

# End mills

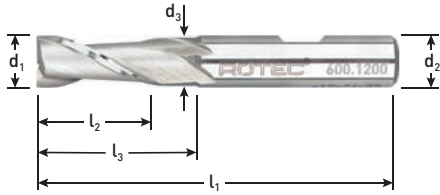




**600**

**HSS-E Slotting end mill, short, weldon**

**Execution:** Short model according to DIN 327, type N, 30° helix angle, cylindrical shank with weldon according to DIN 1835-B.



<b>DIN</b> 327	<b>DIN</b> 1835-B	<b>HSS</b> E	<b>N</b> TYPE	<b>30°</b> HELIX	
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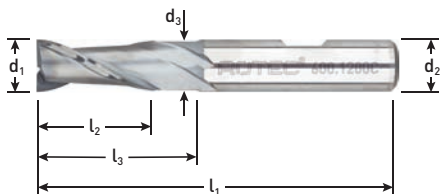
d <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	d <sub>3</sub>	l <sub>1</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
1	3			48	6	2	1	600.0100	21,61
1,5	3			48	6	2	1	600.0150	21,61
2	4			48	6	2	1	600.0200	18,05
2,5	5			49	6	2	1	600.0250	19,06
3	5			49	6	2	1	600.0300	17,31
3,5	6			50	6	2	1	600.0350	19,06
4	7			51	6	2	1	600.0400	17,31
4,5	8			52	6	2	1	600.0450	19,06
5	8			52	6	2	1	600.0500	17,31
5,5	8			52	6	2	1	600.0550	19,23
6	8	16	5,5	52	6	2	1	600.0600	17,31
6,5	10			54	8	2	1	600.0650	24,98
7	10			54	8	2	1	600.0700	21,30
7,5	11			55	8	2	1	600.0750	21,30
8	11	19	7,5	55	8	2	1	600.0800	20,73
8,5	11			61	10	2	1	600.0850	24,83
9	11			61	10	2	1	600.0900	24,27
9,5	13			63	10	2	1	600.0950	26,03
10	13	23	9	63	10	2	1	600.1000	23,22

d <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	d <sub>3</sub>	l <sub>1</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
11	13			70	12	2	1	600.1100	34,92
12	16	28	11	73	12	2	1	600.1200	26,65
13	16			73	12	2	1	600.1300	39,65
14	16			73	12	2	1	600.1400	32,37
15	19			79	16	2	1	600.1500	39,65
16	19	31	15	79	16	2	1	600.1600	36,10
17	19			79	16	2	1	600.1700	61,83
18	19			79	16	2	1	600.1800	45,09
19	22			88	20	2	1	600.1900	74,25
20	22	38	19	88	20	2	1	600.2000	55,03
21	22			88	20	2	1	600.2100	69,28
22	22			88	20	2	1	600.2200	61,52
24	26			102	25	2	1	600.2400	80,16
25	26	46	24	102	25	2	1	600.2500	80,16
28	26			102	25	2	1	600.2800	124,95
30	26			102	25	2	1	600.3000	145,53
32	32	52	31	112	32	2	1	600.3200	173,81
36	32			112	32	2	1	600.3600	214,73
40	38	60	39	130	40	2	1	600.4000	312,79

**600**

**HSS-E Slotting end mill, short, weldon, coated**

**Execution:** Short model according to DIN 327, type N, 30° helix angle, cylindrical shank with weldon according to DIN 1835-B, with ALCRONA-PRO® coating.



<b>DIN</b> 327	<b>DIN</b> 1835-B	<b>HSS</b> E	<b>N</b> TYPE	<b>30°</b> HELIX		
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d <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	d <sub>3</sub>	l <sub>1</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
2	4			48	6	2	1	600.0200C	33,57
3	5			49	6	2	1	600.0300C	30,76
4	7			51	6	2	1	600.0400C	30,76
5	8			52	6	2	1	600.0500C	30,76
6	8	16	5,5	52	6	2	1	600.0600C	30,93
7	10			54	8	2	1	600.0700C	38,14
8	11	19	7,5	55	8	2	1	600.0800C	34,92
9	11			61	10	2	1	600.0900C	41,10
10	13	23	9	63	10	2	1	600.1000C	38,30

d <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	d <sub>3</sub>	l <sub>1</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
12	16	28	11	73	12	2	1	600.1200C	45,97
14	16			73	12	2	1	600.1400C	59,26
15	19			79	16	2	1	600.1500C	68,32
16	19	31	15	79	16	2	1	600.1600C	69,50
18	19			79	16	2	1	600.1800C	80,44
20	22	38	19	88	20	2	1	600.2000C	85,62
25	26	46	24	102	25	2	1	600.2500C	145,62
30	26			102	25	2	1	600.3000C	205,86

**HSS-E Slotting end mill set, in plastic case**



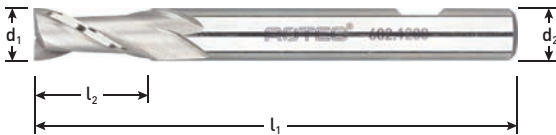
**Execution:** Short model with 2 flutes according to DIN 327, type N, 30° helix angle, cylindrical shank with weldon according to DIN 1835-B.

Description	Type	Coating	Content	pcs/PU	Item no.	€ / PU
6 pc set HSS-E slotting end mills	600	-	1x ø4, 5, 6, 8, 10 and 12mm	1	600.9412	<b>116,49</b>
10 pc set HSS-E slotting end mills	600	-	1x ø4, 5, 6, 8, 10, 12, 14, 16, 18 and 20mm	1	600.9420	<b>265,76</b>
6 pc set HSS-E slotting end mills	600C	AlCroNa PRO	1x ø4, 5, 6, 8, 10 and 12mm	1	600.9412C	<b>193,39</b>
10 pc set HSS-E slotting end mills	600C	AlCroNa PRO	1x ø4, 5, 6, 8, 10, 12, 14, 16, 18 and 20mm	1	600.9420C	<b>451,22</b>

**602**

**HSS-E Slotting end mill, long, weldon**

**Execution:** Long model according to DIN 844, type N, 30° helix angle, cylindrical shank with weldon according to DIN 1835-B.

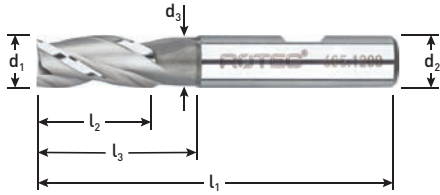


<b>DIN</b> 844	<b>DIN</b> 1835-B	<b>HSS</b> E	<b>N</b> TYPE	<b>30°</b> HELIX	 Z=2
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d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
2,5	56	8	6	2	1	602.0250	<b>26,31</b>
3	56	8	6	2	1	602.0300	<b>26,31</b>
4	63	11	6	2	1	602.0400	<b>26,31</b>
5	68	13	6	2	1	602.0500	<b>26,31</b>
6	68	13	6	2	1	602.0600	<b>26,31</b>
8	88	19	10	2	1	602.0800	<b>28,46</b>
10	95	22	10	2	1	602.1000	<b>30,11</b>
12	110	26	12	2	1	602.1200	<b>35,96</b>

d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
14	110	26	12	2	1	602.1400	<b>48,91</b>
16	123	32	16	2	1	602.1600	<b>52,89</b>
18	123	32	16	2	1	602.1800	<b>63,44</b>
20	141	38	20	2	1	602.2000	<b>78,33</b>
22	141	38	20	2	1	602.2200	<b>107,63</b>
24	166	45	25	2	1	602.2400	<b>139,07</b>
25	166	45	25	2	1	602.2500	<b>139,07</b>

**Execution:** Short model according to DIN 844, type N, 30° helix angle, cylindrical shank with weldon according to DIN 1835-B.



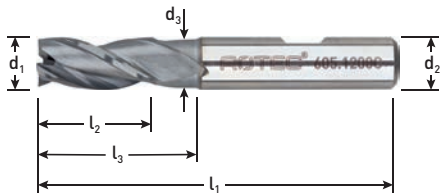
<b>DIN</b> 844	<b>DIN</b> 1835-B	<b>HSS</b> E	<b>N</b> TYPE	<b>30°</b> HELIX	
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d <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	d <sub>3</sub>	l <sub>1</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
1,5	7			51	6	3	1	605.0150	21,47
2	7			51	6	3	1	605.0200	20,28
2,5	8			52	6	3	1	605.0250	21,47
3	8			52	6	3	1	605.0300	19,49
3,5	10			54	6	3	1	605.0350	21,47
4	11			55	6	3	1	605.0400	19,49
4,5	13			57	6	3	1	605.0450	21,47
5	13			57	6	3	1	605.0500	19,49
5,5	13			57	6	3	1	605.0550	21,62
6	13	21	5,5	57	6	3	1	605.0600	19,49
6,5	16			60	8	3	1	605.0650	28,12
7	16			60	8	3	1	605.0700	23,97

d <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	d <sub>3</sub>	l <sub>1</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
8	19	33	7,5	69	8	3	1	605.0800	23,33
9	19			69	10	3	1	605.0900	27,29
10	22	32	9	72	10	3	1	605.1000	26,12
12	26	38	11	83	12	3	1	605.1200	29,97
14	26			83	12	3	1	605.1400	36,42
15	32			92	16	3	1	605.1500	44,62
16	32	44	15	92	16	3	1	605.1600	40,65
18	32			92	16	3	1	605.1800	50,73
20	38	54	19	104	20	3	1	605.2000	61,90
22	38			104	20	3	1	605.2200	69,21
24	45			121	25	3	1	605.2400	90,20
25	45	65	24	121	25	3	1	605.2500	90,20

**HSS-E Universal end mill, short, weldon, coated**

**Execution:** Short model according to DIN 844, type N, 30° helix angle, cylindrical shank with weldon according to DIN 1835-B, with ALCRONA-PRO® coating.



<b>DIN</b> 844	<b>DIN</b> 1835-B	<b>HSS</b> E	<b>N</b> TYPE	<b>30°</b> HELIX		
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d <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	d <sub>3</sub>	l <sub>1</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
1,5	7			51	6	3	1	605.0150C	34,46
2	7			51	6	3	1	605.0200C	33,57
2,5	8			52	6	3	1	605.0250C	34,46
3	8			52	6	3	1	605.0300C	30,76
4	11			55	6	3	1	605.0400C	30,76
5	13			57	6	3	1	605.0500C	30,76
6	13	21	5,5	57	6	3	1	605.0600C	30,93
8	19	33	7,5	69	8	3	1	605.0800C	34,92

d <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	d <sub>3</sub>	l <sub>1</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
10	22	32	9	72	10	3	1	605.1000C	38,30
12	26	38	11	83	12	3	1	605.1200C	45,97
14	26			83	12	3	1	605.1400C	59,26
16	32	44	15	92	16	3	1	605.1600C	63,01
18	32			92	16	3	1	605.1800C	80,44
20	38	54	19	104	20	3	1	605.2000C	85,62
25	45	65	24	121	25	3	1	605.2500C	145,62

**HSS-E Universal end mill set, in plastic case**



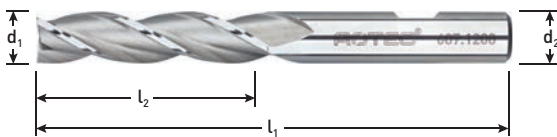
**Execution:** Short model with 3 flutes according to DIN 844, type N, 30° helix angle, cylindrical shank with weldon according to DIN 1835-B.

Description	Type	Coating	Content	pcs/PU	Item no.	€ / PU
6 pc set HSS-E universal end mills	605	-	1x ø4, 5, 6, 8, 10 and 12mm	1	605.9412	<b>132,66</b>
10 pc set HSS-E universal end mills	605	-	1x ø4, 5, 6, 8, 10, 12, 14, 16, 18 and 20mm	1	605.9420	<b>304,52</b>
6 pc set HSS-E universal end mills	605C	AlCroNa PRO	1x ø4, 5, 6, 8, 10 and 12mm	1	605.9412C	<b>196,10</b>
10 pc set HSS-E universal end mills	605C	AlCroNa PRO	1x ø4, 5, 6, 8, 10, 12, 14, 16, 18 and 20mm	1	605.9420C	<b>456,79</b>

**607**

**HSS-E Universal end mill, long, weldon**

**Execution:** Long model according to DIN 844, type N, 30° helix angle, cylindrical shank with weldon according to DIN 1835-B.

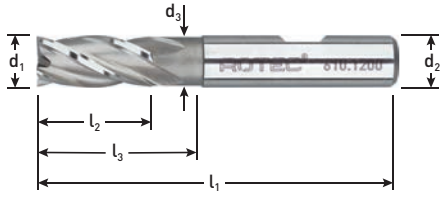


<b>DIN</b> 844	<b>DIN</b> 1835-B	<b>HSS</b> E	<b>N</b> TYPE	<b>30°</b> HELIX	 <b>Z=3</b>
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d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
2	54	10	6	3	1	607.0200	<b>22,98</b>
3	56	12	6	3	1	607.0300	<b>22,98</b>
4	63	19	6	3	1	607.0400	<b>22,98</b>
5	68	24	6	3	1	607.0500	<b>22,98</b>
6	68	24	6	3	1	607.0600	<b>22,98</b>
7	74	30	8	3	1	607.0700	<b>30,99</b>
8	82	38	8	3	1	607.0800	<b>28,46</b>
9	88	38	10	3	1	607.0900	<b>35,60</b>

d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
10	95	45	10	3	1	607.1000	<b>30,11</b>
11	102	45	12	3	1	607.1100	<b>39,64</b>
12	110	53	12	3	1	607.1200	<b>35,96</b>
14	110	53	12	3	1	607.1400	<b>48,91</b>
16	123	63	16	3	1	607.1600	<b>52,89</b>
18	123	63	16	3	1	607.1800	<b>63,44</b>
20	141	75	20	3	1	607.2000	<b>78,33</b>

**Execution:** Short model according to DIN 844, type N, 30° helix angle, cylindrical shank with weldon according to DIN 1835-B.



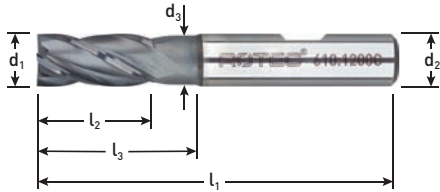
<b>DIN</b> 844	<b>DIN</b> 1835-B	<b>HSS</b> E	<b>N</b> TYPE	<b>30°</b> HELIX	
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d <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	d <sub>3</sub>	l <sub>1</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
2	7			51	6	4	1	610.0200	<b>21,98</b>
3	8			52	6	4	1	610.0300	<b>20,28</b>
4	11			55	6	4	1	610.0400	<b>20,28</b>
5	13			57	6	4	1	610.0500	<b>20,28</b>
6	13	21	5,5	57	6	4	1	610.0600	<b>20,65</b>
7	16			60	8	4	1	610.0700	<b>26,77</b>
8	19	33	7,5	69	8	4	1	610.0800	<b>25,32</b>
9	19			69	10	4	1	610.0900	<b>29,77</b>
10	22	32	9	72	10	4	1	610.1000	<b>28,46</b>
11	22			79	12	4	1	610.1100	<b>40,65</b>
12	26	38	11	83	12	4	1	610.1200	<b>32,27</b>
13	26			83	12	4	1	610.1300	<b>48,28</b>
14	26			83	12	4	1	610.1400	<b>40,10</b>
15	32			92	16	4	1	610.1500	<b>47,75</b>

d <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	d <sub>3</sub>	l <sub>1</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
16	32	44	15	92	16	4	1	610.1600	<b>44,77</b>
17	32			92	16	4	1	610.1700	<b>73,73</b>
18	32			92	16	4	1	610.1800	<b>56,23</b>
19	38			104	20	4	1	610.1900	<b>93,02</b>
20	38	54	19	104	20	4	1	610.2000	<b>67,69</b>
22	38			104	20	5	1	610.2200	<b>77,57</b>
24	45			121	25	5	1	610.2400	<b>98,86</b>
25	45	65	24	121	25	5	1	610.2500	<b>98,86</b>
26	45			121	25	6	1	610.2600	<b>116,79</b>
28	45			121	25	6	1	610.2800	<b>161,75</b>
30	45			121	25	6	1	610.3000	<b>183,50</b>
32	53	73	31	133	32	6	1	610.3200	<b>204,83</b>
36	53			133	32	6	1	610.3600	<b>262,04</b>
40	63	85	39	155	40	6	1	610.4000	<b>375,34</b>

**HSS-E End mill, short, weldon, coated**

**Execution:** Short model according to DIN 844, type N, 30° helix angle, cylindrical shank with weldon according to DIN 1835-B, with ALCRONA-PRO® coating.



<b>DIN</b> 844	<b>DIN</b> 1835-B	<b>HSS</b> E	<b>N</b> TYPE	<b>30°</b> HELIX		
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d <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	d <sub>3</sub>	l <sub>1</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
2	7			51	6	4	1	610.0200C	<b>39,90</b>
3	8			52	6	4	1	610.0300C	<b>35,96</b>
4	11			55	6	4	1	610.0400C	<b>35,96</b>
5	13			57	6	4	1	610.0500C	<b>35,96</b>
6	13	21	5,5	57	6	4	1	610.0600C	<b>36,23</b>
8	19	33	7,5	69	8	4	1	610.0800C	<b>39,90</b>
10	22	32	9	72	10	4	1	610.1000C	<b>42,45</b>

d <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	d <sub>3</sub>	l <sub>1</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
12	26	38	11	83	12	4	1	610.1200C	<b>47,02</b>
14	26			83	12	4	1	610.1400C	<b>64,96</b>
16	32	44	15	92	16	4	1	610.1600C	<b>68,06</b>
18	32			92	16	4	1	610.1800C	<b>87,95</b>
20	38	54	19	104	20	4	1	610.2000C	<b>93,78</b>
25	45	65	24	121	25	5	1	610.2500C	<b>150,43</b>
30	45			121	25	6	1	610.3000C	<b>218,29</b>

**HSS-E End mill set, in plastic case**



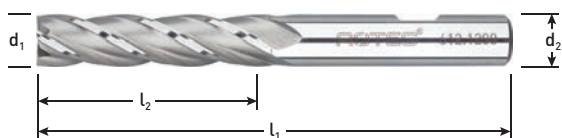
**Execution:** Short model with 4 flutes according to DIN 844, type N, 30° helix angle, cylindrical shank with weldon according to DIN 1835-B.

Description	Type	Coating	Content	pcs/PU	Item no.	€ / PU
6 pc set HSS-E end mills	610	-	1x ø4, 5, 6, 8, 10 and 12mm	1	610.9412	<b>137,30</b>
10 pc set HSS-E end mills	610	-	1x ø4, 5, 6, 8, 10, 12, 14, 16, 18 and 20mm	1	610.9420	<b>321,86</b>
6 pc set HSS-E end mills	610C	AlCroNa PRO	1x ø4, 5, 6, 8, 10 and 12mm	1	610.9412C	<b>213,81</b>
10 pc set HSS-E end mills	610C	AlCroNa PRO	1x ø4, 5, 6, 8, 10, 12, 14, 16, 18 and 20mm	1	610.9420C	<b>490,67</b>

**612**

**HSS-E End mill, long, weldon**

**Execution:** Long model according to DIN 844, type N, 30° helix angle, cylindrical shank with weldon according to DIN 1835-B.



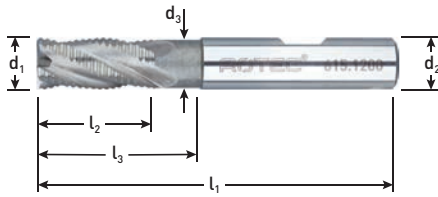
<b>DIN</b> 844	<b>DIN</b> 1835-B	<b>HSS</b> E	<b>N</b> TYPE	<b>30°</b> HELIX	
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d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
2	54	10	6	4	1	612.0200	<b>24,31</b>
3	56	12	6	4	1	612.0300	<b>24,31</b>
4	63	19	6	4	1	612.0400	<b>24,31</b>
5	68	24	6	4	1	612.0500	<b>24,31</b>
6	68	24	6	4	1	612.0600	<b>24,31</b>
7	74	30	8	4	1	612.0700	<b>33,14</b>
8	82	38	8	4	1	612.0800	<b>30,73</b>
9	88	38	10	4	1	612.0900	<b>37,77</b>
10	95	45	10	4	1	612.1000	<b>33,14</b>
11	102	45	12	4	1	612.1100	<b>41,45</b>
12	110	53	12	4	1	612.1200	<b>38,41</b>

d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
14	110	53	12	4	1	612.1400	<b>52,08</b>
16	123	63	16	4	1	612.1600	<b>56,58</b>
18	123	63	16	4	1	612.1800	<b>68,57</b>
20	141	75	20	4	1	612.2000	<b>83,35</b>
22	141	75	20	5	1	612.2200	<b>112,31</b>
25	166	90	25	6	1	612.2500	<b>143,56</b>
30	166	90	25	6	1	612.3000	<b>220,95</b>
32	186	106	32	6	1	612.3200	<b>265,20</b>
36	186	106	32	6	1	612.3600	<b>286,21</b>
40	217	125	40	6	1	612.4000	<b>520,40</b>



**Execution:** Short model according to DIN 844, fine pitched roughing profile type HR, 30° helix angle, cylindrical shank with weldon according to DIN 1835-B.



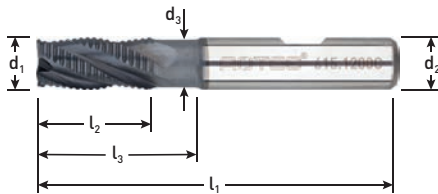
<b>DIN</b> 844	<b>DIN</b> 1835-B	<b>HSS</b> E	<b>HR</b> TYPE	<b>30°</b> HELIX	
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d <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	d <sub>3</sub>	l <sub>1</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
4	11			55	6	4	1	615.0400	<b>40,75</b>
5	13			57	6	4	1	615.0500	<b>40,75</b>
6	13	21	5,5	57	6	4	1	615.0600	<b>34,44</b>
7	16			60	8	4	1	615.0700	<b>45,43</b>
8	19	33	7,5	63	8	4	1	615.0800	<b>39,28</b>
9	19			69	10	4	1	615.0900	<b>51,08</b>
10	22	32	9	72	10	4	1	615.1000	<b>40,29</b>
11	22			79	12	4	1	615.1100	<b>57,74</b>
12	26	38	11	83	12	4	1	615.1200	<b>45,43</b>
13	26			83	12	4	1	615.1300	<b>66,87</b>
14	26			83	12	4	1	615.1400	<b>54,09</b>
15	32			92	16	4	1	615.1500	<b>81,82</b>

d <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	d <sub>3</sub>	l <sub>1</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
16	32	44	15	92	16	4	1	615.1600	<b>58,93</b>
18	32			92	16	4	1	615.1800	<b>70,67</b>
20	38	54	19	104	20	4	1	615.2000	<b>86,68</b>
22	38			104	20	4	1	615.2200	<b>109,66</b>
25	45	65	24	121	25	5	1	615.2500	<b>137,60</b>
26	45			121	25	6	1	615.2600	<b>162,86</b>
28	45			121	25	6	1	615.2800	<b>162,86</b>
30	45			121	25	6	1	615.3000	<b>188,51</b>
32	53	73	31	133	32	6	1	615.3200	<b>199,67</b>
36	53			133	32	6	1	615.3600	<b>255,21</b>
40	63	85	39	155	40	6	1	615.4000	<b>374,34</b>

**HSS-E Roughing end mill, short, weldon, coated**

**Execution:** Short model according to DIN 844, fine pitched roughing profile type HR, 30° helix angle, cylindrical shank with weldon according to DIN 1835-B, with ALCRONA-PRO® coating.



<b>DIN</b> 844	<b>DIN</b> 1835-B	<b>HSS</b> E	<b>HR</b> TYPE	<b>30°</b> HELIX		
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d <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	d <sub>3</sub>	l <sub>1</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
4	11			55	6	4	1	615.0400C	<b>47,19</b>
5	13			57	6	4	1	615.0500C	<b>47,19</b>
6	13	21	5,5	57	6	4	1	615.0600C	<b>42,91</b>
8	19	33	7,5	63	8	4	1	615.0800C	<b>47,02</b>
10	22	32	9	72	10	4	1	615.1000C	<b>47,50</b>
12	26	38	11	83	12	4	1	615.1200C	<b>53,98</b>

d <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	d <sub>3</sub>	l <sub>1</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
14	26			83	12	4	1	615.1400C	<b>76,34</b>
16	32	44	15	92	16	4	1	615.1600C	<b>81,93</b>
18	32			92	16	4	1	615.1800C	<b>97,61</b>
20	38	54	19	104	20	4	1	615.2000C	<b>115,92</b>
25	45	65	24	121	25	5	1	615.2500C	<b>169,33</b>
32	53	73	31	133	32	6	1	615.3200C	<b>279,64</b>

**HSS-E Roughing end mill set, in plastic case**



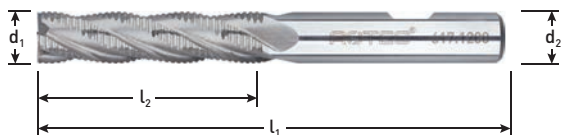
**Execution:** Short model with 4 flutes according to DIN 844, fine pitched roughing profile type HR, 30° helix angle, cylindrical shank with weldon according to DIN 1835-B.

Description	Type	Coating	Content	pcs/PU	Item no.	€ / PU
6 pc set HSS-E roughing end mills	615	-	1x ø4, 5, 6, 8, 10 and 12mm	1	615.9412	<b>218,33</b>
10 pc set HSS-E roughing end mills	615	-	1x ø4, 5, 6, 8, 10, 12, 14, 16, 18 and 20mm	1	615.9420	<b>456,90</b>
6 pc set HSS-E roughing end mills	615C	AlCroNa PRO	1x ø4, 5, 6, 8, 10 and 12mm	1	615.9412C	<b>256,59</b>
10 pc set HSS-E roughing end mills	615C	AlCroNa PRO	1x ø4, 5, 6, 8, 10, 12, 14, 16, 18 and 20mm	1	615.9420C	<b>581,83</b>

**617**

**HSS-E Roughing end mill, long, weldon**

**Execution:** Long model according to DIN 844, fine pitched roughing profile type HR, 30° helix angle, cylindrical shank with weldon according to DIN 1835-B.



**DIN**  
844
**DIN**  
1835-B
**HSS**  
E
**HR**  
TYPE
**30°**  
HELIX
 Z≥4

d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
6	68	24	6	4	1	617.0600	<b>52,25</b>
8	88	38	8	4	1	617.0800	<b>55,25</b>
10	95	45	10	4	1	617.1000	<b>62,08</b>
12	110	53	12	4	1	617.1200	<b>72,07</b>
16	123	63	16	4	1	617.1600	<b>94,46</b>
18	123	63	16	4	1	617.1800	<b>114,45</b>

d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
20	141	75	20	4	1	617.2000	<b>125,15</b>
22	141	75	20	5	1	617.2200	<b>141,29</b>
25	166	90	25	5	1	617.2500	<b>164,08</b>
28	166	90	25	6	1	617.2800	<b>239,60</b>
30	166	90	25	6	1	617.3000	<b>306,47</b>

**618**

**HSS-E Single fluted end mill**

**Execution:** Single fluted end mills with cylindrical shank according to DIN 1835-A. Higher (sharper) cutting angle specifically for aluminium and plastics.

**Application:** Typically used in the plastic and aluminium working industry, for example for routing key-holes in aluminium door and window profiles.



**DIN**  
1835-A
**HSS**  
E
**W**  
TYPE
**30°**  
HELIX

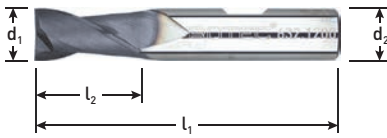
d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	pcs/PU	Item no.	€ / PU
4,0	60	12	8,0	1	618.0402	<b>32,13</b>
5,0	60	12	8,0	1	618.0503	<b>34,93</b>
5,0	80	18/35	8,0	1	618.0510	<b>47,52</b>
6,0	60	14	8,0	1	618.0602	<b>37,34</b>
6,0	90	16	8,0	1	618.0603	<b>49,46</b>

d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	pcs/PU	Item no.	€ / PU
8,0	80	14	8,0	1	618.0802	<b>34,38</b>
8,0	100	14/68	8,0	1	618.0804	<b>65,61</b>
10,0	80	14	8,0	1	618.1002	<b>46,71</b>
10,0	80	14	10,0	1	618.1004	<b>46,71</b>

**632**

**Solid carbide slotting end mill, SILVER-LINE**

**Execution:** Solid carbide slotting end mills, short model, cylindrical shank with weldon according to DIN 6535-HB, with TiAlN-coating.



<b>DIN</b> 6535-HB	<b>VHM</b> UF	<b>N</b> TYPE	<b>30°</b> HELIX		
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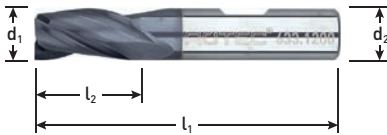
d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
1	50	5	6	2	1	632.0100	25,11
2	50	6	6	2	1	632.0200	25,11
3	50	6	6	2	1	632.0300	25,11
4	50	8	6	2	1	632.0400	25,11
5	50	8	6	2	1	632.0500	25,11
6	50	16	6	2	1	632.0600	28,23

d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
8	60	20	8	2	1	632.0800	40,86
10	70	22	10	2	1	632.1000	56,64
12	70	22	12	2	1	632.1200	74,12
16	75	25	16	2	1	632.1600	123,68
20	100	32	20	2	1	632.2000	206,04

**633**

**Solid carbide universal end mill, SILVER-LINE**

**Execution:** Solid carbide universal end mills, short model, cylindrical shank with weldon according to DIN 6535-HB, with TiAlN-coating.



<b>DIN</b> 6535-HB	<b>VHM</b> UF	<b>N</b> TYPE	<b>30°</b> HELIX		
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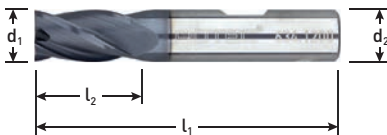
d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
1	50	5	6	3	1	633.0100	25,11
2	50	6	6	3	1	633.0200	25,11
3	50	6	6	3	1	633.0300	25,11
4	50	8	6	3	1	633.0400	25,11
5	50	8	6	3	1	633.0500	25,11
6	50	16	6	3	1	633.0600	28,23

d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
8	60	20	8	3	1	633.0800	40,86
10	70	22	10	3	1	633.1000	56,64
12	70	22	12	3	1	633.1200	74,12
16	75	25	16	3	1	633.1600	123,68
20	100	32	20	3	1	633.2000	206,04

**634**

**Solid carbide square end mill, short, coated, SILVER-LINE**

**Execution:** Solid carbide square end mills, short model, cylindrical shank with weldon according to DIN 6535-HB, with TiAlN-coating.



<b>DIN</b> 6535-HB	<b>VHM</b> UF	<b>N</b> TYPE	<b>30°</b> HELIX		
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d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
1	50	5	6	4	1	634.0100	27,90
2	50	7	6	4	1	634.0200	27,90
3	50	8	6	4	1	634.0300	27,90
4	50	11	6	4	1	634.0400	27,90
5	50	13	6	4	1	634.0500	27,90
6	50	16	6	4	1	634.0600	31,37

d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
8	60	20	8	4	1	634.0800	45,42
10	70	22	10	4	1	634.1000	62,93
12	70	22	12	4	1	634.1200	82,35
16	75	25	16	4	1	634.1600	137,43
20	100	32	20	4	1	634.2000	228,92

**Solid carbide end mill set, in plastic case**



**Execution:** Solid carbide square end mills, short model with 4 flutes, cylindrical shank with weldon according to DIN 6535-HB, with TiAlN-coating.

Description	Type	Coating	Content	pcs/PU	Item no.	€ / PU
6 pc set solid carbide end mills	634	TiAlN	1x ø4, 5, 6, 8, 10 and 12mm	1	634.9412	<b>271,83</b>

**635**

**Solid carbide square end mill, long, coated, SILVER-LINE**

**Execution:** Solid carbide square end mills, long model, cylindrical shank with weldon according to DIN 6535-HB, with TiAlN-coating.



<b>DIN</b> 6535-HB	<b>VHM</b> UF	<b>N</b> TYPE	<b>30°</b> HELIX	 Z=4	 TiAlN
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d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
3	50	12	6	4	1	635.0300	<b>25,73</b>
4	50	15	6	4	1	635.0400	<b>25,73</b>
5	60	20	6	4	1	635.0500	<b>34,55</b>
6	60	20	6	4	1	635.0600	<b>37,72</b>
8	70	25	8	4	1	635.0800	<b>47,14</b>

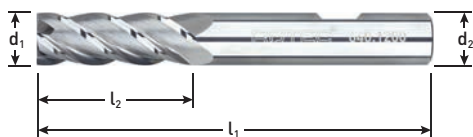
d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
10	90	30	10	4	1	635.1000	<b>67,66</b>
12	90	30	12	4	1	635.1200	<b>90,09</b>
16	110	50	16	4	1	635.1600	<b>161,24</b>
20	110	55	20	4	1	635.2000	<b>237,25</b>

**640**

**Solid carbide end mill for non-ferrous metals, SILVER-LINE**

**Execution:** Solid carbide end mills, cylindrical shank with weldon according to DIN 6535-HB. Special polished cutting geometry and an optimized helix angle [39°] for non-ferrous metals.

**Application:** Specific cutting geometry for non-ferrous metals such as aluminium and copper. The optimized helix angle ensures a smooth cut and a good chip evacuation.



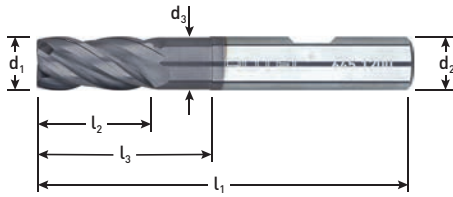
<b>DIN</b> 6535-HB	<b>VHM</b> UF	<b>W</b> TYPE	<b>39°</b> HELIX	 Z=4
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d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
4	62	8	6	4	1	640.0400	<b>28,23</b>
5	62	15	6	4	1	640.0500	<b>31,37</b>
6	62	18	6	4	1	640.0600	<b>34,55</b>
8	68	24	8	4	1	640.0800	<b>47,14</b>

d <sub>1</sub>	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
10	80	30	10	4	1	640.1000	<b>59,75</b>
12	93	36	12	4	1	640.1200	<b>90,09</b>
16	108	48	16	4	1	640.1600	<b>161,24</b>
20	126	60	20	4	1	640.2000	<b>231,57</b>

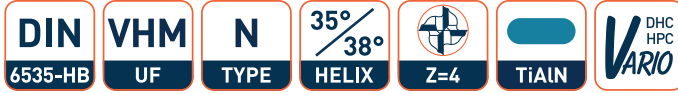
**645**

**Solid carbide Vario end mill, SILVER-LINE**



**Execution:** Solid carbide end mills, cylindrical shank with weldon according DIN 6535-HB. Special DHC (Double helix cutter) geometry for high performance cutting (HPC) applications. Differential helixes (2 flutes with 35° and 2 flutes with 38°) and a TiAlN-coating for more tool life.

**Application:** The double helix design ensures a smooth and nearly vibration free cut allowing machining at very high metal removal rates and yet realising an excellent surface finish on the machined workpieces.



d <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	d <sub>3</sub>	l <sub>1</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
3	11	21	2,6	57	6	4	1	645.0300	<b>51,19</b>
4	11	21	3,6	57	6	4	1	645.0400	<b>51,19</b>
5	13	21	4,6	57	6	4	1	645.0500	<b>51,19</b>
6	13	21	5,5	57	6	4	1	645.0600	<b>56,12</b>
8	19	27	7,5	63	8	4	1	645.0800	<b>77,12</b>
10	22	32	9,5	72	10	4	1	645.1000	<b>97,99</b>

d <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	d <sub>3</sub>	l <sub>1</sub>	d <sub>2</sub>	Z	pcs/PU	Item no.	€ / PU
12	26	38	11,5	83	12	4	1	645.1200	<b>136,76</b>
14	26	42	13,5	83	14	4	1	645.1400	<b>171,61</b>
16	32	44	15,5	92	16	4	1	645.1600	<b>207,01</b>
18	32	50	17,5	92	18	4	1	645.1800	<b>249,24</b>
20	38	54	19,5	104	20	4	1	645.2000	<b>320,76</b>

**Solid carbide end mill set 'VARIO', in plastic case**



**Execution:** Solid carbide square end mills, 4 flutes, cylindrical shank with weldon according DIN 6535-HB. Special DHC (Double helix cutter) geometry for high performance cutting (HPC) applications. Differential helixes (2 flutes with 35° and 2 flutes with 38°) and a TiAlN-coating for more tool life.

**Application:** The double helix design ensures a smooth and nearly vibration free cut allowing machining at very high metal removal rates and yet realising an excellent surface finish on the machined workpieces.

Description	Type	Coating	Content	pcs/PU	Item no.	€ / PU
4 pc set solid carbide end mills 'VARIO'	645	TiAlN	1x ø6, 8, 10 and 12mm	1	645.9612	<b>353,71</b>
6 pc set solid carbide end mills 'VARIO'	645	TiAlN	1x ø4, 5, 6, 8, 10 and 12mm	1	645.9412	<b>453,10</b>

