









TYPES OF MATERIAL USED IN THE CONSTRUCTION OF HELICAL TIPS

	Type	Description	Duration	Processable metals
HSS	 ST1Ax	HSS, High Speed Steel, is the most common of all metal tool steels. A tool made of HSS has high hardness and good strength.	**	Alloy and non-alloy steels, non-ferrous metals, grey and malleable cast iron, sintered iron
	 P023-			
	 ST2Ax			
HSS-TiN	 P058-	The titanium coating, carried out to a HSS tool forms a harder and stronger alloy. This leads to a drill capable of machining the same materials as HSS but with much reduced cutting edge wear.	****	Alloy and non-alloy steels, non-ferrous metals, malleable cast iron, sintered iron
HSS-Co5%	 P065-	Cobalt, added to a steel tool such as HSS - in this case 5% - gives strength and resistance and increases the hardness of the tool itself. Cobalt retains its properties at a higher temperature than titanium, which makes it possible to drill at a higher speed and under more critical conditions.	*****	Hard and treated steels, stainless steels, chrome-nickel, cast iron and bronze
HSS-Co8%	 P064-	Cobalt, added to a steel tool such as HSS - in this case 8% - gives strength and resistance and increases the hardness of the tool itself. Cobalt retains its properties at a higher temperature than titanium, which makes it possible to drill at a higher speed and under more critical conditions.	*****	Hard and treated steels, stainless steels, chrome-nickel, cast iron and bronze

DRILLING PARAMETERS BY MATERIAL TYPE HSS, HSS-CO5% AND HSS-CO8% DRILL TIPS

Materials to be processed	Tip type	Peripheral speed Vc (m/min)	Tip diameter				Coolant
			2	5	8	12	
			Feed (mm/revolution)				
Non-alloy structural steel R<600N/mm ²	HSS	20 - 25	0,05	0,12	0,20	0,25	Emulsion
	HSS-Tin	25 - 30					
Low alloy construction steel R< 700÷900N/mm ²	HSS	10 - 12	0,03	0,07	0,10	0,16	Emulsion
	HSS-Tin	15 - 18					
Alloy steel R< 1100÷1300N/mm ²	HSS	6 - 8	0,02	0,05	0,08	0,12	Emulsion
	HSS-Tin	8 - 10					
Stainless steel	Hss-Co5%	6 - 8	0,02	0,05	0,08	0,12	Emulsion
	Hss-Co8%	8 - 10					
Grey Cast Iron 200HB	HSS	15 - 20	0,02	0,12	0,20	0,25	No refriger.
	HSS-Tin	20 - 25					
Grey Cast Iron 350HB	HSS	5 - 10	0,03	0,07	0,10	0,16	No refriger.
	HSS-Tin	20 - 25					
Bronze	HSS	20 - 30	0,05	0,08	0,14	0,20	Emulsion or Oil
Brass	HSS	40 - 70	0,06	0,16	0,22	0,32	
Aluminium	HSS	40 - 80	0,05	0,14	0,18	0,22	Emulsion
Aluminium alloys	HSS	30 - 60	0,05	0,14	0,18	0,22	



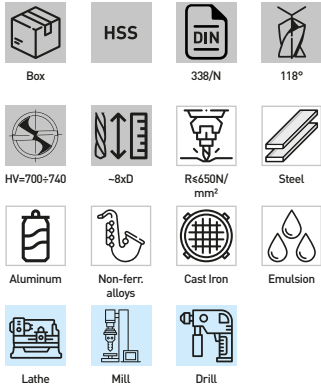
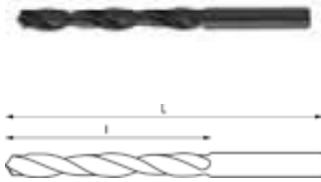
THEORETICAL NUMBER OF RPM FOR THE USE OF HELICAL TIPS ACCORDING TO THE CHOSEN V_c

∅	Cutting speed V_c (mt/min)																	
	3	4	5	6	8	10	12	15	18	20	25	30	35	40	50	60	70	80
(mm)	Number of revolutions per minute (rpm)																	
2	478	637	796	955	1274	1592	1911	2389	2866	3185	3981	4777	5573	6369	7962	9554	11146	12739
3	318	425	531	637	849	1062	1274	1592	1911	2123	2654	3185	3715	4246	5308	6369	7431	8493
4	239	318	398	478	637	796	955	1194	1433	1592	1990	2389	2787	3185	3981	4777	5573	6369
5	191	255	318	382	510	637	764	955	1146	1274	1592	1911	2229	2548	3185	3822	4459	5096
6	159	212	265	318	425	531	637	796	955	1062	1327	1592	1858	2123	2654	3185	3715	4246
8	119	159	199	239	318	398	478	597	717	796	995	1194	1393	1592	1990	2389	2787	3185
10	96	127	159	191	255	318	382	478	573	637	796	955	1115	1274	1592	1911	2229	2548
12	80	106	133	159	212	265	318	398	478	531	663	796	929	1062	1327	1592	1858	2123



ST1AX
STRAIGHT SHANK TWIST DRILL

10 mm reduced shank rolled twist drill, right hand, black finish.



Art.	∅	L	l	Pack
ST1A01	1,00 mm	34 mm	12 mm	10
ST1A01.25	1,25 mm	38 mm	16 mm	10
ST1A01.50	1,50 mm	40 mm	18 mm	10
ST1A01.75	1,75 mm	46 mm	22 mm	10
ST1A02	2,00 mm	49 mm	24 mm	10
ST1A02.25	2,25 mm	53 mm	27 mm	10
ST1A02.50	2,50 mm	57 mm	30 mm	10
ST1A02.75	2,75 mm	61 mm	33 mm	10
ST1A03	3,00 mm	61 mm	33 mm	10
ST1A03.25	3,25 mm	65 mm	36 mm	10
ST1A03.50	3,50 mm	70 mm	39 mm	10
ST1A03.75	3,75 mm	70 mm	39 mm	10
ST1A04	4,00 mm	75 mm	43 mm	10
ST1A04.25	4,25 mm	75 mm	43 mm	10
ST1A04.50	4,50 mm	80 mm	47 mm	10
ST1A04.75	4,75 mm	80 mm	47 mm	10
ST1A05	5,00 mm	86 mm	52 mm	10
ST1A05.25	5,25 mm	86 mm	52 mm	10
ST1A05.50	5,50 mm	93 mm	57 mm	10
ST1A05.75	5,75 mm	93 mm	57 mm	10
ST1A06	6,00 mm	93 mm	57 mm	10
ST1A06.25	6,25 mm	101 mm	63 mm	10
ST1A06.50	6,50 mm	101 mm	63 mm	10
ST1A06.75	6,75 mm	109 mm	69 mm	10
ST1A07	7,00 mm	109 mm	69 mm	10
ST1A07.25	7,25 mm	109 mm	69 mm	10
ST1A07.50	7,50 mm	109 mm	69 mm	10
ST1A07.75	7,75 mm	117 mm	75 mm	10
ST1A08	8,00 mm	117 mm	75 mm	10
ST1A08.25	8,25 mm	117 mm	75 mm	5
ST1A08.50	8,50 mm	117 mm	75 mm	5
ST1A08.75	8,75 mm	125 mm	81 mm	5
ST1A09	9,00 mm	125 mm	81 mm	5
ST1A09.25	9,25 mm	125 mm	81 mm	5
ST1A09.50	9,50 mm	125 mm	81 mm	5
ST1A09.75	9,75 mm	133 mm	87 mm	5
ST1A10	10,00 mm	133 mm	87 mm	5
ST1A10.25	10,25 mm	133 mm	87 mm	5
ST1A10.50	10,50 mm	133 mm	87 mm	5
ST1A10.75	10,75 mm	142 mm	94 mm	5
ST1A11	11,00 mm	142 mm	94 mm	5
ST1A11.25	11,25 mm	142 mm	94 mm	5
ST1A11.50	11,50 mm	142 mm	94 mm	5
ST1A11.75	11,75 mm	142 mm	94 mm	5
ST1A12	12,00 mm	151 mm	101 mm	5
ST1A12.25	12,25 mm	151 mm	101 mm	5
ST1A12.50	12,50 mm	151 mm	101 mm	5
ST1A12.75	12,75 mm	151 mm	101 mm	5
ST1A13	13,00 mm	151 mm	101 mm	5

P046
TWIST DRILL SET

Right hand, black finish.



Size (step 0,5 mm) 1 ÷ 13 mm

P045
TWIST DRILL SET

Right hand, black finish.



Size (step 0,5 mm) 1÷10 mm

ST1AXC
STRAIGHT SHANK TWIST DRILL

Rolled, right hand, short length, black finish.



Art.	∅	L	l	Pack
ST1A02.00C	2,00 mm	38 mm	12 mm	10
ST1A02.50C	2,50 mm	43 mm	14 mm	10
ST1A03.00C	3,00 mm	46 mm	16 mm	10
ST1A03.25C	3,25 mm	49 mm	18 mm	10
ST1A03.50C	3,50 mm	52 mm	20 mm	10
ST1A03.75C	3,75 mm	52 mm	20 mm	10
ST1A04.00C	4,00 mm	55 mm	22 mm	10
ST1A04.25C	4,25 mm	55 mm	22 mm	10
ST1A04.50C	4,50 mm	58 mm	24 mm	10
ST1A05.00C	5,00 mm	62 mm	26 mm	10
ST1A05.50C	5,50 mm	66 mm	28 mm	10
ST1A06.00C	6,00 mm	66 mm	28 mm	10



ST1AXR10

STRAIGHT SHANK TWIST DRILL

10 mm reduced shank rolled twist drill, right hand, black finish.



Art.	Ø	L	l	Pack
ST1A10.25R10	10,25 mm	133 mm	87 mm	5
ST1A10.50R10	10,5 mm	133 mm	87 mm	5
ST1A10.75R10	10,75 mm	142 mm	94 mm	5
ST1A11.00R10	11,00 mm	142 mm	94 mm	5
ST1A11.25R10	11,25 mm	142 mm	94 mm	5
ST1A11.50R10	11,5 mm	142 mm	94 mm	5
ST1A11.75R10	11,75 mm	142 mm	94 mm	5
ST1A12.00R10	12 mm	151 mm	101 mm	5
ST1A12.25R10	12,25 mm	151 mm	101 mm	5
ST1A12.50R10	12,50 mm	151 mm	101 mm	5
ST1A12.75R10	12,75 mm	151 mm	101 mm	5
ST1A13.00R10	13 mm	151 mm	101 mm	5
ST1A13.25R10	13,25 mm	160 mm	108 mm	5
ST1A13.50R10	13,5 mm	160 mm	108 mm	5
ST1A13.75R10	13,75 mm	160 mm	108 mm	5
ST1A14.00R10	14,00 mm	160 mm	108 mm	5
ST1A14.25R10	14,25 mm	169 mm	114 mm	5
ST1A14.50R10	14,5 mm	169 mm	114 mm	5
ST1A14.75R10	14,75 mm	169 mm	114 mm	5
ST1A15.00R10	15 mm	169 mm	114 mm	5
ST1A15.25R10	15,25 mm	178 mm	120 mm	5
ST1A15.50R10	15,50 mm	178 mm	120 mm	5
ST1A15.75R10	15,75 mm	178 mm	120 mm	5
ST1A16.00R10	16 mm	178 mm	120 mm	5

ST1AXR13

STRAIGHT SHANK TWIST DRILL

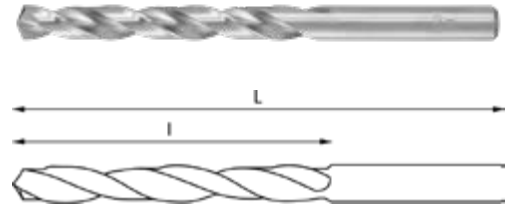
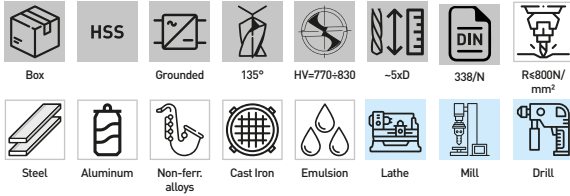
13 mm reduced shank rolled twist drill, right hand, black finish.



Art.	Ø	L	l	Pack
ST1A13.25R13	13,25 mm	160 mm	108 mm	5
ST1A13.50R13	13,50 mm	160 mm	108 mm	5
ST1A13.75R13	13,75 mm	160 mm	108 mm	5
ST1A14.00R13	14,00 mm	160 mm	108 mm	5
ST1A14.25R13	14,25 mm	169 mm	114 mm	5
ST1A14.50R13	14,50 mm	169 mm	114 mm	5
ST1A14.75R13	14,75 mm	169 mm	114 mm	5
ST1A15.00R13	15,00 mm	169 mm	114 mm	5
ST1A15.25R13	15,25 mm	178 mm	120 mm	5
ST1A15.50R13	15,50 mm	178 mm	120 mm	5
ST1A15.75R13	15,75 mm	178 mm	120 mm	5
ST1A16.00R13	16,00 mm	178 mm	120 mm	5

P023-
STRAIGHT SHANK TWIST DRILL

Right hand, rectified



Art.	Ø	L	l	Pack	Art.	Ø	L	l	Pack	Art.	Ø	L	l	Pack
P023/00.30	0.30 mm	19 mm	3 mm	10	P023/03.80	3.80 mm	75 mm	43 mm	10	P023/07.80	7.80 mm	117 mm	75 mm	10
P023/00.35	0.35 mm	19 mm	4 mm	10	P023/03.90	3.90 mm	75 mm	43 mm	10	P023/07.90	7.90 mm	117 mm	75 mm	10
P023/00.40	0.40 mm	20 mm	5 mm	10	P023/04.00	4.00 mm	75 mm	43 mm	10	P023/08.00	8.00 mm	117 mm	75 mm	5
P023/00.45	0.45 mm	20 mm	5 mm	10	P023/04.10	4.10 mm	75 mm	43 mm	10	P023/08.10	8.10 mm	117 mm	75 mm	5
P023/00.50	0.50 mm	22 mm	6 mm	10	P023/04.20	4.20 mm	75 mm	43 mm	10	P023/08.20	8.20 mm	117 mm	75 mm	5
P023/00.55	0.55 mm	24 mm	7 mm	10	P023/04.25	4.25 mm	75 mm	43 mm	10	P023/08.25	8.25 mm	117 mm	75 mm	5
P023/00.60	0.60 mm	24 mm	7 mm	10	P023/04.30	4.30 mm	80 mm	47 mm	10	P023/08.30	8.30 mm	117 mm	75 mm	5
P023/00.65	0.65 mm	26 mm	8 mm	10	P023/04.40	4.40 mm	80 mm	47 mm	10	P023/08.40	8.40 mm	117 mm	75 mm	5
P023/00.70	0.70 mm	28 mm	9 mm	10	P023/04.50	4.50 mm	80 mm	47 mm	10	P023/08.50	8.50 mm	117 mm	75 mm	5
P023/00.75	0.75 mm	28 mm	9 mm	10	P023/04.60	4.60 mm	80 mm	47 mm	10	P023/08.60	8.60 mm	125 mm	81 mm	5
P023/00.80	0.80 mm	30 mm	10 mm	10	P023/04.70	4.70 mm	80 mm	47 mm	10	P023/08.70	8.70 mm	125 mm	81 mm	5
P023/00.85	0.85 mm	30 mm	10 mm	10	P023/04.75	4.75 mm	80 mm	47 mm	10	P023/08.75	8.75 mm	125 mm	81 mm	5
P023/00.90	0.90 mm	32 mm	11 mm	10	P023/04.80	4.80 mm	86 mm	52 mm	10	P023/08.80	8.80 mm	125 mm	81 mm	5
P023/00.95	0.95 mm	32 mm	11 mm	10	P023/04.90	4.90 mm	86 mm	52 mm	10	P023/08.90	8.90 mm	125 mm	81 mm	5
P023/01.00	1.00 mm	34 mm	12 mm	10	P023/05.00	5.00 mm	86 mm	52 mm	10	P023/09.00	9.00 mm	125 mm	81 mm	5
P023/01.10	1.10 mm	36 mm	14 mm	10	P023/05.10	5.10 mm	86 mm	52 mm	10	P023/09.10	9.10 mm	125 mm	81 mm	5
P023/01.20	1.20 mm	38 mm	16 mm	10	P023/05.20	5.20 mm	86 mm	52 mm	10	P023/09.20	9.20 mm	125 mm	81 mm	5
P023/01.25	1.25 mm	38 mm	16 mm	10	P023/05.25	5.25 mm	86 mm	52 mm	10	P023/09.25	9.25 mm	125 mm	81 mm	5
P023/01.30	1.30 mm	38 mm	16 mm	10	P023/05.30	5.30 mm	86 mm	52 mm	10	P023/09.30	9.30 mm	125 mm	81 mm	5
P023/01.40	1.40 mm	40 mm	18 mm	10	P023/05.40	5.40 mm	93 mm	57 mm	10	P023/09.40	9.40 mm	125 mm	81 mm	5
P023/01.50	1.50 mm	40 mm	18 mm	10	P023/05.50	5.50 mm	93 mm	57 mm	10	P023/09.50	9.50 mm	125 mm	81 mm	5
P023/01.60	1.60 mm	43 mm	20 mm	10	P023/05.60	5.60 mm	93 mm	57 mm	10	P023/09.60	9.60 mm	133 mm	87 mm	5
P023/01.70	1.70 mm	43 mm	20 mm	10	P023/05.70	5.70 mm	93 mm	57 mm	10	P023/09.70	9.70 mm	133 mm	87 mm	5
P023/01.75	1.75 mm	46 mm	22 mm	10	P023/05.75	5.75 mm	93 mm	57 mm	10	P023/09.75	9.75 mm	133 mm	87 mm	5
P023/01.80	1.80 mm	46 mm	22 mm	10	P023/05.80	5.80 mm	93 mm	57 mm	10	P023/09.80	9.80 mm	133 mm	87 mm	5
P023/01.90	1.90 mm	46 mm	22 mm	10	P023/05.90	5.90 mm	93 mm	57 mm	10	P023/09.90	9.90 mm	133 mm	87 mm	5
P023/02.00	2.00 mm	49 mm	24 mm	10	P023/06.00	6.00 mm	93 mm	57 mm	10	P023/10.00	10.00 mm	133 mm	87 mm	5
P023/02.10	2.10 mm	49 mm	24 mm	10	P023/06.10	6.10 mm	101 mm	63 mm	10	P023/10.25	10.25 mm	133 mm	87 mm	5
P023/02.20	2.20 mm	53 mm	27 mm	10	P023/06.20	6.20 mm	101 mm	63 mm	10	P023/10.30	10.30 mm	133 mm	87 mm	5
P023/02.25	2.25 mm	53 mm	27 mm	10	P023/06.25	6.25 mm	101 mm	63 mm	10	P023/10.40	10.40 mm	133 mm	87 mm	5
P023/02.30	2.30 mm	53 mm	27 mm	10	P023/06.30	6.30 mm	101 mm	63 mm	10	P023/10.50	10.50 mm	133 mm	87 mm	5
P023/02.40	2.40 mm	57 mm	30 mm	10	P023/06.40	6.40 mm	101 mm	63 mm	10	P023/10.75	10.75 mm	142 mm	94 mm	5
P023/02.50	2.50 mm	57 mm	30 mm	10	P023/06.50	6.50 mm	101 mm	63 mm	10	P023/11.00	11.00 mm	142 mm	94 mm	5
P023/02.60	2.60 mm	57 mm	30 mm	10	P023/06.60	6.60 mm	101 mm	63 mm	10	P023/11.25	11.25 mm	142 mm	94 mm	5
P023/02.70	2.70 mm	61 mm	33 mm	10	P023/06.70	6.70 mm	101 mm	63 mm	10	P023/11.40	11.40 mm	142 mm	94 mm	5
P023/02.75	2.75 mm	61 mm	33 mm	10	P023/06.75	6.75 mm	109 mm	69 mm	10	P023/11.50	11.50 mm	142 mm	94 mm	5
P023/02.80	2.80 mm	61 mm	33 mm	10	P023/06.80	6.80 mm	109 mm	69 mm	10	P023/11.75	11.75 mm	142 mm	94 mm	5
P023/02.90	2.90 mm	61 mm	33 mm	10	P023/06.90	6.90 mm	109 mm	69 mm	10	P023/12.00	12.00 mm	151 mm	101 mm	5
P023/03.00	3.00 mm	61 mm	33 mm	10	P023/07.00	7.00 mm	109 mm	69 mm	10	P023/12.25	12.25 mm	151 mm	101 mm	5
P023/03.10	3.10 mm	65 mm	36 mm	10	P023/07.10	7.10 mm	109 mm	69 mm	10	P023/12.30	12.30 mm	151 mm	101 mm	5
P023/03.20	3.20 mm	65 mm	36 mm	10	P023/07.20	7.20 mm	109 mm	69 mm	10	P023/12.40	12.40 mm	151 mm	101 mm	5
P023/03.25	3.25 mm	65 mm	36 mm	10	P023/07.25	7.25 mm	109 mm	69 mm	10	P023/12.50	12.50 mm	151 mm	101 mm	5
P023/03.30	3.30 mm	65 mm	36 mm	10	P023/07.30	7.30 mm	109 mm	69 mm	10	P023/12.75	12.75 mm	151 mm	101 mm	5
P023/03.40	3.40 mm	70 mm	39 mm	10	P023/07.40	7.40 mm	109 mm	69 mm	10	P023/13.00	13.00 mm	151 mm	101 mm	5
P023/03.50	3.50 mm	70 mm	39 mm	10	P023/07.50	7.50 mm	109 mm	69 mm	10	P023/14.30	14.30 mm	165 mm	115 mm	5
P023/03.60	3.60 mm	70 mm	39 mm	10	P023/07.60	7.60 mm	117 mm	75 mm	10	P023/14.40	14.40 mm	165 mm	115 mm	5
P023/03.70	3.70 mm	70 mm	39 mm	10	P023/07.70	7.70 mm	117 mm	75 mm	10	P023/16.40	16.40 mm	170 mm	115 mm	5
P023/03.75	3.75 mm	70 mm	39 mm	10	P023/07.75	7.75 mm	117 mm	75 mm	10					

P023/19
STRAIGHT SHANK TWIST DRILL SET

Right hand, rectified.



19 Pcs

Size (step 0,5 mm) 1 ÷ 10 mm


P023/25
STRAIGHT SHANK TWIST DRILL SET

Right hand, rectified.



25 Pcs

Size (step 0,5 mm) 1 ÷ 13 mm

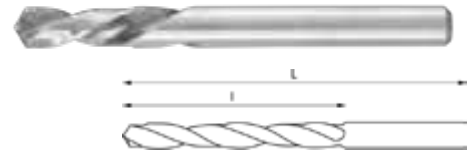




P023-XC

DRILL BIT CYLINDRICAL SHORT SERIES

Right hand, rectified.



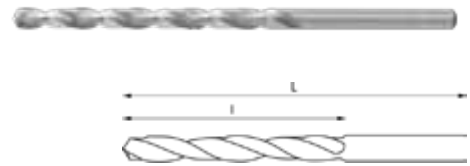
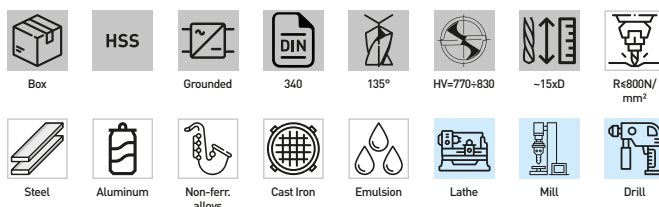
Art.	Ø	L	l	Pack
P023/03.00C	3,00 mm	46 mm	16 mm	10
P023/03.25C	3,25 mm	49 mm	18 mm	10
P023/03.50C	3,50 mm	52 mm	20 mm	10
P023/03.75C	3,75 mm	52 mm	20 mm	10
P023/04.00C	4,00 mm	55 mm	22 mm	10

Art.	Ø	L	l	Pack
P023/04.25C	4,25 mm	55 mm	22 mm	10
P023/04.50C	4,50 mm	58 mm	24 mm	10
P023/05.00C	5,00 mm	62 mm	26 mm	10
P023/05.50C	5,50 mm	66 mm	28 mm	10
P023/06.00C	6,00 mm	66 mm	28 mm	10

P023-XL

LONG TYPE STRAIGHT SHANK TWIST DRILL

Right hand, rectified.



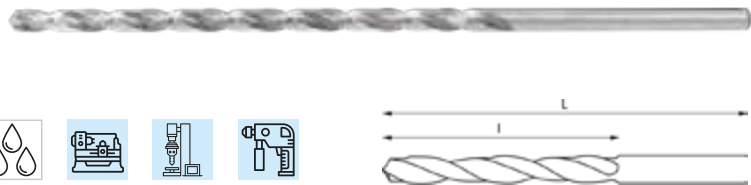
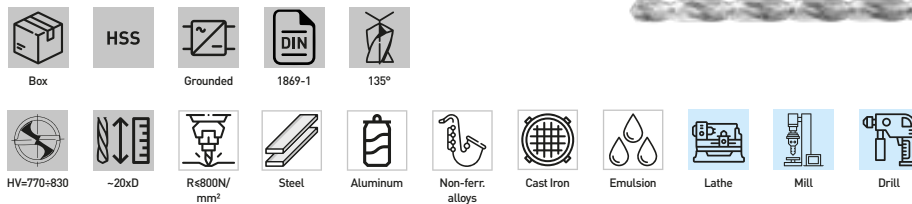
Art.	Ø	L	l	Pack
P023/01.00L	1,00 mm	56 mm	33 mm	10
P023/01.25L	1,25 mm	65 mm	40 mm	10
P023/01.50L	1,50 mm	70 mm	45 mm	10
P023/01.75L	1,75 mm	80 mm	53 mm	10
P023/02.00L	2,00 mm	85 mm	56 mm	10
P023/02.25L	2,25 mm	90 mm	59 mm	10
P023/02.50L	2,50 mm	95 mm	62 mm	10
P023/02.75L	2,75 mm	100 mm	66 mm	10
P023/03.00L	3,00 mm	100 mm	66 mm	10
P023/03.25L	3,25 mm	106 mm	69 mm	10
P023/03.50L	3,50 mm	112 mm	73 mm	10
P023/03.75L	3,75 mm	112 mm	73 mm	10
P023/04.00L	4,00 mm	119 mm	78 mm	10
P023/04.25L	4,25 mm	119 mm	78 mm	10
P023/04.50L	4,50 mm	126 mm	82 mm	10
P023/04.75L	4,75 mm	126 mm	82 mm	10
P023/05.00L	5,00 mm	132 mm	87 mm	10
P023/05.25L	5,25 mm	132 mm	87 mm	10
P023/05.50L	5,50 mm	139 mm	91 mm	10
P023/05.75L	5,75 mm	139 mm	91 mm	10
P023/06.00L	6,00 mm	139 mm	91 mm	10
P023/06.25L	6,25 mm	148 mm	97 mm	10

Art.	Ø	L	l	Pack
P023/06.50L	6,50 mm	148 mm	97 mm	10
P023/06.75L	6,75 mm	148 mm	97 mm	10
P023/07.00L	7,00 mm	156 mm	102 mm	10
P023/07.25L	7,25 mm	156 mm	102 mm	10
P023/07.50L	7,25 mm	156 mm	102 mm	10
P023/07.75L	7,75 mm	165 mm	109 mm	10
P023/08.00L	8,00 mm	165 mm	109 mm	5
P023/08.25L	8,25 mm	165 mm	109 mm	5
P023/08.50L	8,50 mm	165 mm	109 mm	5
P023/08.75L	8,75 mm	175 mm	115 mm	5
P023/09.00L	9,00 mm	175 mm	115 mm	5
P023/09.25L	9,25 mm	175 mm	115 mm	5
P023/09.50L	9,50 mm	175 mm	115 mm	5
P023/09.75L	9,75 mm	184 mm	121 mm	5
P023/10.00L	10,00 mm	184 mm	121 mm	5
P023/10.25L	10,25 mm	184 mm	121 mm	5
P023/10.50L	10,50 mm	184 mm	121 mm	5
P023/11.00L	11,00 mm	195 mm	128 mm	5
P023/11.50L	11,50 mm	195 mm	128 mm	5
P023/12.00L	12,00 mm	205 mm	134 mm	5
P023/12.50L	12,50 mm	205 mm	134 mm	5
P023/13.00L	13,00 mm	205 mm	134 mm	5

P023-XL1

EXTRA LONG SERIES CYLINDRICAL DRILL BIT

Right hand, rectified.



Art.	Ø	L	l
P023/02.00L1	2,00 mm	125 mm	85 mm
P023/02.50L1	2,50 mm	140 mm	95 mm
P023/03.00L1	3,00 mm	150 mm	100 mm
P023/03.50L1	3,50 mm	165 mm	115 mm
P023/04.00L1	4,00 mm	175 mm	120 mm
P023/04.50L1	4,50 mm	185 mm	125 mm
P023/05.00L1	5,00 mm	195 mm	135 mm
P023/05.50L1	5,50 mm	205 mm	140 mm
P023/06.00L1	6,00 mm	205 mm	140 mm
P023/06.50L1	6,50 mm	215 mm	150 mm
P023/07.00L1	7,00 mm	225 mm	155 mm
P023/07.50L1	7,50 mm	225 mm	155 mm

Art.	Ø	L	l
P023/08.00L1	8,00 mm	240 mm	165 mm
P023/08.50L1	8,50 mm	240 mm	165 mm
P023/09.00L1	9,00 mm	250 mm	175 mm
P023/09.50L1	9,50 mm	250 mm	175 mm
P023/10.00L1	10,00 mm	265 mm	185 mm
P023/10.50L1	10,50 mm	265 mm	185 mm
P023/11.00L1	11,00 mm	280 mm	195 mm
P023/11.50L1	11,50 mm	280 mm	195 mm
P023/12.00L1	12,00 mm	295 mm	205 mm
P023/12.50L1	12,50 mm	295 mm	205 mm
P023/13.00L1	13,00 mm	295 mm	205 mm

P023-XL2
EXTRA LONG SERIES CYLINDRICAL DRILL BIT

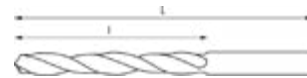
Right hand, rectified.



Art.	∅	L	l
P023/02.00L2	2,00 mm	160 mm	110 mm
P023/02.50L2	2,50 mm	180 mm	120 mm
P023/03.00L2	3,00 mm	190 mm	130 mm
P023/03.50L2	3,50 mm	210 mm	145 mm
P023/04.00L2	4,00 mm	220 mm	150 mm
P023/04.50L2	4,50 mm	235 mm	160 mm
P023/05.00L2	5,00 mm	245 mm	170 mm
P023/05.50L2	5,50 mm	260 mm	180 mm
P023/06.00L2	6,00 mm	260 mm	180 mm
P023/06.50L2	6,50 mm	275 mm	190 mm
P023/07.00L2	7,00 mm	290 mm	200 mm
P023/07.50L2	7,50 mm	290 mm	200 mm
P023/08.00L2	8,00 mm	305 mm	210 mm
P023/08.50L2	8,50 mm	305 mm	210 mm
P023/09.00L2	9,00 mm	320 mm	220 mm
P023/09.50L2	9,50 mm	320 mm	220 mm
P023/10.00L2	10,00 mm	340 mm	235 mm
P023/10.50L2	10,50 mm	340 mm	235 mm
P023/11.00L2	11,00 mm	365 mm	250 mm
P023/11.50L2	11,50 mm	365 mm	250 mm
P023/12.00L2	12,00 mm	375 mm	260 mm
P023/12.50L2	12,50 mm	375 mm	260 mm
P023/13.00L2	13,00 mm	375 mm	260 mm

P023-XL3
EXTRA LONG SERIES CYLINDRICAL DRILL BIT

Right hand, rectified.



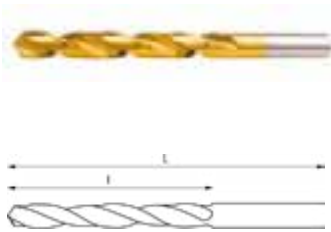
Art.	∅	L	l
P023/02.00L3	02,00 mm	200 mm	135 mm
P023/02.50L3	02,50 mm	225 mm	150 mm
P023/03.00L3	03,00 mm	240 mm	160 mm
P023/03.50L3	03,50 mm	265 mm	180 mm
P023/04.00L3	04,00 mm	280 mm	190 mm
P023/04.50L3	04,50 mm	295 mm	200 mm
P023/05.00L3	05,00 mm	315 mm	210 mm
P023/05.50L3	05,50 mm	330 mm	225 mm
P023/06.00L3	06,00 mm	330 mm	225 mm
P023/06.50L3	06,50 mm	350 mm	235 mm
P023/07.00L3	07,00 mm	370 mm	250 mm
P023/07.50L3	07,50 mm	370 mm	250 mm
P023/08.00L3	08,00 mm	390 mm	265 mm
P023/08.50L3	08,50 mm	390 mm	265 mm
P023/09.00L3	09,00 mm	410 mm	280 mm
P023/09.50L3	09,50 mm	410 mm	280 mm
P023/10.00L3	10,00 mm	430 mm	295 mm
P023/10.50L3	10,50 mm	430 mm	295 mm
P023/11.00L3	11,00 mm	455 mm	310 mm
P023/11.50L3	11,50 mm	455 mm	310 mm
P023/12.00L3	12,00 mm	480 mm	330 mm
P023/12.50L3	12,50 mm	480 mm	330 mm
P023/13.00L3	13,00 mm	480 mm	330 mm



P058-

STRAIGHT SHANK TWIST DRILL

Right hand, long durability thanks to the titanium coating.



Art.	Ø	L	l	Pack
P058/01.00	1 mm	34 mm	12 mm	10
P058/01.25	1,25 mm	38 mm	16 mm	10
P058/01.50	1,50 mm	40 mm	18 mm	10
P058/01.75	1,75 mm	46 mm	22 mm	10
P058/02.00	2 mm	49 mm	24 mm	10
P058/02.25	2,25 mm	53 mm	27 mm	10
P058/02.50	2,50 mm	57 mm	30 mm	10
P058/02.75	2,75 mm	61 mm	33 mm	10
P058/03.00	3 mm	61 mm	33 mm	10
P058/03.25	3,25 mm	65 mm	36 mm	10
P058/03.50	3,50 mm	70 mm	39 mm	10
P058/03.75	3,75 mm	70 mm	39 mm	10
P058/04.00	4 mm	75 mm	43 mm	10
P058/04.25	4,25 mm	75 mm	43 mm	10
P058/04.50	4,50 mm	80 mm	47 mm	10
P058/04.75	4,75 mm	80 mm	47 mm	10
P058/05.00	5 mm	86 mm	52 mm	10
P058/05.25	5,25 mm	86 mm	52 mm	10
P058/05.50	5,50 mm	93 mm	57 mm	10
P058/05.75	5,75 mm	93 mm	57 mm	10
P058/06.00	6 mm	93 mm	57 mm	10
P058/06.25	6,25 mm	101 mm	63 mm	10
P058/06.50	6,50 mm	101 mm	63 mm	10
P058/06.75	6,75 mm	109 mm	69 mm	10
P058/07.00	7 mm	109 mm	69 mm	10
P058/07.25	7,25 mm	109 mm	69 mm	10
P058/07.50	7,50 mm	109 mm	69 mm	10
P058/07.75	7,75 mm	117 mm	75 mm	10
P058/08.00	8 mm	117 mm	75 mm	10
P058/08.25	8,25 mm	117 mm	75 mm	5
P058/08.50	8,50 mm	117 mm	75 mm	5
P058/08.75	8,75 mm	125 mm	81 mm	5
P058/09.00	9 mm	125 mm	81 mm	5
P058/09.25	9,25 mm	125 mm	81 mm	5
P058/09.50	9,50 mm	125 mm	81 mm	5
P058/09.75	9,75 mm	133 mm	87 mm	5
P058/10.00	10 mm	133 mm	87 mm	5
P058/10.25	10,25 mm	133 mm	87 mm	5
P058/10.50	10,50 mm	133 mm	87 mm	5
P058/10.75	10,75 mm	142 mm	94 mm	5
P058/11.00	11 mm	142 mm	94 mm	5
P058/11.25	11,25 mm	142 mm	94 mm	5
P058/11.50	11,50 mm	142 mm	94 mm	5
P058/11.75	11,75 mm	142 mm	94 mm	5
P058/12.00	12 mm	151 mm	101 mm	5
P058/12.25	12,25 mm	151 mm	101 mm	5
P058/12.50	12,50 mm	151 mm	101 mm	5
P058/12.75	12,75 mm	151 mm	101 mm	5
P058/13.00	13 mm	151 mm	101 mm	5

	HSS		TiN
Box		Grounded	
338/N	135°	HV=740-780	-8xD
Rc700N/mm²	Steel	Aluminum	Non-ferr. alloys
Cast Iron	Emulsion	Lathe	Mill

P058/170

TWIST DRILL SET

Right hand, long durability thanks to the titanium coating.



150 (10x) Pcs (step 0,5 mm) Ø 1 ÷ 8 mm
20 (5x) Pcs (step 0,5 mm) Ø 8,5 ÷ 10 mm

P010/51

SERIES OF CYLINDRICAL TIPS TO THE TENTH

Right hand, long durability thanks to the titanium coating.



Size (step 0,1 mm) 1 ÷ 6 mm

P010/41

SERIES OF CYLINDRICAL TIPS TO THE TENTH

Right hand, long durability thanks to the titanium coating.



Size (step 0,1 mm) 6 ÷ 10 mm

P062

TWIST DRILL SET

Right hand, long durability thanks to the titanium coating.



Size (step 0,5 mm) 1 ÷ 13 mm

P061

STRAIGHT SHANK TWIST DRILL SET

Right hand, long durability thanks to the titanium coating.



Size (step 0,5 mm) 1 ÷ 10 mm

P068

TWIST DRILL SET

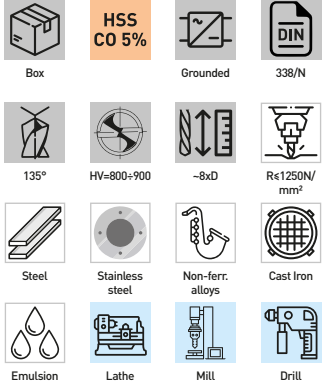
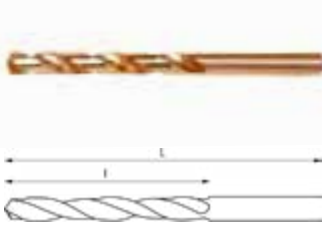
Right hand, long durability thanks to the titanium coating.



Sizes x 1 Pc 0.25 - 0.30 - 0.35 - 0.40 - 0.45 - 0.55 - 0.65 - 0.70 - 0.75 - 0.85 - 0.90 - 0.95 mm
Sizes x Pcs 0.50 - 0.60 - 0.80 - 1.00 mm

P065-
COBALT CYLINDRICAL TWIST DRILL

Self-centering, right, with great thermal resistance.



Art.	Ø	Total length	Flute length	Pack
P065/01.00	1 mm	34 mm	12 mm	10
P065/01.25	1,25 mm	38 mm	16 mm	10
P065/01.50	1,50 mm	40 mm	18 mm	10
P065/01.75	1,75 mm	46 mm	22 mm	10
P065/02.00	2 mm	49 mm	24 mm	10
P065/02.25	2,25 mm	53 mm	27 mm	10
P065/02.50	2,50 mm	57 mm	30 mm	10
P065/02.75	2,75 mm	61 mm	33 mm	10
P065/03.00	3 mm	61 mm	33 mm	10
P065/03.25	3,25 mm	69 mm	39 mm	10
P065/03.50	3,50 mm	70 mm	39 mm	10
P065/03.75	3,75 mm	70 mm	39 mm	10
P065/04.00	4 mm	75 mm	43 mm	10
P065/04.25	4,25 mm	75 mm	43 mm	10
P065/04.50	4,50 mm	80 mm	47 mm	10
P065/04.75	4,75 mm	80 mm	47 mm	10
P065/05.00	5 mm	86 mm	52 mm	10
P065/05.25	5,25 mm	86 mm	52 mm	10
P065/05.50	5,50 mm	93 mm	57 mm	10
P065/05.75	5,75 mm	93 mm	57 mm	10
P065/06.00	6 mm	93 mm	57 mm	10
P065/06.25	6,25 mm	101 mm	63 mm	10
P065/06.50	6,50 mm	101 mm	63 mm	10
P065/06.75	6,75 mm	109 mm	69 mm	10
P065/07.00	7 mm	109 mm	69 mm	10
P065/07.25	7,25 mm	109 mm	69 mm	10
P065/07.50	7,50 mm	109 mm	69 mm	10
P065/07.75	7,75 mm	117 mm	75 mm	10
P065/08.00	8 mm	117 mm	75 mm	5
P065/08.25	8,25 mm	117 mm	75 mm	5
P065/08.50	8,50 mm	117 mm	75 mm	5
P065/08.75	8,75 mm	125 mm	81 mm	5
P065/09.00	9 mm	125 mm	81 mm	5
P065/09.25	9,25 mm	125 mm	81 mm	5
P065/09.50	9,50 mm	125 mm	81 mm	5
P065/09.75	9,75 mm	133 mm	87 mm	5
P065/10.00	10 mm	133 mm	87 mm	5
P065/10.25	10,25 mm	133 mm	87 mm	5
P065/10.50	10,50 mm	133 mm	87 mm	5
P065/10.75	10,75 mm	142 mm	94 mm	5
P065/11.00	11 mm	142 mm	94 mm	5
P065/11.25	11,25 mm	142 mm	94 mm	5
P065/11.50	11,50 mm	142 mm	94 mm	5
P065/11.75	11,75 mm	142 mm	94 mm	5
P065/12.00	12 mm	151 mm	101 mm	5
P065/12.25	12,25 mm	151 mm	101 mm	5
P065/12.50	12,50 mm	151 mm	101 mm	5
P065/12.75	12,75 mm	151 mm	101 mm	5
P065/13.00	13 mm	151 mm	101 mm	5

P067
COBALT TWIST DRILL SET

Self-centering, right, with great thermal resistance.



19 Pcs

Size (step 0,5 mm)

1 ÷ 10 mm

P069
COBALT TWIST DRILL SET

Self-centering, right, with great thermal resistance.



25 Pcs

Size (step 0,5 mm)

1 ÷ 13 mm

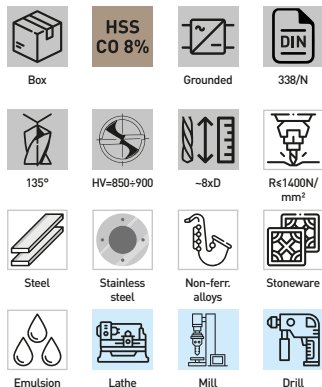
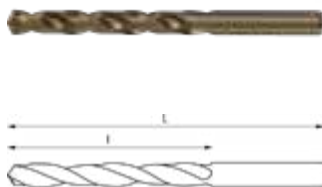




P064-

FULLY GROUND FROM THE SOLID TWIST DRILL

Self-centering, right, with great thermal resistance.



Art.	ø	L	l	Pack
P064/01.00	01.00 mm	34 mm	12 mm	10
P064/01.25	01.25 mm	38 mm	16 mm	10
P064/01.50	01.50 mm	40 mm	18 mm	10
P064/01.75	01.75 mm	46 mm	22 mm	10
P064/02.00	02.00 mm	49 mm	24 mm	10
P064/02.25	02.25 mm	53 mm	27 mm	10
P064/02.50	02.50 mm	57 mm	30 mm	10
P064/02.75	02.75 mm	61 mm	33 mm	10
P064/03.00	03.00 mm	61 mm	33 mm	10
P064/03.25	03.25 mm	69 mm	39 mm	10
P064/03.50	03.50 mm	70 mm	39 mm	10
P064/03.75	03.75 mm	70 mm	39 mm	10
P064/04.00	04.00 mm	75 mm	43 mm	10
P064/04.25	04.25 mm	75 mm	43 mm	10
P064/04.50	04.50 mm	80 mm	47 mm	10
P064/04.75	04.75 mm	80 mm	47 mm	10
P064/05.00	05.00 mm	86 mm	52 mm	10
P064/05.25	05.25 mm	86 mm	52 mm	10
P064/05.50	05.50 mm	93 mm	57 mm	10
P064/05.75	05.75 mm	93 mm	57 mm	10
P064/06.00	06.00 mm	93 mm	57 mm	10
P064/06.25	06.25 mm	101 mm	63 mm	10
P064/06.50	06.50 mm	101 mm	63 mm	10
P064/06.75	06.75 mm	109 mm	69 mm	10
P064/07.00	07.00 mm	109 mm	69 mm	10
P064/07.25	07.25 mm	109 mm	69 mm	10
P064/07.50	07.50 mm	109 mm	69 mm	10
P064/07.75	07.75 mm	117 mm	75 mm	10
P064/08.00	08.00 mm	117 mm	75 mm	5
P064/08.25	08.25 mm	117 mm	75 mm	5
P064/08.50	08.50 mm	117 mm	75 mm	5
P064/08.75	08.75 mm	125 mm	81 mm	5
P064/09.00	09.00 mm	125 mm	81 mm	5
P064/09.25	09.25 mm	125 mm	81 mm	5
P064/09.50	09.50 mm	125 mm	81 mm	5
P064/09.75	09.75 mm	133 mm	87 mm	5
P064/10.00	10.00 mm	133 mm	87 mm	5
P064/10.25	10.25 mm	133 mm	87 mm	5
P064/10.50	10.50 mm	133 mm	87 mm	5
P064/10.75	10.75 mm	142 mm	94 mm	5
P064/11.00	11.00 mm	142 mm	94 mm	5
P064/11.25	11.25 mm	142 mm	94 mm	5
P064/11.50	11.50 mm	142 mm	94 mm	5
P064/11.75	11.75 mm	142 mm	94 mm	5
P064/12.00	12.00 mm	151 mm	101 mm	5
P064/12.25	12.25 mm	151 mm	101 mm	5
P064/12.50	12.50 mm	151 mm	101 mm	5
P064/12.75	12.75 mm	151 mm	101 mm	5
P064/13.00	13.00 mm	151 mm	101 mm	5

P064/19A

COBALT TWIST DRILL SET

Self-centering, right, with great thermal resistance.



19 Pcs

Size (step 0,5 mm)

1 ± 10 mm

P064/25A

COBALT TWIST DRILL SET

Self-centering, right, with great thermal resistance.



25 Pcs

Size (step 0,5 mm)

1 ± 13 mm



ST2AX
TWIST DRILL WITH CONICAL SHANK

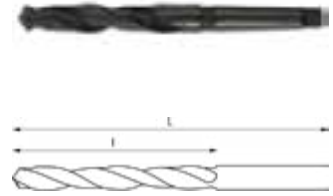
Right hand



Art.	Ø	MT	L	l
ST2A05.75	5,75 mm	1	138 mm	57 mm
ST2A06	6,00 mm	1	138 mm	57 mm
ST2A06.25	6,25 mm	1	144 mm	63 mm
ST2A06.50	6,50 mm	1	144 mm	63 mm
ST2A06.75	6,75 mm	1	150 mm	69 mm
ST2A07	7,00 mm	1	150 mm	69 mm
ST2A07.25	7,25 mm	1	150 mm	69 mm
ST2A07.50	7,50 mm	1	150 mm	69 mm
ST2A07.75	7,75 mm	1	156 mm	75 mm
ST2A08	8,00 mm	1	156 mm	75 mm
ST2A08.25	8,25 mm	1	156 mm	75 mm
ST2A08.50	8,50 mm	1	156 mm	75 mm
ST2A08.75	8,75 mm	1	156 mm	75 mm
ST2A09	9,00 mm	1	162 mm	81 mm
ST2A09.25	9,25 mm	1	162 mm	81 mm
ST2A09.50	9,50 mm	1	162 mm	81 mm
ST2A09.75	9,75 mm	1	162 mm	81 mm
ST2A10	10,00 mm	1	168 mm	81 mm
ST2A10.25	10,25 mm	1	168 mm	87 mm
ST2A10.50	10,50 mm	1	168 mm	87 mm
ST2A10.75	10,75 mm	1	175 mm	87 mm
ST2A11	11,00 mm	1	175 mm	94 mm
ST2A11.25	11,25 mm	1	175 mm	94 mm
ST2A11.50	11,50 mm	1	175 mm	94 mm
ST2A11.75	11,75 mm	1	175 mm	94 mm
ST2A12	12,00 mm	1	182 mm	94 mm
ST2A12.25	12,25 mm	1	182 mm	101 mm
ST2A12.50	12,50 mm	1	182 mm	101 mm
ST2A12.75	12,75 mm	1	182 mm	101 mm
ST2A13	13,00 mm	1	182 mm	101 mm
ST2A13.25	13,25 mm	1	182 mm	101 mm
ST2A13.50	13,50 mm	1	189 mm	108 mm
ST2A13.75	13,75 mm	1	189 mm	108 mm
ST2A14	14,00 mm	1	189 mm	108 mm
ST2A14.25	14,25 mm	2	212 mm	114 mm
ST2A14.50	14,50 mm	2	212 mm	114 mm
ST2A14.75	14,75 mm	2	212 mm	114 mm
ST2A15	15,00 mm	2	212 mm	114 mm
ST2A15.25	15,25 mm	2	218 mm	120 mm
ST2A15.50	15,50 mm	2	218 mm	120 mm
ST2A15.75	15,75 mm	2	218 mm	120 mm
ST2A16	16,00 mm	2	218 mm	120 mm
ST2A16.25	16,25 mm	2	223 mm	125 mm
ST2A16.50	16,50 mm	2	223 mm	125 mm
ST2A16.75	16,75 mm	2	223 mm	125 mm
ST2A17	17,00 mm	2	223 mm	125 mm
ST2A17.25	17,25 mm	2	228 mm	130 mm
ST2A17.50	17,50 mm	2	228 mm	130 mm
ST2A17.75	17,75 mm	2	228 mm	130 mm
ST2A18	18,00 mm	2	228 mm	130 mm
ST2A18.25	18,25 mm	2	233 mm	135 mm
ST2A18.50	18,50 mm	2	233 mm	135 mm
ST2A18.75	18,75 mm	2	233 mm	135 mm
ST2A19	19,00 mm	2	233 mm	135 mm
ST2A19.25	19,25 mm	2	238 mm	140 mm
ST2A19.50	19,50 mm	2	238 mm	130 mm
ST2A19.75	19,75 mm	2	238 mm	140 mm
ST2A20	20,00 mm	2	238 mm	140 mm
ST2A20.25	20,25 mm	2	243 mm	145 mm
ST2A20.50	20,50 mm	2	243 mm	145 mm
ST2A20.75	20,75 mm	2	243 mm	145 mm
ST2A21	21,00 mm	2	243 mm	145 mm
ST2A21.25	21,25 mm	2	248 mm	150 mm
ST2A21.50	21,50 mm	2	248 mm	150 mm
ST2A21.75	21,75 mm	2	248 mm	150 mm
ST2A22	22,00 mm	2	248 mm	150 mm
ST2A22.25	22,25 mm	2	248 mm	150 mm

Art.	Ø	MT	L	l
ST2A22.50	22,50 mm	2	253 mm	155 mm
ST2A22.75	22,75 mm	2	253 mm	155 mm
ST2A23	23,00 mm	2	253 mm	155 mm
ST2A23.25	23,25 mm	3	276 mm	155 mm
ST2A23.50	23,50 mm	3	276 mm	155 mm
ST2A23.75	23,75 mm	3	281 mm	160 mm
ST2A24	24,00 mm	3	281 mm	160 mm
ST2A24.25	24,25 mm	3	281 mm	160 mm
ST2A24.50	24,50 mm	3	281 mm	160 mm
ST2A24.75	24,75 mm	3	281 mm	160 mm
ST2A25	25,00 mm	3	281 mm	160 mm
ST2A25.25	25,25 mm	3	281 mm	160 mm
ST2A25.50	25,50 mm	3	281 mm	160 mm
ST2A25.75	25,75 mm	3	281 mm	160 mm
ST2A26	26,00 mm	3	286 mm	165 mm
ST2A26.25	26,25 mm	3	286 mm	165 mm
ST2A26.50	26,50 mm	3	286 mm	165 mm
ST2A26.75	26,75 mm	3	291 mm	170 mm
ST2A27	27,00 mm	3	291 mm	170 mm
ST2A27.25	27,25 mm	3	291 mm	170 mm
ST2A27.50	27,50 mm	3	291 mm	170 mm
ST2A27.75	27,75 mm	3	291 mm	170 mm
ST2A28	28,00 mm	3	291 mm	170 mm
ST2A28.25	28,25 mm	3	296 mm	175 mm
ST2A28.50	28,50 mm	3	296 mm	175 mm
ST2A28.75	28,75 mm	3	296 mm	175 mm
ST2A29	29,00 mm	3	296 mm	175 mm
ST2A29.25	29,25 mm	3	296 mm	175 mm
ST2A29.50	29,50 mm	3	296 mm	175 mm
ST2A29.75	29,75 mm	3	296 mm	175 mm
ST2A30	30,00 mm	3	296 mm	175 mm
ST2A30.25	30,25 mm	3	301 mm	180 mm
ST2A30.50	30,50 mm	3	301 mm	180 mm
ST2A30.75	30,75 mm	3	301 mm	180 mm
ST2A31	31,00 mm	3	301 mm	180 mm
ST2A31.25	31,25 mm	3	301 mm	180 mm
ST2A31.50	31,50 mm	3	301 mm	180 mm
ST2A31.75	31,75 mm	4	306 mm	185 mm
ST2A32	32,00 mm	4	334 mm	185 mm
ST2A32.50	32,50 mm	4	334 mm	185 mm
ST2A33	33,00 mm	4	334 mm	185 mm
ST2A33.50	33,50 mm	4	334 mm	185 mm
ST2A34	34,00 mm	4	339 mm	190 mm
ST2A34.50	34,50 mm	4	339 mm	190 mm
ST2A35	35,00 mm	4	339 mm	190 mm
ST2A35.50	35,50 mm	4	339 mm	190 mm
ST2A36	36,00 mm	4	344 mm	195 mm
ST2A36.50	36,50 mm	4	344 mm	195 mm
ST2A37	37,00 mm	4	344 mm	195 mm
ST2A37.50	37,50 mm	4	344 mm	195 mm
ST2A38	38,00 mm	4	349 mm	200 mm
ST2A38.50	38,50 mm	4	349 mm	200 mm
ST2A39	39,00 mm	4	349 mm	200 mm
ST2A39.50	39,50 mm	4	349 mm	200 mm
ST2A40	40,00 mm	4	349 mm	200 mm
ST2A40.50	40,50 mm	4	354 mm	205 mm
ST2A41	41,00 mm	4	354 mm	205 mm
ST2A41.50	41,50 mm	4	354 mm	205 mm
ST2A42	42,00 mm	4	354 mm	205 mm
ST2A42.50	42,50 mm	4	354 mm	205 mm
ST2A43	43,00 mm	4	359 mm	210 mm
ST2A43.50	43,50 mm	4	359 mm	210 mm
ST2A44	44,00 mm	4	359 mm	210 mm
ST2A44.50	44,50 mm	4	359 mm	210 mm
ST2A45	45,00 mm	4	359 mm	210 mm
ST2A45.50	45,50 mm	4	364 mm	215 mm
ST2A46	46,00 mm	4	364 mm	215 mm

Art.	Ø	MT	L	l
ST2A46.50	46,50 mm	4	364 mm	215 mm
ST2A47	47,00 mm	4	364 mm	215 mm
ST2A47.50	47,50 mm	4	364 mm	215 mm
ST2A48	48,00 mm	4	369 mm	220 mm
ST2A48.50	48,50 mm	4	369 mm	220 mm
ST2A49	49,00 mm	4	369 mm	220 mm
ST2A49.50	49,50 mm	4	369 mm	220 mm
ST2A50	50,00 mm	4	369 mm	220 mm
ST2A50.50	50,50 mm	4	374 mm	225 mm
ST2A51	51,00 mm	5	412 mm	225 mm
ST2A51.50	51,50 mm	5	412 mm	225 mm
ST2A52	52,00 mm	5	412 mm	225 mm
ST2A53	53,00 mm	5	412 mm	225 mm
ST2A54	54,00 mm	5	417 mm	230 mm
ST2A55	55,00 mm	5	417 mm	230 mm
ST2A56	56,00 mm	5	417 mm	230 mm
ST2A57	57,00 mm	5	422 mm	235 mm
ST2A58	58,00 mm	5	422 mm	235 mm
ST2A59	59,00 mm	5	422 mm	235 mm
ST2A60	60,00 mm	5	422 mm	235 mm
ST2A61	61,00 mm	5	427 mm	240 mm
ST2A62	62,00 mm	5	427 mm	240 mm
ST2A63	63,00 mm	5	427 mm	240 mm
ST2A65	65,00 mm	5	432 mm	245 mm
ST2A66	66,00 mm	5	432 mm	245 mm
ST2A67	67,00 mm	5	432 mm	245 mm
ST2A68	68,00 mm	5	437 mm	250 mm
ST2A69	69,00 mm	5	437 mm	250 mm
ST2A70	70,00 mm	5	437 mm	250 mm
ST2A71	71,00 mm	5	437 mm	250 mm
ST2A72	72,00 mm	5	442 mm	255 mm
ST2A73	73,00 mm	5	442 mm	255 mm
ST2A74	74,00 mm	5	442 mm	255 mm
ST2A75	75,00 mm	5	442 mm	255 mm
ST2A77	77,00 mm	6	514 mm	260 mm
ST2A78	78,00 mm	6	514 mm	260 mm
ST2A79	79,00 mm	6	514 mm	260 mm


P057
SET OF TWIST DRILLS WITH CONICAL SHANK

Right hand.

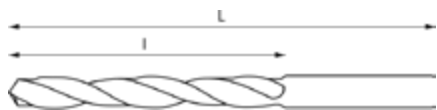


Sizes	CM1: 14 mm
MT	14 mm
Sizes	CM2: 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 mm





P081- NC SPOTTING DRILL



Box	HSS CO 5%	TiAlN	90°	External	Steel	Stainless steel	Aluminum
Non-ferr. alloys	Cast Iron	Emulsion	Lathe	Mill	Drill		

Art.	ø	l	L
P081/03	3 mm	17 mm	46 mm
P081/04	4 mm	20 mm	55 mm
P081/05	5 mm	25 mm	60 mm
P081/06	6 mm	27 mm	66 mm
P081/08	8 mm	30 mm	79 mm
P081/10	10 mm	35 mm	89 mm
P081/12	12 mm	30 mm	102 mm
P081/16	16 mm	35 mm	115 mm
P081/20	20 mm	40 mm	131 mm

P056- CENTER DRILL

Ground, with vaporized grooves. Taper angle 60°.



Box	HSS	333	118°	Steel	Aluminum	Non-ferr. alloys	Cast Iron
Emulsion	Lathe	Mill	Magnetic Drill	Drill press			

Art.	ø	Stem	Length
P056/1	1 mm	ø 3 mm	30,5 mm
P056/1.6	1,6 mm	ø 4 mm	35,5 mm
P056/2	2 mm	ø 5 mm	40 mm
P056/2.5	2,5 mm	ø 6,3 mm	45 mm
P056/3.15	3,15 mm	ø 8 mm	50 mm
P056/4	4 mm	ø 10 mm	56 mm
P056/5	5 mm	ø 12,5 mm	63 mm

P056/10S CENTER DRILL SET

Ground, with vaporized grooves. Taper angle 60°.



10 Pcs	Box	HSS	333	118°	Steel
Aluminum	Non-ferr. alloys	Cast Iron	Emulsion	Lathe	Mill

Sizes	0.75 - 1.00 - 1.5 - 1.6 - 2.0 - 2.5 - 3.0 - 3.15 - 4.0 - 5.0 mm
Type	A
Tolerance	K12



CORE SAWS

Tools designed for drilling and processing metal materials. These are cylindrical tips with a toothed circular section. They are mounted on the spindle of special tools such as drilling machines, magnetic base drills, and column drills. Unlike cup milling machines, which have a crown that holds the material to be removed inside, these milling machines process the material by chip removal through the side cutters of the tool.



THEORETICAL RPM FOR CORE SAWS DEPENDING ON THE MATERIAL TO BE PROCESSED

Materials to be processed	Saw Type	Saw diameter							Coolant
		12 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 49	50 - 60	
		no. of revolutions (rpm)							
Low alloy construction steel R < 700÷900N/mm ²	HSS	700	530	420	340	290	240	170	Emulsion
	HSS-Co5%	875	663	525	425	363	300	213	Emulsion
Alloy steel R < 1100÷1300N/mm ²	HSS	470	350	270	230	190	160	120	Emulsion
	HSS-Co5%	588	438	338	288	238	200	150	Emulsion
Stainless steel	HSS	470	350	270	230	190	160	120	Emulsion
	HSS-Co5%	588	438	338	288	238	200	150	Emulsion
Cast iron	HSS	240	180	140	120	100	80	60	No refriger.
Light Alloys	HSS	700	530	420	340	290	240	170	No refriger.
Plastic	HSS	830	620	480	400	340	280	200	No refriger.

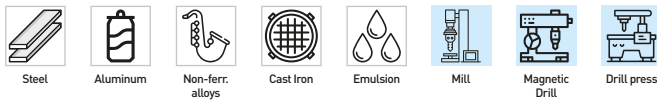
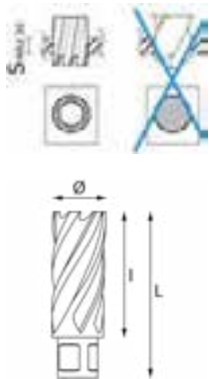




F011-

CORE DRILL WITH WELDON SHANK

Allows a very fast cut, does not require pre-drilling and does not create any burr formation thanks to the lower effort of the cutting edge during processing.

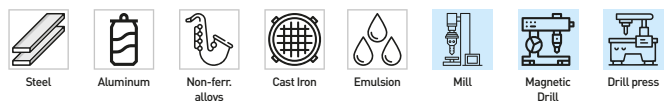
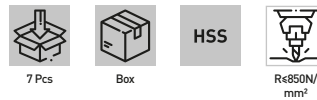


Art.	Cutting capacity	Ø	Total length
F011/12	30 mm	12 mm	62 mm
F011/13	30 mm	13 mm	62 mm
F011/14	30 mm	14 mm	62 mm
F011/15	30 mm	15 mm	62 mm
F011/16	30 mm	16 mm	62 mm
F011/17	30 mm	17 mm	62 mm
F011/18	30 mm	18 mm	62 mm
F011/19	30 mm	19 mm	62 mm
F011/20	30 mm	20 mm	62 mm
F011/21	30 mm	21 mm	62 mm
F011/22	30 mm	22 mm	62 mm
F011/23	30 mm	23 mm	62 mm
F011/24	30 mm	24 mm	62 mm
F011/25	30 mm	25 mm	62 mm
F011/26	30 mm	26 mm	62 mm
F011/27	30 mm	27 mm	62 mm
F011/28	30 mm	28 mm	62 mm
F011/29	30 mm	29 mm	62 mm
F011/30	30 mm	30 mm	62 mm
F011/31	30 mm	31 mm	62 mm
F011/32	30 mm	32 mm	62 mm
F011/33	30 mm	33 mm	62 mm
F011/34	30 mm	34 mm	62 mm
F011/35	30 mm	35 mm	62 mm
F011/36	30 mm	36 mm	62 mm
F011/37	30 mm	37 mm	62 mm
F011/38	30 mm	38 mm	62 mm
F011/39	30 mm	39 mm	62 mm
F011/40	30 mm	40 mm	62 mm
F011/41	30 mm	41 mm	62 mm
F011/42	30 mm	42 mm	62 mm
F011/43	30 mm	43 mm	62 mm
F011/44	30 mm	44 mm	62 mm
F011/45	30 mm	45 mm	62 mm
F011/46	30 mm	46 mm	62 mm
F011/47	30 mm	47 mm	62 mm
F011/48	30 mm	48 mm	62 mm
F011/49	30 mm	49 mm	62 mm
F011/50	30 mm	50 mm	62 mm
F011/51	30 mm	51 mm	62 mm
F011/52	30 mm	52 mm	62 mm
F011/53	30 mm	53 mm	62 mm
F011/54	30 mm	54 mm	62 mm
F011/55	30 mm	55 mm	62 mm
F011/60	30 mm	60 mm	62 mm

F011/6

WELDON SHANK CORE DRILL SET

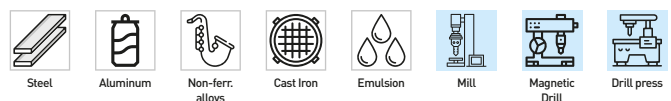
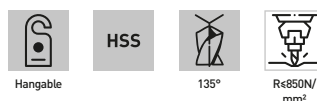
Allows a very fast cut, does not require pre-drilling and does not create any burr formation thanks to the lower effort of the cutting edge during processing.



Sizes	12 x 62 - 14 x 62 - 16 x 62 - 18 x 62 - 20 x 62 - 22 x 62 mm
Cutting capacity	30 mm
Shank	Weldon 19,05 mm

F011-XP

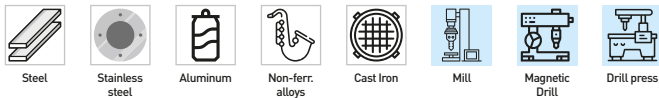
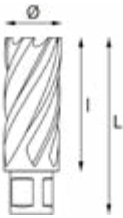
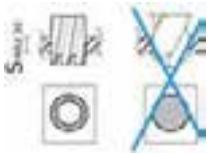
TWIST DRILLS WELDON SHANK



Art.	Ø	L	L
F011/006P	6 mm	30 mm	62 mm
F011/007P	7 mm	30 mm	62 mm
F011/008P	8 mm	30 mm	62 mm
F011/009P	9 mm	30 mm	62 mm
F011/010P	10 mm	30 mm	62 mm
F011/011P	11 mm	30 mm	62 mm

F002-
CORE DRILL WITH WELDON SHANK

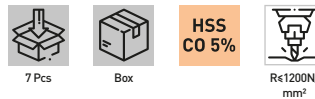
Allows a very fast cut, does not require pre-drilling and does not create any burr formation thanks to the lower effort of the cutting edge during processing.



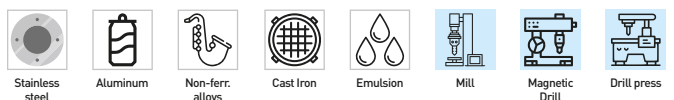
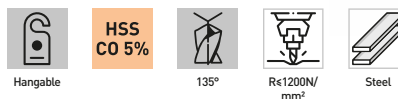
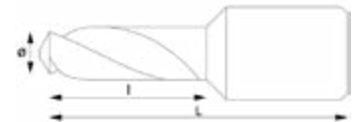
Art.	Ø	Cutting capacity	Total length
F002/12	12 mm	30 mm	62 mm
F002/13	13 mm	30 mm	62 mm
F002/14	14 mm	30 mm	62 mm
F002/15	15 mm	30 mm	62 mm
F002/16	16 mm	30 mm	62 mm
F002/17	17 mm	30 mm	62 mm
F002/18	18 mm	30 mm	62 mm
F002/19	19 mm	30 mm	62 mm
F002/20	20 mm	30 mm	62 mm
F002/21	21 mm	30 mm	62 mm
F002/22	22 mm	30 mm	62 mm
F002/23	23 mm	30 mm	62 mm
F002/24	24 mm	30 mm	62 mm
F002/25	25 mm	30 mm	62 mm
F002/26	26 mm	30 mm	62 mm
F002/27	27 mm	30 mm	62 mm
F002/28	28 mm	30 mm	62 mm
F002/29	29 mm	30 mm	62 mm
F002/30	30 mm	30 mm	62 mm
F002/31	31 mm	30 mm	62 mm
F002/32	32 mm	30 mm	62 mm
F002/33	33 mm	30 mm	62 mm
F002/34	34 mm	30 mm	62 mm
F002/35	35 mm	30 mm	62 mm
F002/36	36 mm	30 mm	62 mm
F002/37	37 mm	30 mm	62 mm
F002/38	38 mm	30 mm	62 mm
F002/39	39 mm	30 mm	62 mm
F002/40	40 mm	30 mm	62 mm
F002/41	41 mm	30 mm	62 mm
F002/42	42 mm	30 mm	62 mm
F002/43	43 mm	30 mm	62 mm
F002/44	44 mm	30 mm	62 mm
F002/45	45 mm	30 mm	62 mm
F002/46	46 mm	30 mm	62 mm
F002/47	47 mm	30 mm	62 mm
F002/48	48 mm	30 mm	62 mm
F002/49	49 mm	30 mm	62 mm
F002/50	50 mm	30 mm	62 mm
F002/55	55 mm	30 mm	62 mm
F002/60	60 mm	30 mm	62 mm

F002/6
WELDON SHANK CORE DRILL SET

Allows a very fast cut, does not require pre-drilling and does not create any burr formation thanks to the lower effort of the cutting edge during processing.



Sizes 12 x 62 - 14 x 62 - 16 x 62 - 18 x 62 - 20 x 62 - 22 x 62 mm
Shank Weldon 19,05 mm

F002-XP
TWIST DRILLS WELDON SHANK


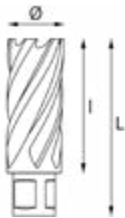
Art.	Ø	l	L
F002/006P	6 mm	30 mm	62.50 mm
F002/007P	7 mm	30 mm	62.50 mm
F002/008P	8 mm	30 mm	62.50 mm
F002/009P	9 mm	30 mm	62.50 mm
F002/010P	10 mm	30 mm	62.50 mm
F002/011P	11 mm	30 mm	62.50 mm



F002-XL

LONG TYPE CORE DRILL WITH WELDON SHANK

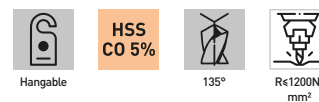
Allows a very fast cut, does not require pre-drilling and does not create any burr formation thanks to the lower effort of the cutting edge during processing.



Art.	ø	Cutting capacity	Total length
F002/12L	12 mm	50 mm	85 mm
F002/13L	13 mm	50 mm	85 mm
F002/14L	14 mm	50 mm	85 mm
F002/15L	15 mm	50 mm	85 mm
F002/16L	16 mm	50 mm	85 mm
F002/17L	17 mm	50 mm	85 mm
F002/18L	18 mm	50 mm	85 mm
F002/19L	19 mm	50 mm	85 mm
F002/20L	20 mm	50 mm	85 mm
F002/21L	21 mm	50 mm	85 mm
F002/22L	22 mm	50 mm	85 mm
F002/23L	23 mm	50 mm	85 mm
F002/24L	24 mm	50 mm	85 mm
F002/25L	25 mm	50 mm	85 mm
F002/26L	26 mm	50 mm	85 mm
F002/27L	27 mm	50 mm	85 mm
F002/28L	28 mm	50 mm	85 mm
F002/29L	29 mm	50 mm	85 mm
F002/30L	30 mm	50 mm	85 mm
F002/31L	31 mm	50 mm	85 mm
F002/32L	32 mm	50 mm	85 mm
F002/33L	33 mm	50 mm	85 mm
F002/34L	34 mm	50 mm	85 mm
F002/35L	35 mm	50 mm	85 mm
F002/36L	36 mm	50 mm	85 mm
F002/37L	37 mm	50 mm	85 mm
F002/38L	38 mm	50 mm	85 mm
F002/39L	39 mm	50 mm	85 mm
F002/40L	40 mm	50 mm	85 mm
F002/41L	41 mm	50 mm	85 mm
F002/42L	42 mm	50 mm	85 mm
F002/43L	43 mm	50 mm	85 mm
F002/44L	44 mm	50 mm	85 mm
F002/45L	45 mm	50 mm	85 mm
F002/46L	46 mm	50 mm	85 mm
F002/47L	47 mm	50 mm	85 mm
F002/48L	48 mm	50 mm	85 mm
F002/49L	49 mm	50 mm	85 mm
F002/50L	50 mm	50 mm	85 mm
F002/55L	55 mm	50 mm	85 mm
F002/60L	60 mm	50 mm	85 mm

F002-XPL

LONG TWIST DRILLS WELDON SHANK

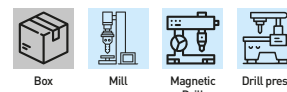


Art.	ø	L	L
F002/006PL	6 mm	55 mm	86.50 mm
F002/007PL	7 mm	55 mm	86.50 mm
F002/008PL	8 mm	55 mm	86.50 mm
F002/009PL	9 mm	55 mm	86.50 mm
F002/010PL	10 mm	55 mm	86.50 mm
F002/011PL	11 mm	55 mm	86.50 mm

F002/P

PILOT PIN

For weldon shank core drills.

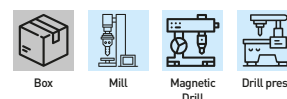


Dimensions 6,35 x 77 mm

F002/PL

PILOT PIN

For weldon shank long type core drills.



Dimensions 6,35 x 102 mm

CUP SAWS WITH HARD METAL INSERTS



The variable hard metal tooth geometry enables cutting of pipes, profiles and sheets made of stainless steel, high-alloy steel. Max cut thickness: 5 mm

THEORETICAL RPM FOR CUP SAWS WITH HARD METAL INSERTS DEPENDING ON THE MATERIAL TO BE PROCESSED

Materials to be processed	Saw diameter							Coolant
	15 - 20	21 - 25	26 - 30	31 - 40	41 - 50	51 - 70	71 - 100	
	no. of revolutions (rpm)							
Alloy steel R< 1100÷1300N/mm ²	530	420	340	270	210	160	100	Emulsion
Stainless steel	530	420	340	270	210	160	100	Emulsion
Aluminium	880	690	570	450	350	270	190	Emulsion

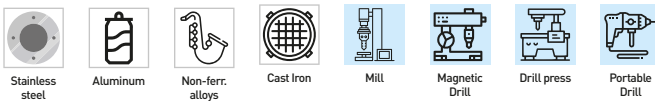
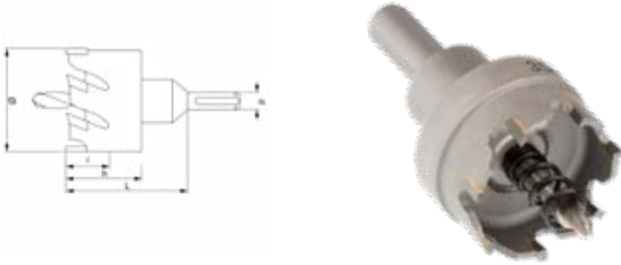




F019-

TCT CORE DRILL

With lateral chip and center drill. Maximum cutting depth 5 mm.

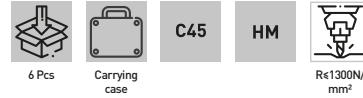


Art.	ø	h	d	L	Cutting Depth	Thread
F019/015	15 mm	28 mm	10 mm	50 mm	5 mm	-
F019/016	16 mm	28 mm	10 mm	50 mm	5 mm	-
F019/017	17 mm	28 mm	10 mm	50 mm	5 mm	-
F019/018	18 mm	28 mm	10 mm	50 mm	5 mm	-
F019/019	19 mm	28 mm	10 mm	50 mm	5 mm	-
F019/020	20 mm	28 mm	10 mm	50 mm	5 mm	-
F019/021	21 mm	28 mm	10 mm	50 mm	5 mm	-
F019/022	22 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/023	23 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/024	24 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/025	25 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/026	26 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/027	27 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/028	28 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/029	29 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/030	30 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/031	31 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/032	32 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/033	33 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/034	34 mm	28 mm	10 mm	50 mm	5 mm	M12 x 1,25
F019/035	35 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/036	36 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/037	37 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/038	38 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/039	39 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/040	40 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/041	41 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/042	42 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/043	43 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/044	44 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/045	45 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/046	46 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/047	47 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/048	48 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/049	49 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/050	50 mm	28 mm	10 mm	50 mm	5 mm	M14 x 1,5
F019/051	51 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/052	52 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/053	53 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/054	54 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/055	55 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/056	56 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/057	57 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/058	58 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/059	59 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/060	60 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/065	65 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/070	70 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/075	75 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/080	80 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/085	85 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/090	90 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/095	95 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5
F019/100	100 mm	28 mm	12 mm	50 mm	5 mm	M16 x 1,5

F019/006

TCT CORE DRILL SET

With lateral chip and center drill.

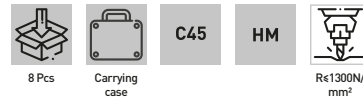


Sizes	16 mm, 18 mm, 20 mm, 22 mm, 25 mm, 30 mm
Cutting Depth	5 mm

F019/008

TCT CORE DRILL SET

With lateral chip and center drill.

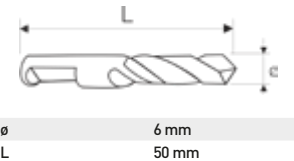


Sizes	16 mm, 18 mm, 20 mm, 22 mm, 25 mm, 30 mm, 32 mm, 35 mm
Cutting Depth	5 mm

F019/005

CENTER DRILL

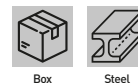
For item F019-.



F019/007

SPRING

For item F019-.



HSS CUP SAWS

Equipped with chip breaker side cut. Precision drilling of steel sheets, light alloys and metal materials in general. Drilling depth up to 5 mm.



THEORETICAL RPM FOR CORE SAWS DEPENDING ON THE MATERIAL TO BE PROCESSED

Materials to be processed	Saw diameter												Coolant
	12-17	18-24	25-32	33-38	39-44	45-51	52-57	58-64	65-70	71-80	81-90	91-100	
	no. of revolutions (rpm)												
Low alloy construction steel R< 700÷900N/mm ²	550	380	300	240	200	170	150	130	120	110	100	90	Emulsion
Alloy steel R< 1100÷1300N/mm ²	230	160	130	100	80	70	60	60	50	50	40	40	Emulsion
Stainless steel	230	160	130	100	80	70	60	60	50	50	40	40	Emulsion
Cast iron	280	190	150	120	100	90	80	70	60	60	50	40	No refriger.
Light Alloys	870	590	470	370	310	270	240	210	190	170	150	140	Emulsion
Aluminium	870	590	470	370	310	270	240	210	190	170	150	140	Emulsion
Plastic	660	450	350	280	240	210	180	160	150	130	120	100	Water No refrigeration





F015-

DRILL BIT HOLE SAW

With lateral chip and center drill.



Hangable

HSS



R $\leq 800N/mm^2$



Steel



Stainless steel



Aluminum



Non-ferr. alloys



Plastic



Cast Iron



Emulsion



Mill



Drill

Art.	ϕ	h	d	L	Thread
F015/012	12 mm	23 mm	8 mm	56 mm	M10 x 1,25
F015/013	13 mm	23 mm	8 mm	56 mm	M10 x 1,25
F015/014	14 mm	23 mm	8 mm	56 mm	M10 x 1,25
F015/015	15 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/016	16 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/017	17 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/018	18 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/019	19 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/020	20 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/021	21 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/022	22 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/023	23 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/024	24 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/025	25 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/026	26 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/027	27 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/028	28 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/029	29 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/030	30 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/031	31 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/032	32 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/033	33 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/034	34 mm	23 mm	10 mm	56 mm	M12 x 1,25
F015/035	35 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/036	36 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/037	37 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/038	38 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/039	39 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/040	40 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/041	41 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/042	42 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/043	43 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/044	44 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/045	45 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/046	46 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/047	47 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/048	48 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/049	49 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/050	50 mm	23 mm	10 mm	56 mm	M14 x 1,5
F015/051	51 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/052	52 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/053	53 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/054	54 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/055	55 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/056	56 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/057	57 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/058	58 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/059	59 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/060	60 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/065	65 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/070	70 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/075	75 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/080	80 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/085	85 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/090	90 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/095	95 mm	23 mm	12 mm	56 mm	M16 x 1,5
F015/100	100 mm	23 mm	12 mm	56 mm	M16 x 1,5

F015/006S

DRILL BIT HOLE SAW SET

With lateral chip and center drill.



6 Pcs



Carrying case



HSS



R $\leq 800N/mm^2$



Steel

Sizes

16 mm, 18 mm, 20 mm, 22 mm, 25 mm, 30 mm

F015/008S

DRILL BIT HOLE SAW SET

With lateral chip and center drill.



8 Pcs



Carrying case



HSS



R $\leq 800N/mm^2$



Steel

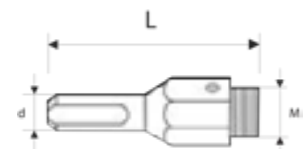
Sizes

16 mm, 18 mm, 20 mm, 22 mm, 25 mm, 30 mm, 32 mm, 35 mm

F015-A

DRILL BIT HOLE SAW ARBOR

For item F015-.



Hangable



Mill



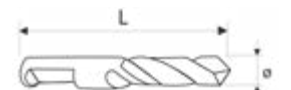
Drill

Art.	ϕ	d	L	Thread
F015/001	12 - 14 mm	8 mm	56 mm	M10 x 1,25
F015/002	15-34 mm	10 mm	56 mm	M12 x 1,25
F015/003	35-50 mm	10 mm	56 mm	M14 x 1,5
F015/004	51-100 mm	12 mm	60 mm	M16 x 1,5

F015/005

CENTER DRILL

For item F015-



Box



HSS

ϕ 6 mm
L 50 mm

F015/007

SPRING

For item F015-.



Box



Steel

BI-METAL CUP SAW

Equipped with variable toothing for cutting thin material such as steel, cast iron, aluminium, copper, bronze, brass, wood, plastic, fibreglass and plasterboard.



THEORETICAL RPM FOR CORE SAWS DEPENDING ON THE MATERIAL TO BE PROCESSED

Materials to be processed	Saw diameter																Coolant
	14 - 17	19 - 24	25 - 32	33 - 38	40 - 44	46 - 51	52 - 57	59 - 64	65 - 70	73 - 79	83 - 89	92 - 98	102 - 108	111 - 121	127 - 140	146 - 152	
	no. of revolutions (rpm)																
Low alloy construction steel R< 700÷900N/mm2	530	360	280	230	190	170	140	130	120	110	90	80	80	70	60	50	Emulsion
Alloy steel R< 1100÷1300N/mm2	210	140	110	90	80	70	60	50	50	40	40	30	30	30	20	20	Emulsion
Stainless steel	210	140	110	90	80	70	60	50	50	40	40	30	30	30	20	20	Emulsion
Cast iron	250	180	170	140	110	90	70	60	60	50	40	40	40	30	30	30	No refriger.
Brass	740	510	400	320	270	230	200	180	170	150	130	120	110	100	80	70	"Emulsion Oil"
Aluminium and light alloys	850	580	450	360	300	270	230	210	190	170	150	130	120	110	100	80	Emulsion
Wood	960	650	510	410	340	300	260	230	210	190	170	150	140	120	110	100	No refriger.
Plastic	640	430	340	270	230	200	170	150	140	130	110	100	90	80	70	60	No refriger.
Plasterboard	960	650	510	410	340	300	260	230	210	190	170	150	140	120	110	100	No refriger.

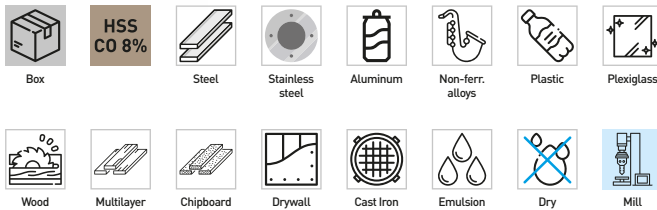




0278-

BIMETAL HOLE SAWS WITH VARIABLE TEETH

Thanks to the geometry of the variable tothing, it is possible to perform rapid and precise cuts as well as greater heat dispersion during cutting for less wear of the teeth. Furthermore, there is a considerable reduction of seizure

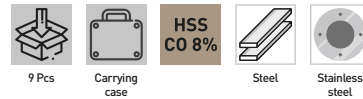


Art.	ø	ø inch
0278/014	14 mm	9/16
0278/016	16 mm	5/8
0278/017	17 mm	11/16
0278/019	19 mm	3/4
0278/020	20 mm	25/32
0278/021	21 mm	13/16
0278/022	22 mm	7/8
0278/024	24 mm	15/16
0278/025	25 mm	1
0278/027	27 mm	1-1/16
0278/029	29 mm	1-1/8
0278/030	30 mm	1-3/16
0278/032	32 mm	1-1/4
0278/033	33 mm	1-5/16
0278/035	35 mm	1-3/8
0278/037	37 mm	1-7/16
0278/038	38 mm	1-1/2
0278/040	40 mm	1-9/16
0278/041	41 mm	1-5/8
0278/043	43 mm	1-11/16
0278/044	44 mm	1-3/4
0278/046	46 mm	1-13/16
0278/048	48 mm	1-7/8
0278/051	51 mm	2
0278/052	52 mm	2-1/16
0278/054	54 mm	2-1/8
0278/057	57 mm	2-1/4
0278/059	59 mm	2-5/16
0278/060	60 mm	2-3/8
0278/064	64 mm	2-1/2
0278/065	65 mm	2-9/16
0278/067	67 mm	2-5/8
0278/068	68 mm	2-11/16
0278/070	70 mm	2-3/4
0278/073	73 mm	2-7/8
0278/076	76 mm	3
0278/079	79 mm	3-1/8
0278/083	83 mm	3-1/4
0278/085	85 mm	3-3/8
0278/089	89 mm	3-1/2
0278/092	92 mm	3-5/8
0278/095	95 mm	3-3/4
0278/098	98 mm	3-7/8
0278/102	102 mm	4
0278/105	105 mm	4-1/8
0278/108	108 mm	4-1/4
0278/111	111 mm	4-3/8
0278/114	114 mm	4-1/2
0278/121	121 mm	4-3/4
0278/127	127 mm	5
0278/140	140 mm	5-1/2
0278/152	152 mm	6

0278/002S

HOLE SAW SET

Electrician kit.

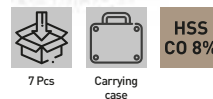


Hole saw	22 - 29 mm
Corresponding arbors, adapter, bits	0712/600
Hole saw	35 - 44 mm
Corresponding arbors, adapter, bits	0712/800
Hole saw	51 - 64 mm
Corresponding arbors, adapter, bits	0712/900

0278/005S

HOLE SAW SET

Repairman set

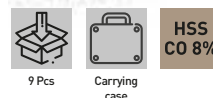


Hole saw	22 - 25 - 29 mm
Corresponding arbors, adapter, bits	0712/600
Hole saw	32 - 38 mm
Corresponding arbors, adapter, bits	0712/900

0278/008S

HOLE SAW SET

Plumber set

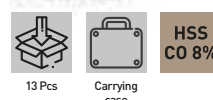


Hole saw	19 - 22 - 29 mm
Corresponding arbors, adapter, bits	0712/600
Hole saw	38 - 44 - 57 mm
Corresponding arbors, adapter, bits	0712/800 - 0712/900

0278/009S

HOLE SAW SET

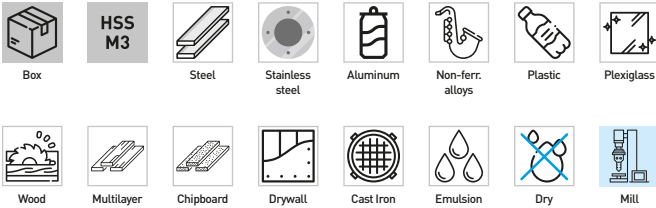
Installer set



Hole saw	19 - 22 - 29 mm
Corresponding arbors, adapter, bits	0712/600 - 0712/900 - 0712/300
Hole saw	35 - 38 - 44 - 51 - 57 - 64 mm
Corresponding arbors, adapter, bits	0712/800

0712-
BIMETAL HOLE SAWS WITH VARIABLE TEETH

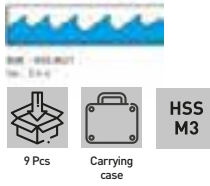
Thanks to the geometry of the variable toothting, it is possible to perform rapid and precise cuts as well as greater heat dispersion during cutting for less wear of the teeth. Furthermore, there is a considerable reduction of seizure



Art.	Ø	Ø inch
0712/014	14 mm	9/16
0712/016	16 mm	5/8
0712/017	17 mm	11/16
0712/019	19 mm	3/4
0712/020	20 mm	25/32
0712/021	21 mm	13/16
0712/022	22 mm	7/8
0712/024	24 mm	15/16
0712/025	25 mm	1
0712/027	27 mm	1-1/16
0712/029	29 mm	1-1/8
0712/030	30 mm	1-3/16
0712/032	32 mm	1-1/4
0712/033	33 mm	1-5/16
0712/035	35 mm	1-3/8
0712/037	37 mm	1-7/16
0712/038	38 mm	1-1/2
0712/040	40 mm	1-9/16
0712/041	41 mm	1-5/8
0712/043	43 mm	1-11/16
0712/044	44 mm	1-3/4
0712/046	46 mm	1-13/16
0712/048	48 mm	1-7/8
0712/051	51 mm	2
0712/052	52 mm	2-1/16
0712/054	54 mm	2-1/8
0712/057	57 mm	2-1/4
0712/059	59 mm	2-5/16
0712/060	60 mm	2-3/8
0712/064	64 mm	2-1/2
0712/065	65 mm	2-9/16
0712/067	67 mm	2-5/8
0712/068	68 mm	2-11/16
0712/070	70 mm	2-3/4
0712/073	73 mm	2-7/8
0712/076	76 mm	3
0712/079	79 mm	3-1/8
0712/083	83 mm	3-1/4
0712/085	85 mm	3-3/8
0712/089	89 mm	3-1/2
0712/092	92 mm	3-5/8
0712/095	95 mm	3-3/4
0712/098	98 mm	3-7/8
0712/102	102 mm	4
0712/105	105 mm	4-1/8
0712/108	108 mm	4-1/4
0712/111	111 mm	4-3/8
0712/114	114 mm	4-1/2
0712/121	121 mm	4-3/4
0712/127	127 mm	5
0712/140	140 mm	5-1/2
0712/152	152 mm	6

0712/002
HOLE SAW SET

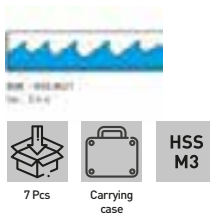
Electrician kit.



Hole saw	22 - 29 mm
Corresponding arbors, adapter, bits	0712/600
Hole saw	35 - 44 mm
Corresponding arbors, adapter, bits	0712/800
Hole saw	51 - 64 mm
Corresponding arbors, adapter, bits	0712/900

0712/005
HOLE SAW SET

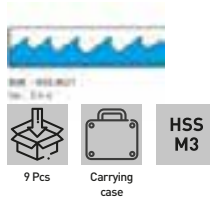
Repairman set.



Hole saw	22 - 25 - 29 mm
Corresponding arbors, adapter, bits	0712/600
Hole saw	32 - 38 mm
Corresponding arbors, adapter, bits	0712/900

0712/008
HOLE SAW SET

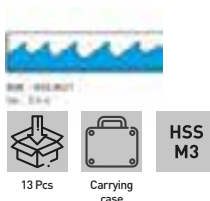
Plumber set



Hole saw	19 - 22 - 29 mm
Corresponding arbors, adapter, bits	0712/600
Hole saw	38 - 44 - 57 mm
Corresponding arbors, adapter, bits	0712/800 - 0712/900

0712/009
HOLE SAW SET

Installer set.



Hole saw	19 - 22 - 29 mm
Corresponding arbors, adapter, bits	0712/600 - 0712/900 - 0712/300
Hole saw	35 - 38 - 44 - 51 - 57 - 64 mm
Corresponding arbors, adapter, bits	0712/800



0712/010

HOLE SAW SET

Industry kit.



21 Pcs



HSS
M3



Hole saw	19 - 22 - 29 mm
Corresponding arbors, adapter, bits	0712/600
Hole saw	35 - 38 - 44 - 51 - 57 - 64 - 76 - 83 - 92 - 95 - 105 - 114 mm
Corresponding arbors, adapter, bits	0712/600 - 0712/900 - 0712/300
Extension	300 mm

0712-X00

DRILL BIT

Suitable for all brands.



HSS

Box

Art.	Stem	For arbor	Length	Pack
0712/300	Ø 6,35 mm	0712/600	105 mm	10
0712/200	Ø 6,35 mm	0712/700 - 800	75 mm	10

0712/900

ARBOR ADAPTER FOR HOLE SAWS



Box

Gear Reduction ratio	1/2" - 5/8"
For arbor	0712/600 - 0712/700

0712-X0

HOLE SAW ARBOR WITH DRILL BIT

Hexagonal connection, suitable for all brands.



Box

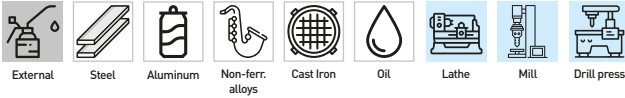
HSS

Art.	Shank	Stem	Hole saw	Thread
0712/600	Shank Round	Ø 6,35 mm	Ø 14÷30 mm	1/2"
0712/700	Shank Hexagonal	Ø 9,5 mm	Ø 14÷30 mm	1/2"
0712/800	Shank Hexagonal	Ø 11 mm	Ø 32÷152 mm	5/8"



A208B-
MACHINE REAMER

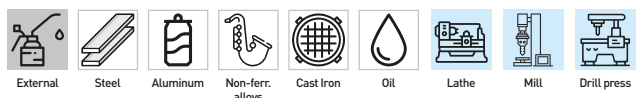
Ground for H7 couplings. Right-hand cut, left-hand helical cutting edges, morse taper attachment. They can be used mainly for through holes but thanks to the short mouth it is also possible to bore blind holes.



Art.	øH7	L	I	MT
A208B/05	5 mm	133 mm	23 mm	1
A208B/06	6 mm	138 mm	26 mm	1
A208B/07	7 mm	150 mm	31 mm	1
A208B/08	8 mm	156 mm	33 mm	1
A208B/09	9 mm	162 mm	36 mm	1
A208B/10	10 mm	168 mm	38 mm	1
A208B/11	11 mm	175 mm	41 mm	1
A208B/12	12 mm	182 mm	44 mm	1
A208B/13	13 mm	182 mm	44 mm	1
A208B/14	14 mm	189 mm	47 mm	1
A208B/15	15 mm	204 mm	50 mm	2
A208B/16	16 mm	210 mm	52 mm	2
A208B/17	17 mm	214 mm	54 mm	2
A208B/18	18 mm	219 mm	56 mm	2
A208B/19	19 mm	223 mm	58 mm	2
A208B/20	20 mm	228 mm	60 mm	2
A208B/21	21 mm	232 mm	62 mm	2
A208B/22	22 mm	237 mm	64 mm	2
A208B/23	23 mm	241 mm	66 mm	2
A208B/24	24 mm	268 mm	68 mm	3
A208B/25	25 mm	268 mm	68 mm	3
A208B/26	26 mm	273 mm	70 mm	3
A208B/27	27 mm	277 mm	71 mm	3
A208B/28	28 mm	277 mm	71 mm	3
A208B/29	29 mm	281 mm	73 mm	3
A208B/30	30 mm	281 mm	73 mm	3
A208B/31	31 mm	285 mm	75 mm	3
A208B/32	32 mm	317 mm	77 mm	4
A208B/34	34 mm	321 mm	78 mm	4
A208B/35	35 mm	321 mm	78 mm	4
A208B/36	36 mm	325 mm	79 mm	4
A208B/38	38 mm	329 mm	81 mm	4
A208B/40	40 mm	329 mm	81 mm	4

A212-
MACHINE REAMER

Ground for H7 couplings. Right-hand cut, left-hand helical cutting edges, cylindrical attachment. They can be used mainly for through holes but thanks to the short mouth it is also possible to bore blind holes.



Art.	øH7	L	I	d h9	Z
A212/02.00	2 mm	49 mm	11 mm	2 mm	4
A212/02.50	2,5 mm	57 mm	14 mm	2,5 mm	4
A212/03.00	3 mm	61 mm	15 mm	3 mm	4
A212/03.50	3,5 mm	70 mm	18 mm	3,5 mm	6
A212/04.50	4,5 mm	80 mm	21 mm	4,5 mm	6
A212/05.00	5 mm	86 mm	23 mm	5 mm	6
A212/05.50	5,5 mm	93 mm	26 mm	5,5 mm	6
A212/06.00	6 mm	93 mm	26 mm	6 mm	6
A212/06.50	6,5 mm	101 mm	28 mm	6,5 mm	6
A212/07.00	7 mm	109 mm	31 mm	7 mm	6
A212/07.50	7,5 mm	109 mm	31 mm	7 mm	6
A212/08.00	8 mm	117 mm	33 mm	8 mm	6
A212/08.50	8,5 mm	117 mm	33 mm	8 mm	6
A212/09.00	9 mm	125 mm	36 mm	9 mm	6
A212/09.50	9,5 mm	125 mm	36 mm	9 mm	6
A212/10.00	10 mm	133 mm	38 mm	10 mm	6
A212/11.00	11 mm	142 mm	41 mm	10 mm	6
A212/12.00	12 mm	151 mm	44 mm	10 mm	6
A212/13.00	13 mm	151 mm	44 mm	10 mm	6
A212/14.00	14 mm	160 mm	47 mm	12 mm	6
A212/15.00	15 mm	162 mm	50 mm	12 mm	8
A212/16.00	16 mm	170 mm	52 mm	12 mm	8

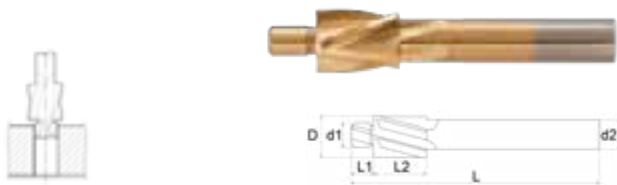




L018-

SOLID CAP SCREW COUNTER BORE BEFORE THREAD GRADE

For pre-drilled threads.

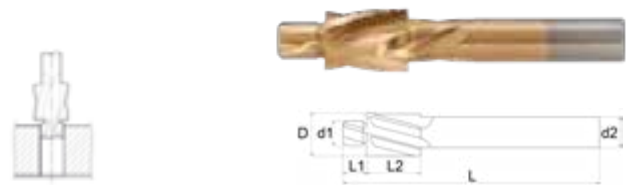


Art.	Screw	D	d1	d2	L1	L2	L
L018/03	M3	6 mm	2,5 mm	5 mm	4 mm	14 mm	71 mm
L018/04	M4	8 mm	3,3 mm	5 mm	5 mm	14 mm	71 mm
L018/05	M5	10 mm	4,2 mm	8 mm	6 mm	18 mm	80 mm
L018/06	M6	11 mm	5,0 mm	8 mm	7 mm	18 mm	80 mm
L018/08	M8	15 mm	6,8 mm	12,5 mm	9 mm	22 mm	100 mm
L018/10	M10	18 mm	8,5 mm	12,5 mm	14 mm	22 mm	100 mm
L018/12	M12	20 mm	10,2 mm	12,5 mm	14 mm	22 mm	100 mm

L019-

SOLID CAP SCREW COUNTER BORE FINE GRADE

For through holes for the execution of precision screws or bolts.



Art.	Screw	D	d1	d2	L1	L2	L
L019/03	M3	6 mm	3,2 mm	5 mm	4 mm	14 mm	71 mm
L019/04	M4	8 mm	4,3 mm	5 mm	5 mm	14 mm	71 mm
L019/05	M5	10 mm	5,3 mm	8 mm	6 mm	18 mm	80 mm
L019/06	M6	11 mm	6,4 mm	8 mm	7 mm	18 mm	80 mm
L019/08	M8	15 mm	8,4 mm	12,5 mm	9 mm	22 mm	100 mm
L019/10	M10	18 mm	10,5 mm	12,5 mm	14 mm	22 mm	100 mm
L019/12	M12	20 mm	13,0 mm	12,5 mm	14 mm	22 mm	100 mm

L020-

COUNTERBORER WITH SOLID PILOT STRAIGHT SHANK MEDIUM TYPE

For through holes.

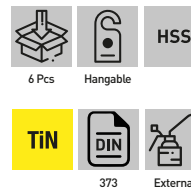


Art.	Screw	D	d1	d2	L1	L2	L
L020/03	M 3	6 mm	3,4 mm	5 mm	4 mm	14 mm	71 mm
L020/04	M 4	8 mm	4,5 mm	5 mm	5 mm	14 mm	71 mm
L020/05	M 5	10 mm	5,5 mm	8 mm	6 mm	18 mm	80 mm
L020/06	M 6	11 mm	6,6 mm	8 mm	7 mm	18 mm	80 mm
L020/08	M 8	15 mm	9 mm	12,5 mm	9 mm	22 mm	100 mm
L020/10	M 10	18 mm	11 mm	12,5 mm	14 mm	22 mm	100 mm
L020/12	M 12	20 mm	13,5 mm	12,5 mm	14 mm	22 mm	100 mm

L018S

SOLID CAP SCREW COUNTER BORE SET BEFORE THREAD

For pre-drilled threads.

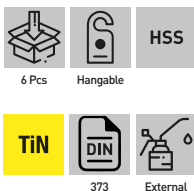


For screws M3, M4, M5, M6, M8, M10

L019S

SOLID CAP SCREW COUNTER BORE SET FINE GRADE

For through holes for the execution of precision screws or bolts.

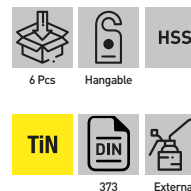


For screws M3, M4, M5, M6, M8, M10

L020S

SOLID CAP SCREW COUNTER BORE SET MEDIUM GRADE

For through holes.



For screws M3, M4, M5, M6, M8, M10

L020
7 PCS COUNTERBORER WITH SOLID PILOT STRAIGHT SHANK

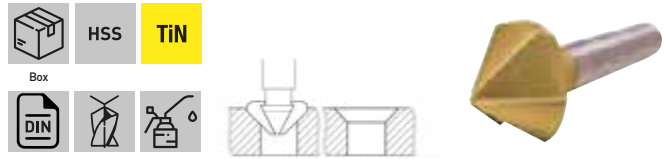
For through holes.



For screws M3, M4, M5, M6, M8, M10, M12

S0X
NEW
90° THREE FLUTES COUNTERSINK

With ground edges and grooves machined from solid, to perform conical countersinks without vibrations.



Art.	Ø max	Screws M	Stem
S006	6,3 mm	3	Ø 5 mm
S006/A	6 mm	3 - DIN 74 AF	Ø 5 mm
S008	8 mm	4 - DIN 74 AF	Ø 6 mm
S010	10,4 mm	5	Ø 6 mm
S010/A	10 mm	5- DIN 74 AF	Ø 6 mm
S012	12,4 mm	6	Ø 8 mm
S016	16,5 mm	8	Ø 10 mm
S020	20,5 mm	10	Ø 10 mm
S025	25 mm	12	Ø 10 mm
S028	28 mm	14	Ø 12 mm
S031	31 mm	16	Ø 12 mm
S040	40 mm	--	Ø 15 mm

S001
90° THREE FLUTES COUNTERSINK SET

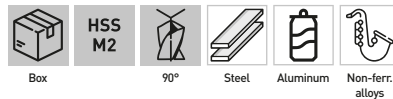
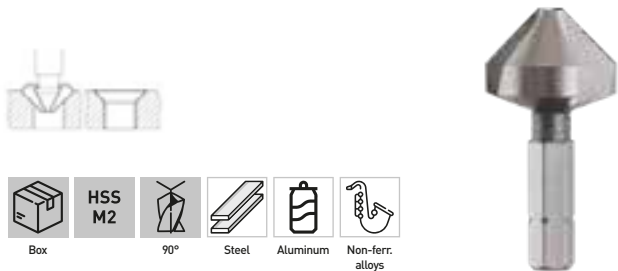
With ground edges and grooves machined from solid, to perform conical countersinks without vibrations.



Ø max 6 - 8 - 10 - 12,4 - 16,5 - 20,5 mm

S026-
COUNTERSINK WITH HEX SHANK

To perform conical countersinks without vibrations.



Art.	Ø	Total length	Shank dimensions
S026/06	6,3 mm	31 mm	1/4" HEX x 25 mm
S026/08	8,3 mm	31 mm	1/4" HEX x 25 mm
S026/10	10,4 mm	34 mm	1/4" HEX x 25 mm
S026/12	12,4 mm	35 mm	1/4" HEX x 25 mm
S026/16	16,5 mm	40 mm	1/4" HEX x 25 mm
S026/20	20,5 mm	41 mm	1/4" HEX x 25 mm

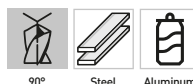
S026/06-20S
COUNTERSINK SET WITH HEX SHANK

To perform conical countersinks without vibrations.


 Sizes 6,3 - 8,3 - 10,4 - 12,4 - 16,5 - 20,5 mm
 Shank dimensions 1/4" HEX x 25 mm

S026/06-20SM
COUNTERSINK SET WITH HEX SHANK

To perform conical countersinks without vibrations. With handle and magnetic extension.


 Sizes 6,3 - 8,3 - 10,4 - 12,4 - 16,5 - 20,5 mm
 Shank dimensions 1/4" HEX x 25 mm



S1-

NEW

60° THREE FLUTES COUNTERSINK

With ground edges and grooves machined from solid, to perform conical countersinks without vibrations.



Art.	ø max	Length	Stem
S1/06	6.3 mm	45 mm	5 mm
S1/08	8 mm	50 mm	6 mm
S1/10	10 mm	53 mm	6 mm
S1/12	12,5 mm	56 mm	8 mm
S1/16	16 mm	63 mm	10 mm
S1/20	20 mm	67 mm	10 mm
S1/25	25 mm	71 mm	10 mm

A014-

TAPER DRILL

With cylindrical shank.



Art.	ø	Total length
A014/03-14	3 - 14 mm	58 mm
A014/06-20	6 - 20 mm	63 mm
A014/16-30	16 - 30,5 mm	72 mm
A014/26-40	26 - 40 mm	86 mm
A014/36-50	36 - 50 mm	89 mm
A014/40-61	40 - 61 mm	94 mm
A014/03-31	3 - 31 mm	104 mm
A014/03-22	3 - 22,5 mm	76 mm

F639

STEP DRILL BITS

For creating and enlarging holes in sheet metal.



Stem	ø
	6 + 39 (6-9-12-15-18-21-24-27-30-33-36-39) mm

S001/60

NEW

60° THREE FLUTES COUNTERSINK SET

With ground edges and grooves machined from solid, to perform conical countersinks without vibrations.



ø max	6-8-10-12,5-16-20 mm
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A014/03-30S

TAPER DRILLS SET

With cylindrical shank.



Sizes	3-14 - 6-20 - 16-30,5 mm
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F430

STEP DRILL BITS SET

For creating and enlarging holes in sheet metal



Stem	ø
	6 - 8 - 10 mm 4 + 12 - 6 + 20 - 6 + 30 mm

F23X
STEP DRILL BITS

For creating and enlarging holes in sheet metal, with interchangeable point.



Art.	Stem	Ø
F232	10 mm	2,5 ÷ 32 (2,5-6,3-11,2-14,5-18,2-22,3-27,9-32) mm
F238	10 mm	2,5 ÷ 38 (2,5-6,3-13-16-19-21-23-26-29-32-35-38) mm

P037-
MILLING DRILLS

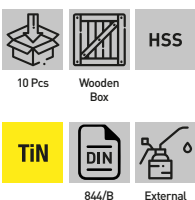
For drilling and milling of thin materials.



Art.	Ø	Stem	Total length
P037/6	6 mm	6 mm	90 mm
P037/8	8 mm	8 mm	90 mm

F001/10
SET FRONTAL ROUGHING END MILLS

regular length, center cutting, weldon shank.



Mill	Ø
6	6 8 10 12 14 16 18 20 22 25 mm
8	6 10 12 14 16 18 20 22 25 mm

F025
SPARE PART POINT

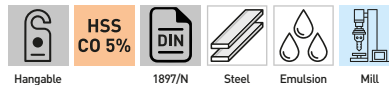
Suitable with F232 F238.



Stem	4 mm
Spare part point	Ø 2,5 mm

P036-
SPOT DRILLS

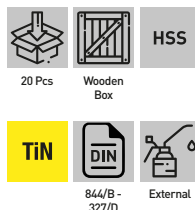
To remove welding spots and to drill metal sheets in general.



Art.	Ø	Total length
P036/06	6 mm	66 mm
P036/07	7 mm	74 mm
P036/08	8 mm	79 mm
P036/10	10 mm	89 mm

F001/20
SET END MILLS

Two and four flute, regular length, weldon shank, center cutting.



2 Flute mill	Ø 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 - 18 - 20 mm
Stem	Ø 6 - 6 - 6 - 6 - 10 - 10 - 12 - 12 - 16 - 20 mm
4 Flute mill	Ø 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 - 18 - 20 mm
Stem	Ø 6 - 6 - 6 - 6 - 10 - 10 - 12 - 12 - 16 - 20 mm



F005-

2 FLUTE STRAIGHT SHANK END MILL

For finish, cylindrical shank, weldon connection, normal series.



Art.	D	d	l	Z	L
F005/03	3 mm	6 mm	5 mm	2	49 mm
F005/04	4 mm	6 mm	7 mm	2	51 mm
F005/05	5 mm	6 mm	8 mm	2	52 mm
F005/06	6 mm	6 mm	8 mm	2	52 mm
F005/08	8 mm	10 mm	11 mm	2	61 mm
F005/10	10 mm	10 mm	13 mm	2	63 mm
F005/12	12 mm	12 mm	16 mm	2	73 mm



Art.	D	d	l	Z	L
F005/14	14 mm	12 mm	16 mm	2	73 mm
F005/16	16 mm	16 mm	19 mm	2	79 mm
F005/18	18 mm	16 mm	19 mm	2	79 mm
F005/20	20 mm	20 mm	22 mm	2	88 mm
F005/22	22 mm	20 mm	22 mm	2	88 mm
F005/24	24 mm	20 mm	26 mm	2	92 mm
F005/25	25 mm	20 mm	26 mm	2	92 mm

F006-

4 FLUTE STRAIGHT SHANK END MILL

For finish, cylindrical shank, weldon connection, normal series.



Art.	D	d	l	Z	L
F006/03	3 mm	6 mm	8 mm	4	52 mm
F006/04	4 mm	6 mm	11 mm	4	55 mm
F006/05	5 mm	6 mm	13 mm	4	57 mm
F006/06	6 mm	6 mm	13 mm	4	57 mm
F006/08	8 mm	10 mm	19 mm	4	69 mm
F006/10	10 mm	10 mm	22 mm	4	72 mm



Art.	D	d	l	Z	L
F006/12	12 mm	12 mm	26 mm	4	83 mm
F006/14	14 mm	12 mm	26 mm	4	83 mm
F006/16	16 mm	16 mm	32 mm	4	92 mm
F006/18	18 mm	16 mm	32 mm	4	92 mm
F006/20	20 mm	20 mm	38 mm	4	104 mm

F007-

4 FLUTE STRAIGHT SHANK ROUGHING END MILL

Regular length weldon shank center cutting.



Art.	D	d	l	Z	L
F007/06	6 mm	6 mm	13 mm	4	57 mm
F007/07	7 mm	10 mm	16 mm	4	66 mm
F007/08	8 mm	10 mm	19 mm	4	69 mm
F007/09	9 mm	10 mm	19 mm	4	69 mm
F007/10	10 mm	10 mm	22 mm	4	72 mm
F007/11	11 mm	12 mm	22 mm	4	76 mm
F007/12	12 mm	12 mm	26 mm	4	83 mm
F007/13	13 mm	12 mm	26 mm	4	83 mm



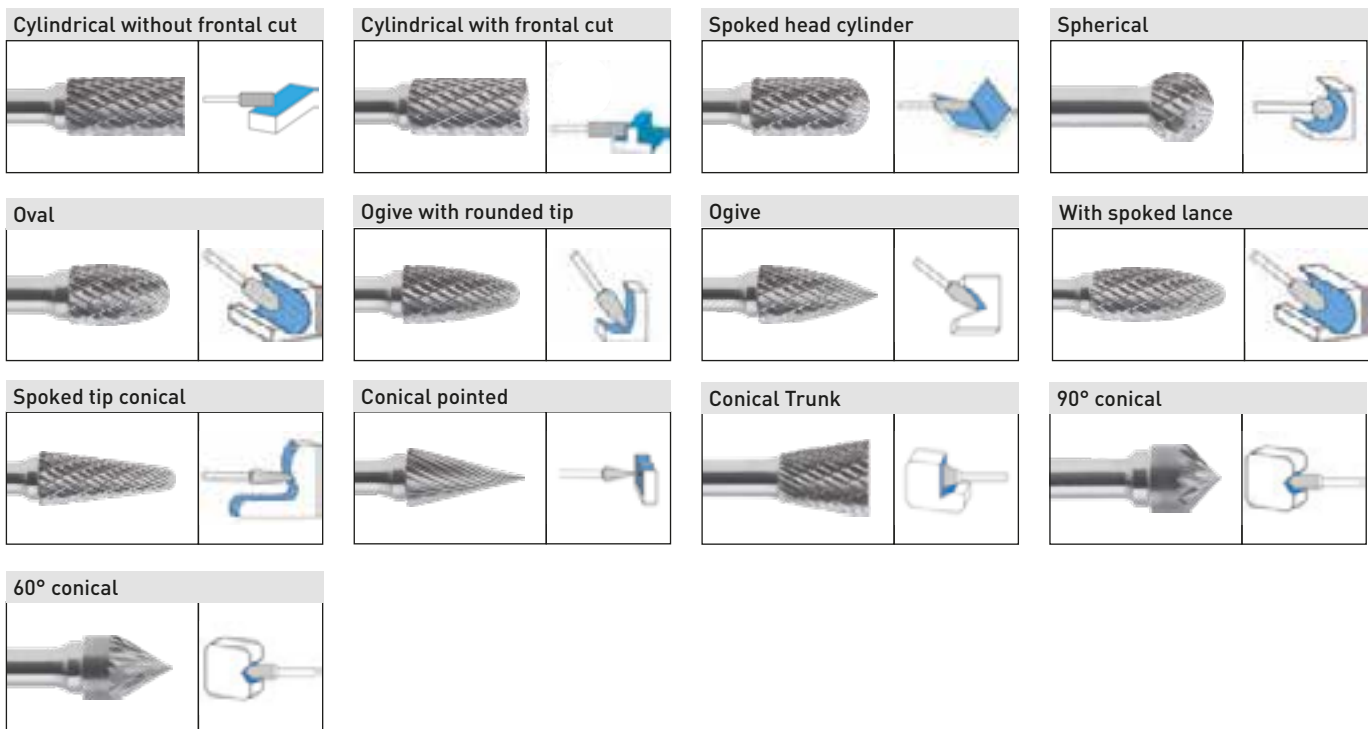
Art.	D	d	l	Z	L
F007/14	14 mm	12 mm	26 mm	4	83 mm
F007/15	15 mm	12 mm	26 mm	4	83 mm
F007/16	16 mm	16 mm	32 mm	4	92 mm
F007/18	18 mm	16 mm	32 mm	4	92 mm
F007/20	20 mm	20 mm	38 mm	4	104 mm
F007/22	22 mm	20 mm	38 mm	4	104 mm
F007/25	25 mm	25 mm	45 mm	4	121 mm



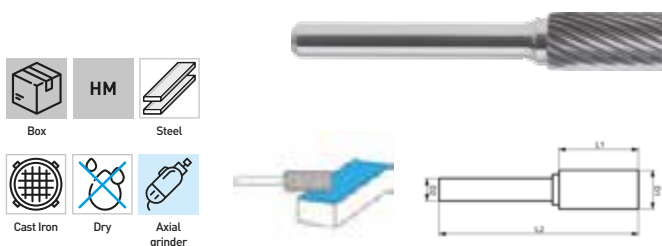
HARD METAL ROTARY MILLING MACHINES

Cut type	Representation	Description
Standard Cut		Suitable for cutting steel, hardened steel, cast iron, weld seams and metal materials in general.
Cross cut		Suitable for treated steel, stainless steel, metal materials in general. Thanks to this type of cut, vibrations are considerably reduced.
Aluminium cutting		Suitable for aluminium, magnesium, plastics and hard rubber.

TYOLOGIES OF SHAPES AND THEIR USE

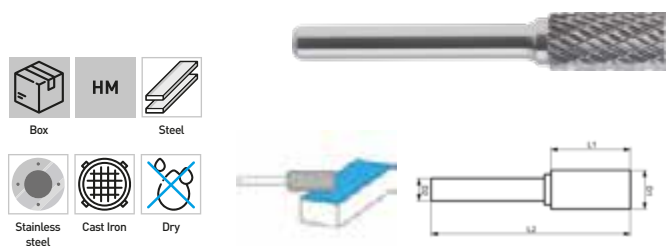


AXSC CYLINDRICAL ROTARY CUTTERS WITHOUT FACE CUT



Art.	D1	L1	D2	L2
A02SC3	ø2 mm	10 mm	3 mm	38 mm
A06SC6	ø6 mm	16 mm	6 mm	61 mm
A08SC6	ø8 mm	20 mm	6 mm	65 mm
A10SC6	ø10 mm	20 mm	6 mm	65 mm
A12SC6	ø12 mm	25 mm	6 mm	70 mm
A16SC6	ø16 mm	25 mm	6 mm	70 mm

AXDC ROTARY BURRS Diamond cut

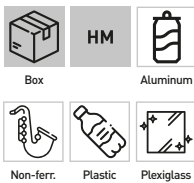


Art.	D1	L1	D2	L2
A02DC3	ø2 mm	10 mm	3 mm	38 mm
A06DC6	ø6 mm	16 mm	6 mm	61 mm
A08DC6	ø8 mm	20 mm	6 mm	65 mm
A10DC6	ø10 mm	20 mm	6 mm	65 mm
A12DC6	ø12 mm	25 mm	6 mm	70 mm
A16DC6	ø16 mm	25 mm	6 mm	70 mm



A12AL6

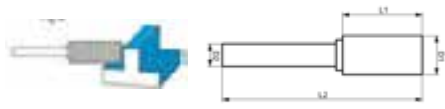
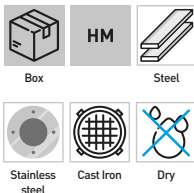
ROTARY BURRS FOR ALUMINIUM



D1	ø12 mm
L1	25 mm
D2	6 mm
L2	70 mm

BXDC

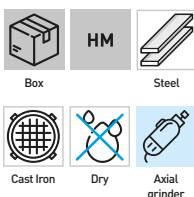
DIAMOND CUT ROTARY BURRS



Art.	D1	L1	D2	L2
B02DC3	ø2 mm	10 mm	3 mm	38 mm
B03DC3	ø3 mm	13 mm	3 mm	38 mm
B04DC3	ø4 mm	13 mm	3 mm	41 mm
B04DC6	ø4 mm	13 mm	6 mm	58 mm
B06DC6	ø6 mm	16 mm	6 mm	61 mm
B08DC6	ø8 mm	20 mm	6 mm	65 mm
B10DC6	ø10 mm	20 mm	6 mm	65 mm
B12DC6	ø12 mm	25 mm	6 mm	70 mm
B16DC6	ø16 mm	25 mm	6 mm	70 mm
B19DC6	ø19 mm	25 mm	6 mm	70 mm
B22DC6	ø22 mm	25 mm	6 mm	70 mm
B25DC6	ø25 mm	25 mm	6 mm	70 mm

BXSCXL

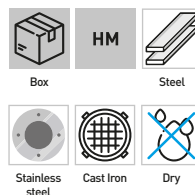
SINGLE CUT LONG ROTARY BURRS



Art.	D1	L1	D2	L2
B02SC3L	ø2 mm	10 mm	3 mm	65 mm
B03SC3L	ø3 mm	13 mm	3 mm	65 mm
B08SC6L	ø8 mm	20 mm	6 mm	120 mm
B10SC6L	ø10 mm	20 mm	6 mm	120 mm
B12SC6L	ø12 mm	25 mm	6 mm	120 mm

BXSC

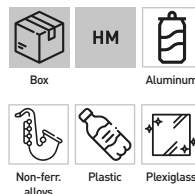
SINGLE CUT ROTARY BURRS



Art.	D1	L1	D2	L2
B02SC3	ø2 mm	10 mm	3 mm	38 mm
B03SC3	ø3 mm	13 mm	3 mm	38 mm
B04SC3	ø4 mm	13 mm	3 mm	41 mm
B04SC6	ø4 mm	13 mm	6 mm	58 mm
B06SC6	ø6 mm	16 mm	6 mm	61 mm
B08SC6	ø8 mm	20 mm	6 mm	65 mm
B10SC6	ø10 mm	20 mm	6 mm	65 mm
B12SC6	ø12 mm	25 mm	6 mm	70 mm
B16SC6	ø16 mm	25 mm	6 mm	70 mm

BXAL

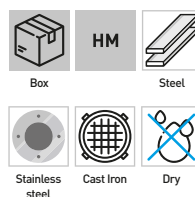
ROTARY BURRS FOR ALUMINIUM



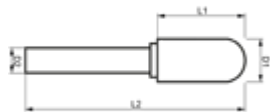
Art.	D1	L1	D2	L2
B06AL6	ø6 mm	16 mm	6 mm	61 mm
B08AL6	ø8 mm	20 mm	6 mm	65 mm
B10AL6	ø10 mm	20 mm	6 mm	65 mm
B12AL6	ø12 mm	25 mm	6 mm	70 mm

BXDCXL

CARBIDE ROTARY BURRS



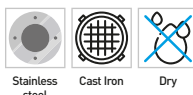
Art.	D1	L1	D2	L2
B02DC3L	ø2 mm	10 mm	3 mm	65 mm
B03DC3L	ø3 mm	13 mm	3 mm	65 mm
B08DC6L	ø8 mm	20 mm	6 mm	120 mm
B10DC6L	ø10 mm	20 mm	6 mm	120 mm
B12DC6L	ø12 mm	25 mm	6 mm	120 mm

CXSC
SINGLE CUT ROTARY BURRS


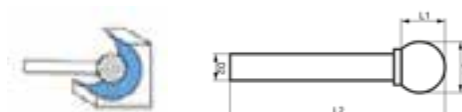
Art.	D1	L1	D2	L2
C02SC3	ø2 mm	10 mm	3 mm	38 mm
C03SC3	ø3 mm	13 mm	3 mm	38 mm
C04SC3	ø4 mm	13 mm	3 mm	58 mm
C04SC6	ø4 mm	13 mm	6 mm	58 mm
C06SC6	ø6 mm	16 mm	6 mm	61 mm
C08SC6	ø8 mm	20 mm	6 mm	65 mm
C10SC6	ø10 mm	20 mm	6 mm	65 mm
C12SC6	ø12 mm	25 mm	6 mm	70 mm
C16SC6	ø16 mm	25 mm	6 mm	70 mm

CXAL
ROTARY BURRS FOR ALUMINIUM

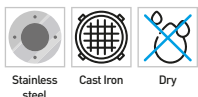

Art.	D1	L1	D2	L2
C06AL6	ø6 mm	16 mm	6 mm	61 mm
C08AL6	ø8 mm	20 mm	6 mm	65 mm
C10AL6	ø10 mm	20 mm	6 mm	65 mm
C12AL6	ø12 mm	25 mm	6 mm	70 mm

CXDC
DIAMOND CUT ROTARY BURRS


Art.	D1	L1	D2	L2
C02DC3	ø2 mm	10 mm	3 mm	38 mm
C03DC3	ø3 mm	13 mm	3 mm	38 mm
C04DC3	ø4 mm	13 mm	3 mm	38 mm
C04DC6	ø4 mm	13 mm	6 mm	38 mm
C06DC6	ø6 mm	16 mm	6 mm	61 mm
C08DC6	ø8 mm	20 mm	6 mm	65 mm
C10DC6	ø10 mm	20 mm	6 mm	65 mm
C12DC6	ø12 mm	25 mm	6 mm	70 mm
C16DC6	ø16 mm	25 mm	6 mm	70 mm
C19DC6	ø19 mm	25 mm	6 mm	70 mm
C22DC6	ø22 mm	25 mm	6 mm	70 mm
C25DC6	ø25 mm	25 mm	6 mm	70 mm

DXSC
SINGLE CUT ROTARY BURRS


Art.	D1	L1	D2	L2
D03SC3	ø3 mm	2.7 mm	3 mm	38 mm
D04SC6	ø4 mm	3.6 mm	6 mm	38 mm
D06SC6	ø6 mm	5.4 mm	6 mm	50 mm
D08SC6	ø8 mm	7.2 mm	6 mm	52 mm
D10SC6	ø10 mm	9 mm	6 mm	54 mm
D12SC6	ø12 mm	10.8 mm	6 mm	56 mm
D16SC6	ø16 mm	14.4 mm	6 mm	60 mm

DXDC
DIAMOND CUT ROTARY BURRS


Art.	D1	L1	D2	L2
D03DC3	ø3 mm	2.7 mm	3 mm	38 mm
D04DC6	ø4 mm	3.6 mm	6 mm	38 mm
D06DC6	ø6 mm	5.4 mm	6 mm	50 mm
D08DC6	ø8 mm	7.2 mm	6 mm	52 mm
D10DC6	ø10 mm	9 mm	6 mm	54 mm
D12DC6	ø12 mm	10.8 mm	6 mm	56 mm
D16DC6	ø16 mm	14.4 mm	6 mm	60 mm
D19DC6	ø19 mm	17.4 mm	6 mm	64 mm

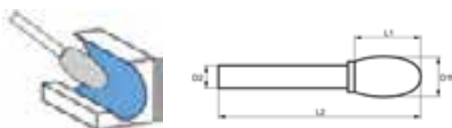
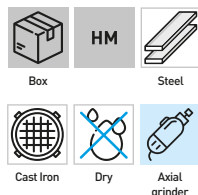
DXAL
ROTARY BURRS FOR ALUMINIUM


Art.	D1	L1	D2	L2
D06AL6	ø6 mm	5.4 mm	6 mm	50 mm
D08AL6	ø8 mm	7.2 mm	6 mm	52 mm
D10AL6	ø10 mm	9 mm	6 mm	54 mm



EXSC

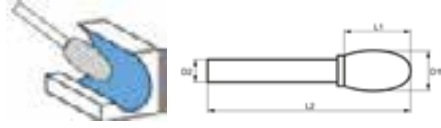
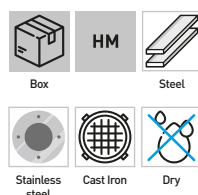
SINGLE CUT ROTARY BURRS



Art.	D1	L1	D2	L2
E08SC6	ø8 mm	13 mm	6 mm	58 mm
E10SC6	ø10 mm	16 mm	6 mm	61 mm
E12SC6	ø12 mm	20 mm	6 mm	65 mm
E16SC6	ø16 mm	25 mm	6 mm	70 mm

EXDC

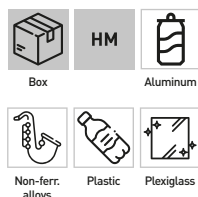
DIAMOND CUT ROTARY BURRS



Art.	D1	L1	D2	L2
E08DC6	ø8 mm	13 mm	6 mm	58 mm
E10DC6	ø10 mm	16 mm	6 mm	61 mm
E12DC6	ø12 mm	20 mm	6 mm	65 mm
E16DC6	ø16 mm	25 mm	6 mm	70 mm

EXAL

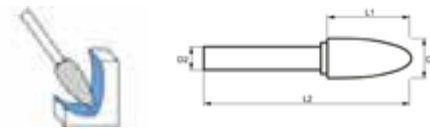
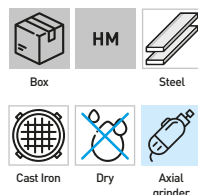
ROTARY BURRS FOR ALUMINIUM



Art.	D1	L1	D2	L2
E10AL6	10 mm	16 mm	6 mm	61 mm
E12AL6	12 mm	20 mm	6 mm	65 mm

FXSC

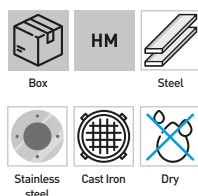
SINGLE CUT ROTARY BURRS



Art.	D1	D2	L1	L2
F03SC3	ø3 mm	13 mm	3 mm	38 mm
F06SC6	ø6 mm	18 mm	6 mm	63 mm
F08SC6	ø8 mm	20 mm	6 mm	65 mm
F10SC6	ø10 mm	20 mm	6 mm	65 mm
F12SC6	ø12 mm	25 mm	6 mm	70 mm

FXDC

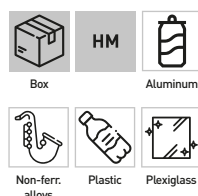
DIAMOND CUT ROTARY BURRS



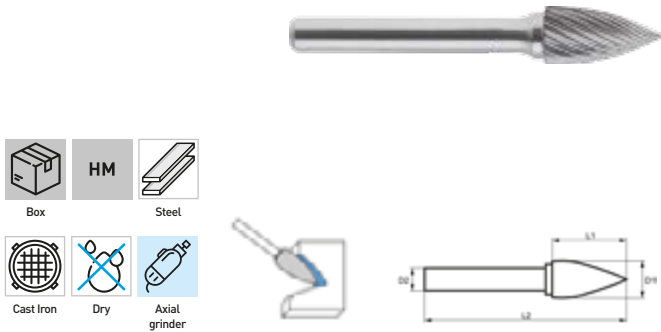
Art.	D1	D2	L1	L2
F03DC3	ø3 mm	13 mm	3 mm	38 mm
F06DC6	ø6 mm	18 mm	6 mm	63 mm
F08DC6	ø8 mm	20 mm	6 mm	65 mm
F10DC6	ø10 mm	20 mm	6 mm	65 mm
F12DC6	ø12 mm	25 mm	6 mm	70 mm
F16DC6	ø16 mm	25 mm	6 mm	70 mm
F19DC6	ø19 mm	25 mm	6 mm	70 mm

FXAL

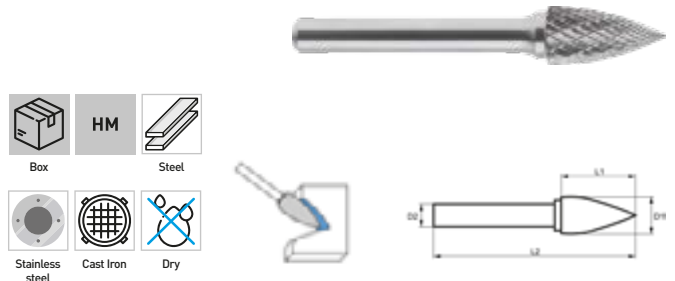
ROTARY BURRS FOR ALUMINIUM



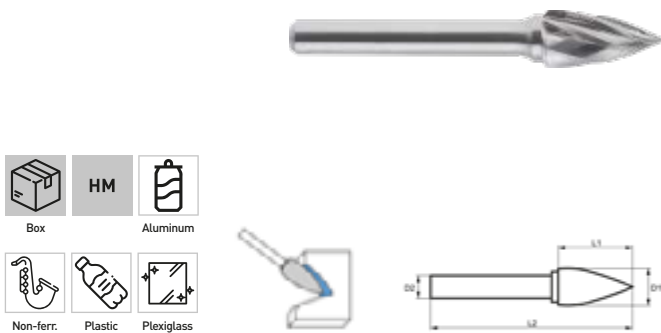
Art.	D1	L1	D2	L2
F10AL6	ø10 mm	20 mm	6 mm	65 mm
F12AL6	ø12 mm	25 mm	6 mm	70 mm

GXSC
SINGLE CUT ROTARY BURRS


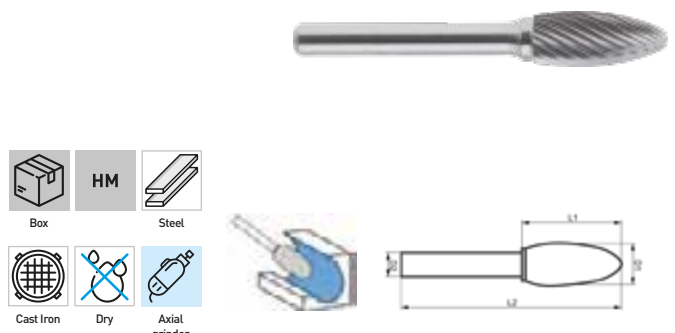
Art.	D1	L1	D2	L2
G03SC3	ø3 mm	13 mm	3 mm	38 mm
G06SC6	ø6 mm	18 mm	6 mm	65 mm
G10SC6	ø10 mm	20 mm	6 mm	65 mm
G12SC6	ø12 mm	25 mm	6 mm	70 mm

GXDC
DIAMOND CUT ROTARY BURRS


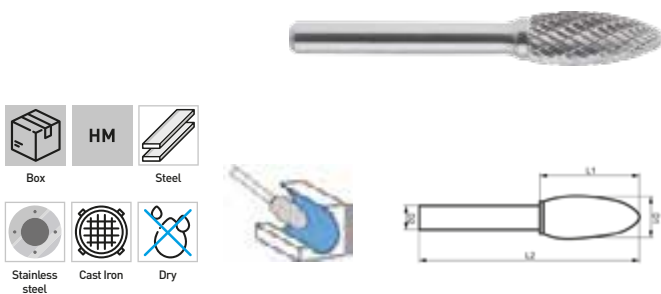
Art.	D1	L1	D2	L2
G03DC3	ø3 mm	13 mm	3 mm	38 mm
G06DC6	ø6 mm	18 mm	6 mm	65 mm
G10DC6	ø10 mm	20 mm	6 mm	65 mm
G12DC6	ø12 mm	25 mm	6 mm	70 mm
G16DC6	ø16 mm	25 mm	6 mm	70 mm
G19DC6	ø19 mm	25 mm	6 mm	70 mm

GXAL
ROTARY BURRS FOR ALUMINIUM


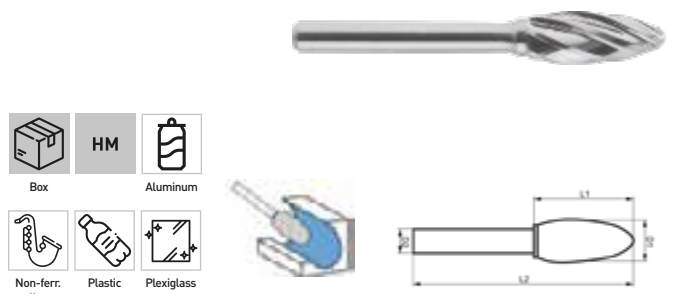
Art.	D1	L1	D2	L2
G10AL6	ø10 mm	20 mm	6 mm	65 mm
G12AL6	ø12 mm	25 mm	6 mm	70 mm

HXSC
SINGLE CUT ROTARY BURRS


Art.	D1	L1	D2	L2
H08SC6	ø8 mm	20 mm	6 mm	65 mm
H10SC6	ø10 mm	25 mm	6 mm	70 mm
H12SC6	ø12 mm	32 mm	6 mm	77 mm

HXDC
DIAMOND CUT ROTARY BURRS


Art.	D1	D2	L1	L2
H06DC6	ø6 mm	16 mm	6 mm	61 mm
H08DC6	ø8 mm	20 mm	6 mm	65 mm
H10DC6	ø10 mm	25 mm	6 mm	70 mm
H12DC6	ø12 mm	32 mm	6 mm	77 mm

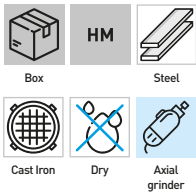
HXAL
ROTARY BURRS FOR ALUMINIUM


Art.	D1	D2	L1	L2
H08AL6	ø8 mm	20 mm	6 mm	65 mm
H10AL6	ø10 mm	25 mm	6 mm	70 mm
H12AL6	ø12 mm	32 mm	6 mm	77 mm



LXSC

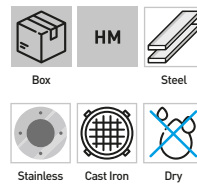
SINGLE CUT ROTARY BURRS



Art.	D1	L1	D2	L2
L03SC3	ø3 mm	13 mm	3 mm	38 mm
L06SC6	ø6 mm	16 mm	6 mm	61 mm

LXDC

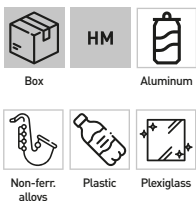
DIAMOND CUT ROTARY BURRS



Art.	D1	L1	D2	L2
L03DC3	ø3 mm	13 mm	3 mm	38 mm
L06DC6	ø6 mm	16 mm	6 mm	61 mm
L08DC6	ø8 mm	22 mm	6 mm	65 mm
L10DC6	ø10 mm	25 mm	6 mm	70 mm
L12DC6	ø12 mm	25 mm	6 mm	70 mm

L10AL6

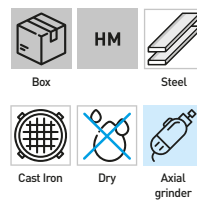
ROTARY BURRS FOR ALUMINIUM



D1	ø10 mm
L1	25 mm
D2	6 mm
L2	70 mm

MXSC

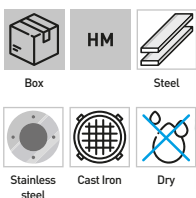
SINGLE CUT ROTARY BURRS



Art.	D1	L1	D2	L2
M08SC6	ø8 mm	20 mm	6 mm	65 mm
M10SC6	ø10 mm	20 mm	6 mm	65 mm
M12SC6	ø12 mm	25 mm	6 mm	70 mm

MXDC

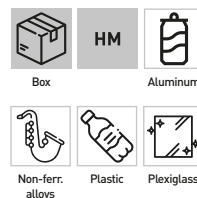
DIAMOND CUT ROTARY BURRS



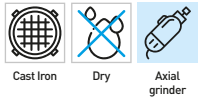
Art.	D1	L1	D2	L2
M03DC3	ø3 mm	11 mm	3 mm	38 mm
M03DC6	ø3 mm	11 mm	6 mm	38 mm
M06DC6	ø6 mm	18 mm	6 mm	60 mm
M08DC6	ø8 mm	20 mm	6 mm	65 mm
M10DC6	ø10 mm	20 mm	6 mm	65 mm
M12DC6	ø12 mm	25 mm	6 mm	70 mm
M16DC6	ø16 mm	25 mm	6 mm	70 mm

M10AL6

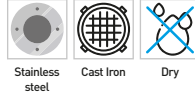
ROTARY BURRS FOR ALUMINIUM



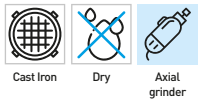
D1	ø10 mm
L1	20 mm
D2	6 mm
L2	65 mm

NXSC
SINGLE CUT ROTARY BURRS


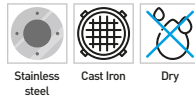
Art.	D1	L1	D2	L2
N12SC6	ø12 mm	13 mm	6 mm	58 mm
N16SC6	ø16 mm	16 mm	6 mm	58 mm

N12DC6
DIAMOND CUT ROTARY BURRS


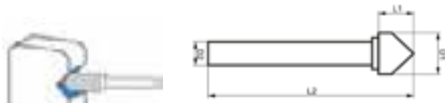
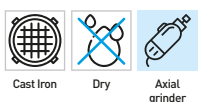
D1	ø12 mm
L1	13 mm
D2	6 mm
L2	58 mm

JXSC
SINGLE CUT ROTARY BURRS


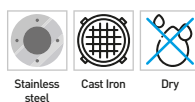
Art.	D1	L1	D2	L2
J03SC3	ø3 mm	2.5 mm	3 mm	38 mm
J06SC6	ø6 mm	5.2 mm	6 mm	54 mm
J10SC6	ø10 mm	8 mm	6 mm	58 mm
J16SC6	ø16 mm	13 mm	6 mm	62 mm

JXDC
DIAMOND CUT ROTARY BURRS


Art.	D1	L1	D2	L2
J03DC3	ø3 mm	2.5 mm	3 mm	38 mm
J06DC6	ø6 mm	5.2 mm	6 mm	54 mm
J10DC6	ø10 mm	8 mm	6 mm	58 mm
J16DC6	ø16 mm	13 mm	6 mm	62 mm

KXSC
SINGLE CUT ROTARY BURRS


Art.	D1	L1	D2	L2
K10SC6	ø10 mm	5 mm	6 mm	54 mm
K16SC6	ø16 mm	8 mm	6 mm	58 mm

KXDC
DIAMOND CUT ROTARY BURRS


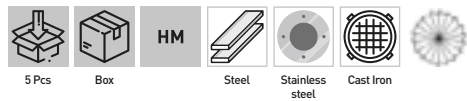
Art.	D1	L1	D2	L2
K10DC6	ø10 mm	5 mm	6 mm	54 mm
K16DC6	ø16 mm	8 mm	6 mm	58 mm



F008DC

HARD METAL ROTARY BURR SET

With diamond cut.

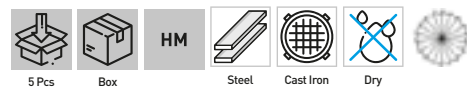


Sizes	10 x 20 mm
Type	B, C, D, G, M
Stem	6 mm

F008SC

HARD METAL ROTARY BURR SET

With single cut.

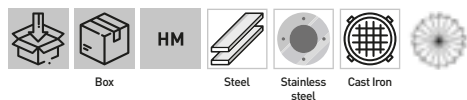
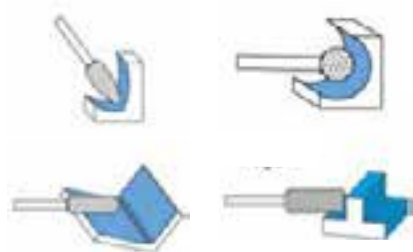


Sizes	10 x 20 mm
Type	B, C, D, G, M
Stem	6 mm

F008-

CARBIDE ROTARY FILE SET

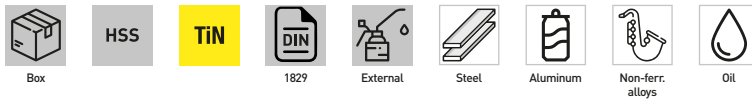
Cross cut.



Art.	Stem
F008/3	Ø 3 mm
F008/6	Ø 6 mm



C003-
DISC TYPE GEAR SHAPER CUTTER

 Nominal \varnothing 100 mm hole 44,45 mm 20° angle pressure class A.


Art.	Module	\varnothing max	\varnothing d0	Height b1	Teeth
C003/1	1,00	102 mm	100 mm	16 mm	100
C003/1.25	1,25	105 mm	100 mm	16 mm	80
C003/1.50	1,50	107 mm	102 mm	18 mm	68
C003/1.75	1,75	107,4 mm	101,5 mm	20 mm	58
C003/2	2,00	107,31 mm	100 mm	20 mm	50
C003/2.25	2,25	109,29 mm	101,25 mm	20 mm	45
C003/2.50	2,50	108,46 mm	100 mm	20 mm	40
C003/2.75	2,75	108,36 mm	99 mm	24 mm	36
C003/3	3,00	111,82 mm	99 mm	24 mm	33
C003/3.25	3,25	110,99 mm	99 mm	24 mm	31
C003/3.50	3,50	108,72 mm	101,5 mm	24 mm	29
C003/3.75	3,75	112,35 mm	101,5 mm	24 mm	27
C003/4	4,00	111,75 mm	100 mm	24 mm	25
C003/4.25	4,25	114,12 mm	102 mm	24 mm	24
C003/4.50	4,50	111,65 mm	99 mm	24 mm	22
C003/5	5,00	114,05 mm	100 mm	24 mm	20
C003/5.50	5,50	119,96 mm	99 mm	24 mm	18
C003/6	6,00	118,86 mm	102 mm	24 mm	17
C003/6.50	6,50	122,5 mm	112 mm	24 mm	16
C003/7	7,00	127 mm	105 mm	24 mm	15
C003/8	8,00	135 mm	112 mm	24 mm	14
C003/10	10,00	168 mm	140 mm	24 mm	14

C001-
GEAR HOB 20° PRESSURE ANGLE

Ground profile class A.



Art.	Module	Diameter \varnothing	Length	Hole
C001/1	1,00	50 mm	31 mm	22 mm
C001/1.25	1,25	50 mm	31 mm	22 mm
C001/1.50	1,50	53 mm	50 mm	22 mm
C001/1.75	1,75	56 mm	38 mm	22 mm
C001/2	2,00	63 mm	46 mm	27 mm
C001/2.25	2,25	70 mm	56 mm	27 mm
C001/2.50	2,50	71 mm	63 mm	27 mm
C001/2.75	2,75	70 mm	56 mm	27 mm
C001/3	3,00	80 mm	71 mm	32 mm
C001/3.25	3,25	80 mm	69 mm	32 mm
C001/3.50	3,50	80 mm	71 mm	32 mm
C001/3.75	3,75	90 mm	78 mm	32 mm
C001/4	4,00	90 mm	78 mm	32 mm
C001/4.25	4,25	90 mm	78 mm	32 mm
C001/4.50	4,50	90 mm	78 mm	32 mm
C001/5	5,00	100 mm	88 mm	32 mm
C001/5.50	5,50	100 mm	88 mm	32 mm
C001/6	6,00	110 mm	108 mm	40 mm
C001/6.50	6,50	110 mm	109 mm	40 mm
C001/7	7,00	110 mm	110 mm	40 mm
C001/8	8,00	125 mm	130 mm	40 mm
C001/9	9,00	125 mm	140 mm	40 mm
C001/10	10,00	140 mm	160 mm	40 mm
C001/12	12,00	170 mm	195 mm	50 mm
C001/13	13,00	180 mm	210 mm	50 mm



P049-

MASONRY DRILL

Short series, cylindrical attachment, carbide tipped for masonry drill.



Box C45 HM

8039 Bricks Concrete Stones Ceramic Drywall Percussion Portable Drill

Art.	ø	L	l	Stem	Pack
P049/03	3 mm	70 mm	40 mm	ø 2,5 mm	10
P049/04	4 mm	75 mm	40 mm	ø 3,5 mm	10
P049/05	5 mm	85 mm	40 mm	ø 4,5 mm	10
P049/06	6 mm	100 mm	55 mm	ø 4,5 mm	10
P049/07	7 mm	100 mm	55 mm	ø 6,5 mm	10
P049/08	8 mm	120 mm	70 mm	ø 6,5 mm	10
P049/09	9 mm	120 mm	70 mm	ø 6,5 mm	10
P049/10	10 mm	120 mm	70 mm	ø 7 mm	10
P049/11	11 mm	150 mm	90 mm	ø 7 mm	10
P049/12	12 mm	150 mm	90 mm	ø 9 mm	10
P049/13	13 mm	150 mm	90 mm	ø 9 mm	5
P049/14	14 mm	150 mm	90 mm	ø 11 mm	5
P049/15	15 mm	150 mm	90 mm	ø 12 mm	5
P049/16	16 mm	150 mm	90 mm	ø 12 mm	5
P049/18	18 mm	160 mm	100 mm	ø 13 mm	5
P049/22	22 mm	160 mm	100 mm	ø 13 mm	5
P049/24	24 mm	160 mm	100 mm	ø 13 mm	5

P051-

CARBIDE DRILL FOR GRANITE AND MARBLE

Cylindrical attachment, specific for drilling marble and granite with hard metal insert for rotary percussion.



Box C45 HM

8039 Granite Marble Percussion Portable Drill

Art.	ø	L	l	Stem	Pack
P051/03	3 mm	70 mm	40 mm	ø 2,5 mm	10
P051/04	4 mm	75 mm	40 mm	ø 3,5 mm	10
P051/05	5 mm	85 mm	40 mm	ø 4,5 mm	10
P051/06	6 mm	100 mm	55 mm	ø 5,5 mm	10
P051/07	7 mm	100 mm	55 mm	ø 5,5 mm	10
P051/08	8 mm	120 mm	70 mm	ø 6,5 mm	5
P051/09	9 mm	120 mm	70 mm	ø 8 mm	5
P051/10	10 mm	120 mm	70 mm	ø 9 mm	5
P051/12	12 mm	150 mm	90 mm	ø 10 mm	5
P051/14	14 mm	150 mm	90 mm	ø 12 mm	5
P051/16	16 mm	150 mm	90 mm	ø 12 mm	5

P050-

MASONRY DRILL

Long series, cylindrical attachment, carbide tipped for masonry drill.



Box C45 HM

8039 Bricks Concrete Stones Ceramic Drywall Percussion Portable Drill

Art.	ø	L	l	Stem	Pack
P050/06	6 mm	400 mm	240 mm	ø 4,5 mm	5
P050/08	8 mm	400 mm	240 mm	ø 7 mm	5
P050/09	9 mm	400 mm	240 mm	ø 7 mm	5
P050/10	10 mm	400 mm	240 mm	ø 7 mm	5
P050/12	12 mm	400 mm	240 mm	ø 9 mm	5
P050/14	14 mm	400 mm	240 mm	ø 10 mm	5
P050/16	16 mm	400 mm	240 mm	ø 12 mm	5
P050/18	18 mm	400 mm	240 mm	ø 12,5 mm	5
P050/20	20 mm	400 mm	240 mm	ø 12,5 mm	5

P063-

CARBIDE TIPPED SDS PLUS SHANK TYPE HAMMER TWIST DRILL

2 edges, with attack sds plus, double helix to facilitate the release of debris, with hard metal insert.



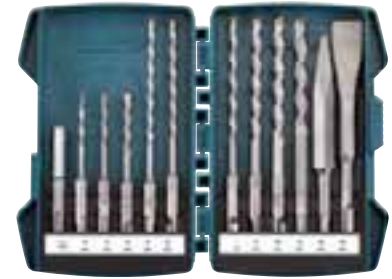
Hangable HM 40 Cr

SDS PLUS Bricks Concrete Stones Ceramic Drywall Percussion Portable Drill

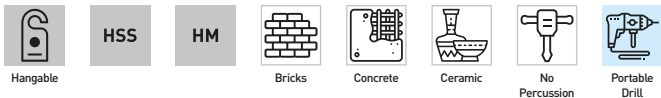
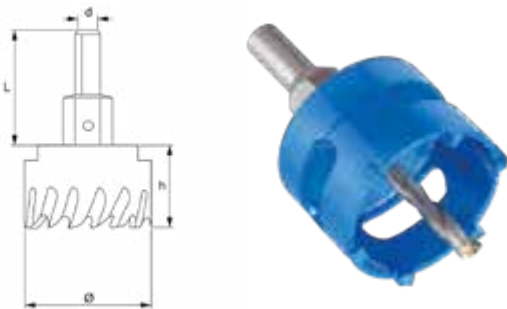
Art.	Size	Pack
P063/5110	5 x 110 mm	10
P063/6110	6 x 110 mm	10
P063/6160	6 x 160 mm	10
P063/8110	8 x 110 mm	10
P063/8160	8 x 160 mm	10
P063/9160	9 x 160 mm	10
P063/10160	10 x 160 mm	10
P063/12160	12 x 160 mm	10
P063/12300	12 x 300 mm	10
P063/14160	14 x 160 mm	10
P063/14300	14 x 300 mm	10
P063/15160	15 x 160 mm	10
P063/16160	16 x 160 mm	10
P063/16300	16 x 300 mm	10
P063/16450	16 x 450 mm	5
P063/18160	18 x 160 mm	5
P063/18300	18 x 300 mm	5
P063/18450	18 x 450 mm	5
P063/20160	20 x 160 mm	5
P063/20450	20 x 450 mm	5
P063/22450	22 x 450 mm	5
P063/24450	24 x 450 mm	5


0332
CARBIDE TIPPED HAMMER TWIST DRILL AND CHISEL SET

With attack sds plus, consisting of 9 twist drills: Ø4 x 110 mm Ø5 x 110 mm Ø6 x 110 mm Ø5 x 160 mm Ø6 x 160 mm Ø8 x 160 mm Ø9 x 160 mm Ø10 x 160 mm Ø12 x 160 mm, 1 bit holder, 1 flat chisel and 1 point chisel.


P076-
CARBIDE TIPPED MASONRY CORE DRILL BIT HOLE SAW

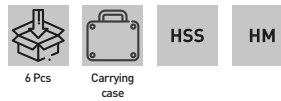
For drilling medium and large holes in the wall.



Art.	ø	d	Thread	Z	L	Boring bit
P076/016	16 mm	10 mm	M12 x 1.25	2	46 mm	ø6 x 69 mm
P076/022	22 mm	10 mm	M12 x 1.25	3	46 mm	ø6 x 69 mm
P076/025	25 mm	10 mm	M12 x 1.25	3	46 mm	ø6 x 69 mm
P076/027	27 mm	10 mm	M12 x 1.25	4	46 mm	ø6 x 69 mm
P076/030	30 mm	10 mm	M12 x 1.25	4	46 mm	ø6 x 69 mm
P076/035	35 mm	10 mm	M12 x 1.25	4	46 mm	ø6 x 69 mm
P076/038	38 mm	10 mm	M12 x 1.25	4	46 mm	ø6 x 69 mm
P076/040	40 mm	10 mm	M12 x 1.25	5	46 mm	ø6 x 69 mm
P076/045	45 mm	10 mm	M12 x 1.25	5	46 mm	ø6 x 69 mm
P076/050	50 mm	10 mm	M12 x 1.25	6	46 mm	ø6 x 69 mm
P076/055	55 mm	12 mm	M16 x 1.5	6	46 mm	ø8 x 69 mm
P076/060	60 mm	12 mm	M16 x 1.5	7	46 mm	ø8 x 69 mm
P076/065	65 mm	12 mm	M16 x 1.5	7	46 mm	ø8 x 69 mm
P076/070	70 mm	12 mm	M16 x 1.5	8	46 mm	ø8 x 69 mm
P076/080	80 mm	12 mm	M16 x 1.5	8	46 mm	ø8 x 69 mm
P076/085	85 mm	12 mm	M16 x 1.5	9	46 mm	ø8 x 69 mm
P076/090	90 mm	12 mm	M16 x 1.5	9	46 mm	ø8 x 69 mm
P076/095	95 mm	12 mm	M16 x 1.5	10	46 mm	ø8 x 69 mm
P076/100	100 mm	12 mm	M16 x 1.5	11	46 mm	ø8 x 69 mm
P076/110	110 mm	12 mm	M16 x 1.5	11	46 mm	ø8 x 69 mm
P076/125	125 mm	12 mm	M16 x 1.5	12	46 mm	ø8 x 69 mm
P076/150	150 mm	12 mm	M16 x 1.5	15	46 mm	ø8 x 69 mm

P076/006S
CARBIDE TIPPED MASONRY CORE DRILL BIT HOLE SAW SET

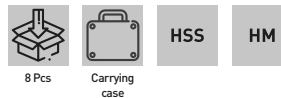
For drilling medium and large holes in the wall.



Sizes 16 mm - 22 mm - 25 mm - 27 mm - 30 mm - 35 mm


P076/008S
CARBIDE TIPPED MASONRY CORE DRILL BIT HOLE SAW SET

For drilling medium and large holes in the wall.



Sizes 16 mm - 22 mm - 25 mm - 27 mm - 30 mm - 35 mm - 40 mm - 45 mm


P076-GX
ARBOR FOR CARBIDE TIPPED MASONRY CORE DRILLS BIT HOLE SAW

For item P076-.



Art.	ø	L	Thread	Sizes
P076/G12	10 mm	46 mm	M12 x 1.25	16-50
P076/G16	12 mm	46 mm	M16 x 1.5	55-150

P076-PX
CARBIDE TIPPED PILOT DRILL FOR HOLE CUTTERS FOR MASONRY

For item P076-.



Art.	ø	Total length	Sizes	Pack
P076/P12	6 mm	69 mm	16-50	10
P076/P16	8 mm	69 mm	55-150	10



P031-

DIAMOND DRILL BITS AND CORE DRILLS WITH CONTINUOUS EDGE

The thin-wall diamond core guarantees burr-free cuts. This feature facilitates drilling work on hard laid tiles, where it is necessary to make a clean hole, without chipping the tile. Longer useful life cycle.



Art.	Size	Hex drive	Total length	Diamond height	Grit
P031/05	Ø 5 mm	8.5 mm	56 mm	2 mm	50/60
P031/06	Ø 6 mm	8.5 mm	56 mm	2 mm	50/60
P031/07	Ø 7 mm	8.5 mm	56 mm	2 mm	50/60
P031/08	Ø 8 mm	8.5 mm	56 mm	2 mm	50/60
P031/10	Ø 10 mm	8.5 mm	56 mm	2 mm	50/60
P031/12	Ø 12 mm	8.5 mm	56 mm	2 mm	50/60
P031/14	Ø 14 mm	8.5 mm	56 mm	2 mm	50/60
P031/16	Ø 16 mm	11 mm	90 mm	5 mm	35/40
P031/18	Ø 18 mm	11 mm	90 mm	5 mm	35/40
P031/20	Ø 20 mm	11 mm	90 mm	5 mm	35/40
P031/22	Ø 22 mm	11 mm	90 mm	5 mm	35/40
P031/25	Ø 25 mm	11 mm	90 mm	5 mm	35/40
P031/28	Ø 28 mm	11 mm	90 mm	5 mm	35/40
P031/30	Ø 30 mm	11 mm	90 mm	5 mm	35/40
P031/32	Ø 32 mm	11 mm	90 mm	5 mm	35/40
P031/35	Ø 35 mm	11 mm	90 mm	5 mm	35/40
P031/40	Ø 40 mm	11 mm	90 mm	5 mm	35/40
P031/45	Ø 45 mm	11 mm	90 mm	5 mm	35/40
P031/50	Ø 50 mm	11 mm	90 mm	5 mm	35/40
P031/60	Ø 60 mm	11 mm	90 mm	5 mm	35/40
P031/65	Ø 65 mm	11 mm	90 mm	5 mm	35/40
P031/67	Ø 67 mm	11 mm	90 mm	5 mm	35/40
P031/70	Ø 70 mm	11 mm	90 mm	5 mm	35/40
P031/80	Ø 80 mm	11 mm	90 mm	5 mm	35/40

P031/06P

PILOT TIP

For item P031-XL.



Hangable



Diameter	Ø 6 mm
Length	100 mm
Stem	Ø 5 mm
Pack	10

P031/03S

DIAMOND DRILL BIT AND CORE DRILL WITH CONTINUOUS EDGE SET

The thin-wall diamond core guarantees burr-free cuts. This feature facilitates drilling work on hard laid tiles, where it is necessary to make a clean hole, without chipping the tile. Longer useful life cycle.



Sizes	Ø 6 mm - 8 mm - 10 mm
Hex drive	9.5 mm
Total length	56 mm
Diamond height	2 mm
Grit	50/60



P031/05S

DIAMOND DRILL BIT AND CORE DRILL WITH CONTINUOUS EDGE SET

The thin-wall diamond core guarantees burr-free cuts. This feature facilitates drilling work on hard laid tiles, where it is necessary to make a clean hole, without chipping the tile. Longer useful life cycle.



Sizes	Ø 5 mm - 6 mm - 8 mm - 10 mm - 12 mm
Hex drive	8.5 mm
Total length	56 mm
Diamond height	2 mm
Grit	50/60



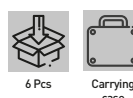
P031/06S

DIAMOND DRILL BIT AND CORE DRILL WITH CONTINUOUS EDGE SET

The thin-wall diamond core guarantees burr-free cuts. This feature facilitates drilling work on hard laid tiles, where it is necessary to make a clean hole, without chipping the tile. Longer useful life cycle.

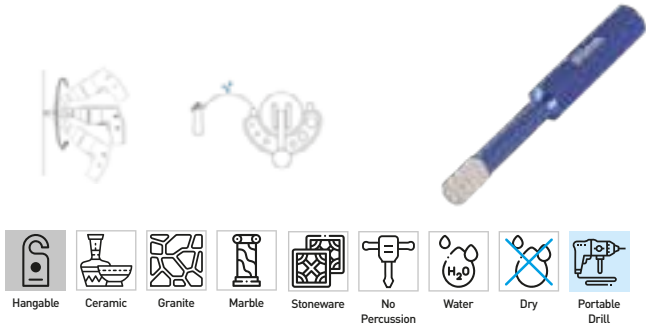


Sizes	Ø 16 mm - 22 mm - 25 mm - 28 mm - 30 mm - 35 mm
Hex drive	11 mm
Total length	90 mm
Diamond height	5 mm
Grit	50/60




P033-
DIAMOND DRILL BITS WITH CONTINUOUS EDGE

Optimal operation on vertical walls, do not remove the core, which acts as a measuring cap for the coolant. Use with water cooling extends the useful life of the tool. The thin-walled diamond ring guarantees burr-free cuts. This feature facilitates drilling work on hard tiles in place, where it is necessary to make a clean hole.



Art.	Size	Hex drive	Total length	Diamond height	Grit
P033/05	Ø 5 mm	9.5 mm	80 mm	10 mm	40
P033/06	Ø 6 mm	9.5 mm	80 mm	10 mm	40
P033/08	Ø 8 mm	9.5 mm	80 mm	10 mm	40
P033/10	Ø 10 mm	9.5 mm	80 mm	10 mm	40
P033/12	Ø 12 mm	9.5 mm	80 mm	10 mm	40
P033/14	Ø 14 mm	12.5 mm	80 mm	10 mm	40
P033/16	Ø 16 mm	12.5 mm	80 mm	10 mm	40
P033/18	Ø 18 mm	12.5 mm	80 mm	10 mm	40
P033/20	Ø 20 mm	12.5 mm	80 mm	10 mm	40
P033/22	Ø 22 mm	12.5 mm	80 mm	10 mm	40
P033/25	Ø 25 mm	12.5 mm	80 mm	10 mm	40

P033/03S
DIAMOND DRILL BIT AND CORE DRILL WITH CONTINUOUS EDGE SET

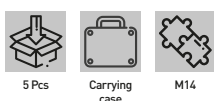
Optimal operation on vertical walls, do not remove the core, which acts as a measuring cap for the coolant. Use with water cooling extends the useful life of the tool. The thin-walled diamond ring guarantees burr-free cuts. This feature facilitates drilling work on hard tiles in place, where it is necessary to make a clean hole.



Sizes	Ø 6 mm - 8 mm - 10 mm
Hex drive	9.5 mm
Total length	80 mm
Diamond height	10 mm
Grit	40

P034/05S
M14 DIAMOND DRILL BIT AND CORE DRILL WITH CONTINUOUS EDGE SET

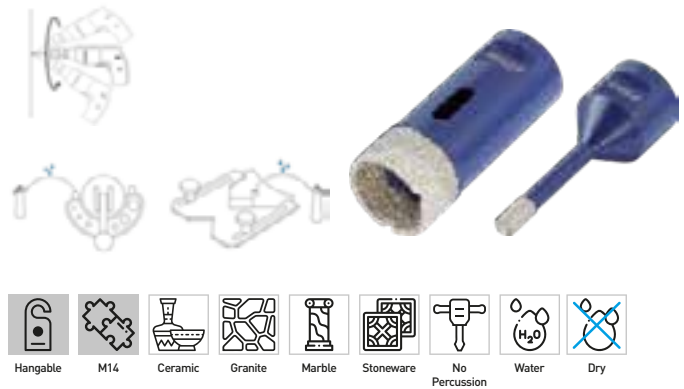
The thin-wall diamond core guarantees burr-free cuts. This feature facilitates drilling work on hard laid tiles, where it is necessary to make a clean hole, without chipping the tile. Longer useful life cycle.



Sizes	Ø 6 mm - 8 mm - 10 mm - 12 mm - 14 mm
Total length	62 mm
Diamond height	10 mm
Grit	30/50

P034-
M14 DIAMOND DRILL BITS AND CORE DRILLS WITH CONTINUOUS EDGE

The thin-wall diamond core guarantees burr-free cuts. This feature facilitates drilling work on hard laid tiles, where it is necessary to make a clean hole, without chipping the tile. Longer useful life cycle.



Art.	Size	Total length	Diamond height	Grit
P034/006	Ø 6 mm	62 mm	10 mm	30/50
P034/008	Ø 8 mm	62 mm	10 mm	30/50
P034/010	Ø 10 mm	62 mm	10 mm	30/50
P034/012	Ø 12 mm	62 mm	10 mm	30/50
P034/014	Ø 14 mm	62 mm	10 mm	30/50
P034/016	Ø 16 mm	62 mm	15 mm	30/50
P034/018	Ø 18 mm	62 mm	15 mm	30/50
P034/020	Ø 20 mm	60 mm	15 mm	30/50
P034/022	Ø 22 mm	60 mm	15 mm	30/50
P034/025	Ø 25 mm	60 mm	10 mm	30/50
P034/028	Ø 28 mm	60 mm	15 mm	30/50
P034/030	Ø 30 mm	60 mm	15 mm	30/50
P034/032	Ø 32 mm	60 mm	15 mm	30/50
P034/035	Ø 35 mm	60 mm	15 mm	30/50
P034/040	Ø 40 mm	60 mm	15 mm	30/50
P034/045	Ø 45 mm	60 mm	15 mm	30/50
P034/050	Ø 50 mm	60 mm	15 mm	30/50
P034/055	Ø 55 mm	60 mm	15 mm	30/50
P034/060	Ø 60 mm	60 mm	15 mm	30/50
P034/065	Ø 65 mm	60 mm	15 mm	30/50
P034/067	Ø 67 mm	60 mm	15 mm	30/50
P034/070	Ø 70 mm	60 mm	15 mm	30/50
P034/080	Ø 80 mm	60 mm	15 mm	30/50
P034/090	Ø 90 mm	60 mm	15 mm	30/50
P034/100	Ø 100 mm	60 mm	15 mm	30/50

P034/06S
M14 DIAMOND DRILL BIT AND CORE DRILL WITH CONTINUOUS EDGE SET

The thin-wall diamond core guarantees burr-free cuts. This feature facilitates drilling work on hard laid tiles, where it is necessary to make a clean hole, without chipping the tile. Longer useful life cycle.



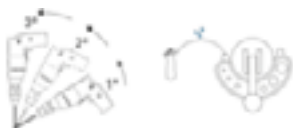
Sizes	Ø 22 mm - 35 mm - 40 mm - 45 mm - 50 mm - 67 mm
Total length	60 mm
Diamond height	15 mm
Grit	30/50



P035-

DIAMOND DRILL BITS WITH CONTINUOUS EDGE

The thin-wall diamond core guarantees burr-free cuts. This feature facilitates drilling work on hard laid tiles, where it is necessary to make a clean hole, without chipping the tile. Longer useful life cycle.



Art.	Size	Stem	Total length	Diamond height	Grit
P035/05	Ø 5 mm	Ø 6 mm	65 mm	5 mm	60/80
P035/06	Ø 6 mm	Ø 6 mm	65 mm	5 mm	60/80
P035/08	Ø 8 mm	Ø 6 mm	65 mm	5 mm	60/80
P035/10	Ø 10 mm	Ø 6 mm	65 mm	5 mm	60/80
P035/12	Ø 12 mm	Ø 6 mm	65 mm	5 mm	60/80
P035/14	Ø 14 mm	Ø 6 mm	65 mm	5 mm	60/80

P035/04S

DIAMOND DRILL BIT SET WITH CONTINUOUS EDGE

The thin-wall diamond core guarantees burr-free cuts. This feature facilitates drilling work on hard laid tiles, where it is necessary to make a clean hole, without chipping the tile. Longer useful life cycle.



Sizes	Ø 5 mm - 6 mm - 8 mm - 10 mm
Stem	Ø 6 mm
Total length	65 mm
Diamond height	5 mm
Grit	60/80

0529

DIAMOND CORE DRILL BIT SET

The thin-wall diamond core guarantees burr-free cuts. This feature facilitates drilling work on hard laid tiles, where it is necessary to make a clean hole, without chipping the tile. Longer useful life cycle.



Drills	Ø 5 - 6 - 8 - 10 - 12 mm
Total length	60 mm
Cut length	30 mm
Diamond height	3 mm
Grit	70/80

D009/5-12

DRILL SUCTION CUP WITH GUIDING HOLES

Allows easy centering and cutting safety of the diamond tip in the various workable materials. To be used in conjunction with a nebulizer for water processing.



Holes	4 mm - 5 mm - 6 mm - 7 mm - 8 mm - 10 mm - 12 mm
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D009/5-85

DRILL SUCTION CUP WITH ADJUSTABLE HOLE FRAME

Allows easy centering and cutting safety of the diamond tip in the various workable materials. To be used in conjunction with a nebulizer for water processing.



Holes	5 - 85 mm
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D020

DIAMOND MOUNTED POINT SET

Suitable for engraving, writing or finishing thanks to the various geometries available.

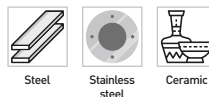


Stem Length	Ø 3 mm 45 mm
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D050

DIAMOND MOUNTED POINT AND DISC SET

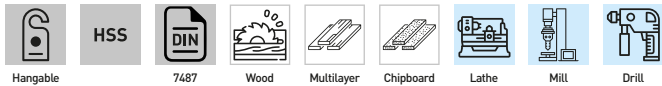
Suitable for engraving, writing or finishing thanks to the various geometries available.



Stem Length	Ø 3 mm 45 mm
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P052-
BRAD POINT WOODWORKING DRILLS

Double helix, with centering tip allows exact positioning of the hole.



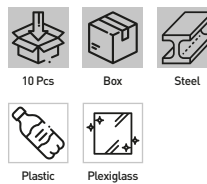
Art.	ø	Total length	Flute length	Pack
P052/03	3 mm	61 mm	33 mm	5
P052/04	4 mm	75 mm	43 mm	5
P052/05	5 mm	86 mm	52 mm	5
P052/06	6 mm	93 mm	57 mm	5
P052/07	7 mm	109 mm	69 mm	5
P052/08	8 mm	117 mm	75 mm	5
P052/09	9 mm	125 mm	81 mm	1
P052/10	10 mm	133 mm	87 mm	1
P052/11	11 mm	142 mm	94 mm	1
P052/12	12 mm	151 mm	101 mm	1
P052/13	13 mm	151 mm	101 mm	1
P052/14	14 mm	160 mm	108 mm	1
P052/15	15 mm	169 mm	114 mm	1
P052/16	16 mm	178 mm	120 mm	1
P052/17	17 mm	184 mm	125 mm	1
P052/18	18 mm	191 mm	130 mm	1
P052/19	19 mm	198 mm	135 mm	1
P052/20	20 mm	205 mm	140 mm	1

P052/08S
BRAD POINT WOODWORKING DRILLS SET

Double helix, with centering tip allows exact positioning of the hole.



Size 3 ÷ 10 mm

0238
HOLE SAW SET FOR WOOD


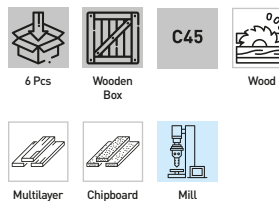
Sizes ø 22 - 29 - 32 - 38 - 44 - 51 - 57 - 67 mm

0463
TWIST DRILL SET WITH COUNTERSINK FOR WOOD

For countersinking the wood.



Sizes 2 - 2,5 - 3 - 3,5 mm

0799-
MORTISING DRILL SET


Art.	Sizes	Revolution	Stem
0799/SXC	ø 6 - 8 - 10 - 12 - 14 - 16 mm	L	ø 16 x 50 mm
0799/DXC	ø 6 - 8 - 10 - 12 - 14 - 16 mm	R	ø 16 x 50 mm

0087
UNIVERSAL CYLINDER CARBIDE TIPPED BORING BIT


Drills ø 15 - 20 - 26 - 30 - 35 mm

0087/35
UNIVERSAL CYLINDER CARBIDE TIPPED BORING BIT

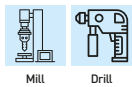
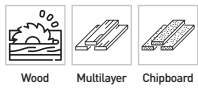
 Boring bit ø 35 mm
 Stem ø 8 mm



0526

TWIST DRILL AND COUNTERSINK SET WITH 1/4" HEX SHANK

1/4" hex shank with countersink for wood.

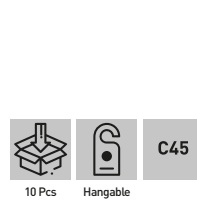


Drills 2,75 - 3,25 - 3,5 mm
Shank 1/4"

0524

1/4" DR. DRILL BIT HOLDER SET

To speed up the work by replacing the tips quickly.

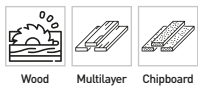
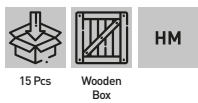


Sizes 3-3.5-4-4.5-5-5.5-6-6.5-8-10 mm
Shank 1/4"

0835/15

CARBIDE TIPPED ROUTER BIT SET

For professional woodworking such as edges, trimmings, grooves.

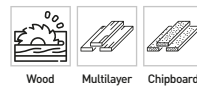
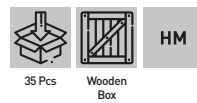


Stem Ø 6 mm

0830

CARBIDE TIPPED ROUTER BIT SET

For professional woodworking such as edges, trimmings, grooves.



Stem Ø 6 mm



M015S

SPIRAL POINT TAP AND DRILL SET

With adjustable tap holder.

		HSS



Taps	M3x0,50 - M4x0,70 - M5x0,80 - M6x1,00 - M8x1,20 - M10x1,50 - M12x1,75
Drills	Ø2.5 - Ø3.3 - Ø4.2 - Ø5.0 - Ø6.8 - Ø8.5 - Ø10.2

M312/P

MACHINE TAP SET FOR THROUGH HOLES WITH REINFORCED SHANK

With adjustable tap holder.

		HSS-G



Size	M3 x 0,50 - M4 x 0,70 - M5 x 0,80 - M6 x 1 - M8 x 1,25 - M10 x 1,50 - M12 x 1,75
-------------	--

M312/C

MACHINE TAP SET FOR BLIND HOLES 35° WITH REINFORCED SHANK

With adjustable tap holder.

		HSS-G



Size	M3 x 0,50 - M4 x 0,70 - M5 x 0,80 - M6 x 1 - M8 x 1,25 - M10 x 1,50 - M12 x 1,75
-------------	--

M020

TAP AND DIE SET



Tap holder	M3 - M12
Round die-stock	25 x 9 mm
Taps	M3x0,5 - M4x0,7 - M5x0,8 - M6x1 - M7x1 - M8x1,25 - M10x1,5 - M12x1,75 - 1/8" NPT27
Dies	M3x0,5 - M4x0,7 - M5x0,8 - M6x1 - M7x1 - M8x1,25 - M10x1,5 - M12x1,75 - 1/8" NPT27

M036

TAP AND DIE SET

With twist drills and screw pitch gauge.



Tap holder	M3 - M12
Round die-stock	25 x 9 mm
Taps	M3x0,5 - M4x0,7 - M5x0,8 - M6x1 - M7x1 - M8x1,25 - M10x1,5 - M12
Dies	M3x0,5 - M4x0,7 - M5x0,8 - M6x1 - M7x1 - M8x1,25 - M10x1,5 - M12
Drills	2,5 - 3,3 - 4,2 - 5 - 6 - 6,8 - 8,5 - 10,3 mm
Screwdriver	6,5 x 50 mm

M032

TAP AND DIE METRIC SET

With round die-stock, adjustable tap holder and screw pitch gauge.

		HSS



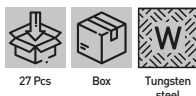
Taps	M3x0,5 M4x0,7 M5x0,8 M6x1 M8x1,25 M10x1,5 M12x1,75
Dies	M3x0,5 M4x0,7 M5x0,8 M6x1 M8x1,25 M10x1,5 M12x1,75
Screwdriver	3,5 x 50 mm



M029

TAP AND DIE SET

With twist drills and ratchet tap-die holder.

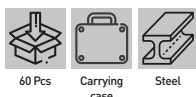


Ratchet handle	200 mm
Socket	Maschi 5 - 7,5 mm Filiere 25 x 9 mm
Taps	M3x0,5 - M4x0,7 - M5x0,8 - M6x1 - M8x1,25 - M10x1,5 - M12x1,75
Dies	M3x0,5 - M4x0,7 - M5x0,8 - M6x1 - M8x1,25 - M10x1,5 - M12x1,75
Drills	2,5 - 3,3 - 4,2 - 5 - 6,8 - 8,5 - 10,3 mm
Screwdriver	6,5 x 50 mm
Screwdriver	3 x 50 mm

M101

TAPS AND DIE METRIC SET

Hand tap and die: M3x0,5 - UNC 1/4 20 - UNF 4 40 - Metric M4x0,7 - UNC 1/4 28 - UNF 6 32 - Metric M5x0,8 - UNC 5/16 18 - UNF 8 32 - Metric M6x1 - UNC 5/16 24 - UNF 10 32 - Metric M7x1 - UNC 3/8 16 - UNF 10 24 - Metric M8x1,25 - UNC 3/8 24 - UNF 12 24 - Metric M9x1,25 - UNC 7/16 14 - Metric M10x1,5 - UNC 7/16 20 - Metric M10x1 - UNC 1/2 13 - Metric M12x1,75 - UNC 1/2 20 - NPT 1/8 27. Complete with round die-stock and adjustable tap holder.



M030

TAP AND DIE SET

From M1 to M2.5, with die turner and adapters to convert it into tap wrenches.

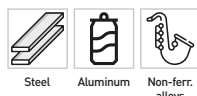
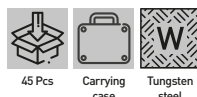


Size M1 - M1.1 - M1.2 - M1.4 - M1.6 - M1.8 - M2.0 - M2.2 - M2.5

M100

TAP AND DIE METRIC SET

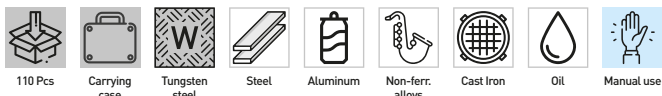
With round die-stock and adjustable tap holder. M6x0,75 - M6x1 - M8x1 - M8x1,25 - M10x1,25 - M10x1,5 - M12x1,5 - M12x1,75 - M14x1,5 - M14x2 - M16x1,5 - M16x2 - M18x1,5 - M18x2,5 - M20x1,5 - M20x2,5 - M22x1,5 - M22x2,5 - M24x1,5 - M24x3.



M218

TAP AND DIE METRIC SET

2 pcs hand tap set and die: M2 x 0,40 - M3 x 0,50 - M4 x 0,70 - M5 x 0,80 - M6 x 0,75 - M6 x 1 - M7 x 0,75 - M7 x 1 - M8 x 0,75 - M8 x 1 - M8 x 1,25 - M9 x 0,75 - M9 x 1 - M9 x 1,25 - M10 x 0,75 - M10 x 1 - M10 x 1,25 - M10 x 1,5 - M11 x 0,75 - M11 x 1 - M11 x 1,25 - M11 x 1,5 - M12 x 0,75 - M12 x 1 - M12 x 1,25 - M12 x 1,5 - M12 x 1,75 - M14 x 1 - M14 x 1,25 - M14 x 1,5 - M14 x 2 - M16 x 1 - M16 x 1,5 - M16 x 2 - M18 x 1,5. Complete with 2 tap holders and 2 round die-stocks.



TAPPING

TYPE OF GROOVES

STRAIGHT GROOVES CORRECT INLET

The correction of the inlet is given by a strong inclination of the helix combined with an accentuated angle of cut in the initial part of the tap. This design ensures the evacuation of chips in the direction of the feed. Therefore, when tapping through holes in materials that produce continuous chips, the risk of clogging and breakage is almost eliminated.



35° HIGH-TWIST HELICAL GROOVES

Inclined helical grooves facilitate chip extraction in the opposite direction to the tap feed. The strong inclination of the helix also ensures the extraction of chips from blind and deep holes reducing the risk of clogging and breakage.

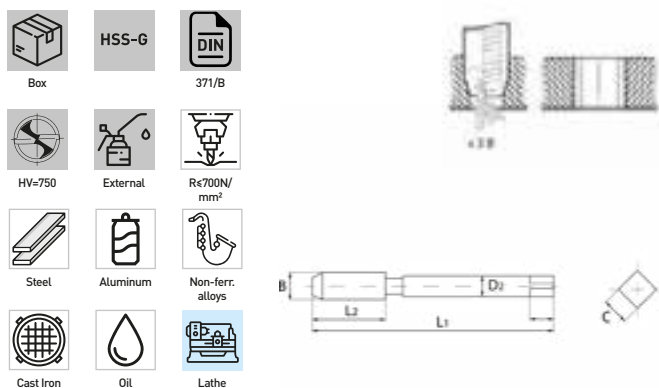


CHOICE OF THEORETICAL CUTTING SPEEDS OF MACHINE TAPS, ACCORDING TO THE MATERIAL TO BE THREADED

Material to work	Cutting speed (m / min)	Refrigerant
Low alloy construction steel R< 700÷900N/mm ²	10 - 20	Oil
Tool steel	4 - 8	Oil
Alloy steel R< 1100÷1300N/mm ²	2 - 5	Oil
Stainless steel	5 - 10	Oil
Spheroidal cast iron	6 - 20	No Lubrication.
Copper alloys	10 - 15	Oil
Brass	20 - 30	Oil
Bronze	6 - 15	Oil
Aluminium Short chip	15 - 30	Oil
Aluminium Long chip	10 - 20	Oil
Titanium	3 - 4	Oil
Plastics and thermoplastics	5 - 15	Water
Thermosetting Materials	5 - 10	No Lubrication

**M001-X****MACHINE TAPS STRAIGHT FLUTE, SPIRAL POINTED FOR THROUGH HOLES**

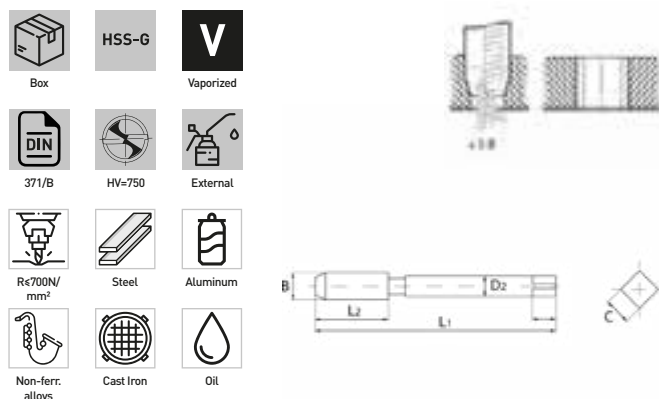
Isometric thread coarse pitch - reinforced shank.



Art.	B	L2	L1	D2	C
M001/3	M3 x 0,50	13 mm	56 mm	3.5 mm	2.7 mm
M001/4	M4 x 0,70	13 mm	66 mm	4.5 mm	3.4 mm
M001/5	M5 x 0,80	16 mm	70 mm	6 mm	4.9 mm
M001/6	M6 x 1	22 mm	85 mm	6 mm	4.9 mm
M001/8	M8 x 1,25	22 mm	90 mm	8 mm	6.2 mm
M001/10	M10 x 1,5	24 mm	100 mm	10 mm	8 mm

M001-XV**MACHINE TAPS STRAIGHT FLUTE, SPIRAL POINTED FOR THROUGH HOLES**

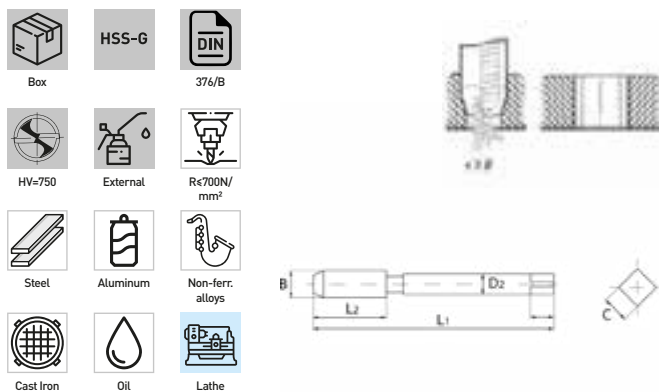
Isometric thread coarse pitch - reinforced shank, the vaporization treatment increases the surface hardness and wear resistance by reducing the possibility of chip sticking.



Art.	B	L2	L1	D2	C
M001/03V	M3 x 0,50	11 mm	56 mm	3.5 mm	2.7 mm
M001/04V	M4 x 0,70	13 mm	63 mm	4.5 mm	3.4 mm
M001/05V	M5 x 0,80	16 mm	70 mm	6 mm	4.9 mm
M001/06V	M6 x 1	19 mm	80 mm	6 mm	4.9 mm
M001/08V	M8 x 1,25	22 mm	90 mm	8 mm	6.2 mm
M001/10V	M10 x 1,5	24 mm	100 mm	10 mm	8 mm

M002-**MACHINE TAPS STRAIGHT FLUTE SPIRAL POINTED FOR THROUGH HOLES**

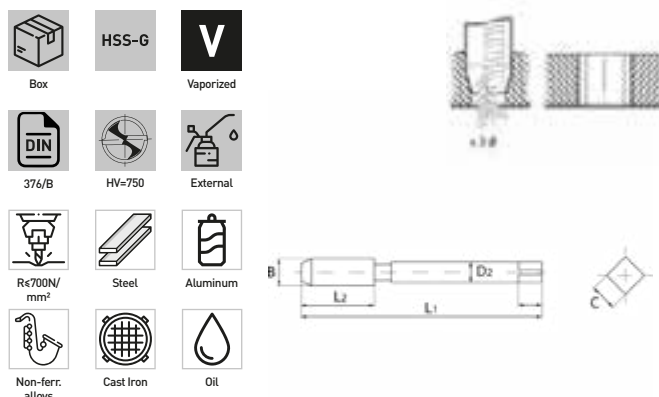
Isometric thread coarse pitch.



Art.	B	L2	L1	D2	C
M002/12	M12 x 1,75	29 mm	110 mm	9 mm	7 mm
M002/14	M14 x 2	30 mm	110 mm	11 mm	9 mm
M002/16	M16 x 2	32 mm	110 mm	12 mm	9 mm
M002/18	M18 x 2,5	34 mm	125 mm	14 mm	11 mm
M002/20	M20 x 2,5	34 mm	140 mm	16 mm	12 mm
M002/22	M22 x 2,5	34 mm	140 mm	18 mm	14.5 mm
M002/24	M24 x 3	38 mm	160 mm	18 mm	14.5 mm
M002/27	M27 x 3	38 mm	160 mm	20 mm	16 mm
M002/30	M30 x 3,5	45 mm	180 mm	22 mm	18 mm

M002-XV**MACHINE TAPS STRAIGHT FLUTE SPIRAL POINTED FOR THROUGH HOLES**

Isometric thread coarse pitch - reinforced shank, the vaporization treatment increases the surface hardness and wear resistance by reducing the possibility of chip sticking.



Art.	B	L2	L1	D2	C
M002/12V	M12 x 1,75	29 mm	110 mm	9 mm	7 mm
M002/14V	M14 x 2	30 mm	110 mm	11 mm	9 mm
M002/16V	M16 x 2	32 mm	110 mm	12 mm	9 mm
M002/18V	M18 x 2,5	34 mm	125 mm	14 mm	11 mm
M002/20V	M20 x 2,5	34 mm	140 mm	16 mm	12 mm

M003-

MACHINE TAPS SPIRAL FLUTE FOR BLIND HOLES 35°

Isometric thread coarse pitch - reinforced shank.



	HSS-G				
Box		371/C			
HV=750	External	R<700N/mm²			
Steel	Aluminum	Non-ferr. alloys			
Cast Iron	Oil	Lathe			

Art.	B	L2	L1	D2	C
M003/3	M3 x 0,50	11 mm	59 mm	3.5 mm	2.7 mm
M003/4	M4 x 0,70	13 mm	63 mm	4.5 mm	3.4 mm
M003/5	M5 x 0,80	18 mm	74 mm	6 mm	4.9 mm
M003/6	M6 x 1	22 mm	80 mm	6 mm	4.9 mm
M003/8	M8 x 1,25	22 mm	90 mm	8 mm	6.2 mm
M003/10	M10 x 1,5	24 mm	100 mm	10 mm	8 mm

M003-XV

MACHINE TAPS SPIRAL FLUTE FOR BLIND HOLES 35°

Isometric thread coarse pitch - reinforced shank, the vaporization treatment increases the surface hardness and wear resistance by reducing the possibility of chip sticking.



	HSS-G	V			
Box		Vaporized			
371/C	HV=750	External			
R<700N/mm²	Steel	Aluminum			
Non-ferr. alloys	Cast Iron	Oil			

Art.	B	L2	L1	D2	C
M003/03V	M3 x 0,50	11 mm	56 mm	3.5 mm	2.7 mm
M003/04V	M4 x 0,70	13 mm	63 mm	4.5 mm	3.4 mm
M003/05V	M5 x 0,80	16 mm	75 mm	6 mm	4.9 mm
M003/06V	M6 x 1	22 mm	86 mm	6 mm	4.9 mm
M003/08V	M8 x 1,25	22 mm	90 mm	8 mm	6.2 mm
M003/10V	M10 x 1,5	24 mm	100 mm	10 mm	8 mm

M003-XXX

MACHINE TAPS SPIRAL FLUTE FOR BLIND HOLES 35°

Isometric thread coarse pitch.



	HSS-G				
Box		376/C			
HV=750	External	R<700N/mm²			
Steel	Aluminum	Non-ferr. alloys			
Cast Iron	Oil	Lathe			

Art.	B	L2	L1	D2	C
M003/12	M12 x 1,75	29 mm	110 mm	9 mm	7 mm
M003/14	M14 x 2	30 mm	110 mm	11 mm	9 mm
M003/16	M16x2	32 mm	110 mm	12 mm	9 mm
M003/18	M18 x 2,5	34 mm	125 mm	14 mm	11 mm
M003/20	M20 x 2,5	34 mm	140 mm	16 mm	12 mm
M003/22	M22 x 2,5	34 mm	140 mm	18 mm	14.5 mm
M003/24	M24 x 3	38 mm	160 mm	18 mm	14.5 mm
M003/27	M27 x 3	38 mm	160 mm	20 mm	16 mm
M003/30	M30 x 3,5	45 mm	180 mm	22 mm	18 mm

M003-XXV

MACHINE TAPS SPIRAL FLUTE FOR BLIND HOLES 35°

Isometric thread coarse pitch - reinforced shank, the vaporization treatment increases the surface hardness and wear resistance by reducing the possibility of chip sticking.

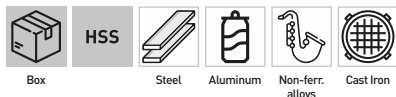


	HSS-G	V			
Box		Vaporized			
376/C	HV=750	External			
R<700N/mm²	Steel	Aluminum			
Non-ferr. alloys	Cast Iron	Oil			

Art.	B	L2	L1	D2	C
M003/12V	M12 x 1,75	29 mm	110 mm	9 mm	7 mm
M003/14V	M14 x 2	30 mm	110 mm	11 mm	9 mm
M003/16V	M16 x 2	32 mm	110 mm	12 mm	9 mm
M003/18V	M18 x 2,5	34 mm	125 mm	14 mm	11 mm
M003/20V	M20 x 2,5	34 mm	140 mm	16 mm	12 mm

**0890-****3 IN 1 DRILLING-TAPPING-DEBURRING TOOL**

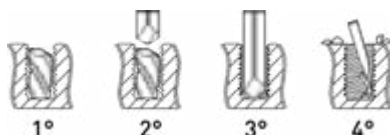
Thanks to the particular geometry in a single operation it is able to drill, thread and countersink.



Art.	Taps	Shank	Dimensions
0890/M3	M3 x 0,5	1/4"	52 mm
0890/M4	M4 x 0,7	1/4"	52 mm
0890/M5	M5 x 0,8	1/4"	54 mm
0890/M6	M6 x 1	1/4"	56 mm
0890/M8	M8 x 1,25	1/4"	58 mm
0890/M10	M10 x 1,5	1/4"	60 mm

0897-**NEW****HARD METAL TAP CRUSHER TOOL**

For removing broken taps inside holes. Cylindrical shank with hexagon for housing in the spindle, and self-centering cutting edge.



Art.	L	l	Taps	Stem
0897/M3	38 mm	10 mm	M3	3 mm
0897/M4	46 mm	15 mm	M4	4 mm
0897/M5	50 mm	19 mm	M5	5 mm
0897/M6	50 mm	23 mm	M6	6 mm
0897/M8	60 mm	23 mm	M8	7 mm
0897/M10	100 mm	25 mm	M10	9 mm
0897/M12	100 mm	35 mm	M12	12 mm

G003-**NEW****RATCHET TAP HOLDER**

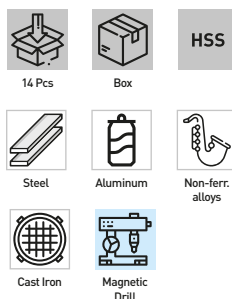
In right-hand, left-hand or fixed position. Equipped with a level on the head to facilitate correct alignment of the tap with the bore.



Art.	Length	Taps	Square
G003/1	85 mm	M3 ÷ M8	1,75 ÷ 5,5 mm
G003/2	100 mm	M5 ÷ M12	4 ÷ 8 mm
G003/3	250 mm	M3 ÷ M8	2,7 ÷ 5 mm
G003/4	300 mm	M5 ÷ M12	4,9 ÷ 8 mm

0890**3 IN 1 DRILLING-TAPPING-DEBURRING TOOL AND BIT SET**

Thanks to the particular geometry in a single operation it is able to drill, thread and countersink. With quick change holder.



Taps	M3 x 0,5 - M4 x 0,7 - M5 x 0,8 - M6 x 1 - M8 x 1,25 - M10 x 1,5
Shank	1/4"
Phillips	1 - 2
Pozi-driv	1 - 2
Slotted	4 - 5 mm

G002-**ADJUSTABLE TAP HOLDER**

With hardened jaws, a handle that can be unscrewed to carry out jobs with tight dimensions.



Art.	Taps	Square
G002/1	M1 ÷ M10	1,75 ÷ 5,5
G002/2	M4 ÷ M12	2,4 ÷ 8 mm
G002/3	M5 ÷ M20	2,7 ÷ 12

G011-**NEW****TAP HOLDER WITH PILOT SPINDLE**

Equipped with a centring guide pin, which allows it to be fixed on machine tool spindles in order to maintain the straightness of the tap with respect to the previously drilled pre-drilled hole.

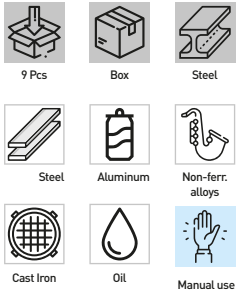


Art.	Taps	Square	Cylindric shank
G011/1	M2 ÷ M6	3 ÷ 5 mm	Ø6,25 mm
G011/2	M6 ÷ M12	5 ÷ 12 mm	Ø7,60 mm

F123

ROUND DIE SET

From M3 to M12, complete with round die-stock.

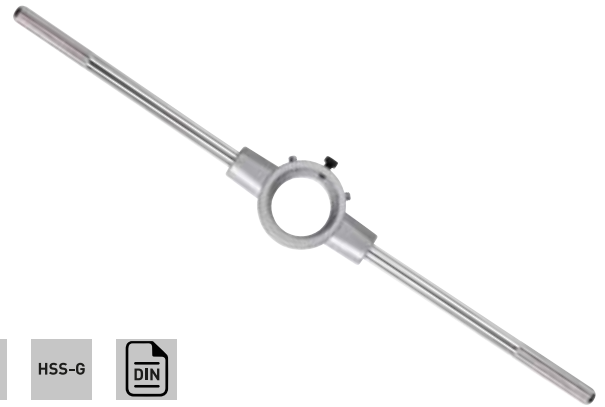


Size	M3 - M4 - M5 - M6 - M8 - M10 - M12
Round die-stock	25 x 9 mm

G001-

ROUND DIE-STOCK

With 3 die screws, 1 unscrewable handle to carry out jobs with tight dimensions.



Art.	Die dimensions	For dies
G001/20	20 x 7 mm	M4,5 ÷ M6
G001/25	25 x 9 mm	M7 ÷ M9
G001/30	30 x 11 mm	M10 ÷ M11
G001/38	38 x 14 mm	M12 ÷ M14
G001/45	45 x 18 mm	M16 ÷ M20
G001/55	55 x 22 mm	M22 ÷ M24

F121-

METRIC DIE FOR COARSE PITCH

With correct entry on both sides to facilitate the execution of the thread and correctly evacuate the shavings in the cutting direction.

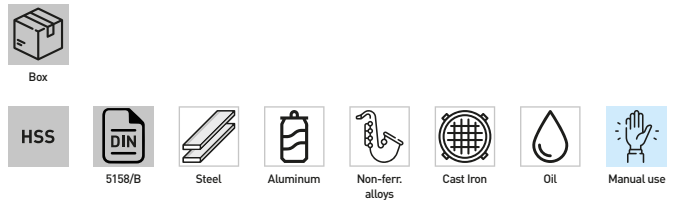


Art.	Pitch	Dimensions
F121/03	3 x 0,5 mm	Ø20 x 5 mm
F121/04	4 x 0,7 mm	Ø20 x 5 mm
F121/05	5 x 0,8 mm	Ø20 x 7 mm
F121/06	6 x 1 mm	Ø20 x 7 mm
F121/08	8 x 1,25 mm	Ø25 x 9 mm
F121/10	10 x 1,5 mm	Ø30 x 11 mm
F121/12	12 x 1,75 mm	Ø38 x 14 mm
F121/14	14 x 2 mm	Ø38 x 14 mm
F121/16	16 x 2 mm	Ø45 x 18 mm
F121/18	18 x 2,5 mm	Ø45 x 18 mm
F121/20	20 x 2,5 mm	Ø45 x 18 mm

F122-

DIE GAS THREAD

With correct entry on both sides to facilitate the execution of the thread and correctly evacuate the shavings in the cutting direction.









Art.	Pitch	Dimensions
F122/1/8	G1/8-28	Ø30 x 11 mm
F122/1/4	G1/4-19	Ø38 x 10 mm
F122/3/8	G3/8-19	Ø45 x 14 mm
F122/1/2	G1/2-14	Ø45 x 14 mm
F122/5/8	G5/8-14	Ø55 x 16 mm
F122/3/4	G3/4-14	Ø55 x 16 mm
F122/7/8	G7/8-14	Ø65 x 18 mm
F122/1	G1-11	Ø65 x 18 mm

F-COIL THREAD RESTORER RANGE

It is essential for reinforcing threads in materials with reduced resistance (aluminium, aluminium alloys or magnesium). The industrial sectors where it is most used are: mechanical and building development, automotive industry, medical and electronic equipment, as well as aerospace and aeronautical construction. Tapping reinforcement eliminates wear on the tapping itself, allowing frequent use of the thread. It is essential for the economical and lasting restoration of worn or discarded threads during manufacture.

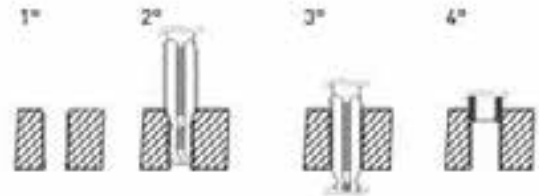
RESTORATION AND LAYING PROCEDURE

<p>1st operation Knowing the type of damaged thread</p>	<p>2nd operation Drilling execution with specific drill tip</p>
<p>Knowledge of the type of damaged thread so that the appropriate kit can be purchased to restore it.</p> 	<p>Drilling for removal of the damaged thread and thread preparation for the new F-Coil thread insert</p> 
<p>3rd operation Tapping execution for preparation of F-Coil thread housing</p>	<p>4th operation Screw in the Coil insert with the appropriate tool</p>
<p>Execution of the tapping operation with the specific tap for creating the housing for the F-Coil thread insert.</p> 	<p>Screw in the F-Coil insert with the F-Coil mounting tool to the required depth. If one helix is not enough, you can add more helix up to the necessary depth. The application of thread-locking glue is recommended to avoid possible disassembly of the F-Coil</p> 
<p>5th operation Breaking of the driving notch with a special cutter</p>	
<p>Once the thread-insert has been installed, break off the retention stud bolt. In order to break it, the specific breaking tool must be used. From a thread size of M14 onwards, it is possible to perform this operation with the use of a clamp where the pitch size permits.</p>	 

REPAIR THREADS FOR SPARK PLUG SEATS

To restore damaged spark plug seats the procedure is different: Threading is carried out directly on the damaged thread with the special tap supplied with the KIT. The F-COIL thread bushing is then inserted and must be screwed in completely up to the stop.

The application of thread-locking adhesive is recommended.



COMPOSITION OF THE THREAD REPAIR KIT

1	Stainless steel threaded inserts to be inserted in the tapping performed by recreating the previously damaged thread (Available in 1xØ, 1.5xØ, 2xØ, 2.5xØ and 3xØ lengths)		
2	Helical HSS bit for making the pre-hole for the tap		
3	Specific tap for tapping for the application of the threaded insert		
4	Tool for mounting F-Coil threaded inserts	For threaded inserts up to M24	
		For M26 inserts	
5	Specific tool for breaking the F-Coil tang		

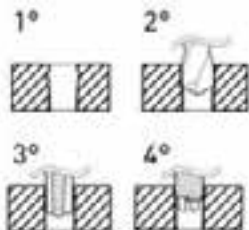




E010

METRIC THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials.

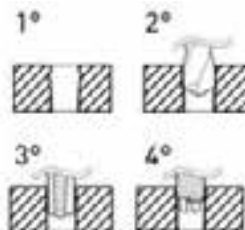


Sizes	M5 - M12
STI Taps	M5 x 0.8 - M6 x 1.0 - M8 x 1.25 - M10 x 1.5 - M12 x 1.75
Drills	5.2 mm - 6.3 mm - 8.3 mm - 10.4 mm - 12.4 mm
Wire-thread inserts	M5=25 M6=25 M8=25 M10=25 M12=10
Inserting tool	5 Pcs
Tang break tool	5 Pcs

E010B

METRIC THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials.

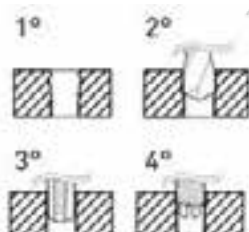


Sizes	M6 - M14
STI Taps	M6 x 1.0 - M8 x 1.25 - M10 x 1.5 - M12 x 1.75 - M14 x 1.25
Drills	6.3 mm - 8.3 mm - 10.4 mm - 12.4 mm
Wire-thread inserts	M6=25 M8=25 M10=20 M12=15 M14=25
Inserting tool	5 Pcs
Tang break tool	5 Pcs

E010E

METRIC THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials.

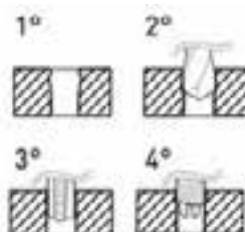


Sizes	M5 - M12
STI Taps	M5 x 0.8 - M6 x 1.0 - M8 x 1.25 - M10 x 1.5 - M12 x 1.75
Drills	5.2 mm - 6.3 mm - 8.3 mm - 10.4 mm - 12.4 mm
Wire-thread inserts	M5=25 M6=25 M8=25 M10=25 M12=10
Inserting tool	5 Pcs
Tang break tool	5 Pcs

E010-

THREAD REPAIR INSERT SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials.



Art.	Thread insert	Boring bit	Taps	Handle
E010/M05	M5	5,2 mm	x M5	2
E010/M06	M6	6,3 mm	x M6	2
E010/M08	M8	8,3 mm	x M8	2
E010/M10	M10	10,4 mm	x M10	2
E010/M12	M12	12,4 mm	x M12	2
E010/M14	M14 x 1,25	14,4 mm	x M14 x 1,25	2

E011A
METRIC THREAD REPAIR F-COIL SET

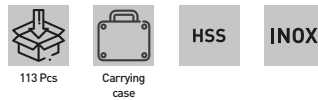
Suitable for thread regeneration or to obtain very resistant tapping in soft materials.



Sizes	M5 - M12
STI Taps	M5 x 0.8 - M6 x 1.0 - M8 x 1.25 - M10 x 1.5 - M12 x 1.75
Drills	5.2 mm - 6.3 mm - 8.3 mm - 10.4 mm - 12.4 mm
Wire-thread inserts	M5=25 M6=25 M8=25 M10=25 M12=10
Inserting tool	5 Pcs
Tang break tool	5 Pcs

E011B
METRIC THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials.



Sizes	M6 - M14
STI Taps	M6 x 1.0 - M8 x 1.25 - M10 x 1.5 - M12 x 1.75 - M14 x 1.25
Drills	6.3 mm - 8.3 mm - 10.4 mm - 12.4 mm
Wire-thread inserts	M6=25 M8=25 M10=25 M12=10 M14=10
Inserting tool	5 Pcs
Tang break tool	4 Pcs

E011C
METRIC THREAD REPAIR F-COIL SET

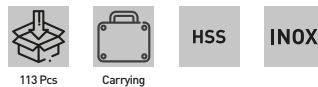
Suitable for thread regeneration or to obtain very resistant tapping in soft materials.



Sizes	M6 - M10
STI Taps	M6 x 1.0 - M8 x 1.25 - M10 x 1.5
Drills	6.3 mm - 8.3 mm - 10.4 mm
Wire-thread inserts	M6 25 Pcs - M8 25 Pcs - M10 25 Pcs
Inserting tool	3 Pcs
Tang break tool	3 Pcs

E011D
METRIC THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials. 14 mm size specific for car spark plugs.



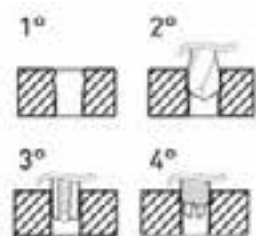
Sizes	M6 - M14
STI Taps	M6 x 1.0 - M8 x 1.25 - M10 x 1.5 - M12 x 1.75 - M14 x 1.25
Drills	6.3 mm - 8.3 mm - 10.4 mm - 12.4 mm
Wire-thread inserts	M6 25 Pcs - M8 25 Pcs - M10 25 Pcs - M12 10 Pcs - M14 10 Pcs
Inserting tool	5 Pcs
Tang break tool	4 Pcs



E011-MX1

METRIC THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials.

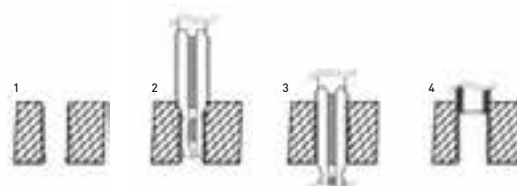


Art.	Dimensions	Boring bit	STI Taps	Inserting tool	Tang break tool	Inserts quantity
E011/M020X040	M 2 x 0.4	Ø 2.1 mm	E011/M020X040M	E011/U02	E011/A02	20
E011/M025X045	M 2.5 x 0.45	Ø 2.6 mm	E011/M025X045M	E011/U03	E011/A03	20
E011/M030X050	M 3 x 0.5	Ø 3.2 mm	E011/M030X050M	E011/U04	E011/A04	20
E011/M035X060	M 3.5 x 0.6	Ø 3.7 mm	E011/M035X060M	E011/U05	E011/A05	20
E011/M040X070	M 4 x 0.7	Ø 4.2 mm	E011/M040X070M	E011/U06	E011/A06	20
E011/M050X080	M 5 x 0.8	Ø 5.2 mm	E011/M050X080M	E011/U08	E011/A08	20
E011/M060X100	M 6 x 1.0	Ø 6.3 mm	E011/M060X100M	E011/U09	E011/A09	20
E011/M070X100	M 7 x 1.0	Ø 7.3 mm	E011/M070X100M	E011/U10	E011/A11	20
E011/M080X100	M 8 x 1.0	Ø 8.3 mm	E011/M080X100M	E011/U11	E011/A11	20
E011/M080X125	M 8 x 1.25	Ø 8.3 mm	E011/M080X125M	E011/U11	E011/A11	20
E011/M090X100	M 9 x 1.0	Ø 9.3 mm	E011/M090X100M	E011/U12	E011/A12	10
E011/M090X125	M 9 x 1.25	Ø 9.3 mm	E011/M090X125M	E011/U12	E011/A12	15
E011/M100X100	M 10 x 1.0	Ø 10.3 mm	E011/M100X100M	E011/U13	E011/A13	15
E011/M100X125	M 10 x 1.25	Ø 10.3 mm	E011/M100X125M	E011/U13	E011/A13	15
E011/M100X150	M 10 x 1.5	Ø 10.4 mm	E011/M100X150M	E011/U13	E011/A13	15
E011/M110X150	M 11 x 1.5	Ø 11.4 mm	E011/M110X150M	E011/U14	E011/A14	10
E011/M120X100	M 12 x 1.0	Ø 12.3 mm	E011/M120X100M	E011/U15	E011/A15	10
E011/M120X125	M 12 x 1.25	Ø 12.3 mm	E011/M120X125M	E011/U15	E011/A15	10
E011/M120X150	M 12 x 1.5	Ø 12.4 mm	E011/M120X150M	E011/U15	E011/A15	10
E011/M120X175	M 12 x 1.75	Ø 12.4 mm	E011/M120X175M	E011/U15	E011/A15	10
E011/M140X100	M 14 x 1.0	-	E011/M140X100M	E011/U16	-	10
E011/M140X125	M 14 x 1.25	-	E011/M140X125M	E011/U16	-	10
E011/M140X150	M 14 x 1.5	-	E011/M140X150M	E011/U17	-	10
E011/M140X200	M 14 x 2.0	-	E011/M140X200M	E011/U17	-	10
E011/M160X150	M 16 x 1.5	-	E011/M160X150M	E011/U18	-	10
E011/M160X200	M 16 x 2.0	-	E011/M160X200M	E011/U18	-	10
E011/M180X150	M 18 x 1.5	-	E011/M180X150M	E011/U20	-	5
E011/M180X200	M 18 x 2.0	-	E011/M180X200M	E011/U20	-	5
E011/M180X250	M 18 x 2.5	-	E011/M180X250M	E011/U20	-	5
E011/M200X150	M 20 x 1.5	-	E011/M200X150M	E011/U21	-	5
E011/M200X200	M 20 x 2.0	-	E011/M200X200M	E011/U21	-	5
E011/M200X250	M 20 x 2.5	-	E011/M200X250M	E011/U21	-	5
E011/M220X150	M 22 x 1.5	-	E011/M220X150M	E011/U22	-	5
E011/M220X200	M 22 x 2.0	-	E011/M220X200M	E011/U22	-	5
E011/M220X250	M 22 x 2.5	-	E011/M220X250M	E011/U22	-	5
E011/M240X150	M 24 x 1.5	-	E011/M240X150M	E011/U23	-	5
E011/M240X200	M 24 x 2.0	-	E011/M240X200M	E011/U23	-	5
E011/M240X300	M 24 x 3.0	-	E011/M240X300M	E011/U23	-	5

E011/M140X125B

METRIC SPARK PLUG SOLID THREAD REPAIR SET

Specific for repairs or reinforcement of spark plug seats.



STI Taps

Wire-thread inserts

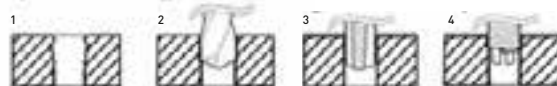
E011/M140X125MCB

4 x H 9.5 mm - 4 x H 11.2 mm - 4 x H 12.7 mm - 4 x H 17.5 mm

E011-MXC

SPARK PLUG METRIC THREAD REPAIR F-COIL SET

Specific for repairs or reinforcement of spark plug seats.



Art.	Size	Inserting tool	STI Taps	Wire-thread inserts
E011/M060X100C	M 6 x 1.0	E011/U09	E011/M060X100M	10
E011/M080X125C	M 8 x 1.25	E011/U11	E011/M080X125M	10
E011/M100X100C	M 10 x 1.0	E011/U13	E011/M100X100M	10
E011/M100X125C	M 10 x 1.25	E011/U13	E011/M100X125M	10
E011/M100X150C	M 10 x 1.5	E011/U13	E011/M100X150M	10
E011/M120X125C	M 12 x 1.25	E011/U15	E011/M120X125M	10
E011/M140X125C	M 14 x 1.25	E011/U17	E011/M140X125M	5 x E010/M140X125E084 - 5 x E010/M140X125E124 - 5 x E010/M140X125E164

E010-MXEXC
STAINLESS STEEL THREAD REPAIR INSERT

Specific for repairs or reinforcement of spark plug seats. With rhomboidal section, with spring shape, which creates two perfectly concentric threads; an external one that mates with the threaded hole previously made and an internal one that receives the screw.



Hangable

Art.	Dimensions	H	Pack
E010/M140X125E084	M 14 x 1.25	8.4 mm	10
E010/M140X125E124	M 14 x 1.25	12.4 mm	10
E010/M140X125E164	M 14 x 1.25	16.4 mm	10

E011-M140X125EX
SOLID THREAD INSERT SPARK PLUG SET

Specific for repairs or reinforcement of spark plug seats.



Hangable

Art.	Size	H	Pack
E011/M140X125E095	M 14 x 1.25	9.5 mm	10
E011/M140X125E112	M 14 x 1.25	11.2 mm	10
E011/M140X125E127	M 14 x 1.25	12.7 mm	10
E011/M140X125E175	M 14 x 1.25	17.5 mm	10

E011/M140X125MCB
METRIC COMBINED TAP FOR SOLID INSERT

Specific for the creation of reset threads on spark plug seats.



Size	M 16 x 1.25
Hexagon	18 mm
L	70 mm
l	32 mm

E011/MC
METRIC GLOW PLUG SOLID THREAD REPAIR SET

Specific for repairs or reinforcement of glow plug seats.



33 Pcs

Box

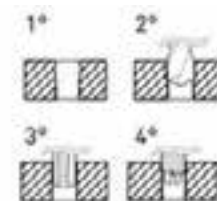
Sizes	8 mm - 10 mm - 12 mm
STI Taps	M8x1 - M10x1 - M10x1.25 - M12x1 - M12x1.25 - M14x1.25

E011/BSW
1/4-1/2 BSW THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials


 115 Pcs
Carrying case

Sizes	BSW 1/4" - 1/2"
STI Taps	1/4"x20-5/16"x18-3/8"x16-7/16"x14-1/2"x12
Drills	6.6 mm - 8.3 mm - 9.9 mm - 11.5 mm - 13.0 mm
Wire-thread inserts	1/4"=25 5/16"=25 3/8"=25 7/16"=10 1/2"=10
Inserting tool	5 Pcs
Tang break tool	5 Pcs

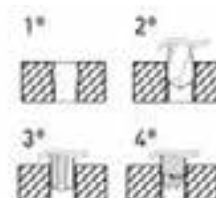

E011-BSWX
BSW THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials.



Hangable

Art.	Thread	Boring bit	STI Taps	Inserting tool	Tang break tool	Wire-thread inserts	Inserts quantity
E011/BSW1/8	1/8" x 40	Ø 3.4 mm	E011/BSW1/8M	E011/U04	E011/A4	E010/BSW1/8E15	20
E011/BSW3/16	3/16" x 24	Ø 5.0 mm	E011/BSW3/16M	E011/U08	E011/A8	E010/BSW3/16E15	20
E011/BSW1/4	1/4" x 20	Ø 6.7 mm	E011/BSW1/4M	E011/U09	E011/A9	E010/BSW1/4E15	20
E011/BSW5/16	5/16" x 18	Ø 8.3 mm	E011/BSW5/16M	E011/U10	E011/A11	E010/BSW5/16E15	20
E011/BSW7/16	7/16" x 14	Ø 11.5 mm	E011/BSW7/16M	E011/U14	E011/A14	E010/BSW7/16E15	10
E011/BSW1/2	1/2" x 12	Ø 13.0 mm	E011/BSW1/2M	E011/U15	E011/A15	E010/BSW1/2E15	10
E011/BSW9/16	9/16" x 12	-	E011/BSW9/16M	E011/U16	-	E010/BSW9/16E15	10
E011/BSW5/8	5/8" x 11	-	E011/BSW5/8M	E011/U18	-	E010/BSW5/8E15	10
E011/BSW3/4	3/4" x 10	-	E011/BSW3/4M	E011/U20	-	E010/BSW3/4E15	5
E011/BSW7/8	7/8" x 9	-	E011/BSW7/8M	E011/U22	-	E010/BSW7/8E15	5
E011/BSW1	1" x 8	-	E011/BSW1M	E011/U23	-	E010/BSW1E15	4



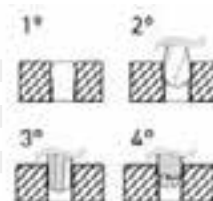
E011/BSF

1/4-1/2 BSF THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials.



Sizes	BSF 1/4" - 1/2"	
STI Taps	1/4"x26-5/16"x22-3/8"x20-7/16"x18-1/2"x16	
Drills	6.6 mm - 8.3 mm - 9.9 mm - 11.5 mm - 13.0 mm	
Wire-thread inserts	1/4"=25 5/16"=25 3/8"=25 7/16"=10 - 1/2"=10	
Inserting tool	5 Pcs	
Tang break tool	5 Pcs	



E011-BSFX

BSF THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials.



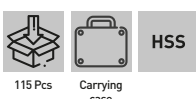
Art.	Thread	Boring bit	STI Taps	Inserting tool	Tang break tool	Wire-thread inserts	Inserts quantity
E011/BSF3/16	3/16" x 32	Ø 5.0 mm	E011/BSF3/16M	E011/U07	E011/A06	E010/BSF3/16E15	20
E011/BSF1/4	1/4" x 26	Ø 6.6 mm	E011/BSF1/4M	E011/U09	E011/A09	E010/BSF1/4E15	20
E011/BSF5/16	5/16" x 22	Ø 8.3 mm	E011/BSF5/16M	E011/U11	E011/A11	E010/BSF5/16E15	20
E011/BSF3/8	3/8" x 20	Ø 9.9 mm	E011/BSF3/8M	E011/U13	E011/A13	E010/BSF3/8E15	15
E011/BSF7/16	7/16" x 18	Ø 11.5 mm	E011/BSF7/16M	E011/U14	E011/A14	E010/BSF7/16E15	10
E011/BSF1/2	1/2" x 16	Ø 13.0 mm	E011/BSF1/2M	E011/U15	E011/A15	E010/BSF1/2E15	10
E011/BSF9/16	9/16" x 16	-	E011/BSF9/16M	E011/U16	-	E010/BSF9/16E15	10
E011/BSF5/8	5/8" x 14	-	E011/BSF5/8M	E011/U18	-	E010/BSF5/8E15	10
E011/BSF3/4	3/4" x 12	-	E011/BSF3/4M	E011/U20	-	E010/BSF3/4E15	5
E011/BSF7/8	7/8" x 11	-	E011/BSF7/8M	E011/U22	-	E010/BSF7/8E15	5
E011/BSF1	1" x 10	-	E011/BSF1M	E011/U23	-	E010/BSF1E15	4



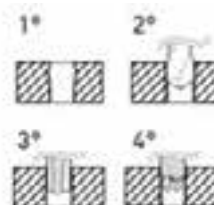
E011/UNC

1/4-1/2 UNC THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials.



Sizes	UNC 1/4" - 1/2"	
STI Taps	1/4"x20-5/16"x18-3/8"x16-7/16"x14-1/2"x13	
Drills	6.7 mm - 8.6.7 mm - 8.3 mm - 9.9 mm - 11.6 mm - 13.0 mm 3 mm - 9.	
Wire-thread inserts	1/4"=25 5/16"=25 3/8"=25 7/16"=10 1/2"=10	
Inserting tool	5 Pcs	
Tang break tool	5 Pcs	



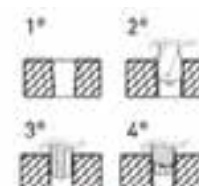
E011-UNCX

UNC THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials.



Art.	Thread	Drills	STI Taps	Inserting tool	Tang break tool	Wire-thread inserts	Inserts quantity
E011/UNC1/4	1/4" x 20	Ø 6.7 mm	E011/UNC1/4M	E011/U09	E011/A09	E010/UNC1/4E15	20
E011/UNC5/16	5/16" x 18	Ø 8.3 mm	E011/UNC5/16M	E011/U10	E011/A11	E010/UNC5/16E15	20
E011/UNC3/8	3/8" x 16	Ø 9.9 mm	E011/UNC3/8M	E011/U06	E011/A06	E010/UNC3/8E15	20
E011/UNC7/16	7/16" x 14	Ø 11.6 mm	E011/UNC7/16M	E011/U14	E011/A14	E010/UNC7/16E15	10
E011/UNC1/2	1/2" x 13	Ø 13.0 mm	E011/UNC1/2M	E011/U15	E011/A15	E010/UNC1/2E15	10
E011/UNC9/16	9/16" x 12	-	E011/UNC9/16M	E011/U16	-	E010/UNC9/16E15	10
E011/UNC5/8	5/8" x 1	-	E011/UNC5/8M	E011/U18	-	E010/UNC5/8E15	10
E011/UNC3/4	3/4" x 10	-	E011/UNC3/4M	E011/U20	-	E010/UNC3/4E15	5
E011/UNC7/8	7/8" x 9	-	E011/UNC7/8M	E011/U22	-	E010/UNC7/8E15	5



E011/UNF
1/4-1/2 UNF THREAD REPAIR F-COIL SET

Suitable for thread regeneration or to obtain very resistant tapping in soft materials



Sizes	UNF 1/4" - 1/2"
STI Taps	1/4"x28-5/16"x24-3/8"x24-7/16"x20-1/2"x20
Drills	6.7 mm - 8.3 mm - 9.8 mm - 11.5 mm - 13.0 mm
Wire-thread inserts	1/4"=25 5/16"=25 3/8"=25 7/16"=10 - 1/2"=10
Inserting tool	5 Pcs
Tang break tool	5 Pcs

E011-UNFX
UNF THREAD REPAIR F-COIL SET

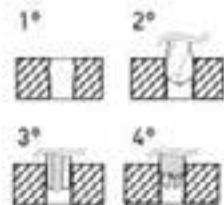
Suitable for thread regeneration or to obtain very resistant tapping in soft materials.



Hangable



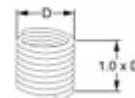
Art.	Thread	Drills	STI Taps	Inserting tool	Tang break tool	Wire-thread inserts	Inserts quantity
E011/UNFN10	No. 10 x 32	Ø 5.1 mm	E011/UNFN10M	E011/U08	E011/A08	E010/UNFN10E15	20
E011/UNF1/4	1/4" x 28	Ø 6.7 mm	E011/UNF1/4M	E011/U09	E011/A09	E010/UNF1/4E15	20
E011/UNF5/16	5/16" x 24	Ø 8.3 mm	E011/UNF5/16M	E011/U11	E011/A11	E010/UNF5/16E15	20
E011/UNF3/8	3/8" x 24	Ø 9.8 mm	E011/UNF3/8M	E011/U13	E011/A13	E010/UNF3/8E15	15
E011/UNF1/2	1/2" x 20	Ø 13.0 mm	E011/UNF1/2M	E011/U15	E011/A15	E010/UNF1/2E15	10
E011/UNF9/16	9/16" x 18	-	E011/UNF9/16M	E011/U16	-	E010/UNF9/16E15	10
E011/UNF5/8	5/8" x 18	-	E011/UNF5/8M	E011/U18	-	E010/UNF5/8E15	10
E011/UNF3/4	3/4" x 16	-	E011/UNF3/4M	E011/U21	-	E010/UNF3/4E15	5
E011/UNF7/8	7/8" x 14	-	E011/UNF7/8M	E011/U22	-	E010/UNF7/8E15	5
E011/UNF1	1" x 12	-	E011/UNF112M	E011/U23	-	E010/UNF1E15	4


E010-MXE1
STAINLESS STEEL THREAD REPAIR INSERT H=1XD

Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed.



Hangable



Art.	D	Pack
E010/M020X040E1	M 2 x 0.4	25
E010/M022X045E1	M 2.2 x 0.45	25
E010/M025X045E1	M 2.5 x 0.45	25
E010/M030X050E1	M 3 x 0.5	25
E010/M035X060E1	M 3.5 x 0.6	25
E010/M040X070E1	M 4 x 0.7	25
E010/M050X080E1	M 5 x 0.8	25
E010/M060X100E1	M 6 x 1.0	25
E010/M070X100E1	M 7 x 1.0	25
E010/M080X100E1	M 8 x 1.0	25
E010/M080X125E1	M 8 x 1.25	25
E010/M090X125E1	M 9 x 1.25	25
E010/M100X100E1	M 10 x 1.0	25
E010/M100X125E1	M 10 x 1.25	25
E010/M100X150E1	M 10 x 1.5	25
E010/M110X150E1	M 11 x 1.5	10
E010/M120X100E1	M 12 x 1.0	10
E010/M120X125E1	M 12 x 1.25	10
E010/M120X150E1	M 12 x 1.5	10

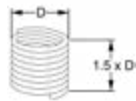
Art.	D	Pack
E010/M120X175E1	M 12 x 1.75	10
E010/M140X100E1	M 14 x 1.0	10
E010/M140X125E1	M 14 x 1.25	10
E010/M140X150E1	M 14 x 1.5	10
E010/M140X200E1	M 14 x 2.0	10
E010/M160X150E1	M 16 x 1.5	10
E010/M160X200E1	M 16 x 2.0	10
E010/M180X150E1	M 18 x 1.5	10
E010/M180X200E1	M 18 x 2.0	10
E010/M180X250E1	M 18 x 2.5	10
E010/M200X150E1	M 20 x 1.5	10
E010/M200X200E1	M 20 x 2.0	10
E010/M200X250E1	M 20 x 2.5	10
E010/M220X150E1	M 22 x 1.5	5
E010/M220X200E1	M 22 x 2.0	5
E010/M220X250E1	M 22 x 2.5	5
E010/M240X150E1	M 24 x 1.5	5
E010/M240X200E1	M 24 x 2.0	5
E010/M240X300E1	M 24 x 3.0	5



E010-MXE15

STAINLESS STEEL THREAD REPAIR INSERT H=1.5XD

Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed.

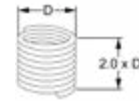


Art.	D	Pack
E010/M020X040E15	M 2 x 0.4	25
E010/M022X045E15	M 2.2 x 0.45	25
E010/M025X045E15	M 2.5 x 0.45	25
E010/M030X050E15	M 3 x 0.5	25
E010/M035X060E15	M 3.5 x 0.6	25
E010/M040X070E15	M 4 x 0.7	25
E010/M050X080E15	M 5 x 0.8	25
E010/M060X100E15	M 6 x 1.0	25
E010/M070X100E15	M 7 x 1.0	25
E010/M080X100E15	M 8 x 1.0	25
E010/M080X125E15	M 8 x 1.25	25
E010/M090X100E15	M 9 x 1.0	25
E010/M090X125E15	M 9 x 1.25	25
E010/M100X100E15	M 10 x 1.0	25
E010/M100X125E15	M 10 x 1.25	25
E010/M100X150E15	M 10 x 1.5	25
E010/M110X150E15	M 11 x 1.5	10
E010/M120X100E15	M 12 x 1.0	10
E010/M120X125E15	M 12 x 1.25	10
E010/M120X150E15	M 12 x 1.5	10
E010/M120X175E15	M 12 x 1.75	10
E010/M140X100E15	M 14 x 1.0	10
E010/M140X125E15	M 14 x 1.25	10
E010/M140X150E15	M 14 x 1.50	10
E010/M140X200E15	M 14 x 2.0	10
E010/M160X150E15	M 16 x 1.5	10
E010/M160X200E15	M 16 x 2.0	10
E010/M180X150E15	M 18 x 1.5	10
E010/M180X200E15	M 18 x 2.0	10
E010/M180X250E15	M 18 x 2.5	10
E010/M200X150E15	M 20 x 1.5	10
E010/M200X200E15	M 20 x 2.0	10
E010/M200X250E15	M 20 x 2.5	10
E010/M220X150E15	M 22 x 1.5	5
E010/M220X200E15	M 22 x 2.0	5
E010/M220X250E15	M 22 x 2.5	5
E010/M240X150E15	M 24 x 1.5	5
E010/M240X200E15	M 24 x 2.0	5
E010/M240X300E15	M 24 x 3.0	5
E010/M260X150E15	M 26 x 1.5	5
E010/M270X150E15	M 27 x 1.5	5
E010/M270X200E15	M 27 x 2.0	5
E010/M270X300E15	M 27 x 3.0	5
E010/M280X150E15	M 28 x 1.5	5
E010/M300X150E15	M 30 x 1.5	5
E010/M300X200E15	M 30 x 2.0	5
E010/M300X350E15	M 30 x 3.5	5
E010/M330X200E15	M 33 x 2.0	5
E010/M330X350E15	M 33 x 3.5	5
E010/M360X150E15	M 36 x 1.5	5
E010/M360X200E15	M 36 x 2.0	5
E010/M360X300E15	M 36 x 3.0	5
E010/M360X400E15	M 36 x 4.0	5
E010/M390X300E15	M 39 x 3.0	5
E010/M390X400E15	M 39 x 4.0	5
E010/M400X300E15	M 40 x 3.0	5
E010/M420X300E15	M 42 x 3.0	5
E010/M450X300E15	M 45 x 3.0	5

E010-MXE2

STAINLESS STEEL THREAD REPAIR INSERT H=2XD

Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed.

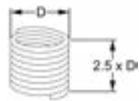


Art.	D	Pack
E010/M020X040E2	M 2 x 0.4	25
E010/M022X045E2	M 2.2 x 0.45	25
E010/M025X045E2	M 2.5 x 0.45	25
E010/M030X050E2	M 3 x 0.5	25
E010/M035X060E2	M 3.5 x 0.6	25
E010/M040X070E2	M 4 x 0.7	25
E010/M050X080E2	M 5 x 0.8	25
E010/M060X100E2	M 6 x 1.0	25
E010/M070X100E2	M 7 x 1.0	25
E010/M080X100E2	M 8 x 1.0	25
E010/M080X125E2	M 8 x 1.25	25
E010/M090X125E2	M 9 x 1.25	25
E010/M100X100E2	M 10 x 1.0	25
E010/M100X125E2	M 10 x 1.25	25
E010/M100X150E2	M 10 x 1.5	25
E010/M110X150E2	M 11 x 1.5	10
E010/M120X100E2	M 12 x 1.0	10
E010/M120X125E2	M 12 x 1.25	10
E010/M120X150E2	M 12 x 1.5	10
E010/M120X175E2	M 12 x 1.75	10
E010/M140X100E2	M 14 x 1.0	10
E010/M140X125E2	M 14 x 1.25	10
E010/M140X150E2	M 14 x 1.5	10
E010/M140X200E2	M 14 x 2.0	10
E010/M160X150E2	M 16 x 1.5	10
E010/M160X200E2	M 16 x 2.0	10
E010/M180X150E2	M 18 x 1.5	10
E010/M180X200E2	M 18 x 2.0	10
E010/M180X250E2	M 18 x 2.5	10
E010/M200X150E2	M 20 x 1.5	10
E010/M200X200E2	M 20 x 2.0	10
E010/M200X250E2	M 20 x 2.5	10
E010/M220X150E2	M 22 x 1.5	5
E010/M220X200E2	M 22 x 2.0	5
E010/M220X250E2	M 22 x 2.5	5
E010/M240X150E2	M 24 x 1.5	5
E010/M240X200E2	M 24 x 2.0	5
E010/M240X300E2	M 24 x 3.0	5



E010-MXE25
STAINLESS STEEL THREAD REPAIR INSERT H=2.5XD

Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed.

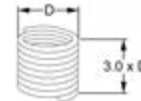

INOX

Hangable

Art.	D	Pack
E010/M020X040E25	2 x 0.4	25
E010/M022X045E25	2.2 x 0.45	25
E010/M025X045E25	2.5 x 0.45	25
E010/M030X050E25	3 x 0.5	25
E010/M035X060E25	3.5 x 0.6	25
E010/M040X070E25	4 x 0.7	25
E010/M050X080E25	5 x 0.8	25
E010/M060X100E25	6 x 1.0	25
E010/M070X100E25	7 x 1.0	25
E010/M080X100E25	8 x 1.0	25
E010/M080X125E25	8 x 1.25	25
E010/M090X125E25	9 x 1.25	25
E010/M100X100E25	10 x 1.0	25
E010/M100X125E25	10 x 1.25	25
E010/M100X150E25	10 x 1.5	25
E010/M110X150E25	11 x 1.5	10
E010/M120X100E25	12 x 1.0	10
E010/M120X125E25	12 x 1.25	10
E010/M120X150E25	12 x 1.5	10
E010/M120X175E25	12 x 1.75	10
E010/M140X100E25	14 x 1.0	10
E010/M140X125E25	14 x 1.25	10
E010/M140X150E25	14 x 1.5	10
E010/M140X200E25	14 x 2.0	10
E010/M160X150E25	16 x 1.5	10
E010/M160X200E25	16 x 2.0	10
E010/M180X150E25	18 x 1.5	10
E010/M180X200E25	18 x 2.0	10
E010/M180X250E25	18 x 2.5	10
E010/M200X150E25	20 x 1.5	10
E010/M200X200E25	20 x 2.0	10
E010/M200X250E25	20 x 2.5	10
E010/M220X150E25	22 x 1.5	5
E010/M220X200E25	22 x 2.0	5
E010/M220X250E25	22 x 2.5	5
E010/M240X150E25	24 x 1.5	5
E010/M240X200E25	24 x 2.0	5
E010/M240X300E25	24 x 3.0	5

E010-MXE3
STAINLESS STEEL THREAD REPAIR INSERT H=3XD

Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed.


INOX

Hangable

Art.	D	Pack
E010/M020X040E3	M 2 x 0.4	25
E010/M022X045E3	M 2.2 x 0.45	25
E010/M025X045E3	M 2.5 x 0.45	25
E010/M030X050E3	M 3 x 0.5	25
E010/M035X060E3	M 3.5 x 0.6	25
E010/M040X070E3	M 4 x 0.7	25
E010/M050X080E3	M 5 x 0.8	25
E010/M060X100E3	M 6 x 1.0	25
E010/M070X100E3	M 7 x 1.0	25
E010/M080X100E3	M 8 x 1.0	25
E010/M080X125E3	M 8 x 1.25	25
E010/M090X125E3	M 9 x 1.25	25
E010/M100X100E3	M 10 x 1.0	25
E010/M100X125E3	M 10 x 1.25	25
E010/M100X150E3	M 10 x 1.5	25
E010/M110X150E3	M 11 x 1.5	10
E010/M120X100E3	M 12 x 1.0	10
E010/M120X125E3	M 12 x 1.25	10
E010/M120X150E3	M 12 x 1.5	10
E010/M120X175E3	M 12 x 1.75	10
E010/M140X100E3	M 14 x 1.0	10
E010/M140X125E3	M 14 x 1.25	10
E010/M140X150E3	M 14 x 1.5	10
E010/M140X200E3	M 14 x 2.0	10
E010/M160X150E3	M 16 x 1.5	10
E010/M160X200E3	M 16 x 2.0	10
E010/M180X150E3	M 18 x 1.5	10
E010/M180X200E3	M 18 x 2.0	10
E010/M180X250E3	M 18 x 2.5	10
E010/M200X150E3	M 20 x 1.5	10
E010/M200X200E3	M 20 x 2.0	10
E010/M200X250E3	M 20 x 2.5	10
E010/M220X150E3	M 22 x 1.5	5
E010/M220X200E3	M 22 x 2.0	5
E010/M220X250E3	M 22 x 2.5	5
E010/M240X150E3	M 24 x 1.5	5
E010/M240X200E3	M 24 x 2.0	5
E010/M240X300E3	M 24 x 3.0	5





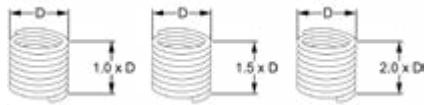
E010-MXEXA

SELF-LOCK STAINLESS STEEL THREAD REPAIR INSERT

Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed.



INOX



Art.	D	Height	Pack
E010/M030X050E1A	M 3 x 0.5	1.0 D	25
E010/M040X070E1A	M 4 x 0.7	1.0 D	25
E010/M050X080E1A	M 5 x 0.8	1.0 D	25
E010/M060X100E1A	M 6 x 1.0	1.0 D	25
E010/M080X125E1A	M 8 x 1.25	1.0 D	25
E010/M100X150E1A	M 10 x 1.5	1.0 D	25
E010/M120X175E1A	M 12 x 1.75	1.0 D	10
E010/M140X200E1A	M 14 x 2.0	1.0 D	10
E010/M160X200E1A	M 16 x 2.0	1.0 D	10
E010/M030X050E15A	M 3 x 0.5	1.5 D	25
E010/M040X070E15A	M 4 x 0.7	1.5 D	25
E010/M050X080E15A	M 5 x 0.8	1.5 D	25
E010/M060X100E15A	M 6 x 1.0	1.5 D	25
E010/M080X125E15A	M 8 x 1.25	1.5 D	25
E010/M100X150E15A	M 10 x 1.5	1.5 D	25
E010/M120X175E15A	M 12 x 1.75	1.5 D	10
E010/M140X200E15A	M 14 x 2.0	1.5 D	10
E010/M160X200E15A	M 16 x 2.0	1.5 D	10
E010/M030X050E2A	M 3 x 0.5	2.0 D	25
E010/M040X070E2A	M 4 x 0.7	2.0 D	25
E010/M050X080E2A	M 5 x 0.8	2.0 D	25
E010/M060X100E2A	M 6 x 1.0	2.0 D	25
E010/M080X125E2A	M 8 x 1.25	2.0 D	25
E010/M100X150E2A	M 10 x 1.5	2.0 D	25
E010/M120X175E2A	M 12 x 1.75	2.0 D	10
E010/M140X200E2A	M 14 x 2.0	2.0 D	10
E010/M160X200E2A	M 16 x 2.0	2.0 D	10

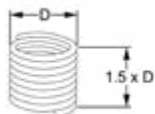
E010-BSFXEX

STAINLESS STEEL THREAD REPAIR INSERT BSF H=1.5XD

Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed.



INOX



Art.	D	Pack
E010/BSF3/16E15	3/16" x 32	10
E010/BSF1/4E15	1/4" x 26	10
E010/BSF5/16E15	5/16" x 22	10
E010/BSF3/8E15	3/8" x 20	10
E010/BSF7/16E15	7/16" x 18	10
E010/BSF1/2E15	1/2" x 16	10
E010/BSF9/16E15	9/16" x 16	5
E010/BSF5/8E15	5/8" x 14	5
E010/BSF3/4E15	3/4" x 12	5
E010/BSF7/8E15	7/8" x 11	5
E010/BSF1E15	1" x 10	5

E010-BSWXEX

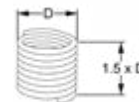
STAINLESS STEEL THREAD REPAIR INSERT BSW H=1.5XD

Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed.



INOX

Hangable



Art.	D	Pack
E010/BSW1/8E15	1/8" x 40	10
E010/BSW3/16E15	3/16" x 24	10
E010/BSW1/4E15	1/4" x 20	10
E010/BSW5/16E15	5/16" x 18	10
E010/BSW3/8E15	3/8" x 16	10
E010/BSW7/16E15	7/16" x 14	10
E010/BSW1/2E15	1/2" x 12	10
E010/BSW9/16E15	9/16" x 12	5
E010/BSW5/8E15	5/8" x 11	5
E010/BSW3/4E15	3/4" x 10	5
E010/BSW7/8E15	7/8" x 9	5
E010/BSW1E15	1" x 8	5

E010-UNCXEX

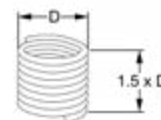
STAINLESS STEEL THREAD REPAIR INSERT UNC H=1.5XD

Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed.



INOX

Hangable



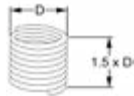
Art.	D	Pack
E010/UNC1/4E15	1/4" x 20	10
E010/UNC5/16E15	5/16" x 18	10
E010/UNC3/8E15	3/8" x 16	10
E010/UNC7/16E15	7/16" x 14	10
E010/UNC1/2E15	1/2" x 13	10
E010/UNC9/16E15	9/16" x 12	5
E010/UNC5/8E15	5/8" x 11	5
E010/UNC3/4E15	3/4" x 10	5
E010/UNC7/8E15	7/8" x 9	5

E010-UNFXEX
STAINLESS STEEL THREAD REPAIR INSERT UNF H=1.5XD

Rhomboid section, with spring shape, which creates two perfectly concentric threads; an external one that is coupled with the previously threaded hole with the appropriate male and an internal one where the fixing screw will be screwed.



Hangable

INOX


Art.	D	Pack
E010/UNFN04E15	No. 4 x 48	10
E010/UNFN10E15	No. 10 x 32	10
E010/UNF1/4E15	1/4" x 28	10
E010/UNF5/16E15	5/16" x 24	10
E010/UNF3/8E15	3/8" x 24	10
E010/UNF7/16E15	7/16" x 20	10
E010/UNF1/2E15	1/2" x 20	10
E010/UNF9/16E15	9/16" x 18	5
E010/UNF5/8E15	5/8" x 18	5
E010/UNF3/4E15	3/4" x 16	5
E010/UNF7/8E15	7/8" x 14	5
E010/UNF1E15	1" x 12	5

E011-MXM
METRIC F-COIL STI TAP

Special type for creating the threaded insert housing seat



Box

HSS-G


Steel



Aluminum


 Non-ferr.
alloys


Cast Iron



Oil



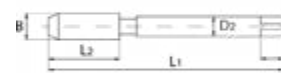
Lathe



Mill



Manual use



Art.	Size	B	L1	L2	D2	C
E011/M020X040M	M 2 x 0.40	2.5 mm	44.5 mm	9.5 mm	2.8 mm	2.24 mm
E011/M025X045M	M 2.5 x 0.45	3.1 mm	48.0 mm	11.0 mm	3.15 mm	2.5 mm
E011/M030X050M	M 3 x 0.5	3.6 mm	53.0 mm	13.0 mm	4.0 mm	3.15 mm
E011/M035X060M	M 3.5 x 0.6	4.3 mm	53.0 mm	13.0 mm	4.5 mm	3.55 mm
E011/M040X070M	M 4 x 0.7	4.9 mm	58 mm	16.0 mm	5.0 mm	4.00 mm
E011/M050X080M	M 5 x 0.8	6.0 mm	66.0 mm	19.0 mm	6.3 mm	5.00 mm
E011/M060X100M	M 6 x 1.0	7.3 mm	72.0 mm	22.0 mm	8.0 mm	6.30 mm
E011/M070X100M	M 7 x 1.0	8.3 mm	72.0 mm	22.0 mm	9.0 mm	7.10 mm
E011/M080X100M	M 8 x 1.0	9.3 mm	80.0 mm	24.0 mm	10.0 mm	8.00 mm
E011/M080X125M	M 8 x 1.25	9.6 mm	80.0 mm	24.0 mm	8.0 mm	8.00 mm
E011/M090X100M	M 9 x 1.0	10.6 mm	85.0 mm	25.0 mm	8.0 mm	6.30 mm
E011/M090X125M	M 9 x 1.25	10.6 mm	85.0 mm	25.0 mm	8.0 mm	6.30 mm
E011/M100X100M	M 10 x 1.0	11.3 mm	85.0 mm	25.0 mm	8.0 mm	6.30 mm
E011/M100X125M	M 10 x 1.25	11.6 mm	85.0 mm	25.0 mm	8.0 mm	6.30 mm
E011/M100X150M	M 10 x 1.5	11.9 mm	89.0 mm	29.0 mm	9.0 mm	7.10 mm
E011/M110X150M	M 11 x 1.5	12.9 mm	89.0 mm	29.0 mm	9.0 mm	7.10 mm
E011/M120X100M	M 12 x 1.0	13.3 mm	95.0 mm	30.0 mm	11.2 mm	9.00 mm
E011/M120X125M	M 12 x 1.25	13.6 mm	95.0 mm	30.0 mm	11.2 mm	9.00 mm
E011/M120X150M	M 12 x 1.5	14.0 mm	95.0 mm	30.0 mm	11.2 mm	9.00 mm

Art.	Size	B	L1	L2	D2	C
E011/M120X175M	M 12 x 1.75	14.3 mm	95.0 mm	30.0 mm	11.2 mm	9.00 mm
E011/M140X100M	M 14 x 1.0	15.3 mm	102.0 mm	32.0 mm	12.5 mm	10.00 mm
E011/M140X125M	M 14 x 1.25	15.6 mm	102.0 mm	32.0 mm	12.5 mm	10.00 mm
E011/M140X150M	M 14 x 1.5	16.0 mm	102.0 mm	32.0 mm	12.5 mm	10.00 mm
E011/M140X200M	M 14 x 2.0	16.6 mm	102.0 mm	32.0 mm	12.5 mm	10.00 mm
E011/M160X150M	M 16 x 1.5	18.0 mm	104.0 mm	29.0 mm	14.0 mm	11.20 mm
E011/M160X200M	M 16 x 2.0	18.6 mm	112.0 mm	37.0 mm	14.0 mm	11.20 mm
E011/M180X150M	M 18 x 1.5	20.0 mm	104.0 mm	29.0 mm	14.0 mm	11.20 mm
E011/M180X200M	M 18 x 2.0	20.6 mm	104.0 mm	29.0 mm	14.0 mm	11.20 mm
E011/M180X250M	M 18 x 2.5	21.3 mm	118.0 mm	38.0 mm	16.0 mm	12.50 mm
E011/M200X150M	M 20 x 1.5	22.0 mm	113.0 mm	33.0 mm	16.0 mm	12.50 mm
E011/M200X200M	M 20 x 2.0	22.6 mm	113.0 mm	33.0 mm	16.0 mm	12.50 mm
E011/M200X250M	M 20 x 2.5	23.3 mm	118.0 mm	38.0 mm	16.0 mm	12.50 mm
E011/M220X150M	M 22 x 1.5	24.0 mm	120.0 mm	35.0 mm	18.0 mm	14.00 mm
E011/M220X200M	M 22 x 2.0	24.6 mm	120.0 mm	35.0 mm	18.0 mm	14.00 mm
E011/M220X250M	M 22 x 2.5	25.3 mm	130.0 mm	45.0 mm	18.0 mm	14.00 mm
E011/M240X150M	M 24 x 1.5	26.0 mm	120.0 mm	35.0 mm	18.0 mm	14.00 mm
E011/M240X200M	M 24 x 2.0	26.6 mm	127.0 mm	37.0 mm	20.0 mm	16.00 mm
E011/M240X300M	M 24 x 3.0	27.9 mm	138.0 mm	48.0 mm	20.0 mm	16.00 mm

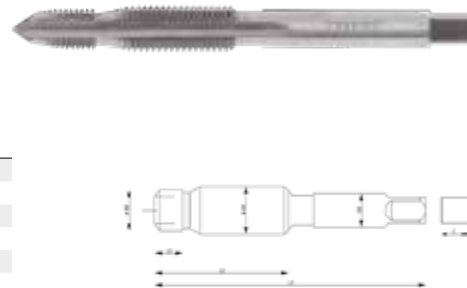
E011-MXMC

METRIC F-COIL STI COMBINED TAP

Special type for creating the threaded insert housing seat



Art.	Size	B1	B2	L3	L2	L1	D2	C
E011/M060X100MC	M 6 x 1.0	7.3 mm	6 mm	7 mm	28 mm	70 mm	8 mm	6.3 mm
E011/M080X125MC	M 8 x 1.25	9.6 mm	8 mm	9 mm	32 mm	75 mm	8 mm	6.3 mm
E011/M100X100MC	M 10 x 1.0	11.3 mm	10 mm	8 mm	30 mm	74 mm	8 mm	6.3 mm
E011/M100X125MC	M 10 x 1.25	11.6 mm	10 mm	8 mm	30 mm	74 mm	8 mm	6.3 mm
E011/M100X150MC	M 10 x 1.5	11.9 mm	10 mm	9 mm	37 mm	80 mm	9 mm	7.1 mm
E011/M120X125MC	M 12 x 1.25	13.6 mm	12 mm	9 mm	32 mm	75 mm	9 mm	7.1 mm
E011/M140X125MC	M 14 x 1.25	15.6 mm	14 mm	10 mm	45 mm	90 mm	12 mm	9.2 mm
E011/M180X150MC	M 18 x 1.25	20.0 mm	18 mm	10 mm	47 mm	116 mm	16 mm	12.5 mm



E011-BSWXM

BSW F-COIL STI TAP

Special type for creating the threaded insert housing seat



Art.	Size	B	L1	L2	D2	C
E011/BSW1/8M	1/8" x 40	3.9 mm	53.0 mm	13.0 mm	4.0 mm	3.15 mm
E011/BSW3/16M	3/16" x 24	6.0 mm	56.0 mm	19.0 mm	6.3 mm	5.00 mm
E011/BSW1/4M	1/4" x 20	7.8 mm	72.0 mm	22.0 mm	8.0 mm	6.30 mm
E011/BSW5/16M	5/16" x 18	9.6 mm	80.0 mm	24.0 mm	10.0 mm	8.00 mm
E011/BSW3/8M	3/8" x 16	11.4 mm	85.0 mm	25.0 mm	8.0 mm	6.30 mm
E011/BSW7/16M	7/16" x 14	13.2 mm	95.0 mm	30.0 mm	11.2 mm	9.00 mm
E011/BSW1/2M	1/2" x 12	15.2 mm	102.0 mm	32.0 mm	12.5 mm	10.00 mm
E011/BSW9/16M	9/16" x 12	16.8 mm	102.0 mm	32.0 mm	12.5 mm	10.00 mm
E011/BSW5/8M	5/8" x 11	18.6 mm	112.0 mm	37.0 mm	14.0 mm	11.20 mm
E011/BSW3/4M	3/4" x 10	22.0 mm	118.0 mm	38.0 mm	16.0 mm	12.50 mm
E011/BSW7/8M	7/8" x 9	25.5 mm	130.0 mm	45.0 mm	18.0 mm	14.00 mm
E011/BSW1M	1" x 8	29.1 mm	138.0 mm	48.0 mm	20.0 mm	16.0 mm



E011-BSFXM

BSF F-COIL STI TAP

Special type for creating the threaded insert housing seat



Art.	Size	B	L1	L2	D2	C
E011/BSF3/16M	3/16" x 32	5.7 mm	66.0 mm	19.0 mm	6.3 mm	5.00 mm
E011/BSF1/4M	1/4" x 26	7.5 mm	72.0 mm	22.0 mm	8.0 mm	6.30 mm
E011/BSF5/16M	5/16" x 22	9.3 mm	80.0 mm	24.0 mm	10.0 mm	8.00 mm
E011/BSF3/8M	3/8" x 20	11.0 mm	85.0 mm	25.0 mm	8.0 mm	6.30 mm
E011/BSF7/16M	7/16" x 18	12.8 mm	89.0 mm	29.0 mm	9.0 mm	7.10 mm
E011/BSF1/2M	1/2" x 16	14.6 mm	95.0 mm	30.0 mm	11.2 mm	9.00 mm
E011/BSF9/16M	9/16" x 16	16.2 mm	102.0 mm	32.0 mm	12.5 mm	10.00 mm
E011/BSF5/8M	5/8" x 14	18.0 mm	112.0 mm	37.0 mm	14.0 mm	11.20 mm
E011/BSF3/4M	3/4" x 12	21.5 mm	118.0 mm	38.0 mm	16.0 mm	12.5 mm
E011/BSF7/8M	7/8" x 11	24.9 mm	130.0 mm	45.0 mm	18.0 mm	14.00 mm
E011/BSF1M	1" x 10	28.4 mm	138.0 mm	48.0 mm	20.0 mm	16.00 mm



E011-UNCXM

UNC F-COIL STI TAP

Special type for creating the threaded insert housing seat.



Art.	Size	B	L1	L2	D2	C
E011/UNC1/4M	1/4" x 20	8.0 mm	72.0 mm	22.0 mm	8.0 mm	6.30 mm
E011/UNC5/16M	5/16" x 18	9.8 mm	80.0 mm	24.0 mm	10.0 mm	8.00 mm
E011/UNC3/8M	3/8" x 16	11.6 mm	85.0 mm	25.0 mm	8.0 mm	6.30 mm
E011/UNC7/16M	7/16" x 14	13.5 mm	95.0 mm	30.0 mm	11.2 mm	10.00 mm
E011/UNC1/2M	1/2" x 13	15.2 mm	102.0 mm	32.0 mm	12.5 mm	10.00 mm
E011/UNC9/16M	9/16" x 12	17.0 mm	112.0 mm	37.0 mm	14.0 mm	11.20 mm
E011/UNC5/8M	5/8" x 11	18.9 mm	112.0 mm	37.0 mm	14.0 mm	11.20 mm
E011/UNC3/4M	3/4" x 10	22.4 mm	118.0 mm	38.0 mm	16.0 mm	12.50 mm
E011/UNC7/8M	7/8" x 9	25.9 mm	130.0 mm	45.0 mm	18.0 mm	14.00 mm



E011-UNFXM

UNF F-COIL STI TAP

Special type for creating the threaded insert housing seat.



Art.	Size	B	L1	L2	D2	C
E011/UNFN04M	No. 4 x 48	3.5 mm	53.0 mm	13.0 mm	4.0 mm	3.15 mm
E011/UNFN10M	No. 10 x 32	5.9 mm	66.0 mm	19.0 mm	6.3 mm	5.00 mm
E011/UNF1/4M	1/4" x 28	7.5 mm	69.0 mm	19.0 mm	8.0 mm	6.30 mm
E011/UNF5/16M	5/16" x 24	9.3 mm	76.0 mm	20.0 mm	10.0 mm	8.00 mm
E011/UNF3/8M	3/8" x 24	10.9 mm	82.0 mm	22.0 mm	8.0 mm	6.3 mm
E011/UNF7/16M	7/16" x 20	12.8 mm	84.0 mm	24.0 mm	9.0 mm	7.10 mm
E011/UNF1/2M	1/2" x 20	14.4 mm	90.0 mm	25.0 mm	11.2 mm	9.00 mm
E011/UNF9/16M	9/16" x 18	16.1 mm	104.0 mm	29.0 mm	12.5 mm	10.00 mm
E011/UNF5/8M	5/8" x 18	17.7 mm	104.0 mm	29.0 mm	14.0 mm	11.20 mm
E011/UNF3/4M	3/4" x 16	21.1 mm	104.0 mm	29.0 mm	14.0 mm	11.20 mm
E011/UNF7/8M	7/8" x 14	24.6 mm	120.0 mm	35.0 mm	18.0 mm	14.00 mm
E011/UNF112M	1" x 12	28.2 mm	127.0 mm	37.0 mm	20.0 mm	16.00 mm



E011-UMX

F-COIL MOUNTING TOOL HEXAGONAL DRIVE

Art.	Diameter	Hex drive
E011/UM260X150	M 26 x 1.5	1/2"
E011/UM270X150	M 27 x 1.5	1/2"
E011/UM270X200	M 27 x 2.0	1/2"
E011/UM270X300	M 27 x 3.0	1/2"
E011/UM280X150	M 28 x 1.5	1/2"
E011/UM300X150	M 30 x 1.5	1/2"
E011/UM300X200	M 30 x 2.0	1/2"
E011/UM300X350	M 30 x 3.5	1/2"
E011/UM330X200	M 33 x 2.0	1/2"
E011/UM330X350	M 33 x 3.5	1/2"
E011/UM360X150	M 36 x 1.5	1/2"
E011/UM360X200	M 36 x 2.0	1/2"
E011/UM360X300	M 36 x 3.0	1/2"
E011/UM360X400	M 36 x 4.0	1/2"





E011-UX

F-COIL MOUNTING TOOL

Art.	Metric	Inch
E011/U02	M 2 x 0.4 - M 2.2 x 0.45	UNC N02
E011/U03	M 2.5 x 0.45	-
E011/U04	M 3 x 0.5	UNC N05 - UNC/UNF N04 - BSW 1/8"
E011/U05	M 3.5 x 0.6	UNC/UNF N06
E011/U06	M 4 x 0.7	UNC/UNF N08
E011/U08	M 5 x 0.8	UNF N10 - UNC N12 - BSF 3/16"
E011/U09	M 6 x 1.0	UNC/UNF 1/4" - BSW/BSF 1/4"
E011/U10	M 7 x 1.0	UNC/BSW 5/16"
E011/U11	M 8 x 1.25 - M 8 x 1.0	UNF/BSF 5/16"
E011/U12	M 9 x 1.25 - M 9 x 1.0	UNC/BSW 3/8"
E011/U13	M 10 x 1.5 - M 10 x 1.0 - M 10 x 1.25	UNF/BSF 3/8"
E011/U14	M 11 x 1.5	UNC/UNF 7/16" - BSW-BSF 7/16"
E011/U15	M 12 x 1.75 - M 12 x 1.5 - M 12 x 1.25 - M 12 x 1.0	UNC/UNF 1/2" - BSW-BSF 1/2"
E011/U16	M 14 x 2.0 - M 14 x 1.5	UNC/UNF 9/16" - BSW-BSF 9/16"
E011/U17	M 14 x 1.25 - M 14 x 1.0	-
E011/U18	M 16 x 2.0 - M 16 x 1.5	UNC/UNF 5/8" - BSW-BSF 5/8"
E011/U20	M 18 x 2.5 - M 18 x 2.0 - M 18 x 1.5	UNC 3/4" - BSW-BSF 3/4"
E011/U21	M 20 x 2.5 - M 20 x 2.0 - M 20 x 1.5	UNF 3/4"
E011/U22	M 22 x 2.5 - M 22 x 2.0 - M 22 x 1.5	UNC/UNF 7/8" - BSW-BSF 7/8"
E011/U23	M 24 x 3.0 - M 24 x 2.0 - M 24 x 1.5	UNC/UNF 1" - BSW-BSF 1"



E011-EX

F-COIL PULLER

Art.	Metric	Inch
E011/E2	M 3 - M 10	3/16" - 3/8"
E011/E3	M 11 - M 25	3/8" - 1"



E011-AX

F-COIL TANG BREAKING TOOL

Art.	Metric	Inch
E011/A02	M 2 x 0.4 - M 2.2 x 0.45	UNC N02
E011/A03	M 2.5 x 0.45	-
E011/A04	M 3 x 0.5	UNC/UNF N04
E011/A05	M 3.5 x 0.6	UNC/UNF N06
E011/A06	M 4 x 0.7	UNC N10 - UNC/UNF N08 - BSF 3/16"
E011/A08	M 5 x 0.8	UNF N10 - UNC N12 - BSF 3/16"
E011/A09	M 6 x 1.0	UNC/UNF 1/4" - BSW/BSF 1/4"
E011/A11	M 7 x 1.0 - M 8 x 1.0 - M 8 x 1.25	UNC/UNF 5/16" - BSW/BSF 5/16"
E011/A12	M 9 x 1.0 - M 9 x 1.25	UNC 3/8" - BSW/BSF 3/8"
E011/A13	M 10 x 1.5 - M 10 x 1.0 - M 10 x 1.25	UNF 3/8"
E011/A14	M 11 x 1.5	UNC/UNF 7/16" - BSW/BSF 7/16"
E011/A15	M 12 x 1.5 - M 12 x 1.0 - M 12 x 1.25 - M 12 x 1.75	UNC/UNF 1/2" - BSW/BSF 1/2"

