

# penta, quattro, gemini, expert and matrix Reversible double cylinders

## Key Figures

Lifetime per unit: 15 years

Weight per unit: 0.27 kg

Production location: Eggenburg, Austria

## Production standards

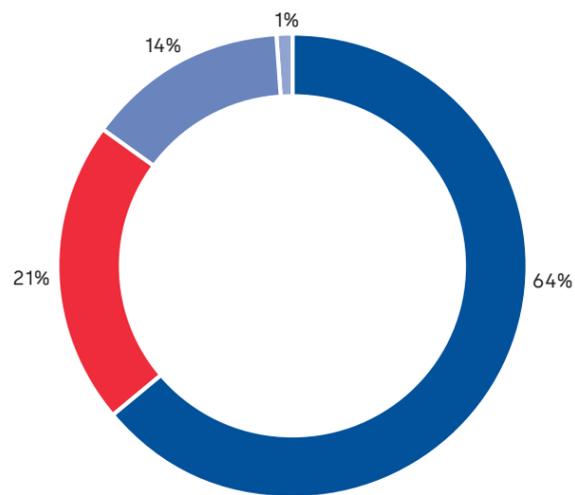
Quality	Environmental	Occupational Health & Safety	Energy	Produced with green electricity
ISO 9001 certified	ISO 14001 certified	ISO 45001 certified		✓

## Product declarations

Environmental Product Declaration	Health Product Declaration	Building Product Declaration	SuPIM Data Sheet
✓			

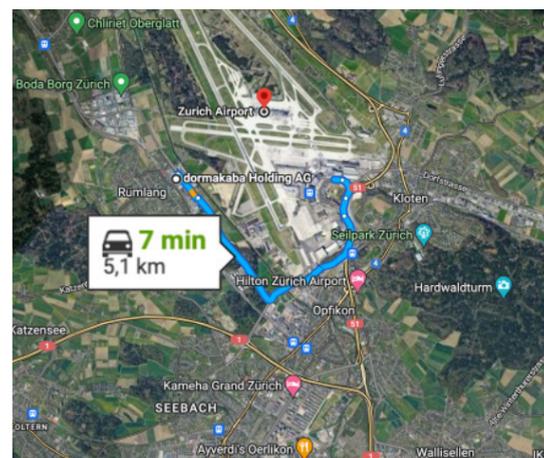
## Material used (%)

■ Brass ■ Steel ■ Nickel silver ■ Plastic



## The GWP<sup>1</sup> across the life cycle is 0.45 kg CO<sub>2</sub>e

This is similar to the CO<sub>2</sub> produced from a road trip with a diesel mid-range car from Rümlang to Zürich airport



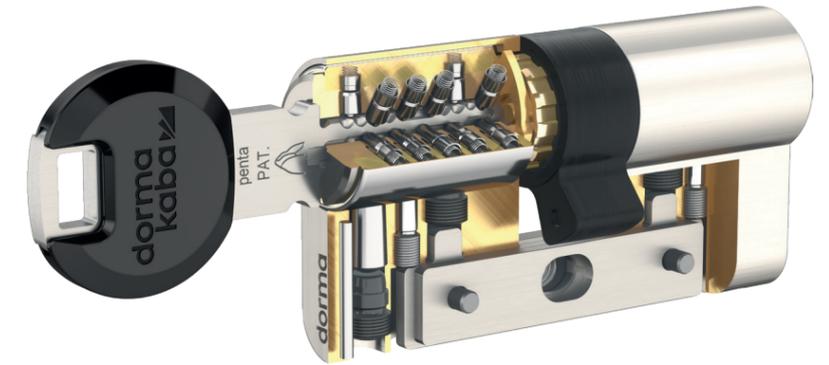
<sup>1</sup> Carbon dioxide equivalent (CO<sub>2</sub>e) is the universal unit of measurement to indicate the global warming potential (GWP) of each of the six greenhouse gases, expressed in terms of the GWP of one unit of carbon dioxide. It is used to evaluate releasing (or avoiding releasing) different greenhouse gases against a common basis.



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## Description

penta cross (K90), penta (K84), quattro plus (K85), gemini plus (K87), expert cross (K89), expert plus (K83) and matrix plus (K86) are patented, reversible master key systems representing the premium segment. The patent offers legal protection against commercial imitation. Duplicate keys are only made by dormakaba itself or by authorized partners and require identification by means of a security card.

## Total Global Warming Potential per life cycle stage (kg CO<sub>2</sub>e)

