

Available in 2, 4 and 6 lines.

## MOZART H3

Horizontal single line wire enamelling machine

●●	MOZART H3/2-2/24 D
●●●●	MOZART H3/4-4/24 D
●●●●●●	MOZART H3/6-6/24 D
□□	MOZART H3/1-2/48 D
●●□□	MOZART H3/2-4/48 D
●●●□□	MOZART H3/3-6/48 D

● Number of lines    □ Number of ovens    D = dies

**DIMENSION RANGE**  
**0.15–0.35 mm / awg 34.5–27**

**Efficient wire production at the push of a button.**

### TECHNICAL DATA

#### PRODUCTION DATA

Speed range	0–1,400 m/min.
Sizes of finished wire reels	max. 400 mm
Max. inlet diameter	1.12 mm

#### RATED POWER

Total rated power	for 2 lines* 173 kW (thermal and motive)
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#### MECHANICAL

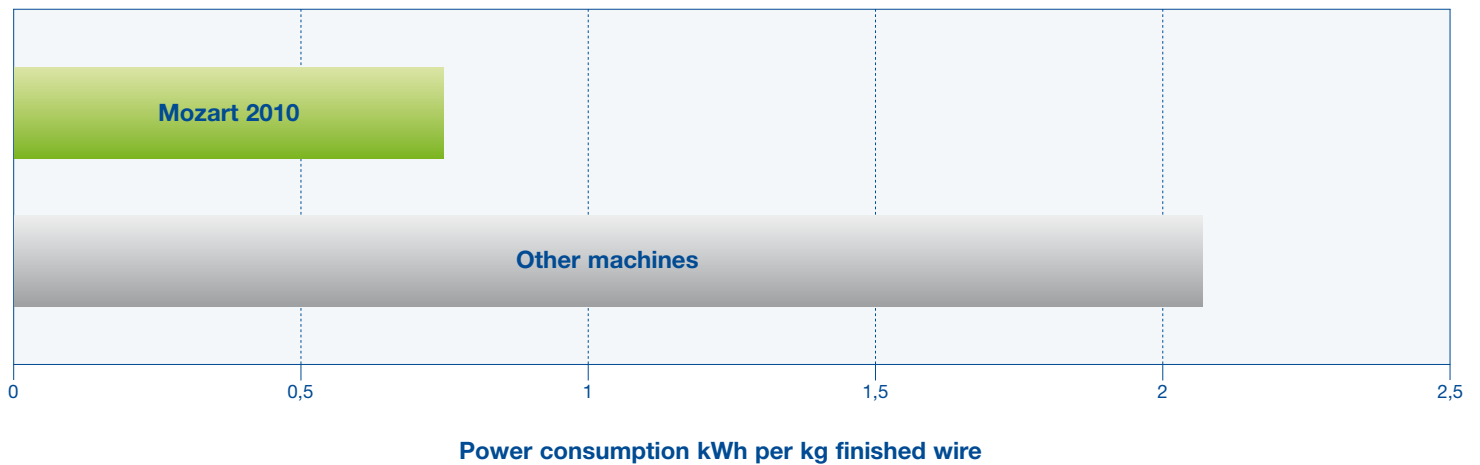
Max. number of enamel passes	max. 24 (up to 3 enamels) 48 selfbond
Oven-length	7.6 m
Annealer-length	9 + 6.4 m
Machine width (2 lines)	1.7 m
Machine length (excl. spooler, pay-off, drawing mc)	19 m

\* not valid for SB-machines

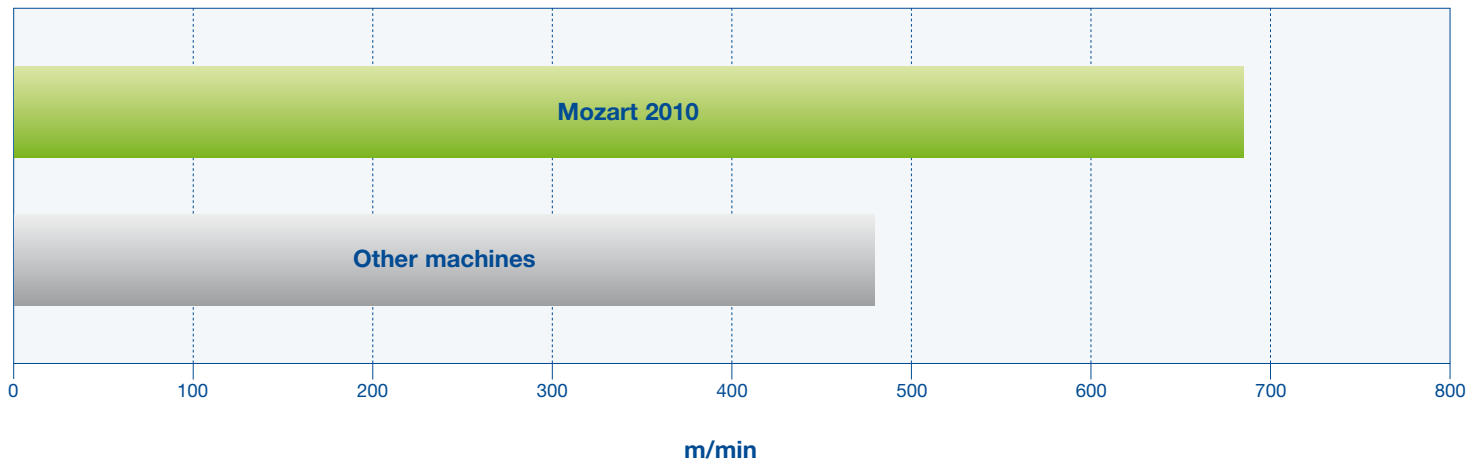
INNOVATIONS BY MAG

# HOW TO MAKE MONEY WITH MAG MACHINES

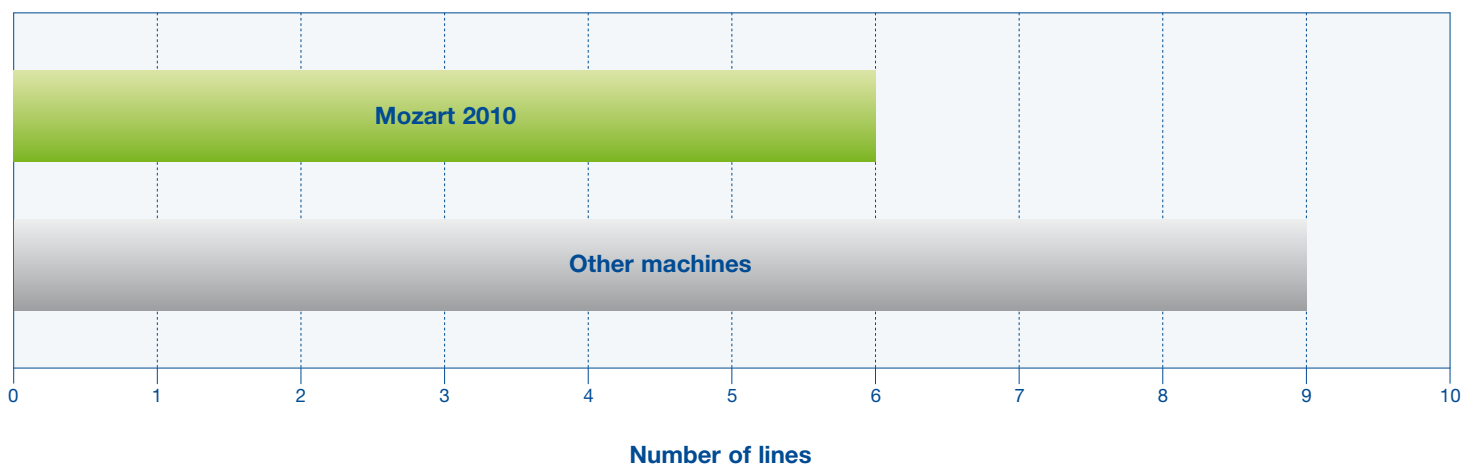
## ENERGY CONSUMPTION



## PRODUCTION SPEED



## NUMBER OF LINES FOR THE SAME OUTPUT



## RESULT

The investment and the operation costs for 6 lines Mozart are in any case lower than the investment and operation costs for 9 lines from other machines.



# TURN COPPER INTO GOLD

## MAG'S NEW PROFIT PLANT

It would be a physical sensation if copper could be turned into gold. This step – as yet unthinkable in laboratories – can now be achieved in a different way thanks to MAG enamelling machines. These impressive developments in the production process are summarised in the following formula of success: less energy input results in higher production speeds and output.

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Reports about the research results and developments of MAG on the one hand and the global increase in the demand for enamelled wire on the other, would suggest that it was high time to open another account to store away the profit reaped. Energy consumption of the machines has been improved, which makes sense in both ecological and economic terms. A Mozart machine of the newest generation consumes only one third of the energy needed by other machines to produce one kilo of enamelled wire. At the same time, production speed is nearly fifty percent higher.

A top machine of this kind of course comes at a price and when compared to the single-line machines of our competitors, the price may at first seem high, but a second glance reveals that MAG machines are much more efficient, with only 2/3 of the usual number of machines needed to achieve the same output as other machines.

## MOBILITY, THE MEGATREND

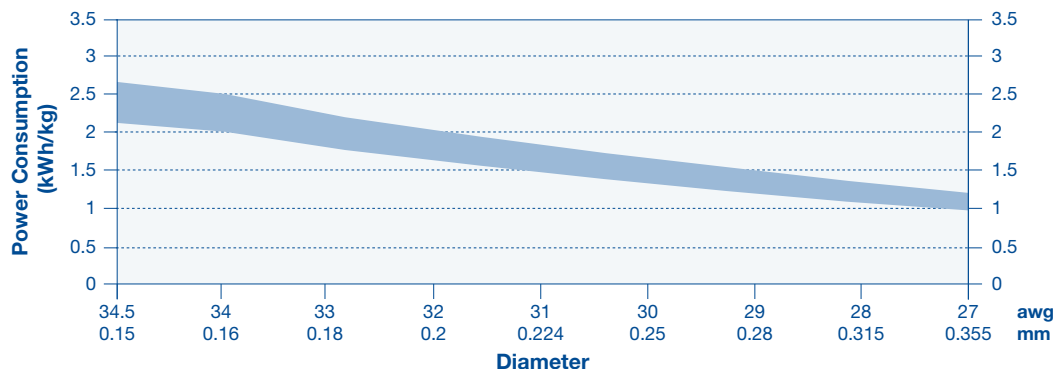
The trend towards mobility is unstoppable. The automotive industry is currently investing large sums of research money in the development of hybrid and electric cars. With the number of such vehicles growing, the demands on the power stations and electricity infrastructure are also set to increase substantially. A demand which will be increasingly covered by sustainable power generation.

The petrol of the future is not buried deep underground but will reach Earth in the form of sunrays. Solar power is increasingly being used to generate energy with ever more power stations being built and the demand for enamelled wire growing. The convenience and safety of the modern car is being continually improved. Who wants a car without central locking, CD player, electric sunroof, power steering, air conditioning or other conveniences? These requirements mean an increasing number of auxiliary motors in your typical passenger car – irrespective of the form of drive – and subsequently the demand for enamelled wire is also increasing.

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## POWER CONSUMPTION\*



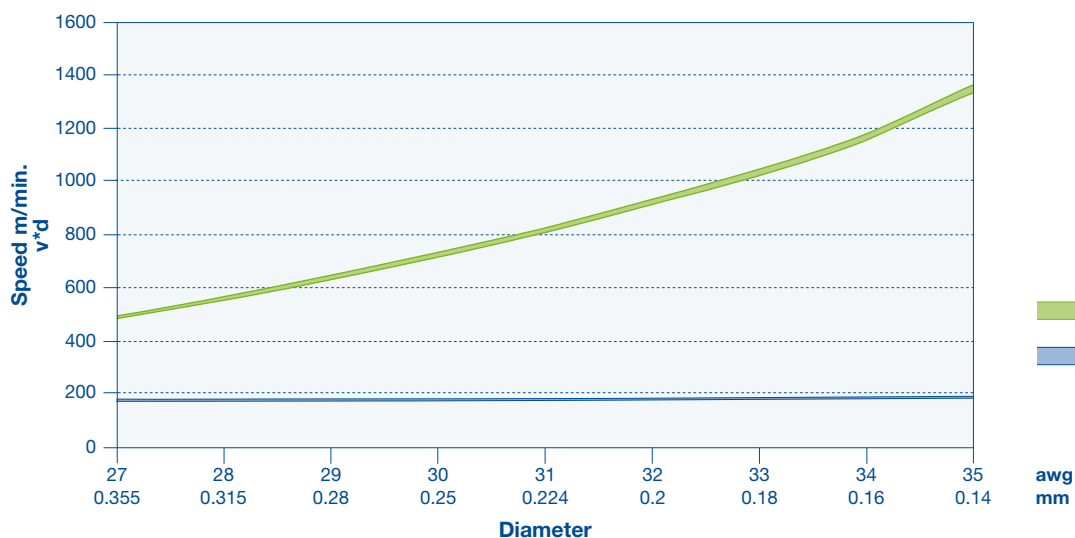
\* values valid for:  
 PEI G1, 32% SC, 26°C ambient temperature,  
 depending on number of enamel tanks, wire inlet  
 diameter, drawing die sequence, enamelling die  
 sequence and number of lines.  
 Performance (VD) of the machine according MAG  
 Machine-Performance table as well as based on the  
 Tangent Delta Value of the enamel supplier of the  
 used standard enamel.

The information given is correct to the best of our  
 knowledge. It is offered in good faith but without  
 guarantee in the legal sense.

## OUTPUT-TABLE

		2 lines		4 lines		6 lines	
(diameter)	(diameter)	(kg/24h)	(kg/24h)	(kg/24h)	(kg/24h)	(kg/24h)	(kg/24h)
mm	awg	PU	PEI	PU	PEI	PU	PEI
0.15	34.5	570	560	1,130	1,120	1,700	1,670
0.16	34	600	590	1,200	1,180	1,800	1,780
0.18	33	670	660	1,350	1,320	2,020	1,990
0.2	32	740	730	1,490	1,460	2,230	2,200
0.224	31	830	810	1,660	1,620	2,490	2,430
0.25	30	920	900	1,830	1,790	2,750	2,690
0.28	29	1,010	990	2,030	1,980	3,040	2,970
0.315	28	1,120	1,100	2,240	2,210	3,360	3,310
0.355	27	1,250	1,230	2,500	2,460	3,750	3,680

## PERFORMANCE DATA\*



\* values for Grade 2 application are approx. 5% lower  
 \* values for AI Overcoat are approx. 5% lower than PEI  
 \* values for NY Overcoat are approx. 5% lower than PU  
 \* depend on suitable production materials and conditions  
 \* final production quality apply to IEC/NEMA Standard

All data herein are subject to modifications without prior notice due to technical progress. Version 04/10

## CONTACT

### MAG Maschinen- und Apparatebau AG

Wirtschaftspark 44, A-8530 Deutschlandsberg  
 Phone +43-3462-2545, Fax +43-3462-2545-125  
 E-mail: mag@mag.at, www.mag.at