

## The new technology for building investment casting shells



### **CYCLONE** – advantages at a glance

#### *The system is ideal for:*

- Industrial investment casting
- RP/RT services
- Medical technology
- Motor racing
- Whenever a perfect investment cast is needed in the shortest possible time

- Extremely fast – shells produced in less than four hours
- Easily copes with large patterns
- High quality shells produce excellent castings
- Mold is 50% stronger minimising the risk of cracked shell and reducing the number of layers
- Dewaxing can be performed in standard ovens without postcuring
- The system works well for processing all metals

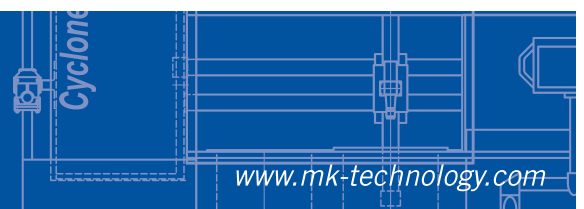
#### *Options*

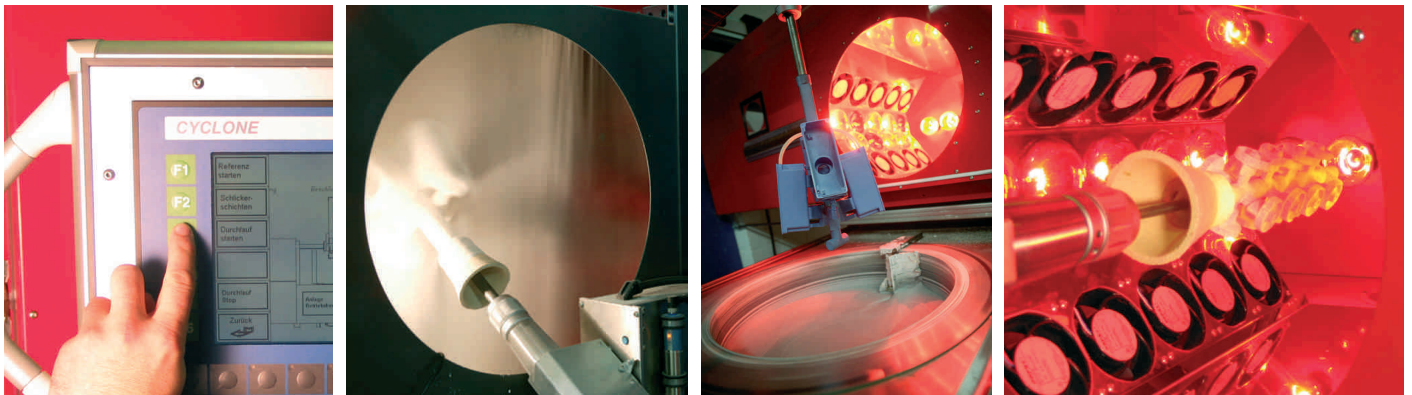
- Second rainfall sander
- Integrated dust ventilation



### **MK Technology® GmbH**

Robert-Koch-Straße 11 · D-53501 Grafschaft · Germany  
Tel: +49 – 2225 – 8887 – 0 · Fax: +49 – 2225 – 8887 – 10  
E-Mail: [info@mk-technology.com](mailto:info@mk-technology.com)



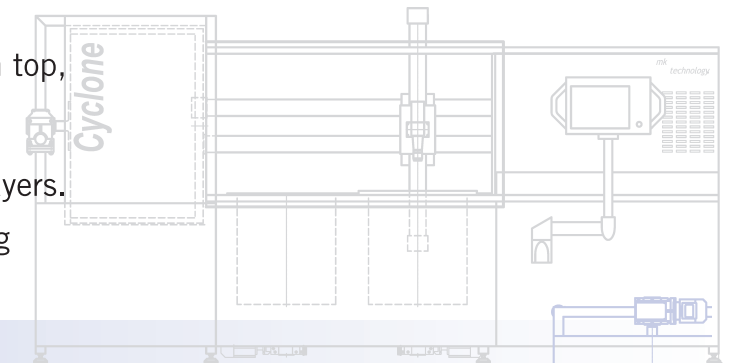


### How the new technology works

The Cyclone is a complete shell building factory requiring very little space. It consists of the rotating slurry tanks, a rainfall sander and the high-speed drying chamber. A linear robot moves the tree from one station to the other and a shell with 7 layers can be produced within 3,5 hours without additional observation.

If the optional second rainfall sander is added on top, 2 sands can be applied corresponding to the two different slurries, a fine-grained sand for the first layers and a coarse-grained for the subsequent layers.

Cyclone: the optimal solution for the fast building of shells for prototyping.



#### mk technology® CYCLONE

Composed of:

- Drying chamber
- 2 Slurry tanks
- Rainfall sander
- Linear drive – 4 axes
- Keyboard with display
- Box with electronic control
- 3 x automatic door mechanism
- Steelframe and housing
- Integrated dust ventilation

Dimensions	US		SI	
Width:	(ft)	14	(mm)	4,250
Depth:	(ft)	5.4	(mm)	1,650
Height:	(ft)	7.5/12.5	(mm)	2,300/3,750
Weight:	(lbs)	4410/5510	(kg)	2,000/2,500
Voltage:	(V/Hz)	480 / 60	(V/Hz)	400 / 50
Power / Fuse:	(kW/A)	15 / 32	(kW/A)	15 / 32
max. Shell size:	(in)	19.6Ø x 19.6	(mm)	500 Ø x 500
max. Shell weight (incl. Slurry):	(lbs)	33	(kg)	15
Slurry tank volume (each):	(US gal.)	45	(ltr)	170
Max. sand capacity:	(lbs)	77	(kg)	35

#### MK Technology® GmbH

Robert-Koch-Straße 11 · D-53501 Grafenschaft · Germany  
 Tel: +49 – 2225 – 8887 – 0 · Fax: +49 – 2225 – 8887 – 10  
 E-Mail: info@mk-technology.com

