

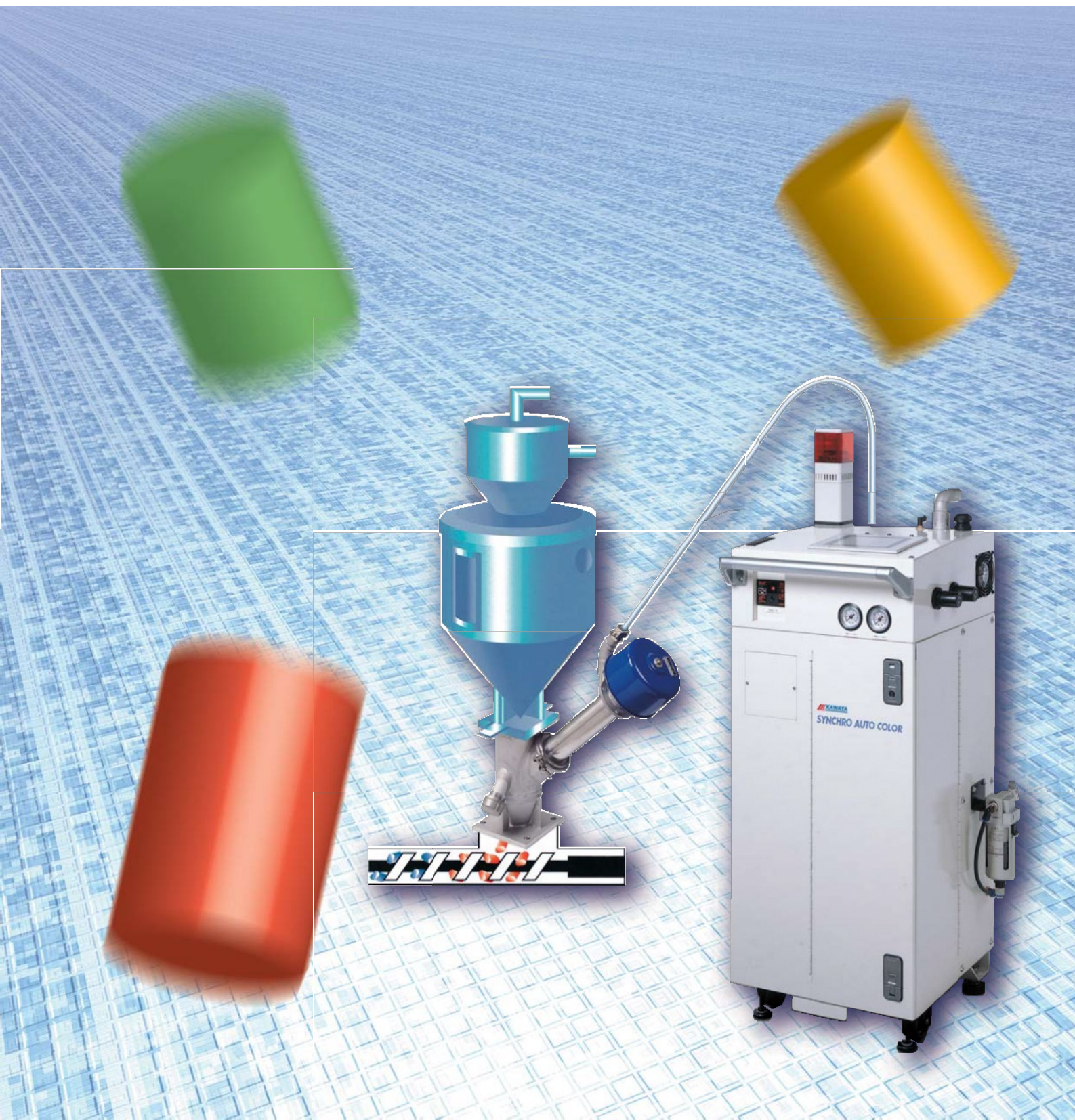


SAC series

SYNCHRO AUTOCOLOR

Gravimetric Synchronized
Feeder

Patent Number 1780228
Number 2589148



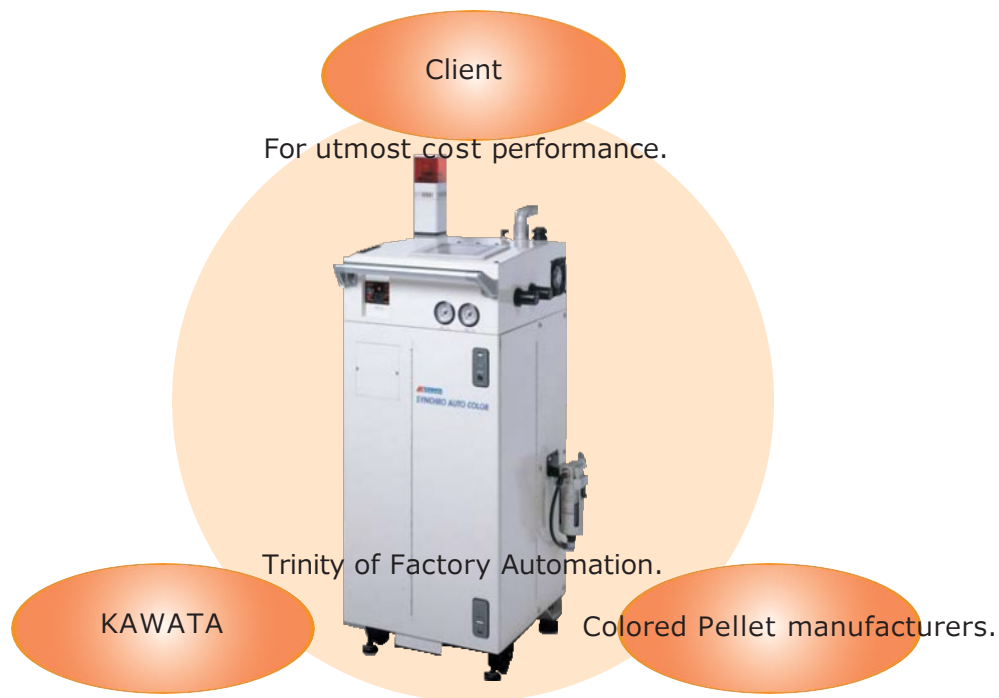
SYNCHRO AUTOCOLOR

I changed the common sense of coloring in search of the ultimate cost reduction.

Innovative coloring for ultimate cost merit.

Best coloring

: Material and Masterbatch are synchronously fed into Molding machine.



Features

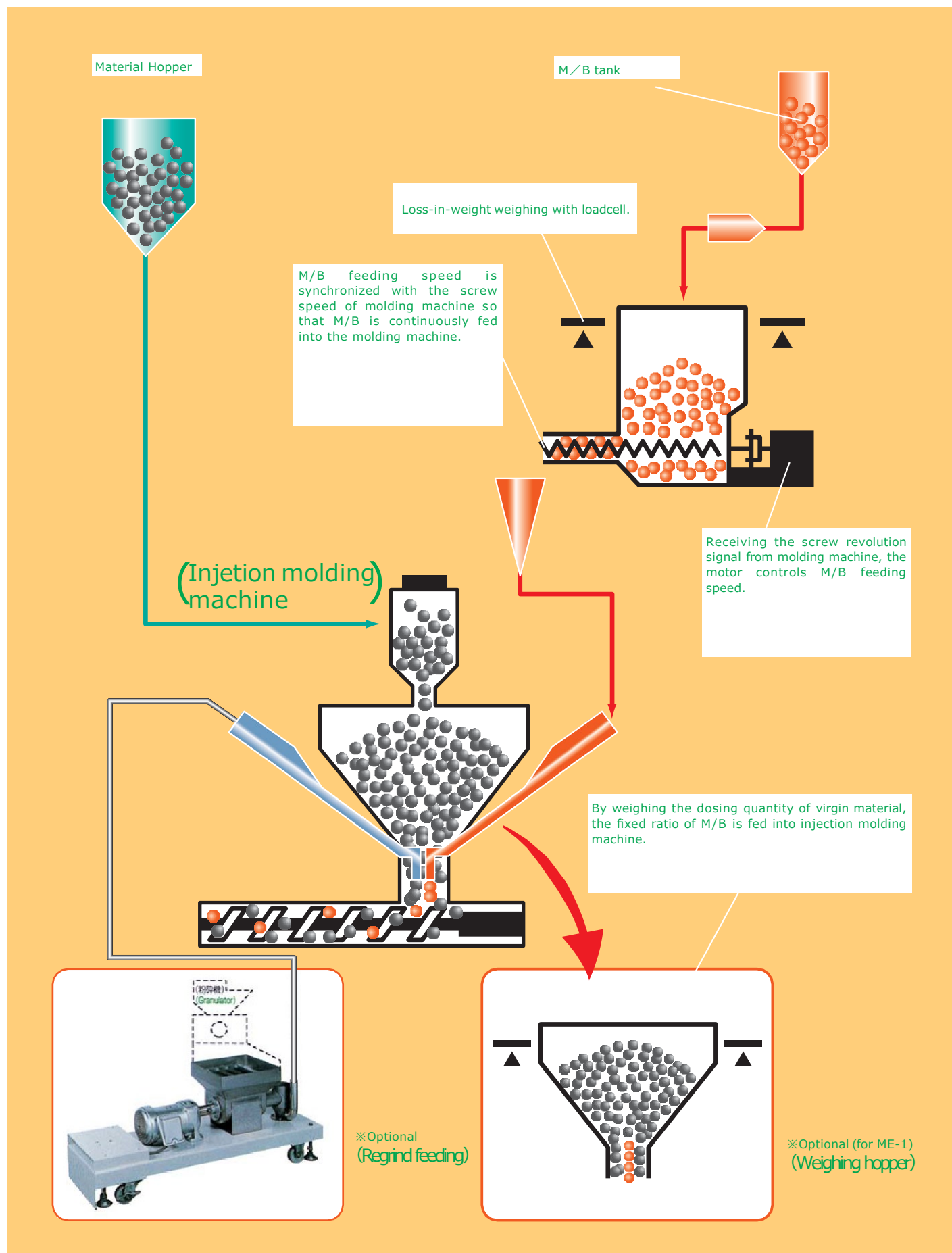
System for full automatic color change

- 1 System without mixing unit.
- 2 Material and Masterbatch are synchronously fed into Molding machine.
- 3 Masterbatch is precisely weighed with loadcell and conveyed directly to molding machine.
- 4 Highly-accurate Synchronors feeding of M/B enables the use of high-density M/B.
- 5 Remaining masterbatch can be recycled. ※
- 6 Self-cleaning device eliminated manual labor.※
- 7 Switches max. 8 colors automatically.※

(※Except for MJ&ME)

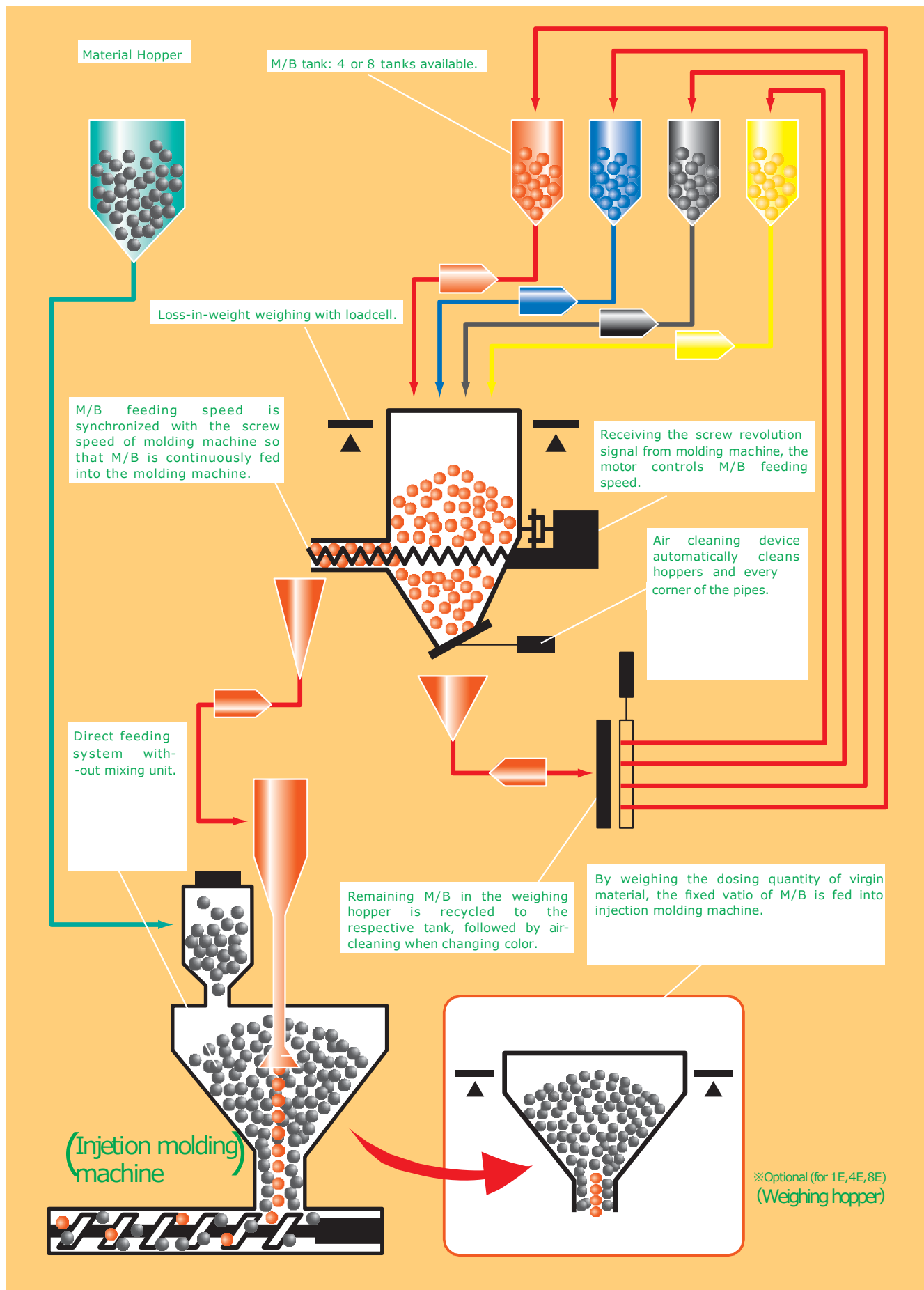
①

Flow Diagram

SAC-MJ-1
SAC-ME-1

②
Flow Diagram

SAC-4J,4E
(8J,8E)



SYNCHRO AUTOCOLOR

Display Pattern

エアークラフト低下 運転中 MENU

自動射出計量計2 自動運転中

14.7 sec 23.6 sec 16.4 sec

1.765 kg

設定メニュー

運転条件一覧 タイマ設定

SYNCHRO AUTO COLOR

メインメニュー

モニタ 設定

運転メニュー 履歴

異常 集計

計量器

SAC-4/8J Version 6.00

替 10 17

条件詳細 MENU BACK

項目	現条件	次条件
運転条件	10	17
金型選択	5	11
M/B 選択	6	2
成形品質量	2426 g	1560 g
添加率	3.0 %	3.0 %
計量1時間	23 sec	18 sec
計量2時間	16 sec	12 sec
射出時間	7 sec	4 sec

異常表示灯 MENU

異常表示灯	異常表示灯
MB要求	
フィルター異常	
設定値異常	
供給量異常	
補給異常	
排出異常	
MB空杯	
計量器異常	
エアークラフト異常	
バッテリー交換	
主材空杯	

アザー 停止 RESET

条件登録 BACK MENU

運転条件 10

条件登録	条件登録
金型選択 5	HOME 7 8 9
M/B 選択 6	4 5 6
成形品質量 2426 g	CLR 1 2 3
添加率 3.0 %	0
計量時間1 23 sec	
計量時間2 16 sec	
射出時間 7 sec	

集計メニュー MENU

集計メニュー	集計メニュー
単純合計	日報
月報	

M/B Selection display

Error display

Molding Conditions Setting display

Daily and Monthly report of M/B consumption

SAC-1J



SAC-4J (E)



SAC-8J (E)



機上部



SAC-MJ (E) -1



M/B tank

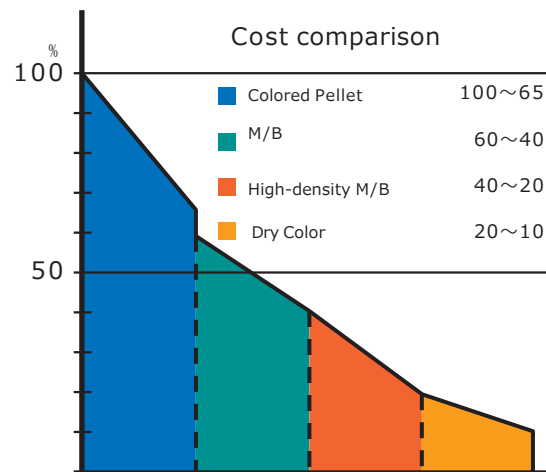


SYNCHRO AUTO COLOR solves these problems

For Better Molding Productivity

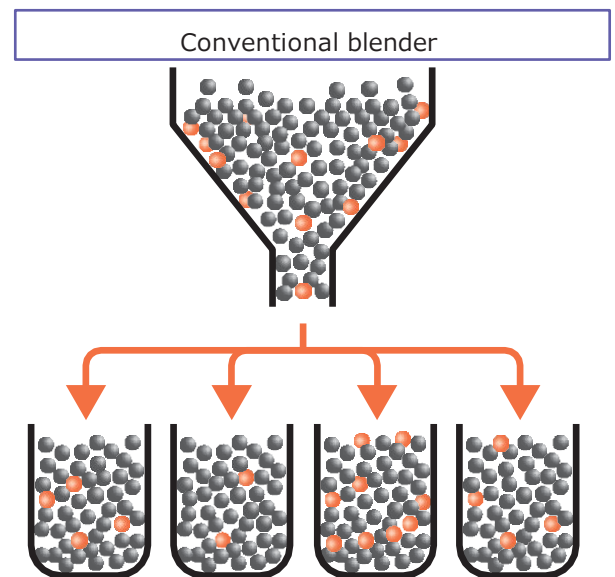
Q About Cost advantage?

A Coloring cost could be reduced to 60~80% of colored pellet.



Q Any irregular color or variability?

A Free from color fading. Direct feeding system performs stable distribution of M/B regardless of static electricity or specific gravity.



Q Is your color change time-consuming?

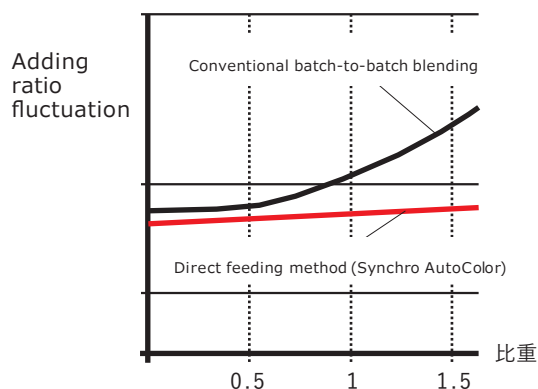
A Touching the color change switch enables the recycling of remaining M/B and air-cleaning automatically. (Expect for the unit for single color use.)

Q About weighing?

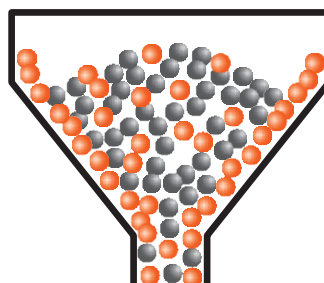
A Loss-in weight method with loadcell. Feedback of actual data adds reliability.

<Dispersion depending on M/B Specific gravity>

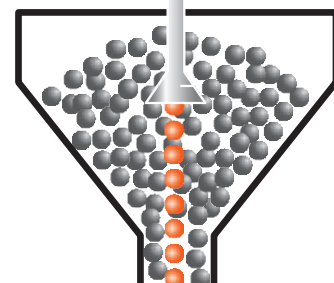
Separation of M/B and virgin material due to static electricity, specific gravity, etc.



Batch-to-batch blending method



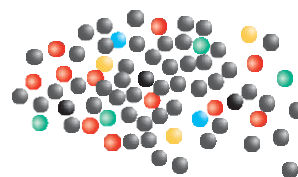
Synchro AutoColor



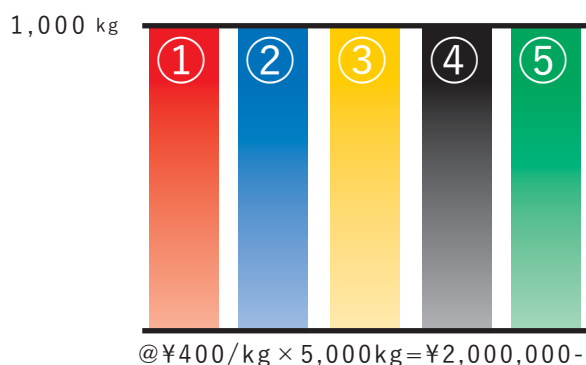
※Since Synchro AutoColor feeds M/B directly to injection molding machine, there is little influence of specific gravity of M/B.

<Example Case>

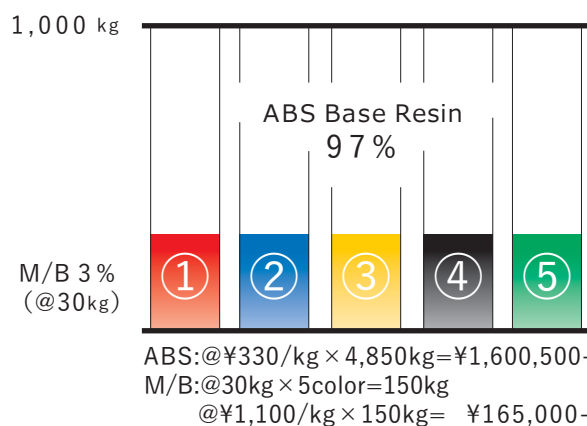
Base Resin	ABS
Color	5colors
Minimum Stock Volume	1,000kg
M/B Blending Ratio	3%
Colored pellet	¥400 / kg
ABS base resin	¥ 330 / kg
High-density M/B	¥ 1,100 / kg



Colored Pellets

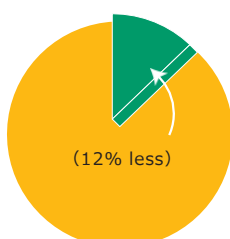


High-density M/B pellet

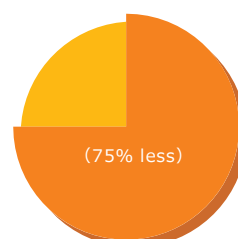
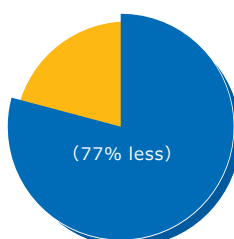


¥1,765,500-
Storing Cost

Material Cost

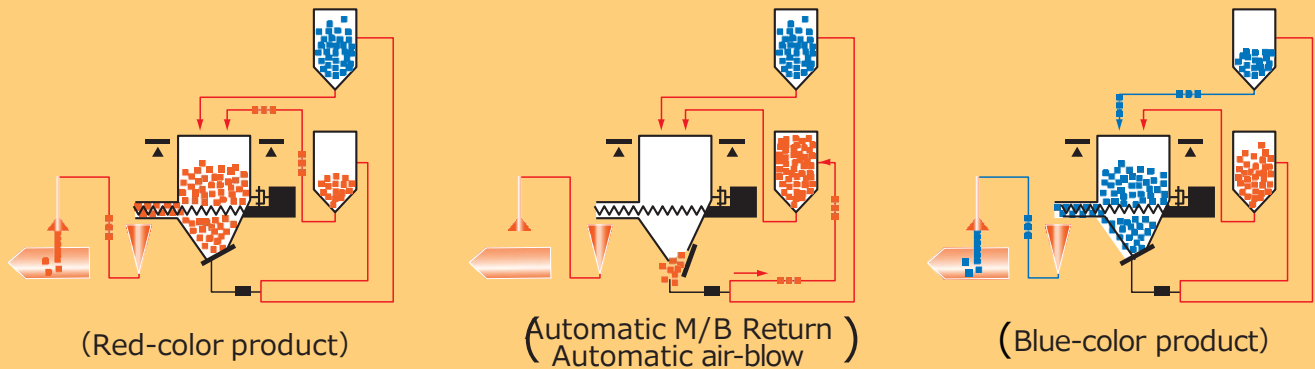


Storing Space



Comparison of color change time

Synchro Auto Color (Example = SAC-4J)



Working time

One Touch

Down time

About 2min

Working time

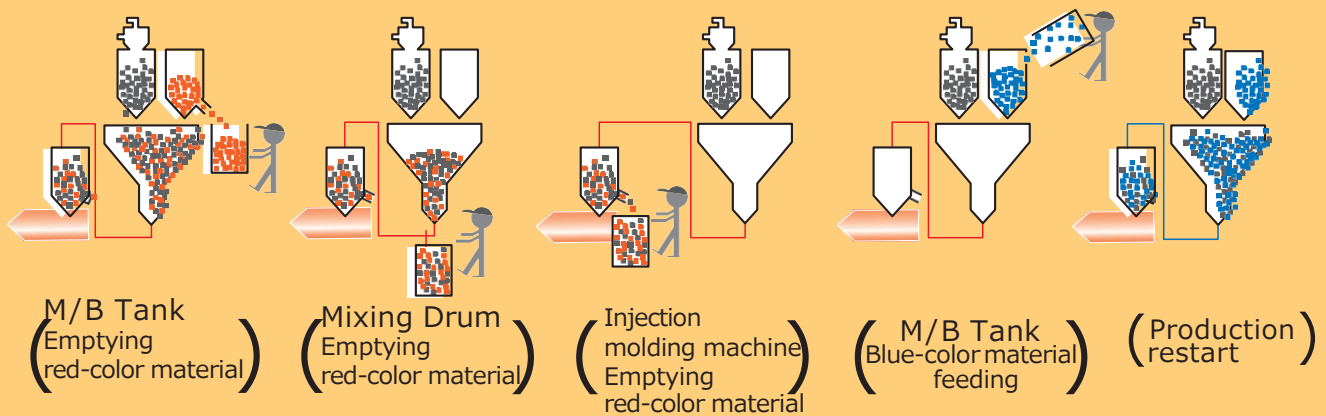
Manual labor

About 40min

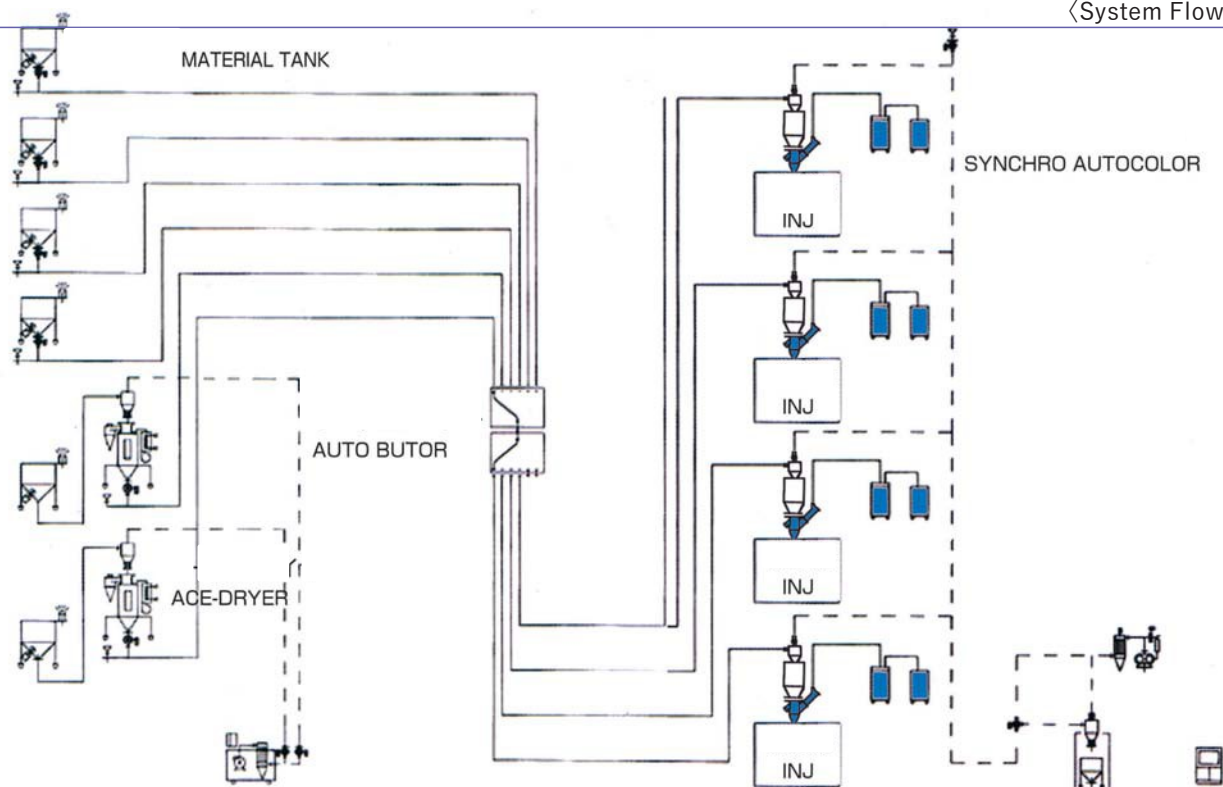
Down time

About 50min

Conventional Blender



〈System Flow〉



〈Main Specifications〉

Type	M/B feeding capacity	M/B tank	Color change	Cleaning	Minimal Set value	Minimal display value	Utilities		Foot print		Weight	
							※ Air Volume	※ Power source	S A C	T a n k	S A C	T a n k
SAC-8J (E)	200~500g / min	25L×8	Automatic	Automatic air-blow	0.1%	0.1 g	Ave 600L/min (ANR) Max1200L /min (ANR)	0.75kVA 20AT	1790 ^W ×800 ^D ×2632 ^H		500kg	15kg×8
SAC-4J (E)		25L×4							1250 ^W ×800 ^D ×2632 ^H		450kg	15kg×4
SAC-1J (E)		100L×1	Semi automatic						670 ^W ×910 ^D ×2211 ^H	515 ^W ×515 ^D ×1002 ^H	250kg	40kg
SAC-MJ-1	10~400g / min	40L×1 (W)	Manual eighting hopper)	Manual			Ave 200L/min (ANR) Max700L/min (ANR)	0.75kVA 15AT	485 ^W ×468 ^D ×1153 ^H	310 ^W ×382 ^D ×833 ^H	60kg	12kg
SAC-ME-1	10~300g / min											

※Air Volume...0.4~0.7MPa

※Power source...AC200/220V 50/60HZ 3 Phase Grounding

※The above values may vary depending on the conditions of use.

Options

- Communication port
- Weighing hopper (Injection hopper with loadcell)
- Regrind feeder

KAWATA U.S.A.,INC.

www.Kawata-usa.com

*These specifications are subject to change without notice.
*Please read the instruction manual carefully before use.

Total System Engineering

KAWATA MFG. CO., LTD.

Japan	HEAD OFFICE (International Division)	Phone:81-6-6531-8211 Fax:81-6-6531-8216 Phone:81-6-6531-2914 Fax:86-6-6531-8216
Sales Office		
China	KAWATA(SHANGHAI)CO., LTD. Shanghai Office	Phone:86-21-6289-8989 Fax:86-21-6279-1266
	Suzhou Office	Phone:86-512-6825-0628 Fax:86-512-6825-0728
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Taiwan/ROC	TAIWAN KAWATA CO., LTD.	Phone:886-3-534-1847 Fax:886-3-534-1848
Thailand	KAWATA(THAILAND)CO., LTD.	Phone:66-2-276-0765 Fax:66-2-276-0721
Vietnam	KAWATA(THAILAND)CO., LTD. (HANOI REPRESENTATIVE OFFICE)	Phone:84-4-2185560 Fax:84-4-7545894
Malaysia	KAWATA MARKETING SDN.BHD.	Phone:60-3-7987-3796 Fax:60-3-7987-3797
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USA	CONAIR KAWATA Sales & Service Co.	Phone:1-814-432-6368 Fax:1-814-432-6267
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Malaysia	KAWATA-ENGINE MFG. SDN.BHD.	Phone:60-6-678-6666 Fax:60-6-678-4992