**Project:**

**Master key system tender documents**

**Manufacturer IKON System RW6**

# Preliminary Remarks

1. The proposal comprises delivery of a master key system, delivered on site, with / without fitting of locking cylinders in all types of doors according to construction management instructions or as per the lock plan.
2. The master key system manufacturer must be certified in accordance with DIN EN ISO 9001. It must provide proof that it uses an environmental management system as per DIN EN ISO 14001.
3. The lock plan is to be produced under own responsibility in cooperation with the architect and developer. Two copies are to be submitted for checking and approval.
4. Locking cylinder lengths or types are to be defined in accordance with the door details, while taking into account the selected escutcheons.
5. The bidder shall familiarise the operator's technical staff with the master key system's structure. Furthermore, they shall explain the process of ordering the replacement locking cylinder or replacement key.
6. All keys, lock plans and security cards are to be handed over to the construction management in exchange for a receipt.
7. Software for IT-supported management of the master key system based on the current Windows operating system for the new master key system and every master key system supplement must be available.
8. All lock plan documents are to be created by computer and archived by the manufacturer. This also applies to all processes in the time of use of the master key system. The documentation is to be carried out in such a way that the respective owner of the master key system can call up current data files from the system after presenting an authorisation document.
9. All documentation is to be stored by the manufacturer as per the actuarial specifications and not be accessible to third parties. The respectively valid data protection is to be ensured.
10. The features offered in the specifications regarding quality, constructive set up and materials are urgently required.
11. Alternative offers can be submitted with the main offer and are to be identified as such. The bidder is obliged to demonstrate that the alternative proposal is equally valid in such cases.
12. Alternative offers are only permitted if they are at least the same or better in terms of quality, constructive set up and material compatibility.

# Functional set up and technical requirements

1. Performance and quality in compliance with DIN EN 1303 / 2015 or DIN 18 252 / 2006 as a minimum.
2. Optionally, all profile cylinders can be manufactured with increased drilling protection on either one or both sides. Additional pins made from carbide are added per cylinder side for this.
3. Both locking cylinder cores of profile double cylinders must be connected to one another in a way that they can be axially turned.
4. The cylinder core must have a spherical shape, into which the full key shaft engages, in order to achieve an interlocking connection between the key and locking cylinder during the locking process.
5. Locking cylinders and keys must be identified by the manufacturer in such a way that a third party cannot assign the locking function or the master key system.
6. Higher level keys with the stamps -grand master key-, -master key-, -group key- or abbreviations such as -GHS-, -HS-, -GS- or a grip shape deviating from the individual keys are not permitted for security reasons.
7. It must be ensured that the key profiles used for the grand master key or master key systems are not used as part of central master key systems or individual locks.
8. Additional and replacement deliveries of at least 20 years is to be ensured for the profile cylinders.
9. An 8-fold changeover of the cam in profile half-cylinders must be possible.
10. The profile cylinders can be used for mortise locks locking on both the right and left.
11. Profile double cylinders must ensure the following combination:  
    Standard coupling (GE=0)  
    If the key is inserted and turned the cylinder can no longer be locked from the other side.  
      
    Danger coupling (GE=BS)  
    If the key is inserted and turned the cylinder can be locked from the other side at any time.
12. In order to guarantee a functional and intrusion-resistant mounting of the profile cylinders, the extensions of the cylinder take place symmetrically and asymmetrically in 5 mm steps.
13. The keys are made from nickel silver.
14. Keys can optionally be identified with up to 6-figure alphanumeric special numbering (SBS=). Cylinders can be identified sideways with up to 12-figure and frontally with up to 6-figure alphanumeric special numbering (SBZ=). This allows additional identification by the user, particularly in large master key systems.

# SAM software for master key system management

* Software for IT-supported management of the master key system based on the current Windows operating system
* Interface to the initial and subsequent import of data saved at the manufacturer of the master key system
* Provision of data via data transfer
* Optional password protection for the avoidance of unauthorised access
* Availability of forms for key issuing and return incl. free text formatting
* Management of the keys by status (e.g. "issued", "lost")
* Management of the locking cylinders by status (e.g. "mounted", "defective")
* Display of access authorisations in terms of individual keys or persons
* Display of stocks of keys and locking cylinders
* Print out of complete and filtered lists
* Export of all list views in applications for table and text processing
* File-based equivalent storage without necessity of a server or advanced administrative skills
* Automatic linking of doors and cylinders as per lock plan

# Traka21 electronic key management system

An electronic key management system with/without mounting can be ordered for the master key system with the following functions and technical requirements:

* The stand-alone plug & play solution with Traka21 RFID technology ensures the safe issuing and return of up to 21 keys or sets of keys.
* With Traka21 up to 1,000 people can be managed.
* Access to one or more keys or sets of keys takes place via PIN codes.
* The simple selective configuration of people, access to keys and administrative rights takes place via a multi-lingual touchscreen with the help of a set up assistant.^^
* Event logs and reports can also be created via touchscreen or USB.
* Up to 250,000 events can be stored.
* No network or PC connection is required.
* The keys or sets of keys are secured via robust, long-lasting iFobs.
* The display and storage of the keys takes place via 21 LED key slots.
* Operation takes place with mains adapter and additionally with an optional emergency power battery.
* In emergencies, a manual door release can take place with the help of a key.
* An acoustic alarm sounds if tampered with.

# IKON System RW6 system description The design concept

Reversible keying system with drilled recess coding

6 active spring-borne + 5 passive tumblers working on 2 levels as per DIN EN 1303:205 or DIN 18252

Stable nickel silver key with ergonomic full metal head

Key with complex profile structure and differentiated query on several levels

Narrow keyway with complex feature arrangement against the introduction of picking tools

Protected patented system with security card

# System type

O Grand master key system

O Master key system

O Combined master key/central master key system

O Central master key system with technical master key

O Central master key system

# IKON System RW6 stock keeping units

1. **IKON H531 profile double cylinder**

- lockable on both cylinder sides -  
Basic length L=30/30 mm  
  
Brass, satin nickel-plated.  
On both sides per 11 tumblers.  
Spherical cylinder cores with reinforced key guide.  
Cam position: 30°.  
M5 cylinder fixing screw.  
3 reversible keys each made from nickel silver

Order code: IKON H531, System RW6

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **IKON H532 profile half-cylinder**

Basic length L=30 mm

Brass, satin nickel-plated.

Cam position reversible by 8x45°.

Version otherwise same as IKON H531 profile double cylinder

3 reversible keys each made from nickel silver

Order code: IKON H532, System RW6

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **IKON H534 KNF=95MV profile knob cylinder**

Basic cylinder length L=30/30 mm

Diamond knob with 35mm diameter

Locking cylinder and brass knob,

knob colour satin nickel-plated

Version otherwise same as IKON H531 profile double cylinder,  
3 reversible keys each made from nickel silver

Order code: IKON H534, KNF=95MV, System RW6

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **IKON 1538 dummy cylinder**

Material: satin nickel-plated

Length 47-120 mm adjustable

No locking function, both sides dummy.

Order code: IKON 1538, ABM=47-120

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **IKON 1539 dummy cylinder for fire doors**

Material: satin nickel-plated

Length 52-94 mm adjustable

Length 96-165 mm adjustable

No locking function, both sides dummy.

Order code: IKON 1539, ABM=52-94

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

Order code: IKON 1539, ABM=96-165

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **IKON additional charge for standard extensions of cylinders**

up to an overall cylinder length of 110 mm

(one-sided up to 80 mm in 5 mm increments).

Calculation based on each 10 mm started per side

from the basic length of 61 mm (L=30/30).

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **IKON additional charge for special extensions of cylinders**

above overall cylinder length of 110 mm,

available upon request.

Calculation based on each 10 mm started per side

from the basic length of 61 mm (L=30/30).

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **IKON additional charge for emergency mechanism**

with user key GE=BS

for profile double cylinders.

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **IKON additional charge for 360° freewheeling**

For double and half-cylinders SST=360

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **IKON additional charge for key inscription SBS**

Special inscription on keys

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **IKON additional charge for cylinder inscription SBZ**

Special inscription on cylinders

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **IKON Additional charge for drilling protection**

In Security Class 2 (AB=2)

For double, knob and half-cylinders,

with carbide pins

in the cylinder housing and core.

Per cylinder side

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **IKON grand master key**

when ordered with the master key system

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **IKON group key**

when ordered with the master key system

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **IKON additional charge for single keys**

when ordered with the master key system

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **IKON grand master key**

as additional delivery

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **IKON group key**

as additional delivery

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **IKON single keys**

as additional delivery

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **SM sheet steel key cabinet**

1 or 2-door, ready for locking with IKON cylinders. Size including reserve corresponds to the locking quantity (model no. and size are to be described).

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **Key cabinet mounting**

Proper and professional mounting of key cabinet

Quantity:\_\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_\_

1. **Traka21 electronic key management system**

It comprises:

1 key cabinet  
21 iFOBs  
25 key seals  
1 mains adapter  
2 emergency keys  
Order code: TR21 FF-7-0368

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **Traka21 key management system training**

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **Cylinder installation**

Fitting of profile cylinders proper and

professional in all door types, without reworking

to lock, fitting or door leaf, if

cylinder cut-out is free. Manufacturer's installation instructions are to be

observed.

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **IKON master key systems management programme SAM**

Software for IT-supported management of the   
master key system based on the current Windows operating system

Order code: XDA2 (one-time data request)

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

Order code: XDA3 (one or multi-year data subscription)

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **Lock plan design**

Creation of a computer-based lock plan design

according to information provided by construction management.

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_

1. **Change to to the completed lock plan**

According to information from construction management

Quantity:\_\_\_\_\_\_ Unit price: €\_\_\_\_\_\_ Total price: €\_\_\_\_\_\_