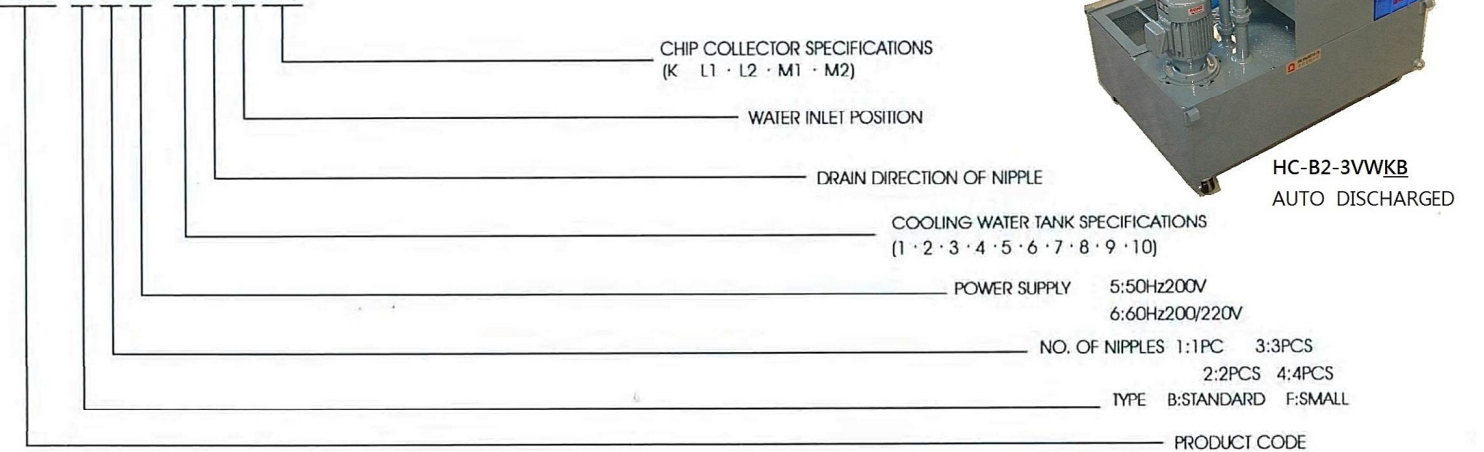


● 4 PCS (MODEL No. HC-B46-1EWL1)



SYMBOLS

HC-B26-3AUL1



CHIPS COLLECTOR SPECIFICATIONS

MODEL	SIZE	CAPACITY ℓ	WATER TANK TYPE	REMARKS
K	500x350x250	24	1.7.8.9.10	PORTABLE
KB	403x403x380	40	1~10	AUTO DISCHARGED
L1	605x350x550	80	1.3.5.7.9	WHEELS ATTACHED
L2	605x350x630	100	2.4.6.8.10	WHEELS ATTACHED
M1	700x450x550	125	1.3.5	WHEELS ATTACHED
M2	700x450x630	150	2.4.6	WHEELS ATTACHED

HYDROCYCLONE SPECIFICATIONS

MODEL	HC-F1	HC-B1	HC-B2	HC-B3	HC-B4
NO. OF NIPPLES	1	1	2	3	4
FOUL COOLING WATER DISPOSAL ℓ/min	40	70	140	210	280
CLEAN COOLING WATER SUPPLY ℓ/min	30	55	110	165	220
MAX. PRESSURE kg / c ² m	0.5				
COOLING PUMP HP	0.75kw 50/60HZ 200/220V	1.5kw	1.5kw	2.2kw 50/60HZ 200/220V	
COOLING WATER TANK MODEL	7.8 OR 9.10	1.2 OR 3.4.5.6	3.4 OR 5.6	5.6	5.6
CHIP COLLECTOR TYPE	K OR L	L	L	M	M
DIA. OF CLEAN COOLING WATER OUTLET	PT 1"	PT 1 1/4"	PT 1 1/4"	PT 1 1/2"	PT 1 1/2"

Remarks:

1. This unit is only applicable to water soluble coolant with density no more than 0.5 g/ℓ.
2. Information for chip particle less than 20μm shall be offered upon request.

FULL PRODUCTS SPECIFICATIONS LIST

COOLANT TANK SPECIFICATIONS

MODEL	DIMENSION (mm)			WATER TANK HEIGHT (mm)	MOTOR POSITION & CHIP DRAIN DIRECTION	WATER INLET POSITION
	W	L	H			
1	815	815	390	230		
2	815	815	480	290		
3	1220	815	390	340		
4	1220	815	480	430		
5	1220	1220	390	510		
6	1220	1220	480	650		
7	715	715	390	170		
8	715	715	480	220		
9	715	1070	390	260		
10	715	1070	480	330		

Remarks:

1. For fine machining, a larger water tank is necessary when the temperature alteration of cooling water affects machining quality.
2. The water tanks other than our specifications are available by order.