

diamorph
hob certec

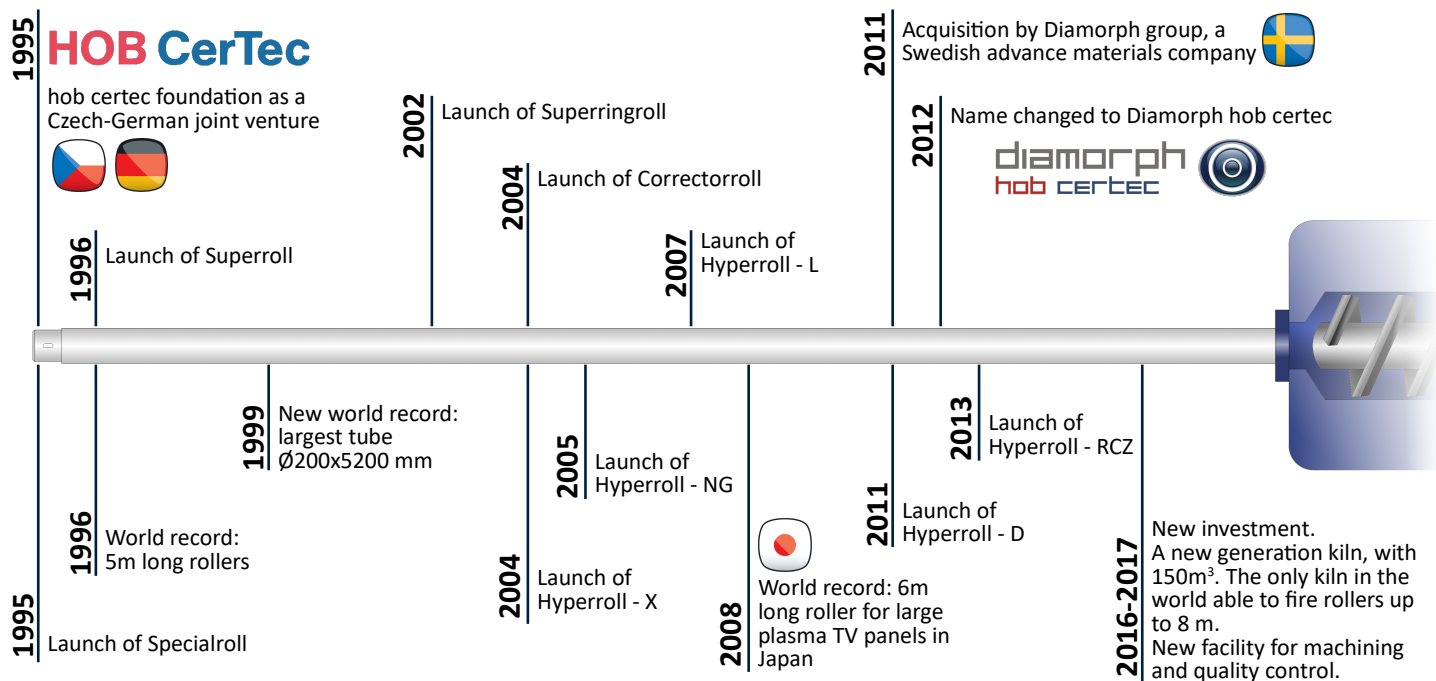


The leader in kiln roller innovation

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diamorph hob certec is a Czech technical ceramic manufacturing company



The outstanding advantages of hob certec rollers

The high-temperature stability of hob certec rollers has decisive advantages compared to normal rollers:

- Unique roller materials and designs developed to cope with the highest variety of working conditions
- Safer kiln operation even with very large kiln cross-sections
- Lifetime of hob certec rollers far exceeds that of competitors products
- Higher ware load for optimum charge density
- Higher firing temperatures
- Higher output of plain, large-surface tiles
- Less kiln faults due to straight throughput of ware
- Laser technology is used to check 100% of production. A quality seal is printed onto all rollers.
- Precision grinding (▽▽▽) of roller end pieces for perfect fit into driving adapter
- ISO 9001 certified



Worldwide, hob certec is the only manufacturer who can offer a complete range of roller materials and designs for the best solutions in the tile industry

SPECIALROLL - for preheating and cooling zone and for lighter wall and floor tiles in firing zone.

SUPERROLL - for firing zone of heavy wall and floor tiles especially granite tiles.

HYPERROLL-L - first roller of the Hyperroll family. Represents a compromise between price and technical characteristics.

HYPERROLL-NG - unique roller in the market which stands out thanks to its high thermal shock resistance. This roller has been designed to withstand the thermal shock when pulling out at maximum working temperature and thanks to its hard surface, it is possible to clean it more times than other rollers in the market.

HYPERROLL-X - the strongest technical roller developed to withstand the heaviest loads in the main firing zone, especially in the case of long and heavy rollers.

HYPERROLL-D - the introduction of this roller has created a revolution within the ceramic rollers market. It is the only ceramic roller with zero porosity and due to this, it has the highest module of elasticity (which means that the roller will bend less than any other ceramic roller) and an extremely high resistance against chemical attack.

	SPECIALROLL	SUPERROLL	HYPERROLL - L	HYPERROLL - NG	HYPERROLL - X	HYPERROLL - D
Color identification on thicker end	Black	Blue	Orange	Yellow	Pink	Green
Al ₂ O ₃ (%)	73-75	74-75	75-77	76-78	79-81	*hob certec protected
Water absorption (%)	10.0	9.0	8.0	6.5	6.0	0
Density (g/dm ³)	2.35	2.5	2.6	2.7	2.8	2.6
Modulus of elasticity (GPa)	70	75	80	98	110	120
Thermal expansion (10 ⁻⁶ /°C)	5.5	5.8	5.9	5.8	5.6	6.2
Thermal shock resistance	★★	★★★	★★★★	★★★★★	★★★★	★
Chemical resistance	★★	★★★	★★★	★★★	★★★★	★★★★★
Max. appliance temperature (°C)	1240	1260	1290	1300	1350	1100

*All data are given to the best of our knowledge and do not constitute a guarantee or obligation. The stated material property values have been measured on sample bodies and are thus indicative values. In no way do they release the user from the responsibility of testing our products for their suitability for specific application. Subject to technical change.

hob certec produces other references which can be offered after specific consultation with our sales department

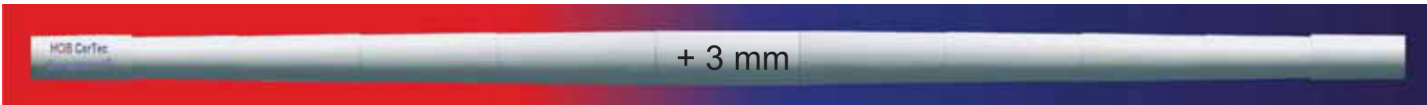
HYPERROLL-RCZ - the best compromise between price and performance for the rapid cooling zone. Hyperroll-RCZ reduces the roller deformation in this area thanks to a high thermal conductivity which improves the heat transfer inside the roller and reduces the temperature gradient.

Color identification on thicker end	Water absorption (%)	Density (g/dm³)	Modulus of elasticity (GPa)	Thermal conductivity (W/m.K)	Thermal shock resistance	Chemical resistance	Max. Tª (°C)
Violet	0.1	2.65	120	4.5	★★★★	★★★★★	1200

SUPERRINGROLL - the best solution against the roller deformation in the cooling zone due to a reduced contact surface. Superringroll improves the tiles quality thanks to a more uniform cooling. The unique roller design allows the air flow under the tiles, which improves their cooling curve. This reduces the resulting stresses within the tiles.




CORRECTORROLL - A both side conical roller with 3 mm thicker or thinner diameter in the center. It brings arc-line running tiles in correct alignment before the firing zone which improves the tile quality by increased plane surface area and reduced levels of deformed edges.



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