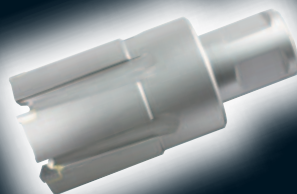
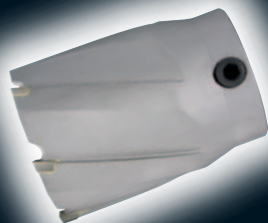


Metal Core Cutters have got a name

ALFRA ROTABEST®



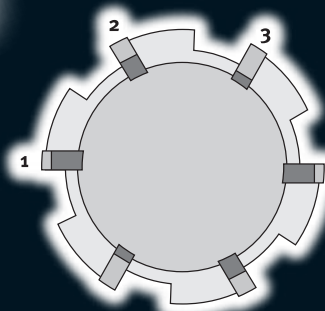
► CARBIDE-TIPPED



Applicable on magnetic and column drills. For structural steels, difficult-to-machine materials such as chrome-nickel steels and for non-ferrous metals such as aluminium or Cu-Zn alloys, and much more.

Advantages of ALFRA ROTABEST® TCT Cutters

- 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 center
- Minimal torque
- Low energy consumption
- Rapid drill core removal by ejector pin
- Extended tool life

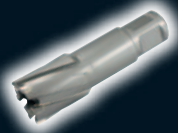


ALFRA "Chip-Breaker System"

Extremely precise drilling in 3 simple steps.

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

B



ALFRA ROTABEST® – TGT CUTTERS

With 19.0 mm Weldon shank

- With 19.0 mm Weldon shank,
- Internal bore: Ø 14 - 17 mm = 6.35 mm
Ø 18 - 50 mm = 8.0 mm
- Polished section: pre-, middle- and post-cutters
- For the highest standards in cutting and lifespan.

Suitable for:

All magnetic drilling machines with Weldon shank. ALFRA-Rotabest® (Weldon), ALFRA-RotaQuick® quick-change system, for BDS, Bux, Ruko, Magnetor, Euroboor, Universal, Nitto, Jancy, Hougen, Magtron, Promac, Rotabroach, etc.

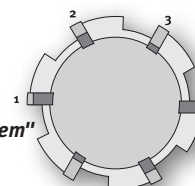


Ø in mm Cutting depth 35 mm Prod.-No.

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
36.0	-
37.0	-
38.0	-
39.0	-
40.0	-
41.0	-
42.0	-
43.0	-
44.0	-
45.0	-
46.0	-
47.0	-
48.0	-
49.0	-
50.0	-
Ejector pin for Ø 14 - 17 mm, 6.35 x 87 mm	1935500
Ejector pin for Ø 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 Ø 14 - 17 mm, 6.35 x 102	1950500
Ejector pin for Ø 18 - 50 mm, 8 x 102 mm	2001501



ALFRA "Chip-Breaker System"

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



ALFRA ROTABEST® – TCT CUTTERS



Suitable for all core drilling, pillar drilling and milling machines

- Heavy industry design with **keyway and feather key**
- Long-term tests series have shown that this specialised design with keyway and feather key has proved outstanding compared to a standard 32 mm Weldon shank. Optimal containment of high torsion forces.
- Polished section: pre-, middle- and post-cutters.
- Required: Tool holder with internal cooling

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



Shorter and sturdier tool design. ALFRA design. Excellent running precision.

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
■ No mass production		
Ejector pin 8 x 102 mm		2001501
AL 2/MT 2 tool holder		20220
AL 3/MT 3 tool holder		20230
AL 4/MT 4 tool holder		20240
AL 5/MT 5 tool holder		20250

Advantages of "Heavy Industry Design" ALFRA TCT Cutters

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



Prod.-No. 20230



ALFRA ROTABEST® – TGT CUTTERS RAIL

With 19.0 mm Weldon shank



- With 19.0 mm Weldon shank,
- Internal bore 6.35 mm
- For the highest standards in cutting and lifespan when drilling railway tracks
- Polished section: pre-, middle- and post-cutters

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

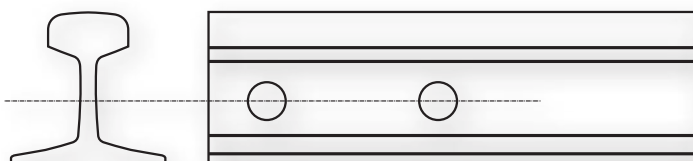


Ø in mm Cutting depth 25 mm Prod.-No.

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

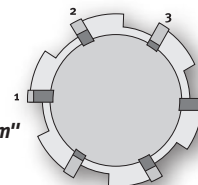
Ø in mm Cutting depth 50 mm Prod.-No.

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



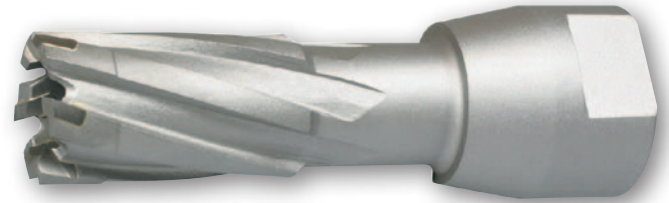


ALFRA – TGT CUTTERS SUITABLE FOR FEIN + HITACHI



- 2008... with Threaded arbor, internal thread, M18 x 6P 1.5.
- Also compatible with Hitachi machines.
- 2009... with Quick IN Arbor.
- Suitable for FEIN magnetic drilling machines with Quick IN arbor.

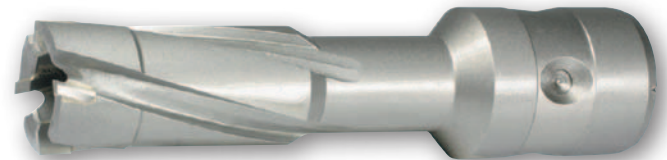
Ø in mm	Prod.-No. M18 x 6P 1.5 Cutting depth 50 mm	Prod.-No. Quick IN Cutting depth 35 mm
12.0	2008012050	2009012035
13.0	2008013050	2009013035
14.0	2008014050	2009014035
15.0	2008015050	2009015035
16.0	2008016050	2009016035
17.0	2008017050	2009017035
18.0	2008018050	2009018035
19.0	2008019050	2009019035
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...



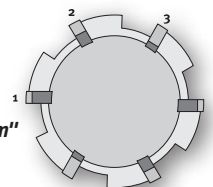
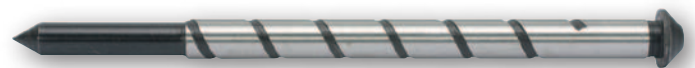
Threaded arbor, M18 x 6P1,5



Prod.-No. 2009...



Prod.-No. 1936500



ALFRA "Chip-Breaker System"

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