

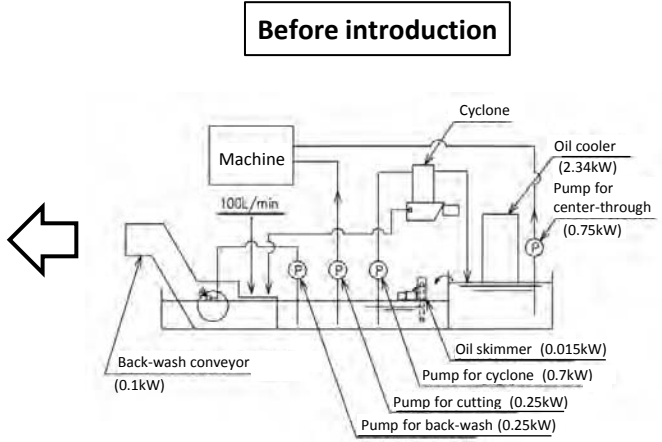
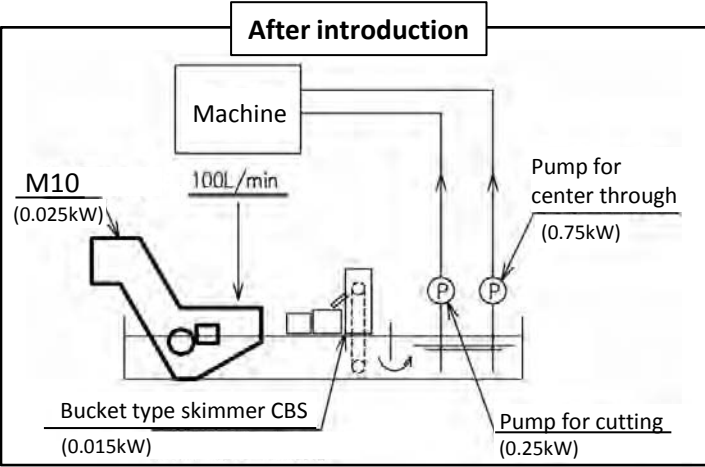
Advantageous effects of introducing “ M10 ”
on environmental & energy conservation.



BUNRI Inc.
2012.12

For Machining center		Per year	Per 10 years
Comparison in running cost	Before introduction	¥609,440	¥6,094,400
	After introduction	¥49,920	¥499,200
Expected amount of money saved		¥559,520	¥5,595,200

Machine classification	Workpiece	Material	Coolant
Machining center	Differential gear box	Cast Iron	Water soluble: 100 L/min



Items	BUNRI's recommended model		Conventional product	
	Super heavy-duty magnetic drum conveyor : M10 Bucket type skimmer : CBS	Expense	Backwash mesh filter conveyor + Oil Skimmer + Cyclone	Expense
R u n n i n g c o s t	Mesh filter	◎ Filterless ◎ Filtering accuracy: 10~20 μm ◎ No mist due to submerged filtration	¥30,000/unit × 3time/year	90,000
	Mesh filter change work		¥5,000/H × 3H/each time × 3 times/year × 2persons	90,000
	Cleaning of overflowing tank		¥5,000/H × 3H/each time × 6times/year	90,000
	Tank cleaning work		¥30,000/each time × 2 times/year	60,000
	Coolant change		¥200/L × 20L/each time × 2times/yaer	8,000
	Waste liquid disposal		¥100/L × 300L/each time × 2times/year	60,000
Power consumption	$0.025+0.015+0.25+0.75$ $=1.04kW$ $1.04kW \times 20H/day \times 20 days/month$ $\times 12month/year = 4,992kW$ $¥10/kW \times 4,992kW$	49,920	$0.1+0.25+0.25+0.7+0.75+2.34+0.015$ $=4.405kW$ $4.405kW \times 20H/day \times 20 days/month$ $\times 12month/year = 21,144kW$ $¥10/kW \times 21,144kW$	211,440
Total annual expense		49,920	609,440	
Expected annual amount of money saved	¥559,520			