

ALFRA - HOLE SAWS

THE QUALITY IS IN THE DETAILS

Made in
Germany

- 1 FIXATION ARBOR-SHANK
- 2 FIXING SCREW FOR CENTER DRILL
- 3 EJECTOR HOLES
- 4 THE EJECTOR SPRING EJECTS THE WASTE AND PROTECTS THE TCT-TEETH WHEN CENTER DRILLING
- 5 TAPERED CENTER DRILL, CENTERING WITHOUT RUNNING OFF (CENTER PUNCHING NOT NECESSARY)

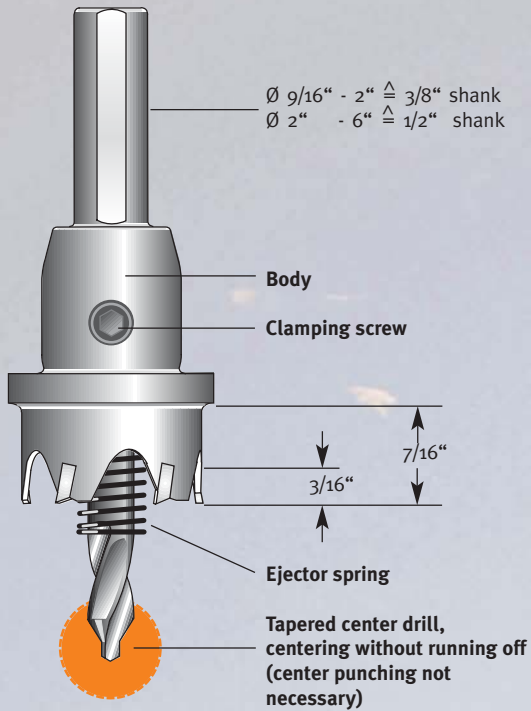


TUNGSTEN-CARBIDE-TIPPED-HOLE SAWS

SHORT TYPE



MADE IN GERMANY BY ALFRA

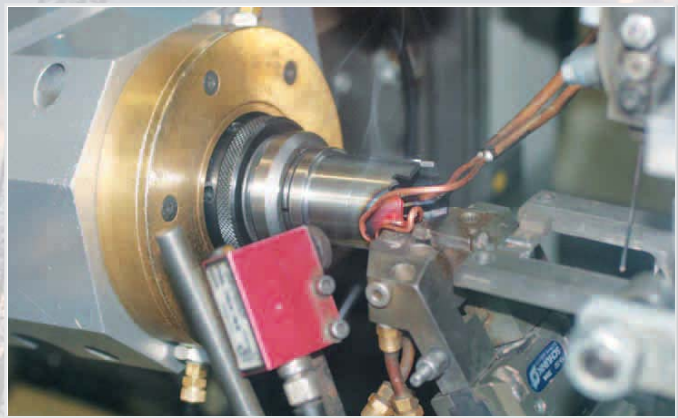


All Tungsten-Carbide-Tipped Hole Saws are equipped with an ejector spring. The cut material will be ejected automatically.

Short type version for material thicknesses up to 4 mm

ALFRA Tungsten-Carbide-tipped Hole Saws for Hand- and Pillar Drilling Machines are universal cutters, suitable for stainless steels up to 1/16", unalloyed steels up to 3/16", asbestos, glass fibre and plastics, PVC, aluminium, zinc and gypsum plaster boards.

- 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.
- Repeated re-grinding possible.
- ALFRA Hole Saws are repairable. Tooth replacement possible.
- Exchangeable center drill.



Another exceptional feature:

From $\varnothing 9/16''$ to 1-1/8", the Hole Saw is made of one piece. From $\varnothing 1-3/16''$ we use special hardened tool holders to absorb heavy duty torsion forces and subsequently to avoid a shearing off of the shank. **Incomparable with any of our competitors makes.**

TUNGSTEN-CARBIDE-TIPPED-HOLE SAWS SHORT TYPE

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Ø inch	Ø Metric mm	No. of teeth	Prod.-No.
9/16"	15,2	4	0600152
5/8"	16	4	0600160
	17	4	0600170
11/16"	18	4	0600180
	18,6	4	0600186
3/4"	19	4	0600190
	20	5	0600200
	20,4	5	0600204
13/16"	21	5	0600210
	22	5	0600220
	22,5	5	0600225
7/8"	23	5	0600230
15/16"	24	5	0600240
	25	5	0600250
1"	26	5	0600260
1-1/16"	27	5	0600270
	28	5	0600280
	28,3	5	0600283
1-1/8"	29	5	0600290
	30	5	0600300
1-3/16"	31	6	0600310
1-1/4"	32	6	0600320
	33	6	0600330
1-5/16"	34	6	0600340
1-3/8"	35	6	0600350
	36	6	0600360
1-7/16"	37	7	0600370
	38	7	0600380
1-1/2"	39	7	0600390
1-9/16"	40	7	0600400
	41	8	0600410
1-5/8"	42	8	0600420
1-11/16"	43	8	0600430
	44	8	0600440
1-3/4"	45	8	0600450
	46	8	0600460
1-13/16"	47	9	0600470
1-7/8"	48	9	0600480
	49	9	0600490
1-15/16"	50	9	0600500
2"	51	9	0600510
2-1/16"	52	10	0600520
	53	10	0600530
2-1/8"	54	10	0600540
	55	10	0600550
2-3/16"	56	10	0600560
2-1/4"	57	10	0600570
	58	10	0600580
2-5/16"	59	10	0600590
2-3/8"	60	10	0600600
	61	11	0600610
2-7/16"	62	11	0600620
	63	11	0600630
2-1/2"	64	11	0600640
	65	11	0600650
2-9/16"	66	12	0600660
2-5/8"	67	12	0600670
	68	12	0600680
2-11/16"	69	12	0600690
2-3/4"	70	12	0600700
	71	12	0600710
2-13/16"	72	13	0600720
2-7/8"	73	13	0600730
	74	13	0600740
2-15/16"	75	13	0600750

Ø inch	Ø Metric mm	No. of teeth	Prod.-No.
3"	76	13	0600760
	77	13	0600770
3-1/16"	78	14	0600780
3-1/8"	79	14	0600790
	80	14	0600800
3-3/16"	81	14	0600810
	82	14	0600820
3-1/4"	83	14	0600830
3-5/16"	84	15	0600840
	85	15	0600850
3-3/8"	86	15	0600860
3-7/16"	87	15	0600870
	88	15	0600880
3-1/2"	89	16	0600890
3-9/16"	90	16	0600900
	91	16	0600910
3-5/8"	92	16	0600920
	93	16	0600930
3-11/16"	94	16	0600940
3-3/4"	95	17	0600950
	96	17	0600960
3-13/16"	97	17	0600970
3-7/8"	98	17	0600980
	99	17	0600990
3-15/16"	100	17	0601000
4"	105	18	0601050
	110	18	0601100
4-1/2"	115	20	0601150
	120	20	0601200
	125	20	0601250
5"	130	20	0601300
	135	24	0601350
5-1/2"	140	24	0601400
	145	24	0601450
	150	24	0601500



Prod.-No. 0600001

Set Metric

Set Metric

Prod.-No.
0600001

Content:

- 1 each of Ø 5/8"-13/16"-1"-1-1/4"-1-9/16"
- 2 Allen Keys

HSS-Spare Drill with tapered center tip

from Ø 9/16" - 4" Ø 3/16" 0602660
from Ø 4" - 6" Ø 5/16" 0602860

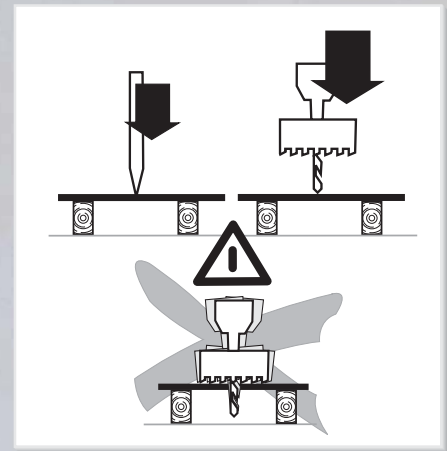


From Ø 1-3/16" we recommend Tool Holders MT2 and MT3.

MT-2 (up to Ø 4") 0734002
MT-3 (up to Ø 6") 0734003

Spare ejector spring

from Ø 9/16" - 4" Ø 3/16" 0602006



Please notice our tips of application:

- Tungsten-Carbide-Tipped-Hole Saws cannot be used with impact drilling machines!
- Determine center of the hole. Set Drill tip. Drill with slight pressure – until the center hole is done.
- **Attention:** do not push too hard, to avoid an impact of the Tungsten-Carbide-Tipped-teeth.
- Once the Tungsten-Carbide-Tipped-teeth touch the material, drill with slight and **steady** pressure.
- Pay attention to **constant rotation** speed and use our **coolant ALFRA 3000** when drilling chrome-nickel steels or **ALFRA BIO 2000** when drilling mild steel.
- **Do not move the drilling machine in pendulum motion**, otherwise danger of tooth break, due to one-sided stressing of the teeth. Pay attention to the given speed chart and re-sharpen in time.