

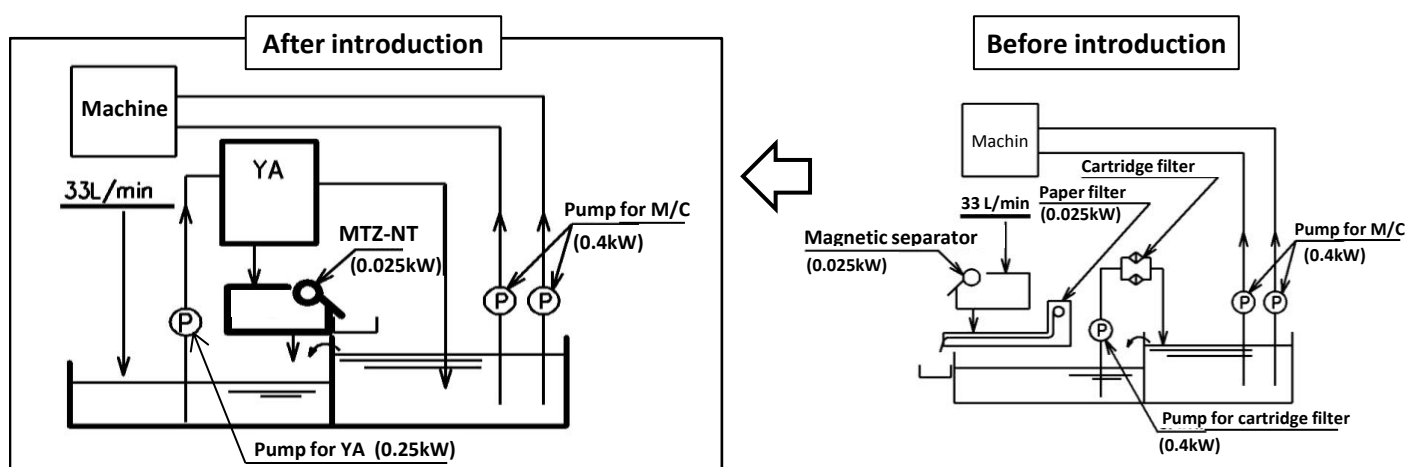
Advantageous effects of introducing "Yamato" on environmental & energy conservation.



BUNRI Inc.
2012.12

For Honing machine		Per year	Per 10 years
Comparison in running cost	Before introduction	¥1,155,000	¥11,550,000
	After introduction	¥51,600	¥516,000
Expected amount of money saved		¥1,103,400	¥11,034,000

Machine classification	Workpiece	Material	Coolant
Horning	Pinion gear	JIS: SCR420H	Oily : 33 L/min



Items	BUNRI's recommended model		Conventional product	
	Ultra precision filtering device "Yamato" : Y A	Expense	Magnetic separator + Paper filter + Cartridge filter	Expense
R u n n i n g c o s t	Paper filter	◎ Filterless ◎ Filtering accuracy: 1~10 μm ◎ No mist due to submerged filtration	¥12,000/unit × 1unit/each time × 3times/month × 12month	432,000
	Filter change work		¥2,000/H × 0.5H × 3times/month × 12month	36,000
	Cartridge filter		¥3,000/unit × 1unit/each time × 3times/month × 12month	108,000
	Cartridge filter change work		¥5,000/H × 1H × 3times/month × 12month	180,000
	Tank cleaning		¥4,000/H × 3H × 1person × 2times/year	24,000
	Coolant change		¥250/L × 300L/each time × 3times/year	225,000
	Waste liquid disposal		¥100円/L × 300L/each time × 3times/year	90,000
Power consumption	$0.4+0.4+0.25+0.025=1.075kW$ $1.075kW \times 20H/day \times 20days/month$ $\times 12month/year = 5,160kW$ $¥10/kW \times 5,160kW$	51,600	$0.025+0.025+0.4+0.4+0.4=1.25kW$ $1.25kW \times 20H/day \times 20days/month$ $\times 12month/year = 6,000kW$ $¥10/kW \times 6,000kW$	60,000
Total annual expense	51,600		1,155,000	
Expected annual amount of money saved	¥1,103,400			