

# ALFRA ROTABEST® HSS CORE DRILLS

## GRINDED SHARP – ALFRA HSS CORE DRILLS LOVE HEAVY METAL

Core drill against metal – a daily challenge on construction sites or in metal construction. ROTABEST® core drills are made of high tensile tool steel. Due to the model they ensure accurate holes with diameters from 12 mm up to 60 mm – with a cutting depth from 30 mm to 110 mm.

### More than just a shell

The high quality products belonging to our HSS-core-drill-family deserve a package, which is offering more than protection from environmental influences. On the label you find all important informations about our core drills „Made in Germany“ at a glance.

### Thought-out packages with extra information:

Our core drills are easy on the eye. That's why the sturdy package is offering you a look at the content. Special characteristics of the plastic case: It's transparent, informative and a guarantor regarding quality assurance.

### Your advantage:

- The potential buyers are not tempted to open the package any more.
- For this reason the risk for contamination is diminishing. Furthermore the drills are not going to be damaged by drying-out.
- The label also serves as a sealing, guaranteeing original packaging when it's intact.
- Due to the Alfra-colour code, your customers can see at a glance, which type of the HSS CORE DRILL is inside the package.

# DOWN-TO-EARTH INDIVIDUALISTS – ALFRA ROTABEST® CORE DRILLS

Within the ROTABEST core drill family everyone has their own strengths – but still the same roots: Passion for Tools, made by Alfra.

## WELDON

## HSS-BASIC



### The solid one: Weldon HSS-BASIC

Reliable, robust, accurate – our ROTABEST® basis model is convincing with a solid performance at a small price.

- With Weldon shank 19.0 mm, 2 driving surfaces
- Internal bore 6.35 mm
- Steel quality: Special super high speed steel
- Polished section: with pre- and post-cutter

## WELDON

## HSS-CO-ECO



### The all-purpose-weapon: Weldon HSS-CO-ECO

The ROTABEST ECO-models are genuine golden boys – not only from a visual viewpoint. Due to the Weldon shank they are perfect partners for all core drilling machines with a weldon toolholder. Another advantage is the long service life

- With Weldon shank 19.0 mm, 2 driving surfaces
- Internal bore: 6.35 mm, cutting depth  $\varnothing$  110 mm: 8 mm
- Steel quality: Special super high speed steel cobalt
- Polished section: with pre- and post-cutter

## FEIN-QUICKIN

## HSS-CO-ECO



### The compatible one : FEIN-QUICKIN HSS-CO-ECO

For those, who doesn't like renouncing:  
You are working with a Fein-metal core drilling device with QuickIn tool holder? Due to the ROTABEST ECO-models with FEIN-QUICKIN shank you can rely on proven Alfra-quality.

- Suitable for FEIN magnetic drilling machines with Quick-IN arbor.
- Special shank, 18.0 mm with 4 bearing recesses
- Steel quality: Special super high speed steel cobalt
- Internal hole 6.4 mm

## UNIVERSAL / NITTO KOHKI

## HSS-CO-ECO



### The universal one: UNIVERSAL/NITTO KOHKI HSS-CO-ECO

One for all: Because of the universal shank our allrounder is fitting with a variety of tool-holder-designs and especially with Nitto One Touch devices.

- New Combi universal shank specially for Nitto one touch machines
- Also suitable for all magnetic drilling machines with Weldon shank
- Internal bore up to  $\varnothing$  17.0 mm:  $\varnothing$  6.35 mm; from 18.0 mm:  $\varnothing$  8.0 mm
- Steel quality: Special super high speed steel cobalt
- Polished surface: with pre- and post-cutter

## WELDON

## HSS-CO-RQX



### The endurance runner: WELDON HSS-CO-RQX

When it's getting hot: The specially coated RQX Models are providing full performance even when the temperature is rising up to 1000 °C. For example when it comes to long lasting drilling processes or horizontal drilling without coolant.

- With Weldon shank 19.0 mm, 2 driving surfaces
- Internal bore 6.35 mm
- Steel quality: Special super high speed steel cobalt, coated
- Polished section: with pre- and post-cutter



**The solid one:**

**Core drill Weldon HSS-BASIC**

- With Weldon shank 19.0 mm, 2 driving surfaces
- Internal bore 6.35 mm
- Steel quality: Special super high speed steel
- Polished section: with pre- and post-cutter

**Suitable on:**

ALFRA Rotabest®, BDS, Bux, Ruko, Magnetor, Euroboor, Universal, Nitto, Jancy, Hougen, Magtron, Promac, Rotabroach and all other magnetic drills with Weldon shank.

| Ø in mm | Cutting depth      |                    |
|---------|--------------------|--------------------|
|         | 30 mm<br>Prod.-No. | 50 mm<br>Prod.-No. |
| 12.0    | 1907012025         | 1907012050         |
| 13.0    | 1907013025         | 1907013050         |
| 13.5    | 1907013525         | 1907013550         |
| 14.0    | 1907014025         | 1907014050         |
| 15.0    | 1907015025         | 1907015050         |
| 15.5    | 1907015525         | 1907015550         |
| 16.0    | 1907016025         | 1907016050         |
| 17.0    | 1907017025         | 1907017050         |
| 17.5    | 1907017525         | 1907017550         |
| 18.0    | 1907018025         | 1907018050         |
| 19.0    | 1907019025         | 1907019050         |
| 19.5    | 1907019525         | 1907019550         |
| 20.0    | 1907020025         | 1907020050         |
| 21.0    | 1907021025         | 1907021050         |
| 22.0    | 1907022025         | 1907022050         |
| 23.0    | 1907023025         | 1907023050         |
| 24.0    | 1907024025         | 1907024050         |
| 25.0    | 1907025025         | 1907025050         |
| 26.0    | 1907026025         | 1907026050         |
| 26.5    | 1907026525         | 1907026550         |
| 27.0    | 1907027025         | 1907027050         |
| 28.0    | 1907028025         | 1907028050         |
| 29.0    | 1907029025         | 1907029050         |
| 30.0    | 1907030025         | 1907030050         |
| 31.0    | 1907031025         | 1907031050         |
| 32.0    | 1907032025         | 1907032050         |
| 33.0    | 1907033025         | 1907033050         |
| 34.0    | 1907034025         | 1907034050         |
| 35.0    | 1907035025         | 1907035050         |
| 36.0    | 1907036025         | 1907036050         |
| 37.0    | 1907037025         | 1907037050         |
| 38.0    | 1907038025         | 1907038050         |
| 39.0    | 1907039025         | 1907039050         |
| 40.0    | 1907040025         | 1907040050         |

| Ø in mm     | Cutting depth      |                    |
|-------------|--------------------|--------------------|
|             | 30 mm<br>Prod.-No. | 50 mm<br>Prod.-No. |
| 41.0        | 1907041025         | 1907041050         |
| 42.0        | 1907042025         | 1907042050         |
| 43.0        | 1907043025         | 1907043050         |
| 44.0        | 1907044025         | 1907044050         |
| 45.0        | 1907045025         | 1907045050         |
| 46.0        | 1907046025         | 1907046050         |
| 47.0        | 1907047025         | 1907047050         |
| 48.0        | 1907048025         | 1907048050         |
| 49.0        | 1907049025         | 1907049050         |
| 50.0        | 1907050025         | 1907050050         |
| 51.0        | -                  | 1907051050         |
| 52.0        | 1907052025         | 1907052050         |
| 53.0        | -                  | 1907053050         |
| 54.0        | -                  | 1907054050         |
| 55.0        | 1907055025         | 1907055050         |
| 56.0        | -                  | 1907056050         |
| 57.0        | -                  | 1907057050         |
| 58.0        | -                  | 1907058050         |
| 59.0        | -                  | 1907059050         |
| 60.0        | 1907060025         | 1907060050         |
| Ejector pin | 1926500            | 1950500            |
| Dimension   | 6.35 x 77 mm       | 6.35 x 102 mm      |



Weldon



Heavy duty serration with pre- (1) and post-cutter (2)

HSS BASIC Core Drill Sets



- A range of the most commonly used core drills clearly arranged in a sturdy plastic case.
- Absolute protection of the teeth tips in the rough usage operation at installation and in the workshop.
- On request, we can assemble individual sets in 12.0 to 30.0 mm diameters.

| Ø mm                       | 12.0  | 14.0 | 16.0 | 18.0 | 20.0 | 22.0 | 24.0 | 26.0 |
|----------------------------|---|------|------|------|------|------|------|------|
| <b>Cutting depth 30 mm</b> |   |      |      |      |      |      |      |      |
| <b>Prod.-No.</b>           |   |      |      |      |      |      |      |      |
| <b>1907125</b>             | 3 pc. HSS BASIC core drill set: incl. 1 ejector pin Prod.-No. 1926500   |      |      |      |      |      |      |      |
|                            |   | ●    |      | ●    |      | ●    |      |      |
| <b>1907003025</b>          | 6 pc. HSS BASIC core drill set: incl. 1 ejector pin Prod.-No. 1926500   |      |      |      |      |      |      |      |
|                            | ●   | ●    | ●    | ●    | ●    | ●    |      |      |
| <b>1907001025</b>          | 10 pc. HSS BASIC core drill set: incl. 2 ejector pins Prod.-No. 1926500 |      |      |      |      |      |      |      |
|                            | ●●  | ●●   | ●    | ●●   | ●    | ●●   |      |      |
| <b>Cutting depth 50 mm</b> |   |      |      |      |      |      |      |      |
| <b>1907003050</b>          | 6 pc. HSS BASIC core drill set: incl. 1 ejector pin Prod.-No. 1950500   |      |      |      |      |      |      |      |
|                            |   | ●    | ●    | ●    | ●    | ●    |      | ●    |
| <b>1907001050</b>          | 10 pc. HSS BASIC core drill set: incl. 2 ejector pins Prod.-No. 1950500 |      |      |      |      |      |      |      |
|                            |   | ●●   | ●    | ●●   | ●    | ●●   | ●    | ●    |



**The all-purpose-weapon:**

**Core drill Weldon HSS-CO-ECO**

- With Weldon shank 19.0 mm, 2 driving surfaces
- Internal bore: 6.35 mm
- Steel quality: Special super high speed steel cobalt
- Polished section: with pre- and post-cutter

**Suitable on:**

ALFRA Rotabest®, BDS, Bux, Ruko, Magnetor, Euroboor, Universal, Nitto, Jancy, Hougen, Magtron, Promac, Rotabroach and all other magnetic drills with Weldon shank.

| Ø in mm | Cutting depth      |                    |
|---------|--------------------|--------------------|
|         | 30 mm<br>Prod.-No. | 50 mm<br>Prod.-No. |
| 12.0    | 1901012025         | 1901012050         |
| 13.0    | 1901013025         | 1901013050         |
| 13.5    | 1901013525         | 1901013550         |
| 14.0    | 1901014025         | 1901014050         |
| 15.0    | 1901015025         | 1901015050         |
| 15.5    | 1901015525         | 1901015550         |
| 16.0    | 1901016025         | 1901016050         |
| 17.0    | 1901017025         | 1901017050         |
| 17.5    | 1901017525         | 1901017550         |
| 18.0    | 1901018025         | 1901018050         |
| 19.0    | 1901019025         | 1901019050         |
| 19.5    | 1901019525         | 1901019550         |
| 20.0    | 1901020025         | 1901020050         |
| 21.0    | 1901021025         | 1901021050         |
| 22.0    | 1901022025         | 1901022050         |
| 23.0    | 1901023025         | 1901023050         |
| 24.0    | 1901024025         | 1901024050         |
| 25.0    | 1901025025         | 1901025050         |
| 26.0    | 1901026025         | 1901026050         |
| 26.5    | 1901026525         | 1901026550         |
| 27.0    | 1901027025         | 1901027050         |
| 28.0    | 1901028025         | 1901028050         |
| 29.0    | 1901029025         | 1901029050         |
| 30.0    | 1901030025         | 1901030050         |
| 31.0    | 1901031025         | 1901031050         |
| 32.0    | 1901032025         | 1901032050         |
| 33.0    | 1901033025         | 1901033050         |
| 34.0    | 1901034025         | 1901034050         |
| 35.0    | 1901035025         | 1901035050         |
| 36.0    | 1901036025         | 1901036050         |
| 37.0    | 1901037025         | 1901037050         |
| 38.0    | 1901038025         | 1901038050         |
| 39.0    | 1901039025         | 1901039050         |
| 40.0    | 1901040025         | 1901040050         |
| 41.0    | 1901041025         | 1901041050         |
| 42.0    | 1901042025         | 1901042050         |
| 43.0    | 1901043025         | 1901043050         |
| 44.0    | 1901044025         | 1901044050         |
| 45.0    | 1901045025         | 1901045050         |
| 46.0    | 1901046025         | 1901046050         |
| 47.0    | 1901047025         | 1901047050         |
| 48.0    | 1901048025         | 1901048050         |
| 49.0    | 1901049025         | 1901049050         |
| 50.0    | 1901050025         | 1901050050         |
| 51.0    | -                  | 1901051050         |
| 52.0    | 1901052025         | 1901052050         |
| 53.0    | -                  | 1901053050         |
| 54.0    | -                  | 1901054050         |
| 55.0    | 1901055025         | 1901055050         |
| 56.0    | -                  | 1901056050         |
| 57.0    | -                  | 1901057050         |
| 58.0    | -                  | 1901058050         |
| 59.0    | -                  | 1901059050         |
| 60.0    | 1901060025         | 1901060050         |

| Ø in mm | Cutting depth        |
|---------|----------------------|
|         | 110 mm<br>Prod.-No.* |
| 20.0    | 1901020110           |
| 22.0    | 1901022110           |
| 24.0    | 1901024110           |
| 25.0    | 1901025110           |
| 26.0    | 1901026110           |
| 28.0    | 1901028110           |
| 30.0    | 1901030110           |
| 32.0    | 1901032110           |
| 35.0    | 1901035110           |
| 40.0    | 1901040110           |
| 45.0    | 1901045110           |
| 50.0    | 1901050110           |

\* Caution: HSS-Co Eco core drill cutting depth 110 mm can only be used with tool holder AMT 2 L (Prod.-No. 18003 L) or AMT 3 L (Prod.-No. 18025 L).

| Ejector pin at cutting depth |                            |                            |
|------------------------------|----------------------------|----------------------------|
| 30 mm<br>Prod.-No.           | 50 mm<br>Prod.-No.         | 110 mm<br>Prod.-No.*       |
| 1926500<br>(6.35 x 77 mm)    | 1950500<br>(6.35 x 102 mm) | 2001502<br>(6.35 x 160 mm) |



Weldon



Heavy duty serration with pre- (1) and post-cutter (2)

HSS-Co Eco Core Drill Sets



- A range of the most commonly used core drills clearly arranged in a sturdy plastic case.
- Absolute protection of the teeth tips in the rough usage operation at installation and in the workshop.
- On request, we can assemble individual sets in 12.0 to 30.0 mm diameters.

| Ø mm                       | 12.0   | 14.0 | 16.0 | 18.0 | 20.0 | 22.0 | 24.0 | 26.0 |
|----------------------------|--|------|------|------|------|------|------|------|
| <b>Cutting depth 30 mm</b> |  |      |      |      |      |      |      |      |
| <b>Prod.-No.</b>           |  |      |      |      |      |      |      |      |
| <b>1901125</b>             | 3 pc. HSS-Co Eco core drill set: incl. 1 ejector pin Prod.-No. 1926500   |      |      |      |      |      |      |      |
|                            |  | ●    |      | ●    |      | ●    |      |      |
| <b>1901003025</b>          | 6 pc. HSS-Co Eco core drill set: incl. 1 ejector pin Prod.-No. 1926500   |      |      |      |      |      |      |      |
|                            | ●  | ●    | ●    | ●    | ●    | ●    |      |      |
| <b>1901001025</b>          | 10 pc. HSS-Co Eco core drill set: incl. 2 ejector pins Prod.-No. 1926500 |      |      |      |      |      |      |      |
|                            | ●●   | ●●   | ●    | ●●   | ●    | ●●   |      |      |
| <b>Cutting depth 50 mm</b> |  |      |      |      |      |      |      |      |
| <b>1901003050</b>          | 6 pc. HSS-Co Eco core drill set: incl. 1 ejector pin Prod.-No. 1950500   |      |      |      |      |      |      |      |
|                            |  | ●    | ●    | ●    | ●    | ●    |      | ●    |
| <b>1901001050</b>          | 10 pc. HSS-Co Eco core drill set: incl. 2 ejector pins Prod.-No. 1950500 |      |      |      |      |      |      |      |
|                            |  | ●●   | ●    | ●●   | ●    | ●●   | ●    | ●    |



**The endurance runner:**

**Core drill WELDON HSS-CO-RQX**

- With Weldon shank 19.0 mm, 2 driving surfaces
- Internal bore 6.35 mm
- Steel quality: Special super high speed steel cobalt, coated
- polished section: with pre- and post-cutter

**Suitable on:**

ALFRA Rotabest®, BDS, Bux, Ruko, Magnetor, Euroboor, Universal, Nitto, Jancy, Hougen, Magtron, Promac, Rotabroach and all other magnetic drills with Weldon shank.

**Cutting depth 30 mm**

**Cutting depth 50 mm**

| Ø in mm                  | Prod.-No.  |
|--------------------------|------------|
| 12.0                     | 1902012025 |
| 13.0                     | 1902013025 |
| 14.0                     | 1902014025 |
| 15.0                     | 1902015025 |
| 16.0                     | 1902016025 |
| 17.0                     | 1902017025 |
| 18.0                     | 1902018025 |
| 19.0                     | 1902019025 |
| 20.0                     | 1902020025 |
| 21.0                     | 1902021025 |
| 22.0                     | 1902022025 |
| 23.0                     | 1902023025 |
| 24.0                     | 1902024025 |
| 25.0                     | 1902025025 |
| 26.0                     | 1902026025 |
| 27.0                     | 1902027025 |
| 28.0                     | 1902028025 |
| 29.0                     | 1902029025 |
| 30.0                     | 1902030025 |
| 31.0                     | 1902031025 |
| 32.0                     | 1902032025 |
| 33.0                     | 1902033025 |
| 34.0                     | 1902034025 |
| 35.0                     | 1902035025 |
| 36.0                     | 1902036025 |
| 37.0                     | 1902037025 |
| 38.0                     | 1902038025 |
| 39.0                     | 1902039025 |
| 40.0                     | 1902040025 |
| 41.0                     | 1902041025 |
| 42.0                     | 1902042025 |
| 43.0                     | 1902043025 |
| 44.0                     | 1902044025 |
| 45.0                     | 1902045025 |
| 46.0                     | 1902046025 |
| 47.0                     | 1902047025 |
| 48.0                     | 1902048025 |
| 49.0                     | 1902049025 |
| 50.0                     | 1902050025 |
| 51.0                     | -          |
| 52.0                     | -          |
| 53.0                     | -          |
| 54.0                     | -          |
| 55.0                     | -          |
| 56.0                     | -          |
| 57.0                     | -          |
| 58.0                     | -          |
| 59.0                     | -          |
| 60.0                     | -          |
| Ejector pin 6.35 x 77 mm | 1926500    |

| Ø in mm                   | Prod.-No.  |
|---------------------------|------------|
| 12.0                      | 1902012050 |
| 13.0                      | 1902013050 |
| 14.0                      | 1902014050 |
| 15.0                      | 1902015050 |
| 16.0                      | 1902016050 |
| 17.0                      | 1902017050 |
| 18.0                      | 1902018050 |
| 19.0                      | 1902019050 |
| 20.0                      | 1902020050 |
| 21.0                      | 1902021050 |
| 22.0                      | 1902022050 |
| 23.0                      | 1902023050 |
| 24.0                      | 1902024050 |
| 25.0                      | 1902025050 |
| 26.0                      | 1902026050 |
| 27.0                      | 1902027050 |
| 28.0                      | 1902028050 |
| 29.0                      | 1902029050 |
| 30.0                      | 1902030050 |
| 31.0                      | 1902031050 |
| 32.0                      | 1902032050 |
| 33.0                      | 1902033050 |
| 34.0                      | 1902034050 |
| 35.0                      | 1902035050 |
| 36.0                      | 1902036050 |
| 37.0                      | 1902037050 |
| 38.0                      | 1902038050 |
| 39.0                      | 1902039050 |
| 40.0                      | 1902040050 |
| 41.0                      | 1902041050 |
| 42.0                      | 1902042050 |
| 43.0                      | 1902043050 |
| 44.0                      | 1902044050 |
| 45.0                      | 1902045050 |
| 46.0                      | 1902046050 |
| 47.0                      | 1902047050 |
| 48.0                      | 1902048050 |
| 49.0                      | 1902049050 |
| 50.0                      | 1902050050 |
| 51.0                      | 1902051050 |
| 52.0                      | 1902052050 |
| 53.0                      | 1902053050 |
| 54.0                      | 1902054050 |
| 55.0                      | 1902055050 |
| 56.0                      | 1902056050 |
| 57.0                      | 1902057050 |
| 58.0                      | 1902058050 |
| 59.0                      | 1902059050 |
| 60.0                      | 1902060050 |
| Ejector pin 6.35 x 102 mm | 1950500    |



Weldon



Heavy duty serration with pre- (1) and post-cutter (2)

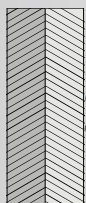


HSS-Co RQX CORE DRILL SETS



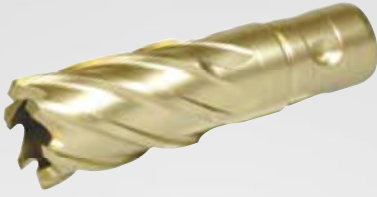
- A range of the most commonly used core drills clearly arranged in a sturdy plastic case.
- Absolute protection of the teeth tips in the rough usage operation at installation and in the workshop.
- On request, we can assemble individual sets in 12.0 to 30.0 mm diameters.

| Ø mm                       | 12.0  | 14.0 | 16.0 | 18.0 | 20.0 | 22.0 | 24.0 | 26.0 |
|----------------------------|---|------|------|------|------|------|------|------|
| <b>Cutting depth 30 mm</b> |   |      |      |      |      |      |      |      |
| <b>Prod.-No.</b>           |   |      |      |      |      |      |      |      |
| <b>1902003025</b>          | Set of 6 HSS-Co core drill RQX: incl. 1 ejector pin Prod.-No. 1926500   |      |      |      |      |      |      |      |
|                            | ●   | ●    | ●    | ●    |      | ●    |      | ●    |
| <b>1902001025</b>          | Set of 10 HSS-Co core drill RQX: incl. 2 ejector pins Prod.-No. 1926500 |      |      |      |      |      |      |      |
|                            | ●●  | ●●   | ●    | ●●   |      | ●●   |      | ●    |
| <b>Cutting depth 50 mm</b> |   |      |      |      |      |      |      |      |
| <b>1902003050</b>          | Set of 6 HSS-Co core drill RQX: incl. 1 ejector pin Prod.-No. 1950500   |      |      |      |      |      |      |      |
|                            |   | ●    | ●    | ●    | ●    | ●    |      | ●    |
| <b>1902001050</b>          | Set of 10 HSS-Co core drill RQX: incl. 2 ejector pins Prod.-No. 1950500 |      |      |      |      |      |      |      |
|                            |   | ●●   | ●    | ●●   | ●    | ●●   | ●    | ●    |



HSS-Co core drills with special geometry for the machining of superimposed metal plates (multi-layer drill) upon request! (Standard core drills are unsuitable for this.)





**The compatible one:**

**Core drill FEIN-QUICKIN HSS-CO-ECO**

Are you using FEIN magnetic drilling machines and don't want to do without your ALFRA-Rotabest® core drill? Take a look at our selection of HSS and carbide-tipped core drills suitable for the various types of FEIN machines.

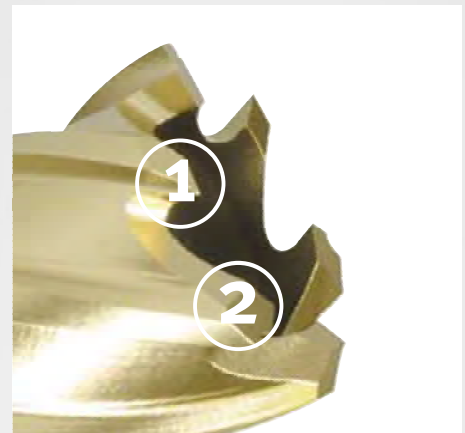
- Suitable for FEIN magnetic drilling machines with Quick-IN arbor.
- Special shank, 18.0 mm with 4 bearing recesses
- Steel quality: Special super high speed steel cobalt
- Internal hole 6.4 mm

**Cutting depth 35 mm**

| Ø in mm                          | Prod.-No.      |
|----------------------------------|----------------|
| 12.0                             | 1909012035     |
| 13.0                             | 1909013035     |
| 14.0                             | 1909014035     |
| 15.0                             | 1909015035     |
| 16.0                             | 1909016035     |
| 17.0                             | 1909017035     |
| 18.0                             | 1909018035     |
| 19.0                             | 1909019035     |
| 20.0                             | 1909020035     |
| 21.0                             | 1909021035     |
| 22.0                             | 1909022035     |
| 23.0                             | 1909023035     |
| 24.0                             | 1909024035     |
| 25.0                             | 1909025035     |
| 26.0                             | 1909026035     |
| 27.0                             | 1909027035     |
| 28.0                             | 1909028035     |
| 29.0                             | 1909029035     |
| 30.0                             | 1909030035     |
| 31.0                             | 1909031035     |
| 32.0                             | 1909032035     |
| <b>Ejector pin 6.35 x 106 mm</b> |                |
|                                  | <b>1936500</b> |



FEIN-QUICKIN



Heavy duty serration with pre- (1) and post-cutter (2)



Prod.-No. 1936500



### The universal one:

#### Core drill UNIVERSAL/NITTO KOHKI HSS-CO-ECO

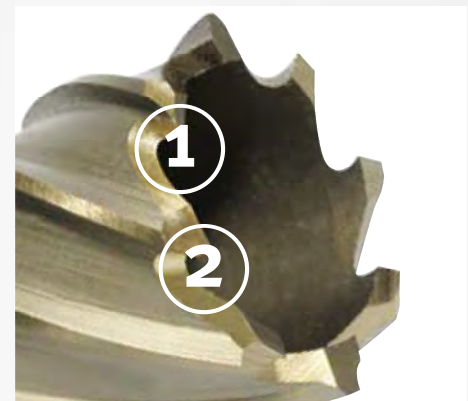
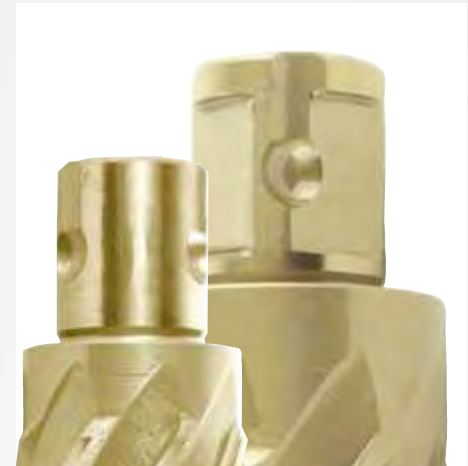
- New Combi universal shank specially for Nitto one touch machines
- Also suitable for all magnetic drilling machines with Weldon shank
- Internal bore up to Ø 17.0 mm: Ø 6.35 mm; from 18.0 mm: Ø 8.0 mm
- Steel quality: Special super high speed steel cobalt
- Polished surface: with pre- and post-cutter

### Suitable on:

ALFRA, ALFRA-RQ models with quick-change system, BDS (incl. keyless system), Bux, Ruko, Magnetor, Euroboor, Jancy, Hougen, Magtron, ProMag, Rotabroach, Jepson, Metallkraft, etc.

| Cutting depth 30 mm      |            |
|--------------------------|------------|
| Ø in mm                  | Prod.-No.  |
| 12.0                     | 1913012025 |
| 13.0                     | 1913013025 |
| 14.0                     | 1913014025 |
| 15.0                     | 1913015025 |
| 16.0                     | 1913016025 |
| 17.0                     | 1913017025 |
| 18.0                     | 1913018025 |
| 19.0                     | 1913019025 |
| 20.0                     | 1913020025 |
| 21.0                     | 1913021025 |
| 22.0                     | 1913022025 |
| 23.0                     | 1913023025 |
| 24.0                     | 1913024025 |
| 25.0                     | 1913025025 |
| 26.0                     | 1913026025 |
| 27.0                     | 1913027025 |
| 28.0                     | 1913028025 |
| 29.0                     | 1913029025 |
| 30.0                     | 1913030025 |
| 31.0                     | 1913031025 |
| 32.0                     | 1913032025 |
| 33.0                     | 1913033025 |
| 34.0                     | 1913034025 |
| 35.0                     | 1913035025 |
| 36.0                     | 1913036025 |
| 37.0                     | 1913037025 |
| 38.0                     | 1913038025 |
| 39.0                     | 1913039025 |
| 40.0                     | 1913040025 |
| 41.0                     | 1913041025 |
| 42.0                     | 1913042025 |
| 43.0                     | 1913043025 |
| 44.0                     | 1913044025 |
| 45.0                     | 1913045025 |
| 46.0                     | 1913046025 |
| 47.0                     | 1913047025 |
| 48.0                     | 1913048025 |
| 49.0                     | 1913049025 |
| 50.0                     | 1913050025 |
| 52.0                     | 1913052025 |
| 55.0                     | 1913055025 |
| 60.0                     | 1913060025 |
| Ejector pin 6.35 x 77 mm | 1926500    |

| Cutting depth 50 mm       |            |
|---------------------------|------------|
| Ø in mm                   | Prod.-No.  |
| 12.0                      | 1913012050 |
| 13.0                      | 1913013050 |
| 13.5                      | —          |
| 14.0                      | 1913014050 |
| 15.0                      | 1913015050 |
| 15.5                      | —          |
| 16.0                      | 1913016050 |
| 17.0                      | 1913017050 |
| 17.5                      | —          |
| 18.0                      | 1913018050 |
| 19.0                      | 1913019050 |
| 20.0                      | 1913020050 |
| 21.0                      | 1913021050 |
| 22.0                      | 1913022050 |
| 23.0                      | 1913023050 |
| 24.0                      | 1913024050 |
| 25.0                      | 1913025050 |
| 26.0                      | 1913026050 |
| 27.0                      | 1913027050 |
| 28.0                      | 1913028050 |
| 29.0                      | 1913029050 |
| 30.0                      | 1913030050 |
| 31.0                      | 1913031050 |
| 32.0                      | 1913032050 |
| 33.0                      | 1913033050 |
| 34.0                      | 1913034050 |
| 35.0                      | 1913035050 |
| 36.0                      | 1913036050 |
| 37.0                      | 1913037050 |
| 38.0                      | 1913038050 |
| 39.0                      | 1913039050 |
| 40.0                      | 1913040050 |
| 41.0                      | 1913041050 |
| 42.0                      | 1913042050 |
| 43.0                      | 1913043050 |
| 44.0                      | 1913044050 |
| 45.0                      | 1913045050 |
| 46.0                      | 1913046050 |
| 47.0                      | 1913047050 |
| 48.0                      | 1913048050 |
| 49.0                      | 1913049050 |
| 50.0                      | 1913050050 |
| 51.0                      | 1913051050 |
| 52.0                      | 1913052050 |
| 53.0                      | 1913053050 |
| 54.0                      | 1913054050 |
| 55.0                      | 1913055050 |
| 56.0                      | 1913056050 |
| 57.0                      | 1913057050 |
| 58.0                      | 1913058050 |
| 59.0                      | 1913059050 |
| 60.0                      | 1913060050 |
| Ejector pin 6.35 x 102 mm | 1950500    |



Heavy duty serration with pre- (1) and post-cutter (2)



# TCT CORE DRILLS *ALFRA ROTABEST*<sup>®</sup>



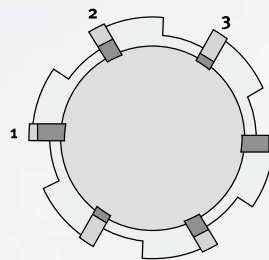
# ALFRA ROTABEST® – TCT CORE DRILLS



Applicable on magnetic and column drills. For structural steels, hard-to-machine materials such as chrome-nickel stainless steels and non-ferrous metals such as aluminium and CuZn alloy and many more.

Advantages of the ALFRA ROTABEST® Tungsten carbide-tipped core drills:

- High concentricity due to solid design
- CAD-optimised cutting geometry for steady flow of chips
- Uniquely shaped chip grooves to prevent chip jamming
- Instant centring
- No running off centre
- Small torque
- Low energy consumption
- Rapid drill core removal by ejector pin
- Extended tool life



**ALFRA "Chip-Breaker System"**  
Extremely precise drilling in 3 simple steps.  
1 Pre-cutter  
2 Middle cutter  
3 Post-cutter

# ALFRA ROTABEST® – TCT CORE DRILLS

- with Weldon shank 19.0 mm
- Internal bore:  $\varnothing$  12 mm = 5.0 mm  
 $\varnothing$  14 - 17 mm = 6.35 mm  
 $\varnothing$  18 - 50 mm = 8.0 mm
- Polished section: Pre- Middle - Post cutter
- For the highest standards in cutting and lifespan.

## Suitable on:

all magnetic drilling machines with Weldon shank. ALFRA-Rotabest® (Weldon), ALFRA-Rota-Quick® Quick-change system, for BDS, Bux, Ruko, Magnetor, Euroboor, Universal, Jancy, Hougen, Magtron, Promac, Rotabroach, among others.



| Ø in mm | cutting depth 35 mm | Prod.-No.  |
|---------|---------------------|------------|
| 12.0    |                     | 2003012035 |
| 14.0    |                     | 2003014035 |
| 15.0    |                     | 2003015035 |
| 16.0    |                     | 2003016035 |
| 17.0    |                     | 2003017035 |
| 18.0    |                     | 2003018035 |
| 19.0    |                     | 2003019035 |
| 20.0    |                     | 2003020035 |
| 21.0    |                     | 2003021035 |
| 22.0    |                     | 2003022035 |
| 23.0    |                     | 2003023035 |
| 24.0    |                     | 2003024035 |
| 25.0    |                     | 2003025035 |
| 26.0    |                     | 2003026035 |
| 27.0    |                     | 2003027035 |
| 28.0    |                     | 2003028035 |
| 29.0    |                     | 2003029035 |
| 30.0    |                     | 2003030035 |
| 31.0    |                     | 2003031035 |
| 32.0    |                     | 2003032035 |
| 33.0    |                     | 2003033035 |
| 34.0    |                     | 2003034035 |
| 35.0    |                     | 2003035035 |

Ejector pin  
for  $\varnothing$  12 mm, 5 x 87 mm

1934500

Ejector pin  
for  $\varnothing$  14 - 17 mm, 6.35 x 87 mm

1935500

Ejector pin  
for  $\varnothing$  18 - 50 mm, 8 x 87 mm

2001500

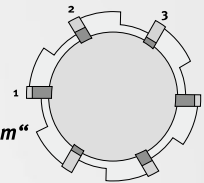
| Ø in mm | cutting depth 50 mm | Prod.-No.  |
|---------|---------------------|------------|
| 14.0    |                     | 2003014050 |
| 15.0    |                     | 2003015050 |
| 16.0    |                     | 2003016050 |
| 17.0    |                     | 2003017050 |
| 18.0    |                     | 2003018050 |
| 19.0    |                     | 2003019050 |
| 20.0    |                     | 2003020050 |
| 21.0    |                     | 2003021050 |
| 22.0    |                     | 2003022050 |
| 23.0    |                     | 2003023050 |
| 24.0    |                     | 2003024050 |
| 25.0    |                     | 2003025050 |
| 26.0    |                     | 2003026050 |
| 27.0    |                     | 2003027050 |
| 28.0    |                     | 2003028050 |
| 29.0    |                     | 2003029050 |
| 30.0    |                     | 2003030050 |
| 31.0    |                     | 2003031050 |
| 32.0    |                     | 2003032050 |
| 33.0    |                     | 2003033050 |
| 34.0    |                     | 2003034050 |
| 35.0    |                     | 2003035050 |
| 36.0    |                     | 2003036050 |
| 37.0    |                     | 2003037050 |
| 38.0    |                     | 2003038050 |
| 39.0    |                     | 2003039050 |
| 40.0    |                     | 2003040050 |
| 41.0    |                     | 2003041050 |
| 42.0    |                     | 2003042050 |
| 43.0    |                     | 2003043050 |
| 44.0    |                     | 2003044050 |
| 45.0    |                     | 2003045050 |
| 46.0    |                     | 2003046050 |
| 47.0    |                     | 2003047050 |
| 48.0    |                     | 2003048050 |
| 49.0    |                     | 2003049050 |
| 50.0    |                     | 2003050050 |

Ejector pin  
for  $\varnothing$  14 - 17 mm, 6.35 x 102 mm

1950500

Ejector pin  
for  $\varnothing$  18 - 50 mm, 8 x 102 mm

2001501



ALFRA „Chip-Breaker System“

- 1 Pre-cutter
- 2 Middle-cutter
- 3 Post-cutter

On request with shank for NITTO One-Touch

# ALFRA ROTABEST® – TCT CORE DRILLS WITH KEYWAY AND FEATHER KEY

- Heavy industrial version **with keyway and feather key**
- Long-term tests series have shown that this specialised design with keyway and feather key has proven outstanding compared to a standard 32 mm Weldon shank. Optimal containment of high torsion forces.
- Polished section: Pre- Middle - Post cutter
- Required: Tool holder with internal cooling
 

|      |     |                 |
|------|-----|-----------------|
| AL 3 | MT3 | Prod.-No. 20230 |
| AL 4 | MT4 | Prod.-No. 20240 |
| AL 5 | MT5 | Prod.-No. 20250 |
- Upon request, cutting depth of 100 mm with ejector pin 8 x 160 mm Prod.-No. 2001502



| Ø in mm | cutting depth 50 mm | Prod.-No.  |
|---------|---------------------|------------|
| 51.0    |                     | 2002051050 |
| 52.0    |                     | 2002052050 |
| 53.0    |                     | 2002053050 |
| 54.0    |                     | 2002054050 |
| 55.0    |                     | 2002055050 |
| 56.0    |                     | 2002056050 |
| 57.0    |                     | 2002057050 |
| 58.0    |                     | 2002058050 |
| 59.0    |                     | 2002059050 |
| 60.0    |                     | 2002060050 |
| 61.0    |                     | 2002061050 |
| 62.0    |                     | 2002062050 |
| 63.0    |                     | 2002063050 |
| 64.0    |                     | 2002064050 |
| 65.0    |                     | 2002065050 |
| 66.0    |                     | 2002066050 |
| 67.0    |                     | 2002067050 |
| 68.0    |                     | 2002068050 |
| 69.0    |                     | 2002069050 |
| 70.0    |                     | 2002070050 |
| 71.0    |                     | 2002071050 |
| 72.0    |                     | 2002072050 |
| 73.0    |                     | 2002073050 |
| 74.0    |                     | 2002074050 |
| 75.0    |                     | 2002075050 |
| 76.0    |                     | 2002076050 |
| 77.0    |                     | 2002077050 |
| 78.0    |                     | 2002078050 |
| 79.0    |                     | 2002079050 |
| 80.0    |                     | 2002080050 |
| 81.0    |                     | 2002081050 |
| 82.0    |                     | 2002082050 |
| 83.0    |                     | 2002083050 |
| 84.0    |                     | 2002084050 |
| 85.0    |                     | 2002085050 |
| 86.0    |                     | 2002086050 |
| 87.0    |                     | 2002087050 |
| 88.0    |                     | 2002088050 |
| 89.0    |                     | 2002089050 |
| 90.0    |                     | 2002090050 |
| 91.0    |                     | 2002091050 |
| 92.0    |                     | 2002092050 |
| 93.0    |                     | 2002093050 |
| 94.0    |                     | 2002094050 |
| 95.0    |                     | 2002095050 |
| 96.0    |                     | 2002096050 |
| 97.0    |                     | 2002097050 |
| 98.0    |                     | 2002098050 |
| 99.0    |                     | 2002099050 |
| 100.0   |                     | 2002100050 |

|                        |         |
|------------------------|---------|
| Ejector pin 8 x 102 mm | 2001501 |
| Tool holder AL 2/MT 2  | 20220   |
| Tool holder AL 3/MT 3  | 20230   |
| Tool holder AL 4/MT 4  | 20240   |
| Tool holder AL 5/MT 5  | 20250   |



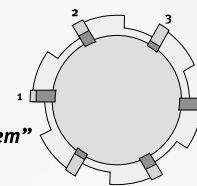
Shorter and more robust tool construction. ALFRA design. High concentricity.

### Advantages ALFRA carbide-tipped core drills “Heavy industrial version”

- Perfect gating behaviour - even at the first drill hole
- Excellent centring properties
- Low cutting pressure - low power usage
- Vibration-free working
- Chip distribution – no chip jamming
- Drilling depth can be reached in a single operation
- Drill core can be easily ejected

### ALFRA “Chip-Breaker System”

- 1 Pre-cutter
- 2 Middle cutter
- 3 Post-cutter



Prod.-No. 20230

Not suitable for automatic feed!

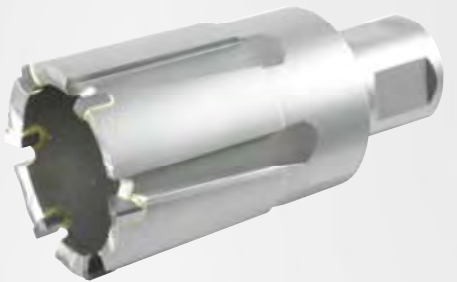
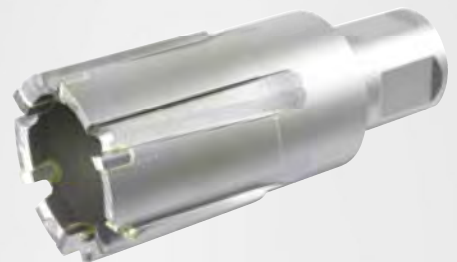
# ALFRA ROTABEST® – TCT RAIL CORE DRILLS FOR RAILWAY TRACKS

- With Weldon shank 19.0 mm
- Internal bore 6.35 mm
- For highest requirements in cutting and durability when drilling railway tracks
- Polished surface: Pre – Middle – Post cutter

## Suitable for:

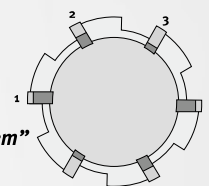
all portable magnetic drilling machines with 19 mm Weldon shank, especially for rail drilling units from the following manufacturers:

- Cembre
- Erico
- KKT
- Dubuis
- Universal
- Magtron
- Rotabroach



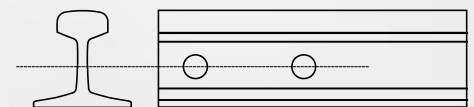
| Ø in mm                  | cutting depth 25 mm | Prod.-No.  |
|--------------------------|---------------------|------------|
| 19.0                     |                     | 2005019025 |
| 20.0                     |                     | 2005020025 |
| 21.0                     |                     | 2005021025 |
| 22.0                     |                     | 2005022025 |
| 23.0                     |                     | 2005023025 |
| 24.0                     |                     | 2005024025 |
| 25.0                     |                     | 2005025025 |
| 26.0                     |                     | 2005026025 |
| 27.5                     |                     | 2005027525 |
| 28.0                     |                     | 2005028025 |
| 30.0                     |                     | 2005030025 |
| 31.0                     |                     | 2005031025 |
| 32.0                     |                     | 2005032025 |
| 33.0                     |                     | 2005033025 |
| 34.0                     |                     | 2005034025 |
| 36.0                     |                     | 2005036025 |
| Ejector pin 6.35 x 77 mm |                     | 1926500    |

| Ø in mm                   | cutting depth 50 mm | Prod.-No.  |
|---------------------------|---------------------|------------|
| 19.0                      |                     | 2005019050 |
| 20.0                      |                     | 2005020050 |
| 21.0                      |                     | 2005021050 |
| 22.0                      |                     | 2005022050 |
| 23.0                      |                     | 2005023050 |
| 24.0                      |                     | 2005024050 |
| 25.0                      |                     | 2005025050 |
| 26.0                      |                     | 2005026050 |
| 27.5                      |                     | 2005027550 |
| 28.0                      |                     | 2005028050 |
| 30.0                      |                     | 2005030050 |
| 31.0                      |                     | 2005031050 |
| 32.0                      |                     | 2005032050 |
| 33.0                      |                     | 2005033050 |
| 34.0                      |                     | 2005034050 |
| 36.0                      |                     | 2005036050 |
| Ejector pin 6.35 x 102 mm |                     | 1950500    |



## ALFRA "Chip-Breaker System"

- 1 Pre-cutter
- 2 Middle-cutter
- 3 Post-cutter



# ALFRA ROTABEST® – TCT CORE DRILLS

## SUITABLE FOR FEIN + HITACHI

- 2008... with threaded arbor internal thread M18 x 6 p 1.5
- Also suitable for Hitachi machines
  
- 2009... with Quick-IN arbor
- Suitable on FEIN magnetic drilling machines with Quick-IN arbor

| Ø in mm                   | Prod.-No.                           | Prod.-No.                       |
|---------------------------|-------------------------------------|---------------------------------|
|                           | M18 x 6P 1.5<br>Cutting depth 50 mm | Quick IN<br>Cutting depth 35 mm |
| 12.0                      | 2008012050                          | 2009012035                      |
| 13.0                      | 2008013050                          | 2009013035                      |
| 14.0                      | 2008014050                          | 2009014035                      |
| 15.0                      | 2008015050                          | 2009015035                      |
| 16.0                      | 2008016050                          | 2009016035                      |
| 17.0                      | 2008017050                          | 2009017035                      |
| 18.0                      | 2008018050                          | 2009018035                      |
| 19.0                      | 2008019050                          | 2009019035                      |
| 20.0                      | 2008020050                          | 2009020035                      |
| 21.0                      | 2008021050                          | 2009021035                      |
| 22.0                      | 2008022050                          | 2009022035                      |
| 23.0                      | 2008023050                          | 2009023035                      |
| 24.0                      | 2008024050                          | 2009024035                      |
| 25.0                      | 2008025050                          | 2009025035                      |
| 26.0                      | 2008026050                          | 2009026035                      |
| 27.0                      | 2008027050                          | 2009027035                      |
| 28.0                      | 2008028050                          | 2009028035                      |
| 29.0                      | 2008029050                          | 2009029035                      |
| 30.0                      | 2008030050                          | 2009030035                      |
| 31.0                      | 2008031050                          | 2009031035                      |
| 32.0                      | 2008032050                          | 2009032035                      |
| 33.0                      | 2008033050                          | 2009033035                      |
| 34.0                      | 2008034050                          | 2009034035                      |
| 35.0                      | 2008035050                          | 2009035035                      |
| 36.0                      | 2008036050                          | 2009036035                      |
| 37.0                      | 2008037050                          | 2009037035                      |
| 38.0                      | 2008038050                          | 2009038035                      |
| 39.0                      | 2008039050                          | 2009039035                      |
| 40.0                      | 2008040050                          | 2009040035                      |
| 41.0                      | 2008041050                          | 2009041035                      |
| 42.0                      | 2008042050                          | 2009042035                      |
| 43.0                      | 2008043050                          | 2009043035                      |
| 44.0                      | 2008044050                          | 2009044035                      |
| 45.0                      | 2008045050                          | 2009045035                      |
| 46.0                      | 2008046050                          | 2009046035                      |
| 47.0                      | 2008047050                          | 2009047035                      |
| 48.0                      | 2008048050                          | 2009048035                      |
| 49.0                      | 2008049050                          | 2009049035                      |
| 50.0                      | 2008050050                          | 2009050035                      |
| 51.0                      | 2008051050                          | 2009051035                      |
| 52.0                      | 2008052050                          | 2009052035                      |
| 53.0                      | 2008053050                          | 2009053035                      |
| 54.0                      | 2008054050                          | 2009054035                      |
| 55.0                      | 2008055050                          | 2009055035                      |
| 57.0                      | 2008057050                          | 2009057035                      |
| 58.0                      | 2008058050                          | 2009058035                      |
| 59.0                      | 2008059050                          | 2009059035                      |
| 60.0                      | 2008060050                          | 2009060035                      |
| 61.0                      | 2008061050                          | 2009061035                      |
| 62.0                      | 2008062050                          | 2009062035                      |
| 63.0                      | 2008063050                          | 2009063035                      |
| 64.0                      | 2008064050                          | 2009064035                      |
| 65.0                      | 2008065050                          | 2009065035                      |
| Ejector pin 6.35 x 106 mm | -                                   | 1936500                         |



Prod.-No. 2008...



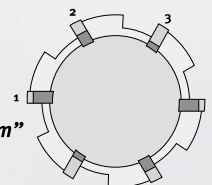
Threaded arbor M18 x 6P1.5



Prod.-No. 2009...



Prod.-No. 1936500



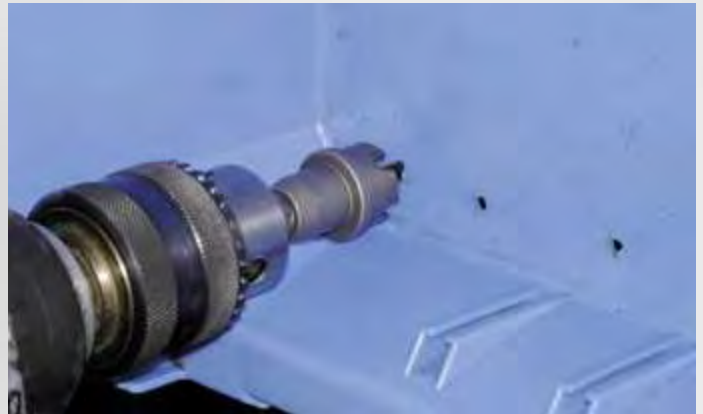
**ALFRA "Chip-Breaker System"**  
 1 Pre-cutter  
 2 Middle-cutter  
 3 Post-cutter



# TCT-HOLE SAWS IN USE



*TCT-Hole Saws – short-/long type*



*Plastic*



*TCT-Hole Saws – FRP type*



*Poroton brick stone*



*Stainless steel*





*TCT-Hole Saws – MBS type*



*Sanitary pipes – type SML*

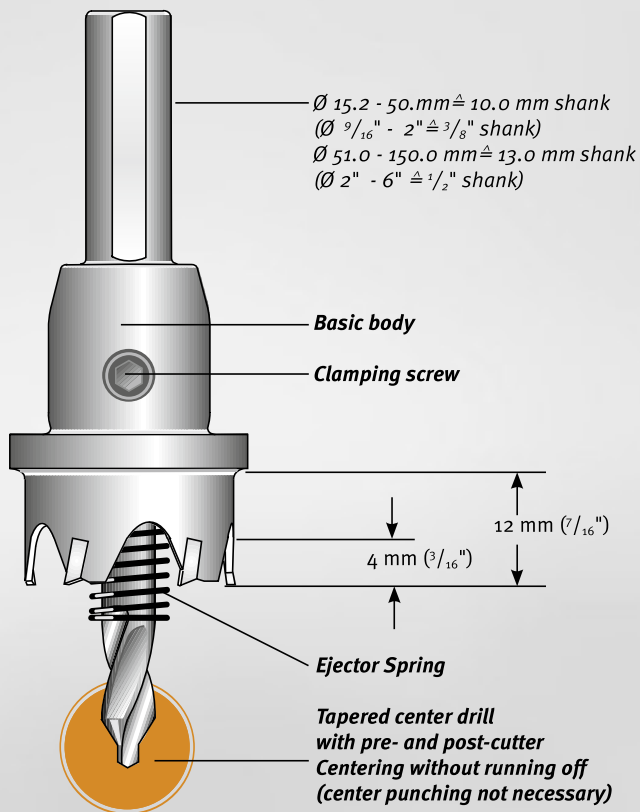


*Checker plate (stainless steel)*



**MBS Pro**  
*Use on Rotabest Magnetic Drilling Machine  
with MT3 – Arbor Prod.-No.: 0734003*

# ALFRA TCT-HOLE SAWS – SHORT TYPE



**EDELSTAHL**  
**STAINLESS STEEL**



The application area of TCT Hole Saws differs from HSS-Bi-Metal Hole Saws. With ALFRA TCT Hole Saws, suitable to economically process stainless steel up to 2 mm (1/16"), unalloyed steels up to 4 mm (3/16"), plastics, PVC, aluminium, zinc, gypsum plaster boards and lightweight building boards, as well as asbestos. Do not use automatic feed, when working with pillar drilling machines. For the use on portable- and pillar drilling machines. Do not use automatic feed, when working with pillar drilling machines.

## Features:

- High concentric running exactness through solid construction.
- CAD-optimized cutting angles with specially ground section ensures high cutting capacity and long tool life.
- Quick removal of drilled core through ejector spring for all hole saws up to 150 mm (5-29/32")  $\varnothing$ .
- Carbide tipping enables repeated re-grinding.
- ALFRA hole saws are repairable. In the event of a tooth breaking, it can easily be replaced and resharpened.
- Exchangeable center pin.
- Use of MT tool holders from  $\varnothing 31 \text{ mm}$  (1-7/32").
- For use on hand drilling machines (recommended up to max.  $\varnothing 40 \text{ mm}$ ; 1-9/16") or stationary machines.

## Tips:

- At thicker materials: cut 2-3 mm (1/16" - 7/64") per cutting process, remove chips afterwards.
- When cutting metals, a high-grade cutting oil should be used. Exception: Do not use cutting oil when using cast iron, use paraffin instead of oil when cutting aluminium.
- **Keep in mind: Always wear safety goggles.**

## Another special technical feature:

From  $\varnothing 15.2 \text{ mm}$  (3/16") to  $30.0 \text{ mm}$  (1-1/8"), the hole saw is made of one piece.  
 From  $\varnothing 31.0 \text{ mm}$  (1-3/16") we use specially hardened tool holders to compensate for the torsional power in case of heavy operation, which avoids early shearing off of the tool holder shank.  
 In terms of construction not comparable with any other make.



# ALFRA TCT-HOLE SAWS – SHORT TYPE

| Ø<br>mm | Ø<br>Inches | No. of<br>teeth | Prod.-No. | Ø<br>mm | Ø<br>Inches | No. of<br>teeth | Prod.-No. |
|---------|-------------|-----------------|-----------|---------|-------------|-----------------|-----------|
| Ø 15.2  |             | 4               | 0600152   | Ø 77.0  |             | 13              | 0600770   |
| Ø 16.0  | 5/8"        | 4               | 0600160   | Ø 78.0  | 3-1/16"     | 14              | 0600780   |
| Ø 17.0  |             | 4               | 0600170   | Ø 79.0  | 3-1/8"      | 14              | 0600790   |
| Ø 18.0  | 11/16"      | 4               | 0600180   | Ø 80.0  |             | 14              | 0600800   |
| Ø 18.6  |             | 4               | 0600186   | Ø 81.0  | 3-3/16"     | 14              | 0600810   |
| Ø 19.0  | 3/4"        | 4               | 0600190   | Ø 82.0  |             | 14              | 0600820   |
| Ø 20.0  |             | 5               | 0600200   | Ø 83.0  | 3-1/4"      | 14              | 0600830   |
| Ø 20.4  |             | 5               | 0600204   | Ø 84.0  | 3-5/16"     | 15              | 0600840   |
| Ø 21.0  | 13/16"      | 5               | 0600210   | Ø 85.0  |             | 15              | 0600850   |
| Ø 22.0  |             | 5               | 0600220   | Ø 86.0  | 3-3/8"      | 15              | 0600860   |
| Ø 22.5  |             | 5               | 0600225   | Ø 87.0  | 3-7/16"     | 15              | 0600870   |
| Ø 23.0  | 7/8"        | 5               | 0600230   | Ø 88.0  |             | 15              | 0600880   |
| Ø 24.0  | 15/16"      | 5               | 0600240   | Ø 89.0  | 3-1/2"      | 16              | 0600890   |
| Ø 25.0  |             | 5               | 0600250   | Ø 90.0  | 3-9/16"     | 16              | 0600900   |
| Ø 26.0  | 1"          | 5               | 0600260   | Ø 91.0  |             | 16              | 0600910   |
| Ø 27.0  | 1-1/16"     | 5               | 0600270   | Ø 92.0  | 3-5/8"      | 16              | 0600920   |
| Ø 28.0  |             | 5               | 0600280   | Ø 93.0  |             | 16              | 0600930   |
| Ø 28.3  |             | 5               | 0600283   | Ø 94.0  | 3-11/16"    | 16              | 0600940   |
| Ø 29.0  | 1-1/8"      | 5               | 0600290   | Ø 95.0  | 3-3/4"      | 17              | 0600950   |
| Ø 30.0  | 1-3/16"     | 5               | 0600300   | Ø 96.0  |             | 17              | 0600960   |
| Ø 31.0  |             | 6               | 0600310   | Ø 97.0  | 3-13/16"    | 17              | 0600970   |
| Ø 32.0  | 1-1/4"      | 6               | 0600320   | Ø 98.0  | 3-7/8"      | 17              | 0600980   |
| Ø 33.0  |             | 6               | 0600330   | Ø 99.0  |             | 17              | 0600990   |
| Ø 34.0  | 1-5/16"     | 6               | 0600340   | Ø 100.0 | 3-15/16"    | 17              | 0601000   |
| Ø 35.0  | 1-3/8"      | 6               | 0600350   | Ø 105.0 | 4"          | 18              | 0601050   |
| Ø 36.0  |             | 6               | 0600360   | Ø 110.0 |             | 18              | 0601100   |
| Ø 37.0  | 1-7/16"     | 7               | 0600370   | Ø 115.0 | 4-1/2"      | 20              | 0601150   |
| Ø 38.0  |             | 7               | 0600380   | Ø 120.0 |             | 20              | 0601200   |
| Ø 39.0  | 1-1/2"      | 7               | 0600390   | Ø 125.0 |             | 20              | 0601250   |
| Ø 40.0  | 1-9/16"     | 7               | 0600400   | Ø 130.0 | 5"          | 20              | 0601300   |
| Ø 41.0  |             | 8               | 0600410   | Ø 135.0 |             | 24              | 0601350   |
| Ø 42.0  | 1-5/8"      | 8               | 0600420   | Ø 140.0 | 5-1/2"      | 24              | 0601400   |
| Ø 43.0  | 1-11/16"    | 8               | 0600430   | Ø 145.0 |             | 24              | 0601450   |
| Ø 44.0  |             | 8               | 0600440   | Ø 150.0 |             | 24              | 0601500   |
| Ø 45.0  | 1-3/4"      | 8               | 0600450   |         |             |                 |           |
| Ø 46.0  |             | 8               | 0600460   |         |             |                 |           |
| Ø 47.0  | 1-13/16"    | 9               | 0600470   |         |             |                 |           |
| Ø 48.0  | 1-7/8"      | 9               | 0600480   |         |             |                 |           |
| Ø 49.0  |             | 9               | 0600490   |         |             |                 |           |
| Ø 50.0  | 1-15/16"    | 9               | 0600500   |         |             |                 |           |
| Ø 51.0  | 2"          | 9               | 0600510   |         |             |                 |           |
| Ø 52.0  |             | 10              | 0600520   |         |             |                 |           |
| Ø 53.0  | 2-1/16"     | 10              | 0600530   |         |             |                 |           |
| Ø 54.0  | 2-1/8"      | 10              | 0600540   |         |             |                 |           |
| Ø 55.0  |             | 10              | 0600550   |         |             |                 |           |
| Ø 56.0  | 2-3/16"     | 10              | 0600560   |         |             |                 |           |
| Ø 57.0  | 2-1/4"      | 10              | 0600570   |         |             |                 |           |
| Ø 58.0  |             | 10              | 0600580   |         |             |                 |           |
| Ø 59.0  | 2-5/16"     | 10              | 0600590   |         |             |                 |           |
| Ø 60.0  | 2-3/8"      | 10              | 0600600   |         |             |                 |           |
| Ø 61.0  |             | 11              | 0600610   |         |             |                 |           |
| Ø 62.0  | 2-7/16"     | 11              | 0600620   |         |             |                 |           |
| Ø 63.0  |             | 11              | 0600630   |         |             |                 |           |
| Ø 64.0  | 2-1/2"      | 11              | 0600640   |         |             |                 |           |
| Ø 65.0  |             | 11              | 0600650   |         |             |                 |           |
| Ø 66.0  | 2-9/16"     | 12              | 0600660   |         |             |                 |           |
| Ø 67.0  | 2-5/8"      | 12              | 0600670   |         |             |                 |           |
| Ø 68.0  |             | 12              | 0600680   |         |             |                 |           |
| Ø 69.0  | 2-11/16"    | 12              | 0600690   |         |             |                 |           |
| Ø 70.0  | 2-3/4"      | 12              | 0600700   |         |             |                 |           |
| Ø 71.0  |             | 12              | 0600710   |         |             |                 |           |
| Ø 72.0  | 2-13/16"    | 13              | 0600720   |         |             |                 |           |
| Ø 73.0  | 2-7/8"      | 13              | 0600730   |         |             |                 |           |
| Ø 74.0  | 2-15/16"    | 13              | 0600740   |         |             |                 |           |
| Ø 75.0  |             | 13              | 0600750   |         |             |                 |           |
| Ø 76.0  | 3"          | 13              | 0600760   |         |             |                 |           |



Prod.-No. 0600001

## Set Metric

| Set Metric | Prod.-No. |
|------------|-----------|
| Set Metric | 0600001   |

Contents:  
1 each of Ø 16 / 20 / 25 / 32 / 40 mm  
2 Allen Keys

## HSS-Spare Drill with tapered center tip

|                      |           |         |
|----------------------|-----------|---------|
| from Ø 15.2 - 100.0  | Ø 6x50 mm | 0602650 |
| from Ø 101.0 - 150.0 | Ø 8x50 mm | 0602850 |

## MT Arbors



|                          |         |
|--------------------------|---------|
| MT-2 (Ø 31.0 - 100.0 mm) | 0734002 |
| MT-3 (Ø 31.0 - 150.0 mm) | 0734003 |

## SDS Arbor

|   |         |
|---|---------|
| SDS arbor shank<br>(for use with Ø 31.0 - 100.0 mm) | 060sds6 |
|---|---------|

## Spare Ejector

|                     |        |         |
|---------------------|--------|---------|
| from Ø 15.2 - 150.0 | Ø 6 mm | 0602006 |
|---------------------|--------|---------|

## Coolant ALFRA

|  |       |
|--|-------|
| <b>ALFRA 2000</b><br>For mild steel DIN S233, 250 ml | 21010 |
|--|-------|

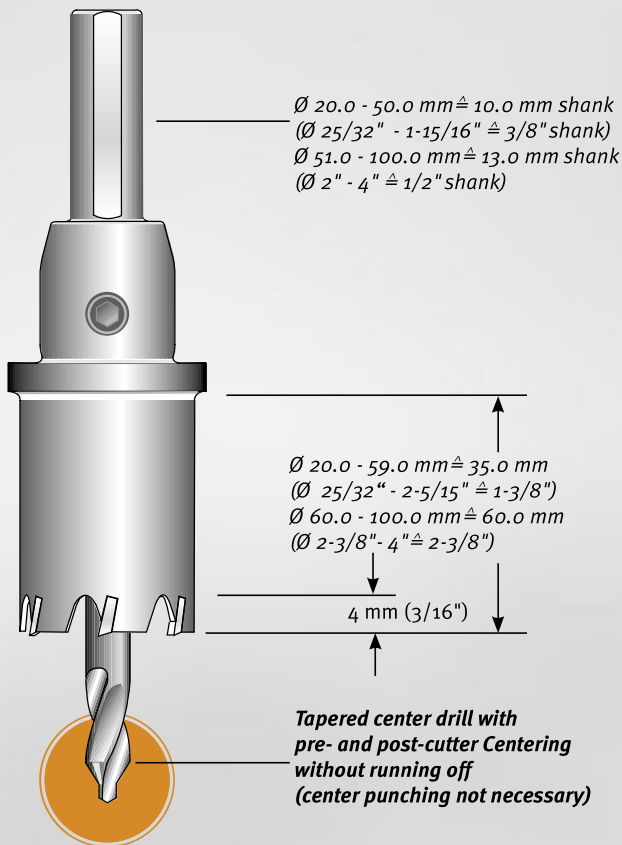
|   |       |
|---|-------|
| <b>ALFRA 4000</b><br>For titanium and manganese-carbon steels<br>300 ml | 21040 |
|---|-------|



Prod.-No. 21040

Prod.-No. 21010

# ALFRA TCT-HOLE SAWS – LONG TYPE



## Features:

- Especially developed for the use on pipes, vaulted materials, for unalloyed and alloyed steels, nonferrous metals, plastics as well as glass fibre reinforced plastic.
- For material thickness up to 4 mm (3/16"), 2 mm (1/16") stainless steel.
- For use on hand drilling machines, recommended up to max.  $\varnothing 40 \text{ mm}$  (1-9/16") or stationary machines.

## Tips:

- Start drilling operation with light pressure, when drilling pipes. Avoid pendulum motions.
- **Keep in mind: Always wear safety goggles.**



# ALFRA TCT-HOLE SAWS – LONG TYPE

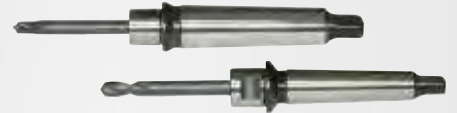
| Ø<br>mm | Ø<br>Inches | No. of<br>teeth | Prod.-No. | Ø<br>mm | Ø<br>Inches | No. of<br>teeth | Prod.-No. | Ø<br>mm | Ø<br>Inches | No. of<br>teeth | Prod.-No. |
|---------|-------------|-----------------|-----------|---------|-------------|-----------------|-----------|---------|-------------|-----------------|-----------|
| Ø 16.0  | 5/8"        | 4               | 0700160   | Ø 54.0  | 2-1/8"      | 12              | 0700540   | Ø 92.0  | 3-5/8"      | 20              | 0700920   |
| Ø 17.0  |             | 4               | 0700170   | Ø 55.0  |             | 12              | 0700550   | Ø 93.0  |             | 20              | 0700930   |
| Ø 18.0  | 11/16"      | 4               | 0700180   | Ø 56.0  | 2-3/16"     | 12              | 0700560   | Ø 94.0  | 3-11/16"    | 22              | 0700940   |
| Ø 19.0  | 3/4"        | 4               | 0700190   | Ø 57.0  | 2-1/4"      | 12              | 0700570   | Ø 95.0  | 3-3/4"      | 22              | 0700950   |
| Ø 20.0  |             | 5               | 0700200   | Ø 58.0  |             | 12              | 0700580   | Ø 96.0  |             | 22              | 0700960   |
| Ø 21.0  | 13/16"      | 5               | 0700210   | Ø 59.0  | 2-5/16"     | 12              | 0700590   | Ø 97.0  | 3-13/16"    | 22              | 0700970   |
| Ø 22.0  |             | 5               | 0700220   | Ø 60.0  | 2-3/8"      | 14              | 0700600   | Ø 98.0  | 3-7/8"      | 22              | 0700980   |
| Ø 23.0  | 7/8"        | 5               | 0700230   | Ø 61.0  |             | 14              | 0700610   | Ø 99.0  |             | 22              | 0700990   |
| Ø 24.0  | 15/16"      | 6               | 0700240   | Ø 62.0  | 2-7/16"     | 14              | 0700620   | Ø 100.0 | 3-15/16"    | 22              | 0701000   |
| Ø 25.0  |             | 6               | 0700250   | Ø 63.0  |             | 14              | 0700630   |         |             |                 |           |
| Ø 26.0  | 1"          | 6               | 0700260   | Ø 64.0  | 2-1/2"      | 14              | 0700640   |         |             |                 |           |
| Ø 27.0  | 1-1/16"     | 6               | 0700270   | Ø 65.0  |             | 14              | 0700650   |         |             |                 |           |
| Ø 28.0  |             | 6               | 0700280   | Ø 66.0  | 2-9/16"     | 14              | 0700660   |         |             |                 |           |
| Ø 29.0  | 1-1/8"      | 6               | 0700290   | Ø 67.0  | 2-5/8"      | 16              | 0700670   |         |             |                 |           |
| Ø 30.0  | 1-3/16"     | 6               | 0700300   | Ø 68.0  |             | 16              | 0700680   |         |             |                 |           |
| Ø 31.0  |             | 8               | 0700310   | Ø 69.0  | 2-11/16"    | 16              | 0700690   |         |             |                 |           |
| Ø 32.0  | 1-1/4"      | 8               | 0700320   | Ø 70.0  | 2-3/4"      | 16              | 0700700   |         |             |                 |           |
| Ø 33.0  |             | 8               | 0700330   | Ø 71.0  |             | 16              | 0700710   |         |             |                 |           |
| Ø 34.0  | 1-5/16"     | 8               | 0700340   | Ø 72.0  | 2-13/16"    | 16              | 0700720   |         |             |                 |           |
| Ø 35.0  | 1-3/8"      | 8               | 0700350   | Ø 73.0  | 2-7/8"      | 16              | 0700730   |         |             |                 |           |
| Ø 36.0  |             | 8               | 0700360   | Ø 74.0  | 2-15/16"    | 16              | 0700740   |         |             |                 |           |
| Ø 37.0  | 1-7/16"     | 8               | 0700370   | Ø 75.0  |             | 16              | 0700750   |         |             |                 |           |
| Ø 38.0  |             | 8               | 0700380   | Ø 76.0  | 3"          | 18              | 0700760   |         |             |                 |           |
| Ø 39.0  | 1-1/2"      | 8               | 0700390   | Ø 77.0  |             | 18              | 0700770   |         |             |                 |           |
| Ø 40.0  | 1-9/16"     | 10              | 0700400   | Ø 78.0  | 3-1/16"     | 18              | 0700780   |         |             |                 |           |
| Ø 41.0  |             | 10              | 0700410   | Ø 79.0  | 3-1/8"      | 18              | 0700790   |         |             |                 |           |
| Ø 42.0  | 1-5/8"      | 10              | 0700420   | Ø 80.0  |             | 18              | 0700800   |         |             |                 |           |
| Ø 43.0  | 1-11/16"    | 10              | 0700430   | Ø 81.0  | 3-3/16"     | 18              | 0700810   |         |             |                 |           |
| Ø 44.0  |             | 10              | 0700440   | Ø 82.0  |             | 18              | 0700820   |         |             |                 |           |
| Ø 45.0  | 1-3/4"      | 10              | 0700450   | Ø 83.0  | 3-1/4"      | 18              | 0700830   |         |             |                 |           |
| Ø 46.0  |             | 10              | 0700460   | Ø 84.0  | 3-5/16"     | 20              | 0700840   |         |             |                 |           |
| Ø 47.0  | 1-13/16"    | 10              | 0700470   | Ø 85.0  |             | 20              | 0700850   |         |             |                 |           |
| Ø 48.0  | 1-7/8"      | 10              | 0700480   | Ø 86.0  | 3-3/8"      | 20              | 0700860   |         |             |                 |           |
| Ø 49.0  |             | 10              | 0700490   | Ø 87.0  | 3-7/16"     | 20              | 0700870   |         |             |                 |           |
| Ø 50.0  | 1-15/16"    | 12              | 0700500   | Ø 88.0  |             | 20              | 0700880   |         |             |                 |           |
| Ø 51.0  | 2"          | 12              | 0700510   | Ø 89.0  | 3-1/2"      | 20              | 0700890   |         |             |                 |           |
| Ø 52.0  |             | 12              | 0700520   | Ø 90.0  | 3-9/16"     | 20              | 0700900   |         |             |                 |           |
| Ø 53.0  | 2-1/16"     | 12              | 0700530   | Ø 91.0  |             | 20              | 0700910   |         |             |                 |           |

## HSS-Spare Drill with tapered center tip



|                                |         |
|--------------------------------|---------|
| from Ø 20.0 - 59.0 Ø 6x80 mm   | 0702680 |
| from Ø 60.0 - 100.0 Ø 8x100 mm | 0702800 |

## MT Arbors



|                    |         |
|--------------------|---------|
| MT-2 (from Ø 31.0) | 0734002 |
| MT-3 (from Ø 31.0) | 0734003 |

## SDS Arbor



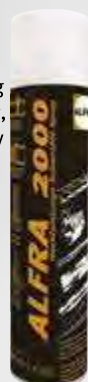
|  |         |
|--|---------|
| SDS arbor shank<br>(for use with Ø 31 - 59 mm) | 060sds6 |
|--|---------|

# HIGHLY RECOMMENDED ACCESSORIES – COOLANT AND LUBRICANT!

## ALFRA 2000

ALFRA 2000 is a fully synthetic cutting oil, developed for high-quality cutting, threading and drilling of metals of any degree of hardness, ferrous metal, steel alloys, stainless steel, copper, aluminum and their alloys.

ALFRA 2000 is free of hydrocarbon, sulphur and chlorine.



## ALFRA 4000

Suitable for core drilling applications with ALFRA cutters. Also ideal for twist drilling, thread tapping, reaming, countersinking, and difficult cutting applications. It meets the requirements of work hygiene and safety.

ALFRA 4000 is a pump spray, free from propellant gas ideal for drilling and tapping of high-alloy, stainless steels; chromium nickel steels; titanium and manganese-carbon steels



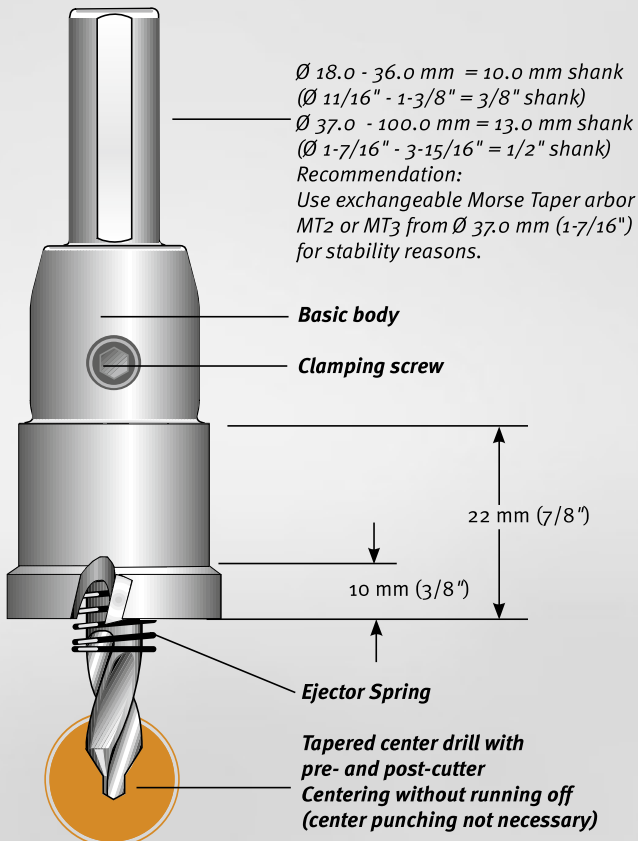
### Prod.-No.

|                          |       |
|--------------------------|-------|
| Aerosol can 250 ml       | 21010 |
| 5 ltr. Plastic container | 21012 |
| 60 ltr. Barrel           | 21021 |

### Prod.-No.

|                    |       |
|--------------------|-------|
| Aerosol can 300 ml | 21040 |
|--------------------|-------|

# ALFRA TCT-HOLE SAWS – MBS-LIGHT



This TCT Hole Saw is a multi-range Hole Saw for the universal use up to a material thickness of max. 10 mm (3/8'') (without ejector spring). Through its solid construction and an enhanced cutting geometry (Registered Utility Model No. 202 03 232 9), an improved cutting behaviour combined with a high cutting capacity and tool life, is achieved.

For the use on flat steel, as well as on pipes and vaulted materials. Cutting of overlapping holes is possible.

For use on stationary and hand drilling machines (recommended up to max.  $\varnothing 40 \text{ mm}$ ; 1-9/16'').

- **Portable drilling Machines:** up to 4 mm (1/8'') material thickness
- **Stationary drilling Machines:** up to 10 mm (3/8'') material thickness (for material thickness over 6 mm (15/64''), it is necessary to settle and empty the chips several times).

In case of heavy operation, we recommend Morse Taper Tool Holders, which are suitable from  $\varnothing 37 \text{ mm}$  (1-7/16'').

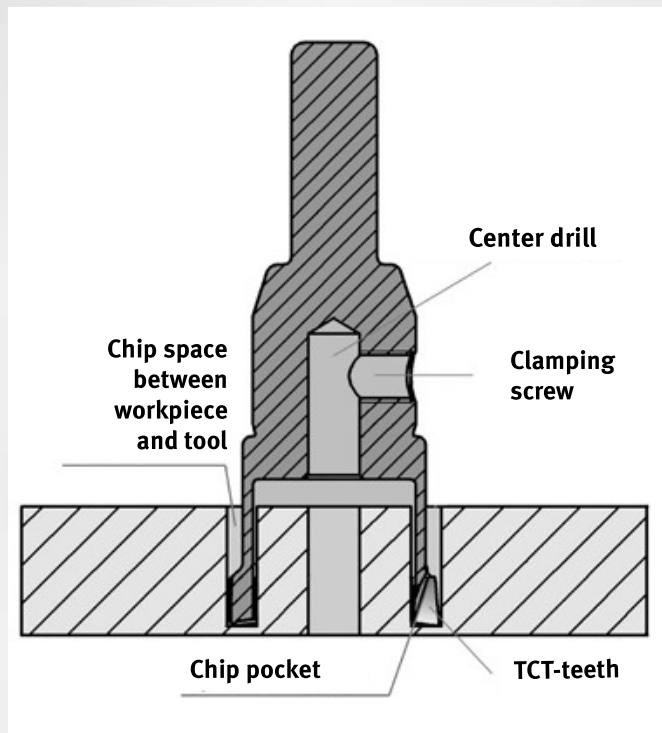
**Advantage:** All MBS-Light type TCT Hole Saws are equipped with an ejector spring. The cut material is self-ejecting.

#### Another special technical feature:

From  $\varnothing 37 \text{ mm}$  (1-7/16''), specially hardened tool holders are used to compensate for the torsional power in case of heavy operation which avoids early shearing off of the tool holder shank.

In terms of construction not comparable with any other make.

## MBS – for almost limitless use



# ALFRA TCT-HOLE SAWS – MBS-LIGHT

| Ø<br>mm | Ø<br>Inches | No. of<br>teeth | Prod.-No. | Ø<br>mm | Ø<br>Inches | No. of<br>teeth | Prod.-No. |
|---------|-------------|-----------------|-----------|---------|-------------|-----------------|-----------|
| Ø 18.0  | 11/16"      | 4               | 0730018   | Ø 79.0  | 3-1/8"      | 12              | 0730079   |
| Ø 18.6  |             | 4               | 07300186  | Ø 80.0  |             | 12              | 0730080   |
| Ø 19.0  | 3/4"        | 4               | 0730019   | Ø 81.0  | 3-3/16"     | 12              | 0730081   |
| Ø 20.0  |             | 4               | 0730020   | Ø 82.0  |             | 12              | 0730082   |
| Ø 20.4  |             | 4               | 07300204  | Ø 83.0  | 3-1/4"      | 12              | 0730083   |
| Ø 21.0  | 13/16"      | 4               | 0730021   | Ø 84.0  | 3-5/16"     | 12              | 0730084   |
| Ø 22.0  |             | 4               | 0730022   | Ø 85.0  |             | 12              | 0730085   |
| Ø 22.5  |             | 4               | 07300225  | Ø 86.0  | 3-3/8"      | 14              | 0730086   |
| Ø 23.0  | 7/8"        | 4               | 0730023   | Ø 87.0  | 3-7/16"     | 14              | 0730087   |
| Ø 24.0  | 15/16"      | 4               | 0730024   | Ø 88.0  |             | 14              | 0730088   |
| Ø 25.0  |             | 4               | 0730025   | Ø 89.0  | 3-1/2"      | 14              | 0730089   |
| Ø 26.0  | 1"          | 6               | 0730026   | Ø 90.0  | 3-9/16"     | 14              | 0730090   |
| Ø 27.0  | 1-1/16"     | 6               | 0730027   | Ø 91.0  |             | 14              | 0730091   |
| Ø 28.0  |             | 6               | 0730028   | Ø 92.0  | 3-5/8"      | 14              | 0730092   |
| Ø 29.0  | 1-1/8"      | 6               | 0730029   | Ø 93.0  |             | 14              | 0730093   |
| Ø 30.0  | 1-3/16"     | 6               | 0730030   | Ø 94.0  | 3-11/16"    | 14              | 0730094   |
| Ø 31.0  |             | 6               | 0730031   | Ø 95.0  | 3-3/4"      | 14              | 0730095   |
| Ø 32.0  | 1-1/4"      | 6               | 0730032   | Ø 96.0  |             | 14              | 0730096   |
| Ø 33.0  |             | 6               | 0730033   | Ø 97.0  | 3-13/16"    | 14              | 0730097   |
| Ø 34.0  | 1-5/16"     | 6               | 0730034   | Ø 98.0  | 3-7/8"      | 14              | 0730098   |
| Ø 35.0  | 1-3/8"      | 6               | 0730035   | Ø 99.0  |             | 14              | 0730099   |
| Ø 36.0  |             | 6               | 0730036   | Ø 100.0 | 3-15/16"    | 14              | 0730100   |

From Ø 37.0 mm (1-7/16") we recommend the use of MT arbors

|        |          |    |         |
|--------|----------|----|---------|
| Ø 37.0 | 1-7/16"  | 6  | 0730037 |
| Ø 38.0 |          | 6  | 0730038 |
| Ø 39.0 | 1-1/2"   | 6  | 0730039 |
| Ø 40.0 | 1-9/16"  | 6  | 0730040 |
| Ø 41.0 |          | 6  | 0730041 |
| Ø 42.0 | 1-5/8"   | 6  | 0730042 |
| Ø 43.0 | 1-11/16" | 6  | 0730043 |
| Ø 44.0 |          | 6  | 0730044 |
| Ø 45.0 | 1-3/4"   | 6  | 0730045 |
| Ø 46.0 |          | 6  | 0730046 |
| Ø 47.0 | 1-13/16" | 6  | 0730047 |
| Ø 48.0 | 1-7/8"   | 6  | 0730048 |
| Ø 49.0 |          | 6  | 0730049 |
| Ø 50.0 | 1-15/16" | 6  | 0730050 |
| Ø 51.0 | 2"       | 6  | 0730051 |
| Ø 52.0 |          | 6  | 0730052 |
| Ø 53.0 | 2-1/16"  | 6  | 0730053 |
| Ø 54.0 | 2-1/8"   | 6  | 0730054 |
| Ø 55.0 |          | 6  | 0730055 |
| Ø 56.0 | 2-3/16"  | 6  | 0730056 |
| Ø 57.0 | 2-1/4"   | 6  | 0730057 |
| Ø 58.0 |          | 6  | 0730058 |
| Ø 59.0 | 2-5/16"  | 6  | 0730059 |
| Ø 60.0 | 2-3/8"   | 8  | 0730060 |
| Ø 61.0 |          | 8  | 0730061 |
| Ø 62.0 | 2-7/16"  | 8  | 0730062 |
| Ø 63.0 |          | 8  | 0730063 |
| Ø 64.0 | 2-1/2"   | 8  | 0730064 |
| Ø 65.0 |          | 8  | 0730065 |
| Ø 66.0 | 2-9/16"  | 8  | 0730066 |
| Ø 67.0 | 2-5/8"   | 8  | 0730067 |
| Ø 68.0 |          | 8  | 0730068 |
| Ø 69.0 | 2-11/16" | 8  | 0730069 |
| Ø 70.0 | 2-3/4"   | 8  | 0730070 |
| Ø 71.0 |          | 10 | 0730071 |
| Ø 72.0 | 2-13/16" | 10 | 0730072 |
| Ø 73.0 | 2-7/8"   | 10 | 0730073 |
| Ø 74.0 | 2-15/16" | 10 | 0730074 |
| Ø 75.0 |          | 10 | 0730075 |
| Ø 76.0 | 3"       | 10 | 0730076 |
| Ø 77.0 |          | 12 | 0730077 |
| Ø 78.0 | 3-1/16"  | 12 | 0730078 |



Drilling in checker sheet



Drilling in square profiles



Drilling in flat steel



Drilling in pipes

## HSS-Spare Drill with tapered center tip



from Ø 18.0 - 60.0 Ø 6x50 mm 0602650  
 from Ø 61.0 - 100.0 Ø 8x50 mm 0602850  
 (old design)

## MT Arbors



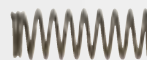
MT-2 (from Ø 37.0 mm) 0734002  
 MT-3 (from Ø 37.0 mm) 0734003

## Weldon adaptor



from Ø 37.0 mm 060WD  
 (incl. ejector pin Prod. No. 1950500)

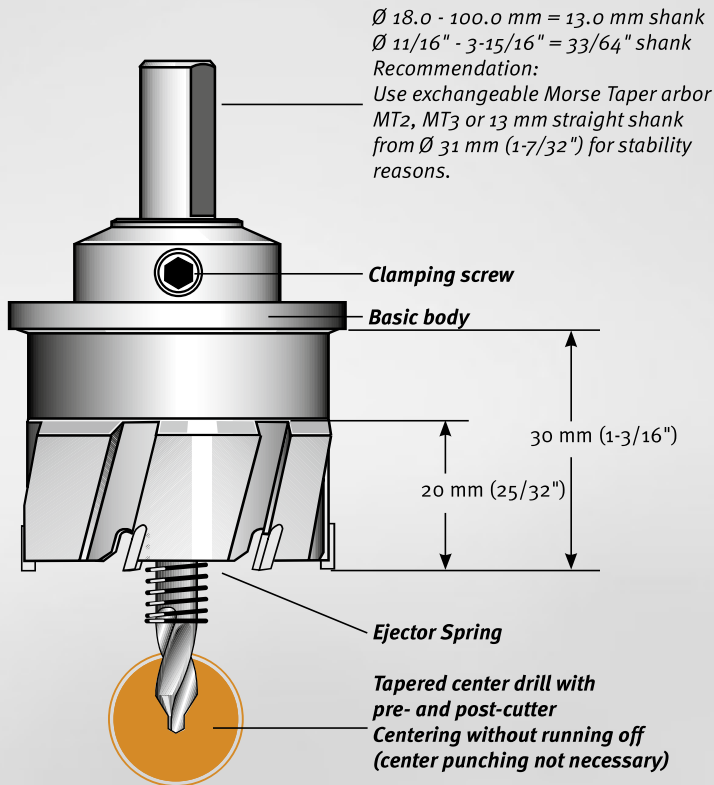
## Spare Ejector



For tapered center drill  
 from Ø 18.0 - 60.0 mm Ø 6 mm 0732006  
 from Ø 61.0 - 100.0 mm Ø 8 mm 0732008



# ALFRA TCT-HOLE SAWS – MBS-PRO



**EDELSTAHL**  
**STAINLESS STEEL**



MBS-Multirange Hole Saws for universal use. **Max. cutting depth 20 mm (25/32")**

Suitable for flat materials but also for pipes and curved surfaces. Cutting of overlapping holes is possible. CAD optimized precision tools with high cutting performance and durability.

For use on stationary and portable drilling machines (recommended up to max. Ø 40 mm; 1-9/16")

- **Portable drilling Machines:** up to 6 mm (15/64") material thickness
- **Stationary drilling Machines:** up to 20 mm (25/32") material thickness at cutting depths from 6 mm (15/64") we recommend clearing the chips.

MBS hole saws can be resharpened, and it is possible to replace broken out teeth depending on the condition of the hole saw.

**Advantages:** All Alfra TCT Hole Saws MBS-Pro type are equipped with an ejector spring. The cut material is self-ejecting.

Another special technical feature:  
From Ø 31 mm (1-7/32"), we use specially hardened tool holders to compensate for the torsional power in case of heavy operation, which avoids early shearing off of the tool holder shank.  
In terms of construction not comparable with any other make.

## MBS – for almost limitless use

e.g., on Rotabest Magnetic Drilling Machine (with MT2 or MT3 – arbors) and Weldon adaptor Prod.-No. 060WD on Machines with Weldon Shank.

