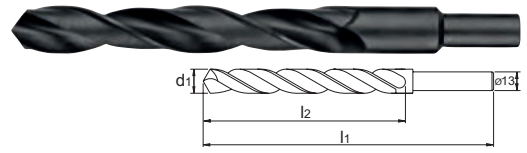


> **11.413** INTERNATIONAL TOOLS

NL ECO HSS Spiraalboor gewalst, schacht 13 mm
 FR Foret HSS ECO laminé, queue 13 mm
 ES Broca HSS ECO laminada, mango 13 mm
 DE ECO HSS Spiralbohrer Gewalzt, Schaft 13 mm



HSS Ø13 **ECO**

P 11 ≤600 N/mm² **P 12** ≤850 N/mm² **P 13** ≤1000 N/mm² **K 31** GG **K 32** GGG GTS-GTW

20-25 E 20-25 E 15-20 D 15-20 E 25-30 E

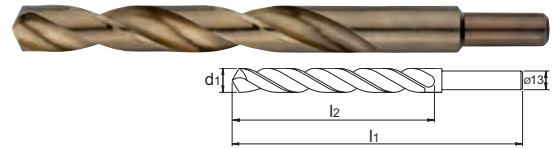
Ref.	d1	l1	l2
11.413.1350	13,5	160	108
11.413.1400	14	160	108
11.413.1450	14,5	169	114
11.413.1500	15	169	114
11.413.1550	15,5	178	120
11.413.1600	16	178	120
11.413.1650	16,5	184	125
11.413.1700	17	184	125

Ref.	d1	l1	l2
11.413.1750	17,5	191	130
11.413.1800	18	191	130
11.413.1850	18,5	198	135
11.413.1900	19	198	135
11.413.1950	19,5	205	140
11.413.2000	20	205	140
11.413.2100	21	208	145
11.413.2200	22	208	150

Ref.	d1	l1	l2
11.413.2300	23	213	155
11.413.2400	24	222	160
11.413.2500	25	222	160
11.413.2600	26	227	165
11.413.2700	27	232	170
11.413.2800	28	232	170
11.413.2900	29	237	175
11.413.3000	30	237	175

> **11.415** INTERNATIONAL TOOLS

NL ECO PRO HSS-E Spiraalboor schacht 13 mm
 FR Foret HSS-E ECO PRO queue 13 mm
 ES Broca HSS-E ECO PRO mango 13 mm
 DE ECO PRO HSS-E Spiralbohrer Schaft 13 mm



HSS-E Ø13 **ECO PRO**

P 11 ≤600 N/mm² **P 12** ≤850 N/mm² **P 13** ≤1000 N/mm² **M 21** INOX ≤850 N/mm² **K 31** GG **K 32** GGG GTS-GTW **N 51** Cu **N 52** CuAlFe

28-35 E 30-36 E 20-27 E 14-18 D 30-35 F 24-30 F 30-40 E 8-15 C

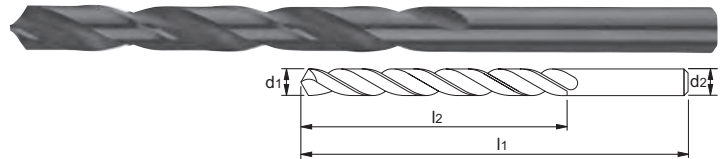
Ref.	d1	l1	l2
11.415.1350	13,5	160	108
11.415.1400	14	160	108
11.415.1450	14,5	169	114
11.415.1500	15	169	114
11.415.1550	15,5	178	120
11.415.1600	16	178	120
11.415.1650	16,5	184	125

Ref.	d1	l1	l2
11.415.1700	17	184	125
11.415.1750	17,5	191	130
11.415.1800	18	191	130
11.415.1850	18,5	198	135
11.415.1900	19	198	135
11.415.1950	19,5	205	140
11.415.2000	20	205	140

Ref.	d1	l1	l2
11.415.2100	21	208	145
11.415.2200	22	208	150
11.415.2300	23	213	155
11.415.2400	24	222	160
11.415.2500	25	222	160

> **11.416** INTERNATIONAL TOOLS

NL ECO HSS Spiraalboor
 FR Foret HSS ECO
 ES Broca HSS ECO
 DE ECO HSS Spiralbohrer



HSS DIN 338 **N** **ECO**

P 11 ≤600 N/mm² **P 12** ≤850 N/mm² **P 13** ≤1000 N/mm² **K 31** GG **K 32** GGG GTS-GTW **N 41** Alu **N 42** Alu Si>10% **N 51** Cu **N 61** PVC

25-27 F 22-30 F 15-20 E 15-20 E 25-30 E 45-50 E 35-40 G 25-40 D 22-28 D

Ref.	d1	d2	l1	l2
11.416.0100	1	1	34	12
11.416.0110	1.1	1.1	36	14
11.416.0120	1.2	1.2	38	16
11.416.0130	1.3	1.3	38	16
11.416.0140	1.4	1.4	40	18
11.416.0150	1.5	1.5	40	18
11.416.0160	1.6	1.6	43	20
11.416.0170	1.7	1.7	43	20
11.416.0180	1.8	1.8	46	22
11.416.0190	1.9	1.9	46	22
11.416.0200	2	2	49	24
11.416.0210	2.1	2.1	49	24
11.416.0220	2.2	2.2	53	27
11.416.0230	2.3	2.3	53	27
11.416.0240	2.4	2.4	57	30
11.416.0250	2.5	2.5	57	30
11.416.0260	2.6	2.6	57	30

Ref.	d1	d2	l1	l2
11.416.0270	2.7	2.7	61	33
11.416.0280	2.8	2.8	61	33
11.416.0290	2.9	2.9	61	33
11.416.0300	3	3	61	33
11.416.0310	3.1	3.1	65	36
11.416.0320	3.2	3.2	65	36
11.416.0330	3.3	3.3	65	36
11.416.0340	3.4	3.4	70	39
11.416.0350	3.5	3.5	70	39
11.416.0360	3.6	3.6	70	39
11.416.0370	3.7	3.7	70	39
11.416.0380	3.8	3.8	75	43
11.416.0390	3.9	3.9	75	43
11.416.0400	4	4	75	43
11.416.0410	4.1	4.1	75	43
11.416.0420	4.2	4.2	75	43
11.416.0430	4.3	4.3	80	47

Ref.	d1	d2	l1	l2
11.416.0440	4.4	4.4	80	47
11.416.0450	4.5	4.5	80	47
11.416.0460	4.6	4.6	80	47
11.416.0470	4.7	4.7	80	47
11.416.0480	4.8	4.8	86	52
11.416.0490	4.9	4.9	86	52
11.416.0500	5	5	86	52
11.416.0510	5.1	5.1	86	52
11.416.0520	5.2	5.2	86	52
11.416.0530	5.3	5.3	86	52
11.416.0540	5.4	5.4	93	57
11.416.0550	5.5	5.5	93	57
11.416.0560	5.6	5.6	93	57
11.416.0570	5.7	5.7	93	57
11.416.0580	5.8	5.8	93	57
11.416.0590	5.9	5.9	93	57
11.416.0600	6	6	93	57