



SyncroSpeed
energy saving system

the single, most effective investment in energy-saving
technology that an injection moulder can make

energy saving assessment

Efficient Moulding Company

Global Operation

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energy saving assessment : summary, 7 machines

SyncroSpeed motor speed control systems



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average energy cost	0.085 GBP/kWh	
operating hours	24 hrs per day	
operating days	5.5 days per week	
operating weeks	50 weeks per year	
utilization	90%	
number of selected machines	7	78% of all the listed machines
total motor power saving	191.8 kW	
annual energy savings	1,262,593 kWh	
annual energy savings	107,320 GBP	97% of the total savings opportunity
SyncroSpeed systems before 3rd party incentives	170,970 GBP	
SyncroSpeed systems after 3rd party incentives	170,970 GBP	91% of the plant wide project cost

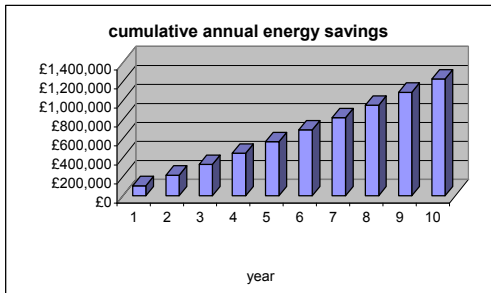
An assessment is made of the energy savings to be achieved with the SyncroSpeed retrofit motor speed control system.

This summary also includes projections of the cumulative savings over ten years, a model of the energy costs escalation over the same period, and a comparison of equivalent sales the business would have to generate for a similar impact on business bottom line profit.

The "pay yourself to save" projections illustrate a generous cash accumulation within the first year that can be achieved with our simple finance plan.

ROI after anticipated incentive 1.6 years

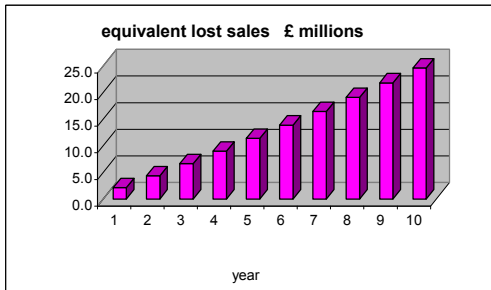
ROI before anticipated incentive 1.6 years



GBP 1,230,000
this the additional bottom line profit over the next 10 years representing the reduction in operating costs of the 7 selected machines

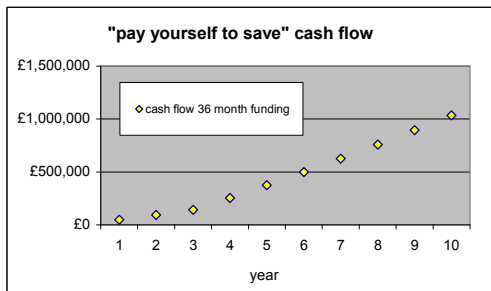
based on the profiled escalation of energy costs

year	energy cost escalation % per year	cumulative benefits		forecast net profit
		energy savings GBP	additional sales GBP million	
1	0.0%	107,320	2.146	5%
2	3.0%	217,860	4.357	5%
3	3.0%	331,717	6.634	5%
4	3.0%	448,989	8.980	5%
5	3.0%	569,779	11.396	5%
6	3.0%	694,192	13.884	5%
7	3.0%	822,339	16.447	5%
8	3.0%	954,329	19.087	5%
9	3.0%	1,090,279	21.806	5%
10	3.0%	1,230,308	24.606	5%



GBP 24.6 millions
this the additional sales over the next 10 years that will be necessary to pay for the wasted energy of the 7 selected machines

based on the profiled net profit



achieve positive cash flow from the start with a funded project. With a 36 month finance plan the accumulated cash within 12 months will be GBP 47,000 growing to GBP 141,000 after 3 years

energy saving assessment : 7 machines

SyncroSpeed motor speed control systems



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GBP currency
1.00 exchange rate

utilization 90%
hours 24
days 5.5
weeks 50 0.085000

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Line Nbr	model	OEM	year	tonnage	motor supply voltage	uses accumulators?	variable volume pumps?	M1	M2	M3	energy savings %	annual operating hours	forecast energy cost GBP/kWh	annual total energy savings kWh	annual total energy savings GBP	total supply cost GBP	ROI years	estimate savings over 5 years GBP	auto select	motor power reduction kW
C7	KM3200-55000	Krauss Maffei	1991	3200	460	no	vdp				39.0%	5940	0.085000	332,486	28,261	56,010	1.98	150,043	1	49.1
US2	VL1000W-232	incinnati Milacrc	1999	1000	480	no	combo1				29.0%	5940	0.085000	115,242	9,796	20,190	2.06	52,006	1	17.5
US3	ML3500-415	incinnati Milacrc	1994	3500	480	no	combo1				34.0%	5940	0.085000	307,930	26,174	31,110	1.19	138,962	1	47.6
UK1	D500-2800 NCIII	Demag	1997	500	415	no	fdp				29.0%	5940	0.085000	59,943	5,095	8,175	1.60	27,051	1	9.1
MX1	ES11050/1000 WP	Engel	2001	1000	460	no	fdp				45.0%	5940	0.085000	268,748	22,844	24,420	1.07	121,280	1	41.6
EU1	ES 1350/250 HL	Engel	2003	250	400	no	combo2				25.2%	5940	0.085000	34,365	2,921	8,175	2.80	15,508	1	5.0
EU2	ES 650/125 HL	Engel	2000	125	400	no	combo2				25.2%	5940	0.085000	23,118	1,965	8,175	4.16	10,433		
UK2	Mega T 1100-9208	Sandretto	1998	1100	415	no	fdp				40.0%	5940	0.085000	143,879	12,230	22,890	1.87	64,929	1	21.8
EU3	Victory 330/120	Engel	2004	120	400	no	vdp				22.5%	5940	0.085000	10,933	929	8,175	8.80	4,934		
selected machines													1,262,593	107,320	170,970	1.59	569,779	7	191.8	
													kWh	GBP	GBP	years	GBP	kW		
plant wide, big picture opportunity													1,296,644	110,215	187,320	1.70	585,145	9	196.7	