

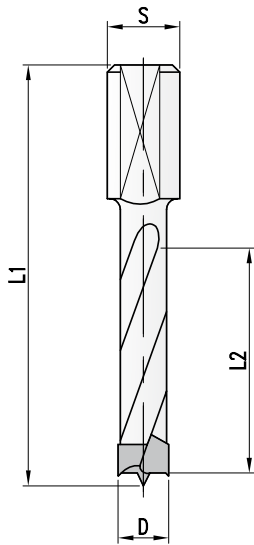
# ProChipper®



tooling systems



**Bohrer**  
*Boring bits*

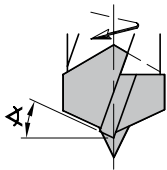

**Schaft ø 8mm**  
*Shank ø 8mm*
**MAN****HW**

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
5	30	57,5	8x27	2	8363.005.130	8363.005.030
6	30	57,5	8x27	2	8363.006.130	8363.006.030
7	30	57,5	8x27	2	8363.007.130	8363.007.030
8	30	57,5	8x27	2	8363.008.130	8363.008.030
9	30	57,5	8x27	2	8363.009.130	8363.009.030
10	30	57,5	8x27	2	8363.010.130	8363.010.030
12	30	57,5	8x27	2	8363.012.130	8363.012.030
5	40	70	8x30	2	8363.005.140	8363.005.040
6	40	70	8x30	2	8363.006.140	8363.006.040
7	40	70	8x30	2	8363.007.140	8363.007.040
8	40	70	8x30	2	8363.008.140	8363.008.040
9	40	70	8x30	2	8363.009.140	8363.009.040
10	40	70	8x30	2	8363.010.140	8363.010.040
12	40	70	8x30	2	8363.012.140	8363.012.040

**Schaft ø 10mm**  
*Shank ø 10mm*
**MAN****HW**

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
4	30	57,5	10x27	2	8363.004.130	8363.004.030
5	30	57,5	10x27	2	8363.005.330	8363.005.230
6	30	57,5	10x27	2	8363.006.330	8363.006.230
7	30	57,5	10x27	2	8363.007.330	8363.007.230
8	30	57,5	10x27	2	8363.008.330	8363.008.230
9	30	57,5	10x27	2	8363.009.330	8363.009.230
10	30	57,5	10x27	2	8363.010.330	8363.010.230
11	30	57,5	10x27	2	8363.011.130	8363.011.030
12	30	57,5	10x27	2	8363.012.330	8363.012.230
13	30	57,5	10x27	2	8363.013.130	8363.013.030
14	30	57,5	10x27	2	8363.014.130	8363.014.030
15	30	57,5	10x27	2	8363.015.130	8363.015.030
16	30	57,5	10x27	2	8363.016.130	8363.016.030
4	40	70	10x30	2	8363.004.143	8363.004.043
5	40	70	10x30	2	8363.005.143	8363.005.043
6	40	70	10x30	2	8363.006.143	8363.006.043
7	40	70	10x30	2	8363.007.143	8363.007.043
8	40	70	10x30	2	8363.008.143	8363.008.043
9	40	70	10x30	2	8363.009.143	8363.009.043
10	40	70	10x30	2	8363.010.143	8363.010.043
11	40	70	10x30	2	8363.011.143	8363.011.043
12	40	70	10x30	2	8343.012.143	8363.012.043
14	40	70	10x30	2	8363.014.143	8363.014.034
15	40	70	10x30	2	8363.015.143	8363.015.043
16	40	70	10x30	2	8363.016.143	8363.016.043
5	45	77	10x30	2	8363.005.150	8363.005.050
6	45	77	10x30	2	8363.006.150	8363.006.050
7	45	77	10x30	2	8363.007.150	8363.007.050
8	45	77	10x30	2	8363.007.150	8363.008.050
10	45	77	10x30	2	8363.010.150	8363.010.050
12	45	77	10x30	2	8363.012.150	8363.012.050
14	45	77	10x30	2	8363.014.150	8363.014.050

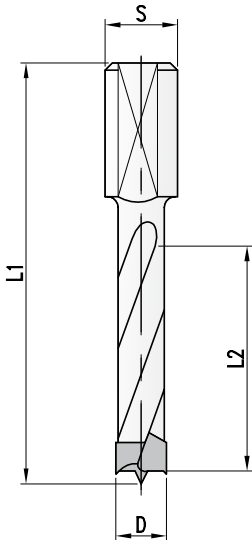
- Zum Bohren von Sacklöchern.  
Mit Zentrierspitze und Vorschneid-  
dergeometrie.
- *For drilling dowel holes.  
With center-point and spur  
geometry.*


**Modifikation**  
*Modification*

- Negativ angeschliffene  
Vorschneider für verbesserte  
Lochrandqualität und höhere  
Standzeit
- *Negatively ground spurs for  
accurate holes and longer  
tool life.*

**Ersatzteile**  
*Spare parts*

	Dim.	Art. Nr.
Einstellschraube - <i>Adjusting Screw</i>	M5x10	705.103
SS-Einstellschraube - <i>SS-Adjusting Screw</i>	M5x17	705.180


**Schaft ø 8mm**  
*Shank ø 8mm*
**MAN****HW**

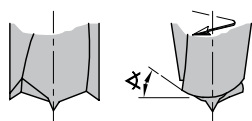
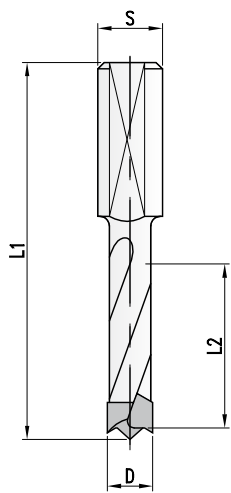
D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
5	30	57,5	8x27	2	8373.005.130	8373.005.030
6	30	57,5	8x27	2	8373.006.130	8373.006.030
7	30	57,5	8x27	2	8373.007.130	8373.007.030
8	30	57,5	8x27	2	8373.008.130	8373.008.030
9	30	57,5	8x27	2	8373.009.130	8373.009.030
10	30	57,5	8x27	2	8373.010.130	8373.010.030
12	30	57,5	8x27	2	8373.012.130	8373.012.030
5	40	67	8x27	2	8373.005.140	8373.005.040
6	40	67	8x27	2	8373.006.140	8373.006.040
7	40	67	8x27	2	8373.007.140	8373.007.040
8	40	67	8x27	2	8373.008.140	8373.008.040
9	40	67	8x27	2	8373.009.140	8373.009.040
10	40	67	8x27	2	8373.010.140	8373.010.040
12	40	67	8x27	2	8373.012.140	8373.012.040

**Schaft ø 10mm**  
*Shank ø 10mm*
**MAN****HW**

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
4	30	57,5	10x27	2	8373.004.130	8373.004.030
5	30	57,5	10x27	2	8373.005.330	8373.005.230
6	30	57,5	10x27	2	8373.006.330	8373.006.230
7	30	57,5	10x27	2	8373.007.330	8373.007.230
8	30	57,5	10x27	2	8373.008.330	8373.008.230
9	30	57,5	10x27	2	8373.009.330	8373.009.230
10	30	57,5	10x27	2	8373.010.330	8373.010.230
11	30	57,5	10x27	2	8373.011.130	8373.011.030
12	30	57,5	10x27	2	8373.012.330	8373.012.230
13	30	57,5	10x27	2	8373.013.330	8373.013.230
14	30	57,5	10x27	2	8373.014.330	8373.014.230
15	30	57,5	10x27	2	8373.015.330	8373.015.230
16	30	57,5	10x27	2	8373.016.330	8373.016.230
4	43	70	10x27	2	8373.004.143	8373.004.043
5	43	70	10x27	2	8373.005.143	8373.005.043
6	43	70	10x27	2	8373.006.143	8373.006.043
7	43	70	10x27	2	8373.007.143	8373.007.043
8	43	70	10x27	2	8373.008.143	8373.008.043
9	43	70	10x27	2	8373.009.143	8373.009.043
10	43	70	10x27	2	8373.010.143	8373.010.043
11	43	70	10x27	2	8373.011.143	8373.011.043
12	43	70	10x27	2	8373.012.143	8373.012.043
14	43	70	10x27	2	8373.014.143	8373.014.043
15	43	70	10x27	2	8373.015.143	8373.015.043
16	43	70	10x27	2	8373.016.143	8373.016.043
5	45	85	10x35	2	8373.005.150	8373.005.050
6	45	85	10x35	2	8373.006.150	8373.006.050
7	45	85	10x35	2	8373.007.150	8373.007.050
8	45	85	10x35	2	8373.008.150	8373.008.050
9	45	85	10x35	2	8373.009.150	8373.009.050
10	45	85	10x35	2	8373.010.150	8373.010.050
12	45	85	10x35	2	8373.012.150	8373.012.050
14	45	85	10x35	2	8373.014.150	8373.014.050
5	65	115	10x35	2	8373.005.165	8373.005.065
6	65	115	10x35	2	8373.006.165	8373.006.065
7	65	115	10x35	2	8373.007.165	8373.007.065
8	65	115	10x35	2	8373.008.165	8373.008.065
9	65	115	10x35	2	8373.009.165	8373.009.065
10	65	115	10x35	2	8373.010.165	8373.010.065
12	65	115	10x35	2	8373.012.165	8373.012.065
14	65	115	10x35	2	8373.014.165	8373.014.065

- Zum Bohren von Sacklöchern.  
Mit Zentrierspitze und Vorschneid-  
dergeometrie
- Kombinierbar mit Aufstecksenker
- *For drilling dowel holes.  
With center-point and spur ge-  
ometry. Can be combined with  
loose countersink.*





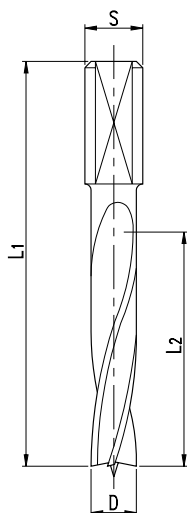
- Zum Bohren von Sacklöchern.  
Mit Zentrierspitze und Rundformvorschneiden.
- *For drilling dowel holes. With center point and roundspur profile grinding.*

**Schaft ø 10mm**  
*Shank ø 10mm*
**MAN****HW**

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
5	30	57,5	10x27	2	8383.005.133	8383.005.033
6	30	57,5	10x27	2	8383.006.133	8383.006.033
7	30	57,5	10x27	2	8383.007.133	8383.007.033
8	30	57,5	10x27	2	8383.008.133	8383.008.033
9	30	57,5	10x27	2	8383.009.133	8383.009.033
10	30	57,5	10x27	2	8383.010.133	8383.010.033
12	30	57,5	10x27	2	8383.012.133	8383.012.033
15	30	57,5	10x27	2	8383.015.133	8383.015.033
5	35	70	10x30	2	8383.005.135	8383.005.035
6	35	70	10x30	2	8383.006.135	8383.006.035
7	35	70	10x30	2	8383.007.135	8383.007.035
8	35	70	10x30	2	8383.008.135	8383.008.035
9	35	70	10x30	2	8383.009.135	8383.009.035
10	35	70	10x30	2	8383.010.135	8383.010.035
12	35	70	10x30	2	8383.012.135	8383.012.035
15	35	70	10x30	2	8383.015.135	8383.015.035

**Ersatzteile / Spare parts**

Dim.	Art. Nr.	
Einstellschraube - Adjusting Screw	M5x10	705.103
SS-Einstellschraube - SS-Adjusting Screw	M5x17	705.180



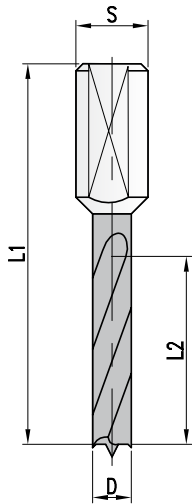
- Zum Bohren von Sacklöchern.  
Mit Zentrierspitze und Vorschneidergeometrie.
- Kombinierbar mit Aufstecksenker.
- *For drilling dowel holes. With center-point and spur geometry.*
- *Can be combined with loose countersink.*

**Schaft ø 10mm**  
*Shank ø 10mm*
**MAN****HS**

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
5	30	57,5	10x27	2	3363.005.130	3363.005.030
6	30	57,5	10x27	2	3363.006.130	3363.006.030
7	30	57,5	10x27	2	3363.007.130	3363.007.030
8	30	57,5	10x27	2	3363.008.130	3363.008.030
9	30	57,5	10x27	2	3363.009.130	3363.009.030
10	30	57,5	10x27	2	3363.010.130	3363.010.030
12	30	57,5	10x27	2	3363.012.130	3363.012.030
5	43	70	10x30	2	3363.005.143	3363.005.043
6	43	70	10x30	2	3363.006.143	3363.006.043
7	43	70	10x30	2	3363.007.143	3363.007.043
8	43	70	10x30	2	3363.008.143	3363.008.043
9	43	70	10x30	2	3363.009.143	3363.009.043
10	43	70	10x30	2	3363.010.143	3363.010.043
12	43	70	10x30	2	3363.012.143	3363.012.043

**Wendemesser/Ersatzteile**  
*Reversible knives/Spare parts*

Dim.	Art. Nr.	
Einstellschraube - Adjusting Screw	M5x10	705.103
SS-Einstellschraube - SS-Adjusting Screw	M5x17	705.180

**6363****HW Dübellochbohrer „Standard“ - Massiv**  
TC Dowel drill „Standard“ - SolidPG  
02Schaft ø 10mm  
Shank ø 10mm

MAN

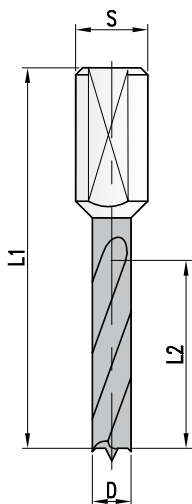
HW

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
3	27	57,5	10x27	2	6363.003.127	6363.003.027
4	27	57,5	10x27	2	6363.004.127	6363.004.027
5	27	57,5	10x27	2	6363.005.127	6363.005.027
6	27	57,5	10x27	2	6363.006.127	6363.006.027
8	27	57,5	10x27	2	6363.008.127	6363.008.027
10	27	57,5	10x27	2	6363.010.127	6363.010.027
3	35	70	10x30	2	6363.003.135	6363.003.035
4	35	70	10x30	2	6363.004.135	6363.004.035
5	35	70	10x30	2	6363.005.135	6363.005.035
6	35	70	10x30	2	6363.006.135	6363.006.035
8	35	70	10x30	2	6363.008.135	6363.008.035
10	35	70	10x30	2	6363.010.135	6363.010.035
12	35	70	10x30	2	6363.012.135	6363.012.035

- Zum Bohren von Sacklöchern. Mit Zentrierspitze und Vorshneidergeometrie.
- For drilling dowel holes. with center-point ans spur geometry.

Ersatzteile  
Spare parts

	Dim.	Art. Nr.
Einstellschraube - Adjusting Screw	M5x10	705.103
SS-Einstellschraube - SS-Adjusting Screw	M5x17	705.180

**6353****HW Dübellochbohrer Z=3 - Massiv**  
TC Dowel drill Z=3 - SolidPG  
02Schaft ø 10mm  
Shank ø 10mm

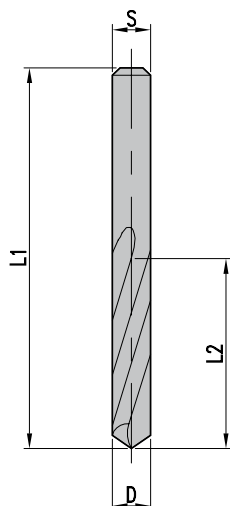
MAN

HW

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
3	27	57,5	10x27	2	6353.003.127	6353.003.027
4	27	57,5	10x27	2	6353.004.127	6353.004.027
5	27	57,5	10x27	2	6353.005.127	6353.005.027
6	27	57,5	10x27	2	6353.006.127	6353.006.027
8	27	57,5	10x27	2	6353.008.127	6353.008.027
10	27	57,5	10x27	2	6353.010.127	6353.010.027
4	35	70	10x30	2	6353.004.135	6353.004.035
5	35	70	10x30	2	6353.005.135	6353.005.035
6	35	70	10x30	2	6353.006.135	6353.006.035
8	35	70	10x30	2	6353.008.135	6353.008.035
10	35	70	10x30	2	6353.010.135	6353.010.035
12	35	70	10x30	2	6353.012.135	6353.012.035

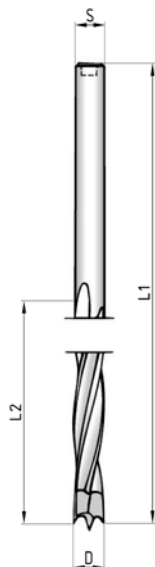
- Zum Bohren von Sacklöchern. Mit Zentrierspitze und Vorshneidergeometrie.
- For drilling dowel holes. with center-point ans spur geometry.




**VHW-Spiralbohrer Z=2**  
*Solid TC drill Z=2*
**MAN**
**HW**

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
1,2	13	33	1,2	2	<b>6355.012.113</b>	<b>6355.012.013</b>
2	25	49	2,0	2	<b>6355.002.125</b>	<b>6355.002.025</b>
2,5	27	55	2,5	2	<b>6355.025.127</b>	<b>6355.025.027</b>
3	27	55	3,0	2	<b>6355.003.127</b>	<b>6355.003.027</b>
3,2	27	52	3,2	2	<b>6355.032.127</b>	<b>6355.032.027</b>
3,5	27	52	3,5	2	<b>6355.035.127</b>	<b>6355.035.027</b>
4	27	55	4,0	2	<b>6355.004.127</b>	<b>6355.004.037</b>
4,5	28	58	4,5	2	<b>6355.045.128</b>	<b>6355.045.028</b>
5	28	62	5,0	2	<b>6355.005.128</b>	<b>6355.005.028</b>
6	28	62	6,0	2	<b>6355.006.128</b>	<b>6355.006.028</b>

- Zum Bohren von Sack- und Durchgangslöchern. zylindrische Ausführung mit flacher Dachformspitze. Bei Schaftaufnahme 10mm, verwendbar mit Reduzierbüchse Art. 494 bzw. Adapter Art. 495.
- *For drilling of holes and through-holes. Cylindrical with flat V-point tip. For boring spindle 10mm, adaptable with reducing sleeve Art. 494 or adapter Art. 495.*

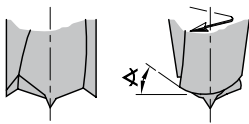
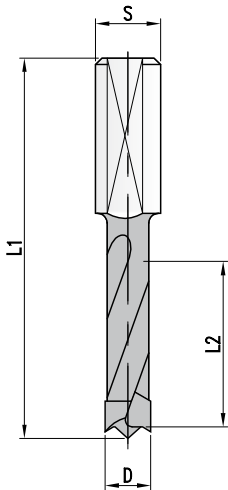

**HW-Spiralbohrer Z=2**  
*Solid TC drill Z=2*
**MAN**
**HW**

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
4	40	75	4	2	<b>8355.040.104</b>	<b>8355.040.004</b>
4,5	45	80	4,5	2	<b>8355.045.145</b>	<b>8355.045.045</b>
5	50	86	5,0	2	<b>8355.050.105</b>	<b>8355.050.005</b>
5,5	50	93	5,5	2	<b>8355.050.155</b>	<b>8355.050.055</b>
6	50	93	6,0	2	<b>8355.050.106</b>	<b>8355.050.006</b>
	60	110	13x50	2	<b>8355.060.113</b>	<b>8355.060.013</b>
6,5	55	101	6,5	2	<b>8355.055.165</b>	<b>8355.055.065</b>
7	60	109	7,0	2	<b>8355.060.107</b>	<b>8355.060.007</b>
7,5	60	109	7,5	2	<b>8355.060.175</b>	<b>8355.060.075</b>
8	65	117	8,0	2	<b>8355.065.108</b>	<b>8355.065.008</b>
	70	120	13x50	2	<b>8355.070.113</b>	<b>8355.070.013</b>
8,5	65	117	8,5	2	<b>8355.065.185</b>	<b>8355.065.085</b>
9	75	125	9,0	2	<b>8355.075.109</b>	<b>8355.075.009</b>
10	80	130	13x50	2	<b>8355.080.113</b>	<b>8355.080.013</b>
	80	133	10,0	2	<b>8355.080.110</b>	<b>8355.080.010</b>
11	90	142	11,0	2	<b>8355.090.111</b>	<b>8355.090.011</b>
12	90	140	13x50	2	<b>8355.090.113</b>	<b>8355.090.013</b>
	95	151	12,0	2	<b>8355.095.112</b>	<b>8355.095.012</b>
14	95	145	13x50	2	<b>8355.095.113</b>	<b>8355.095.013</b>
	110	160	14,0	2	<b>8355.110.114</b>	<b>8355.110.014</b>
16	100	150	16x50	2	<b>8355.100.116</b>	<b>8355.100.016</b>
18	110	160	16x50	2	<b>8355.110.116</b>	<b>8355.110.016</b>
20	115	165	16x50	2	<b>8355.115.116</b>	<b>8355.115.016</b>
22	120	170	16x50	2	<b>8355.120.116</b>	<b>8355.120.016</b>
24	130	180	16x50	2	<b>8355.130.116</b>	<b>8355.130.016</b>

6373

**HW Dübellochbohrer „SuperPlus“ - Massiv**  
*TC Dowel drill „SuperPlus“ - Solid*

PG  
02



Schaft ø 10mm  
 Shank ø 10mm

MAN

HW

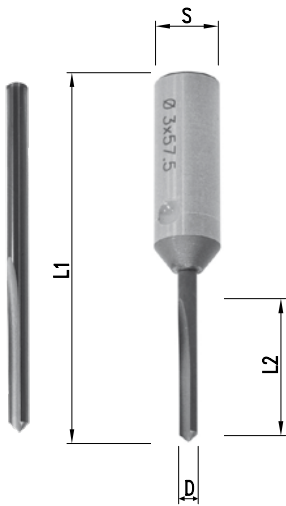
D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
4	27	57,5	10x22	2	6373.004.127	6373.004.027
5	27	57,5	10x22	2	6373.005.127	6373.005.027
6	27	57,5	10x22	2	6373.006.127	6373.006.027
8	27	57,5	10x22	2	6373.008.127	6373.008.027
10	27	57,5	10x22	2	6373.010.127	6373.010.027
4	35	70	10x27	2	6373.004.135	6373.004.035
5	35	70	10x27	2	6373.005.135	6373.005.035
6	35	70	10x27	2	6373.006.135	6373.006.035
8	35	70	10x27	2	6373.008.135	6373.008.035
10	35	70	10x27	2	6373.010.135	6373.010.035

- Zum Bohren von Sacklöchern. Mit Zentrierspitze und Rundformvorschneidern. Extrem hohe Standzeit durch Micrograin-HM und Anschliff mit Rundformvorschneider.
- *For drilling dowel holes. With center point and roundspur profile grinding. Super long tool life through Micrograin-TC and round spur profile ground.*

6359

**HW Bohrstift - Massiv**  
*TC Boring pin - Solid*

PG  
02



VHW-Bohrstift Z=1 R/L  
 Solid TC boring pin Z=1 R/L

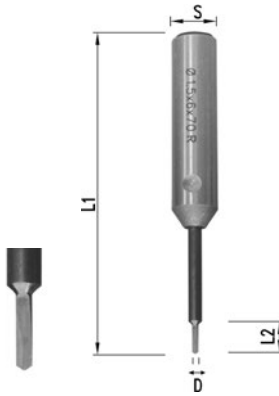
MAN

HW

D	L2	L1	S	Z	Art. Nr.
2,5	18	50	2,5	1	6359.025.018
3	18	50	3	1	6359.003.118
3,5	18	50	3,5	1	6359.035.018
4	20	50	4	1	6359.004.020
2,5	18	57,5	10	1	6359.025.118
3	18	57,5	10	1	6359.003.118
3,5	18	57,5	10	1	6359.035.018
4	23	57,5	10	1	6359.004.023
5	23	57,5	10	1	6359.005.023
6	25	57,5	10	1	6359.006.025
2,5	18	70	10	1	6359.025.218
3	23	70	10	1	6359.003.023
3,5	23	70	10	1	6359.035.023
4	35	70	10	1	6359.004.035
5	43	70	10	1	6359.005.043
6	43	70	10	1	6359.006.043
8	43	70	10	1	6359.008.043

- Vollhartmetall-Bohrstift zur Verwendung im Rechts- oder Linkslauf. Zum Bohren von Sack- und Durchgangslöchern. Ausführung mit einer Spannute und Dachformspitze.
- *Solid TC-Drill suitable for left- and righthand operation. For drilling of holes and through holes. Layout with one gullet and flat V-point tip.*



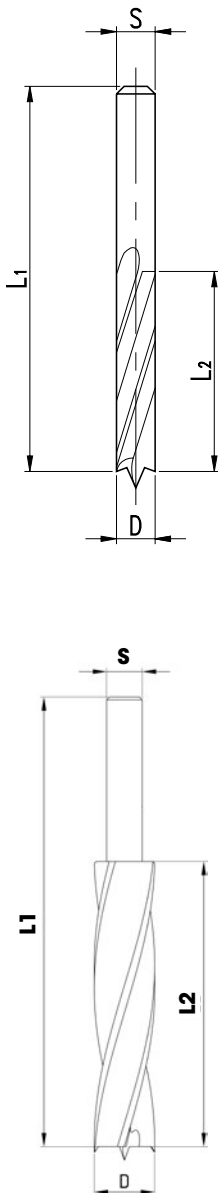
**6385****HW Akustikbohrer - Massiv**  
TC Acoustic drill - SolidPG  
02**VHW-Akustikbohrer Z=1**  
Solid TC acoustic drill Z=1

MAN

HW

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
1,2	6,0	70	10x27	1	6385.001.106	6385.001.006
1,5	6,0	70	10x27	1	6385.002.106	6385.002.006
2	6,0	70	10x27	1	6385.002.306	6385.002.206

- Für die Herstellung von Akustikwänden zur Schalldämmung. Mit Spannfläche und Einstellschraube.
- For production of acousticboards for acoustics insulation. With clamping flat and adjustment screw.

**3365****HS Spiralbohrer mit Zentrierspitze - Massiv**  
HS Drill with center point - SolidPG  
02**HS-Spiralbohrer Z=2**  
HS-Drill Z=2

MAN

HS

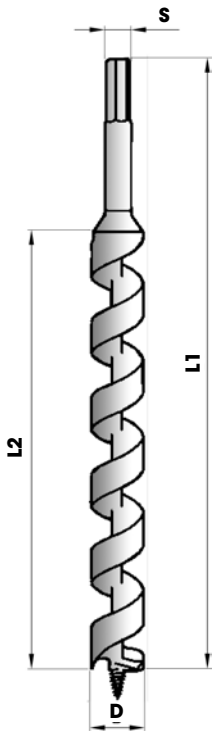
D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
2	24	49	2,0	2	3365.002.124	3365.002.024
2,5	30	57	2,5	2	3365.003.130	3365.003.030
3	33	61	3,0	2	3365.003.133	3365.003.033
3,5	39	70	3,5	2	3365.004.139	3365.004.039
4	43	75	4,0	2	3365.004.143	3365.004.043
4,5	47	80	4,5	2	3365.005.147	3365.005.047
5	52	86	5,0	2	3365.005.152	3365.005.052
5,5	57	93	5,5	2	3365.006.157	3365.006.057
6	57	93	6,0	2	3365.006.357	3365.006.257
6,5	63	100	6,5	2	3365.007.163	3365.007.063
7	69	109	7,0	2	3365.007.169	3365.007.069
7,5	69	108	7,5	2	3365.008.169	3365.008.069
8	75	117	8,0	2	3365.008.175	3365.008.075
8,5	75	115	8,5	2	3365.009.175	3365.009.075
9	81	125	9,0	2	3365.009.181	3365.009.081
9,5	81	125	9,5	2	3365.010.181	3365.010.081
10	87	133	10,0	2	3365.010.187	3365.010.087
10,5	87	130	10,5	2	3365.011.187	3365.011.087
11	94	140	11,0	2	3365.011.194	3365.011.094
11,5	94	140	11,5	2	3365.012.194	3365.012.094
12	101	150	12,0	2	3365.012.201	3365.012.101
13	101	150	13,0	2	3365.013.201	3365.013.101
14	108	160	13,0	2	3365.014.208	3365.014.108
15	114	168	13,0	2	3365.015.214	3365.015.114
16	120	176	13,0	2	3365.016.220	3365.016.120
18	130	190	13,0	2	3365.018.230	3365.018.130
20	140	210	13,0	2	3365.020.240	3365.020.140

**Lange Ausführung - Long type**

5	180	250	5,0	2		3365.005.180
6	180	250	6,0	2		3365.006.180
8	180	250	8,0	2		3365.008.180
10	180	250	10,0	2		3365.010.180
12	180	250	12,0	2		3365.012.180
13	180	250	13,0	2		3365.013.180
14	180	250	13,0	2		3365.014.180
16	180	250	13,0	2		3365.016.180

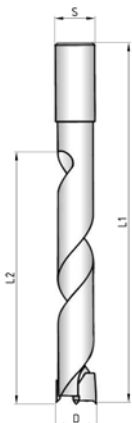
- Zum Bohren von ausrissfreien Sacklöchern. Ausführung mit Zentrierspitze und Vorschneidern.
- For drilling of tear-free holes. Layout with center point and spurs.



**3463****WS-Schlangenbohrer Typ Lewis - Massiv**  
WS Drill type Lewis - Solid**PG  
02****WS-Lewisbohrer**  
WS Drill type Lewis**MAN****HS**

D	L2	L1	S	Z	Art. Nr.
4	160	230	3,5	1	3463.004.160
6	160	230	5,5	1	3463.006.160
8	160	230	7,5	1	3463.008.160
10	160	230	6 kt.	1	3463.010.160
11	160	230	6 kt.	1	3463.011.160
12	160	230	6 kt.	1	3463.012.160
14	160	230	6 kt.	1	3463.014.160
16	160	230	6 kt.	1	3463.016.160
18	160	230	6 kt.	1	3463.018.160
20	160	230	6 kt.	1	3463.020.160
22	160	230	6 kt.	1	3463.022.160
24	160	230	6 kt.	1	3463.024.160
26	160	230	6 kt.	1	3463.026.160
28	160	230	6 kt.	1	3463.028.160
30	160	230	6 kt.	1	3463.030.160
32	160	230	6 kt.	1	3463.032.160
34	160	230	6 kt.	1	3463.034.160
36	160	230	6 kt.	1	3463.036.160
38	160	230	6 kt.	1	3463.038.160
40	160	230	6 kt.	1	3463.040.160
6	380	460	5,5	1	3463.006.380
8	380	460	7,5	1	3463.008.380
10	380	460	6 kt.	1	3463.010.380
12	380	460	6 kt.	1	3463.012.380
14	380	460	6 kt.	1	3463.014.380
16	380	460	6 kt.	1	3463.016.380
18	380	460	6 kt.	1	3463.018.380
20	380	460	6 kt.	1	3463.020.380
22	380	460	6 kt.	1	3463.022.380
24	380	460	6 kt.	1	3463.024.380
26	380	460	6 kt.	1	3463.026.380
28	380	460	6 kt.	1	3463.028.380
30	380	460	6 kt.	1	3463.030.380
32	380	460	6 kt.	1	3463.032.380
34	380	460	6 kt.	1	3463.034.380
36	380	460	6 kt.	1	3463.036.380
38	380	460	6 kt.	1	3463.038.380
40	380	460	6 kt.	1	3463.040.380

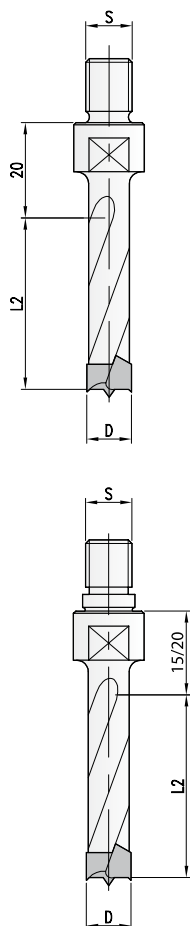
- Lewisbohrer mit Gewindeczentrierspitze und Vorschneider zum Bohren sehr tiefer Bohrungen.
- Lewis-type drill with thread center point and spur. For drilling very deep holes.

**8365****HW Tieflochbohrer mit einer Spiralfurche - Festbestückt**  
TC Deephole drill with single spiral flute - Tipped**PG  
02****HW Tieflochbohrer Z=1**  
TC Deephole drill long version Z=1**MAN****HW**

D	L2	L1	S	Z	Art. Nr.
10	100	150	13	1	8365.010.100
12	110	160	13	1	8365.012.110
14	130	180	13	1	8365.014.130
16	160	200	16	1	8365.016.160
18	170	220	16	1	8365.018.170
20	170	220	16	1	8365.020.170
22	170	220	16	1	8365.022.170
24	170	220	16	1	8365.024.170

- Zum Bohren sehr tiefer Bohrungen. Hartmetallbestückte Ausführung mit Zentrierspitze und Vorschneidern
- For drilling very deep holes. Tungsten carbide tipped version with center point and spur.




**Schaft  $\varnothing$  M8 or M10**  
*Shank  $\varnothing$  M8 or M10*
**MAN****HW**

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
5	43	63	M8	2	8368.005.143	8368.005.043
6	43	63	M8	2	8368.006.143	8368.006.043
8	43	63	M8	2	8368.008.143	8368.008.043
10	43	63	M8	2	8368.010.143	8368.010.043
12	43	63	M8	2	8368.012.143	8368.012.043
14	43	63	M8	2	8368.014.143	8368.014.043
16	43	63	M8	2	8368.016.143	8368.016.043
5	60	80	M8	2	8368.005.160	8368.005.060
6	60	80	M8	2	8368.006.160	8368.006.060
8	60	80	M8	2	8368.008.160	8368.008.060
10	60	80	M8	2	8368.010.160	8368.010.060
12	60	80	M8	2	8368.012.160	8368.012.060
14	60	80	M8	2	8368.014.160	8368.014.060
16	60	80	M8	2	8368.016.160	8368.016.060
5	43	63	M10	2	8368.005.343	8368.005.243
6	43	63	M10	2	8368.006.343	8368.006.243
8	43	63	M10	2	8368.008.343	8368.008.243
10	43	63	M10	2	8368.010.343	8368.010.243
12	43	63	M10	2	8368.012.343	8368.012.243
14	43	63	M10	2	8368.014.343	8368.014.243
16	43	63	M10	2	8368.016.343	8368.016.243
5	60	80	M10	2	8368.005.360	8368.005.260
6	60	80	M10	2	8368.006.360	8368.006.260
8	60	80	M10	2	8368.008.360	8368.008.260
10	60	80	M10	2	8368.010.360	8368.010.260
12	60	80	M10	2	8368.012.360	8368.012.260
14	60	80	M10	2	8368.014.360	8368.014.260
16	60	80	M10	2	8368.016.360	8368.016.260

**Schaft  $\varnothing$  M8/9 bzw. M10/11**  
*Shank  $\varnothing$  M8/9 or M10/11*
**MAN****HW**

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
5	43	63	M8/9	2	8368.005.543	8368.005.443
6	43	63	M8/9	2	8368.006.543	8368.006.443
8	43	63	M8/9	2	8368.008.543	8368.008.443
10	43	63	M8/9	2	8368.010.543	8368.010.443
12	43	63	M8/9	2	8368.012.543	8368.012.443
14	43	63	M8/9	2	8368.014.543	8368.014.443
16	43	63	M8/9	2	8368.016.543	8368.016.443
5	60	75	M8/9	2	8368.005.560	8368.005.460
6	60	75	M8/9	2	8368.006.560	8368.006.460
8	60	75	M8/9	2	8368.008.560	8368.008.460
10	60	75	M8/9	2	8368.010.560	8368.010.460
12	60	75	M8/9	2	8368.012.560	8368.012.460
14	60	75	M8/9	2	8368.014.560	8368.014.460
16	60	75	M8/9	2	8368.016.560	8368.016.460
5	43	63	M10/11	2	8368.005.743	8368.005.643
6	43	63	M10/11	2	8368.006.743	8368.006.643
8	43	63	M10/11	2	8368.008.743	8368.008.643
10	43	63	M10/11	2	8368.010.743	8368.010.643
12	43	63	M10/11	2	8368.012.743	8368.012.643
14	43	63	M10/11	2	8368.014.743	8368.014.643
16	43	63	M10/11	2	8368.016.743	8368.016.643
5	60	75	M10/11	2	8368.005.760	8368.005.660
6	60	75	M10/11	2	8368.006.760	8368.006.660
8	60	75	M10/11	2	8368.008.760	8368.008.660
10	60	75	M10/11	2	8368.010.760	8368.010.660
12	60	75	M10/11	2	8368.012.760	8368.012.660
14	60	75	M10/11	2	8368.014.760	8368.014.660
16	60	75	M10/11	2	8368.016.760	8368.016.660

- Zum Bohren von Sacklöchern. Mit Zentrierspitze und Vorschneidergeometrie. Gewindeschaft zur direkten, stabilen Einspannung in die Bohrspindeln.

- *For drilling dowel holes. With center-point and spur geometry. Threaded shank for direct mounting in the drilling spindles.*

- Gewindeschaft M8 für Nottmeier
- Gewindeschaft M8 mit Paßsitz für SCM
- Gewindeschaft M10 für Tornegge, Ayen, Mayer
- Gewindeschaft M10 mit Paßsitz für Biesse, Weeke, Morbidelli

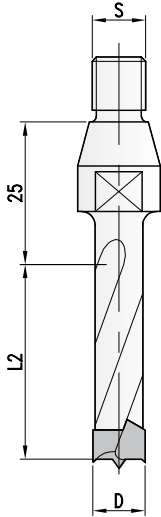
- *Threaded shank M8 for Nottmeier*
- *Threaded shank M8 with seating for SCM*
- *Threaded shank M10 for Tornegge, Ayen, Mayer*
- *Threaded shank M10 with seating for Biesse, Weeke, Morbidelli*

- Alle Abmessungen auch aus gehärtetem Werkzeugstahl verfügbar

**8388**

## HW Dübellochbohrer mit Kegel und Gewindeschaff - Festbestückt

TC Dowel drill with cone and threaded shank - Tipped

PG  
02

- Zum Bohren von Sacklöchern. Mit Zentrierspitze und Vorschneid-dergeometrie. Gewindeschaff M10 mit Kegel für Alberti, Vitap, Busellato.
- *For drilling dowel holes. With center-point and spur geometry. Threaded shank M10 with cone for Alberti, Vitap, Busellato.*

Schaff  $\varnothing$  M10 with cone  
Shank  $\varnothing$  M10 with cone

MAN

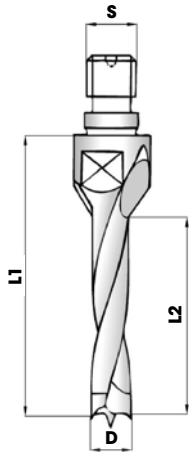
HW

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
5	30	56	M10	2	8388.005.130	8388.005.030
6	30	56	M10	2	8388.006.130	8388.006.030
8	30	56	M10	2	8388.008.130	8388.008.030
10	30	56	M10	2	8388.010.130	8388.010.030
12	30	56	M10	2	8388.012.130	8388.012.030
14	30	56	M10	2	8388.014.130	8388.014.030
16	30	56	M10	2	8388.016.130	8388.016.030
5	40	66	M10	2	8388.005.140	8388.005.040
6	40	66	M10	2	8388.006.140	8388.006.040
8	40	66	M10	2	8388.008.140	8388.008.040
10	40	66	M10	2	8388.010.140	8388.010.040
12	40	66	M10	2	8388.012.140	8388.012.040
14	40	66	M10	2	8388.014.140	8388.014.040
16	40	66	M10	2	8388.016.140	8388.016.040
5	50	76	M10	2	8388.005.150	8388.005.050
6	50	76	M10	2	8388.006.150	8388.006.050
8	50	76	M10	2	8388.008.150	8388.008.050
10	50	76	M10	2	8388.010.150	8388.010.050
12	50	76	M10	2	8388.012.150	8388.012.050
14	50	76	M10	2	8388.014.150	8388.014.050
16	50	76	M10	2	8388.016.150	8388.016.050

**8398**

## HW Dübellochbohrer mit Senkstufe und Gewindeschaff - Festbestückt

TC Dowel drill with countersink and threaded shank - Tipped

PG  
02

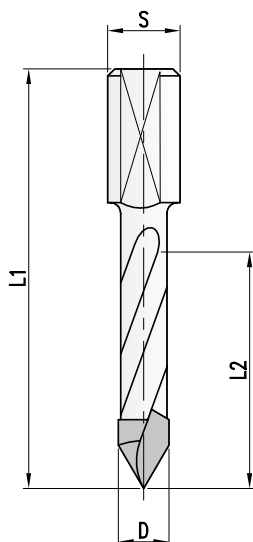
- Zum Bohren von Sacklöchern. bei gleichzeitigem Ansenken des Lochrands. Gewindeschaff M10 mit Paßsitz für Biesse, Weeke, Morbidelli.
- *For drilling dowel holes and countersinking in one step. Threaded shank M10 with seating for Biesse, Weeke, Morbidelli.*

Schaff  $\varnothing$  M10/11  
Shank  $\varnothing$  M10/11

MAN

HW

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
5	30	47	M10/11	2	8398.005.130	8398.005.030
6	30	47	M10/11	2	8398.006.130	8398.006.030
8	30	47	M10/11	2	8398.008.130	8398.008.030
10	30	47	M10/11	2	8398.010.130	8398.010.030
12	30	47	M10/11	2	8398.012.130	8398.012.030
14	30	47	M10/11	2	8398.014.130	8398.014.030
16	30	47	M10/11	2	8398.016.130	8398.016.030
5	40	57	M10/11	2	8398.005.140	8398.005.040
6	40	57	M10/11	2	8398.006.140	8398.006.040
8	40	57	M10/11	2	8398.008.140	8398.008.040
10	40	57	M10/11	2	8398.010.140	8398.010.040
12	40	57	M10/11	2	8398.012.140	8398.012.040
14	40	57	M10/11	2	8398.014.140	8398.014.040
16	40	57	M10/11	2	8398.016.140	8398.016.040
5	50	67	M10/11	2	8398.005.150	8398.005.050
6	50	67	M10/11	2	8398.006.150	8398.006.050
8	50	67	M10/11	2	8398.008.150	8398.008.050
10	50	67	M10/11	2	8398.010.150	8398.010.050
12	50	67	M10/11	2	8398.012.150	8398.012.050
14	50	67	M10/11	2	8398.014.150	8398.014.050
16	50	67	M10/11	2	8398.016.150	8398.016.050

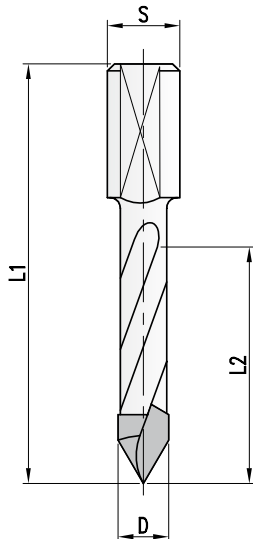

**Schaft  $\varnothing$  8mm**  
**Shank  $\varnothing$  8mm**
**MAN****HW**

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
5	30	55,5	8x20	2	<b>8353.005.130</b>	<b>8353.005.030</b>
6	30	55,5	8x20	2	<b>8353.006.130</b>	<b>8353.006.030</b>
8	30	55,5	8x20	2	<b>8353.008.130</b>	<b>8353.008.030</b>
10	30	55,5	8x20	2	<b>8353.010.130</b>	<b>8353.010.030</b>
12	30	55,5	8x20	2	<b>8353.012.130</b>	<b>8353.012.030</b>
5	40	67	8x20	2	<b>8353.005.160</b>	<b>8353.005.040</b>
6	40	67	8x20	2	<b>8353.006.140</b>	<b>8353.006.040</b>
7	40	67	8x20	2	<b>8353.007.140</b>	<b>8353.007.040</b>
8	40	67	8x20	2	<b>8353.008.140</b>	<b>8353.008.040</b>
10	40	67	8x20	2	<b>8353.010.140</b>	<b>8353.010.040</b>
12	40	67	8x20	2	<b>8353.012.140</b>	<b>8353.012.040</b>

**Schaft  $\varnothing$  10mm**  
**Shank  $\varnothing$  10mm**
**MAN****HW**

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
5	27	57,5	10x27	2	<b>8353.005.127</b>	<b>8353.005.027</b>
6	27	57,5	10x27	2	<b>8353.006.127</b>	<b>8353.006.027</b>
7	27	57,5	10x27	2	<b>8353.007.127</b>	<b>8353.007.027</b>
8	27	57,5	10x27	2	<b>8353.008.127</b>	<b>8353.008.027</b>
10	27	57,5	10x27	2	<b>8353.010.127</b>	<b>8353.010.027</b>
12	27	57,5	10x27	2	<b>8353.012.127</b>	<b>8353.012.027</b>
5	35	70	10x30	2	<b>8353.005.135</b>	<b>8353.005.035</b>
6	35	70	10x30	2	<b>8353.006.135</b>	<b>8353.006.035</b>
7	35	70	10x30	2	<b>8353.007.135</b>	<b>8353.007.035</b>
8	35	70	10x30	2	<b>8353.008.135</b>	<b>8353.008.035</b>
10	35	70	10x30	2	<b>8353.010.135</b>	<b>8353.010.035</b>
12	35	70	10x30	2	<b>8353.012.135</b>	<b>8353.012.035</b>
5	44	77	10x30	2	<b>8353.005.144</b>	<b>8353.005.044</b>
6	44	77	10x30	2	<b>8353.006.144</b>	<b>8353.006.044</b>
7	44	77	10x30	2	<b>8353.007.144</b>	<b>8353.007.044</b>
8	44	77	10x30	2	<b>8353.008.144</b>	<b>8353.008.044</b>
10	44	77	10x30	2	<b>8353.010.144</b>	<b>8353.010.044</b>
12	44	77	10x30	2	<b>8353.012.144</b>	<b>8353.012.044</b>
5	45	85	10x35	2	<b>8353.005.148</b>	<b>8353.005.048</b>
6	45	85	10x35	2	<b>8353.006.148</b>	<b>8353.006.048</b>
8	45	85	10x35	2	<b>8353.008.148</b>	<b>8353.008.048</b>
10	45	85	10x35	2	<b>8353.010.148</b>	<b>8353.010.048</b>
12	45	85	10x35	2	<b>8353.012.148</b>	<b>8353.012.048</b>
5	65	115	10x35	2	<b>8353.005.165</b>	<b>8353.005.065</b>
6	65	115	10x35	2	<b>8353.006.165</b>	<b>8353.006.065</b>
8	65	115	10x35	2	<b>8353.008.165</b>	<b>8353.008.065</b>
10	65	115	10x35	2	<b>8353.010.165</b>	<b>8353.010.065</b>
12	65	115	10x35	2	<b>8353.012.165</b>	<b>8353.012.065</b>

- Zum Bohren ausrissfreier Durchgangslöcher. Gefaster Dachformanschliff für bestmögliche Lochrandqualität auf der Austrittsseite.
- *For drilling of tear-free through holes. Bevelled V-point ground for maximum quality on hole exit side.*

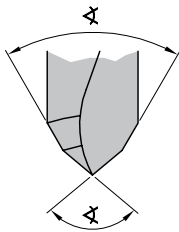
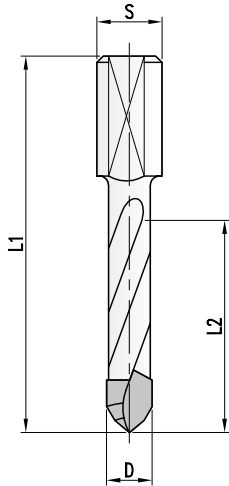

**Schaft  $\varnothing$  10mm mit Rückenführung**  
*Shank  $\varnothing$  10mm with back guide*
**MAN****HW**

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
5	27	57,5	10x20	2	<b>8353.105.127</b>	<b>8353.105.027</b>
6	27	57,5	10x20	2	<b>8353.106.127</b>	<b>8353.106.027</b>
7	27	57,5	10x20	2	<b>8353.107.127</b>	<b>8353.107.027</b>
8	27	57,5	10x20	2	<b>8353.108.127</b>	<b>8353.108.027</b>
10	27	57,5	10x20	2	<b>8353.110.127</b>	<b>8353.110.027</b>
12	27	57,5	10x20	2	<b>8353.112.127</b>	<b>8353.112.027</b>
5	35	70	10x20	2	<b>8353.105.135</b>	<b>8353.105.035</b>
6	35	70	10x20	2	<b>8353.106.135</b>	<b>8353.106.035</b>
7	35	70	10x20	2	<b>8353.107.135</b>	<b>8353.107.035</b>
8	35	70	10x20	2	<b>8353.108.135</b>	<b>8353.108.035</b>
10	35	70	10x20	2	<b>8353.110.135</b>	<b>8353.110.035</b>
12	35	70	10x20	2	<b>8353.112.135</b>	<b>8353.112.035</b>

- Zum Bohren ausrissfreier Durchgangslöcher. Gefaster Dachformanschliff für bestmögliche Lochrandqualität auf der Austrittseite. Kombinierbar mit Aufstecksenker.
- *For drilling of tear-free through holes. Bevelled V-point ground for maximum quality on hole exit side. Can be combined with loose countersink.*

**Ersatzteile**  
*Spare parts*

	Dim.	Art. Nr.
Einstellschraube - <i>Adjusting Screw</i>	M5x10	<b>705.103</b>
SS-Einstellschraube - <i>SS-Adjusting Screw</i>	M5x17	<b>705.180</b>

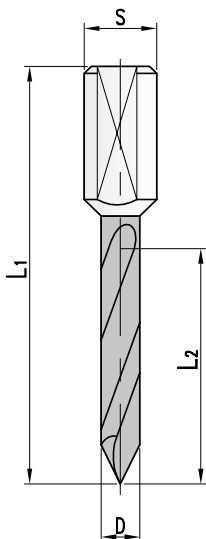

**Schaft  $\varnothing$  10mm**  
*Shank  $\varnothing$  10mm*
**MAN****HW**

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
5	33	57,5	10x27	2	<b>8333.005.133</b>	<b>8333.005.033</b>
6	33	57,5	10x27	2	<b>8333.006.133</b>	<b>8333.006.033</b>
8	33	57,5	10x27	2	<b>8333.008.133</b>	<b>8333.008.033</b>
10	33	57,5	10x27	2	<b>8333.010.133</b>	<b>8333.010.033</b>
12	33	57,5	10x27	2	<b>8333.012.133</b>	<b>8333.012.033</b>
5	35	70	10x30	2	<b>8333.005.135</b>	<b>8333.005.035</b>
6	35	70	10x30	2	<b>8333.006.135</b>	<b>8333.006.035</b>
8	35	70	10x30	2	<b>8333.008.135</b>	<b>8333.008.035</b>
10	35	70	10x30	2	<b>8333.010.135</b>	<b>8333.010.035</b>
12	35	70	10x30	2	<b>8333.012.135</b>	<b>8333.012.035</b>

- Zum Bohren ausrissfreier Durchgangslöcher. Gefaster Dachformanschliff für bestmögliche Lochrandqualität auf der Austrittsseite. Doppelfase-Anschliff für verbesserte Lochrandqualität beim Bohren spröder Deckschichten. Hohe Standzeiten durch Micrograin-HM Bestückung.
- *For drilling of tear-free through holes. Bevelled V-point ground for maximum quality on hole exit side. Double bevelled inverted V-point ground for better finishing of fragil coated materials. Increased tool life with micrograin TC head.*

**Ersatzteile**  
*Spare parts*

	Dim.	Art. Nr.
Einstellschraube - <i>Adjusting Screw</i>	M5x10	<b>705.103</b>
SS-Einstellschraube - <i>SS-Adjusting Screw</i>	M5x17	<b>705.180</b>

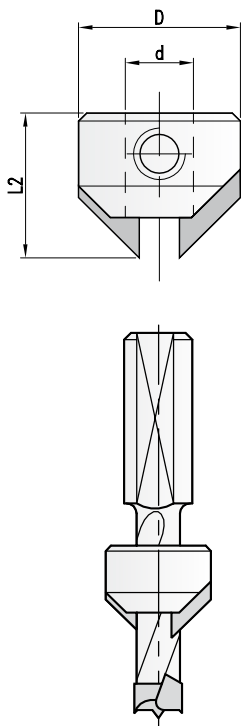

**Schaft  $\varnothing$  10mm**  
*Shank  $\varnothing$  10mm*
**MAN****HW**

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
3	27	57,5	10x24	2	<b>6383.003.127</b>	<b>6383.003.027</b>
4	27	57,5	10x24	2	<b>6383.004.127</b>	<b>6383.004.027</b>
5	27	57,5	10x24	2	<b>6383.005.027</b>	<b>6383.005.027</b>
6	27	57,5	10x24	2	<b>6383.006.127</b>	<b>6383.006.027</b>
8	27	57,5	10x24	2	<b>6383.008.127</b>	<b>6383.008.027</b>
10	27	57,5	10x24	2	<b>6383.010.127</b>	<b>6383.010.027</b>
4	35	70	10x24	2	<b>6383.004.135</b>	<b>6383.004.035</b>
5	35	70	10x24	2	<b>6383.005.135</b>	<b>6383.005.035</b>
6	35	70	10x24	2	<b>6383.006.135</b>	<b>6383.006.035</b>
8	35	70	10x24	2	<b>6383.008.135</b>	<b>6383.008.035</b>
10	35	70	10x24	2	<b>6383.010.135</b>	<b>6383.010.035</b>

- Zum Bohren ausrissfreier Durchgangslöcher. Gefaster Dachformanschliff für bestmögliche Lochrandqualität auf der Austrittsseite.
- *For drilling of tear-free through holes. Bevelled V-point ground for maximum quality on hole exit side.*

**Ersatzteile**  
*Spare parts*

	Dim.	Art. Nr.
Einstellschraube - <i>Adjusting Screw</i>	M5x10	<b>705.103</b>
SS-Einstellschraube - <i>SS-Adjusting Screw</i>	M5x17	<b>705.180</b>

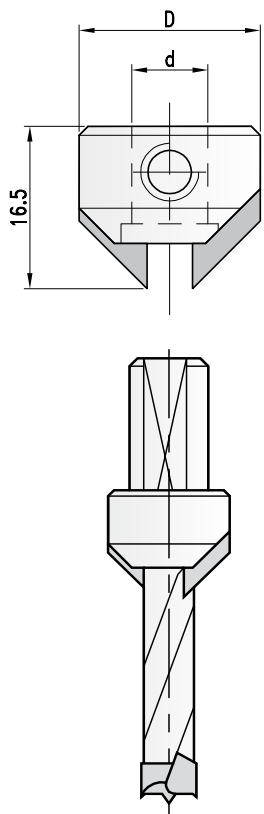
**8850****HW Aufstecksenker 45° - Festbestückt**  
*TC Loose countersink 45° - Tipped***PG**  
**02****Für Bohrer mit Rückenführung**  
*For drills with back-guide***MAN****HW**

D	L2	S	Z	Art. Nr. LH	Art. Nr. RH
4	16	16,5	2	<b>8850.016.104</b>	<b>8850.016.004</b>
5	16	16,5	2	<b>8850.016.105</b>	<b>8850.016.005</b>
6	16	16,5	2	<b>8850.016.106</b>	<b>8850.016.006</b>
7	16	16,5	2	<b>8850.016.107</b>	<b>8850.016.007</b>
8	18	16,5	2	<b>8850.018.108</b>	<b>8850.018.008</b>
9	18	16,5	2	<b>8850.018.109</b>	<b>8850.018.009</b>
10	20	16,5	2	<b>8850.020.110</b>	<b>8850.020.010</b>
11	20	16,5	2	<b>8850.020.111</b>	<b>8850.020.011</b>
12	20	16,5	2	<b>8850.020.113</b>	<b>8850.020.012</b>

- Zur Befestigung an der Spirale am Bohrer mit Rückenführung
- *To clamp onto the spiral at drills with back-guide*

**Ersatzteile**  
*Spare parts*

	Dim.	Art. Nr.
Gewindestift - <i>Screw</i>	M5x5	<b>705.102</b>
Sechskantschlüssel - <i>Wrench</i>	SW2,5	<b>706.152</b>

**8870****HW Aufstecksenker 45° - Festbestückt**  
*TC Loose countersink 45° - Tipped***PG**  
**02****Für Befestigung am Schaft**  
*To clamp on shank***MAN****HW**

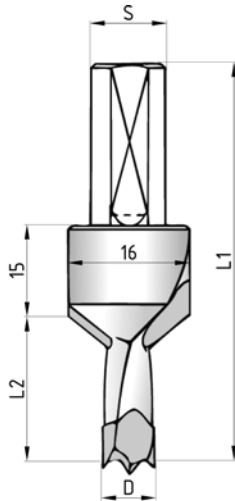
D	L2	∅	Z	Art. Nr. LH	Art. Nr. RH
10	20	16,5	5-10	<b>8870.020.110</b>	<b>8870.020.010</b>
10	22	16,5	11-12	<b>8870.022.110</b>	<b>8870.022.010</b>

- Zur Befestigung am Schaft
- ∅ - für Bohrer-Nenndurchmesser
- *Clamping on shank*
- ∅ - for boring bit diameter

**Ersatzteile**  
*Spare parts*

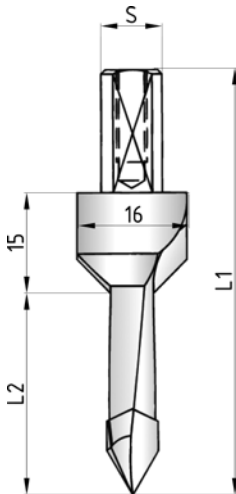
	Dim.	Art. Nr.
Gewindestift - <i>Screw</i>	M5x5	<b>705.102</b>
Sechskantschlüssel - <i>Wrench</i>	SW2,5	<b>706.152</b>



**8235**
**HW Bohrsenker für Sacklöcher - Festbestückt**  
*TC doweldrill with countersink - Tipped*
**PG**  
**02**

**Schaft  $\varnothing$  10mm**  
 Shank  $\varnothing$  10mm
**MAN****HW**

D	L2	L1	S	Art. Nr.
5	20	70	10	8235.005.020
5	25	70	10	8235.005.025
5	30	70	10	8235.005.030
6	20	70	10	8235.006.020
6	25	70	10	8235.006.025
6	30	70	10	8235.006.030
8	20	70	10	8235.008.020
8	25	70	10	8235.008.025
8	30	70	10	8235.008.030
10	20	70	10	8235.010.020
10	25	70	10	8235.010.025
10	30	70	10	8235.010.030
12	20	70	10	8235.012.020
12	25	70	10	8235.012.025
12	30	70	10	8235.012.030
14	20	70	10	8235.014.020
14	25	70	10	8235.014.025
14	30	70	10	8235.014.030
16	20	70	10	8235.016.020
16	25	70	10	8235.016.025
16	30	70	10	8235.016.030

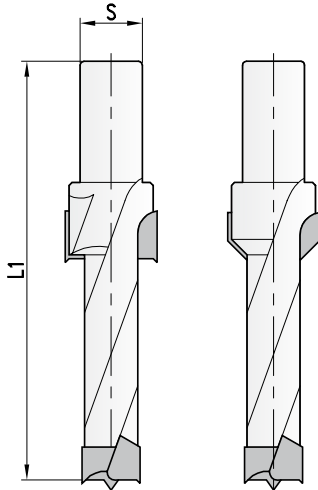
- Zum Bohren von Sacklöchern bei gleichzeitigem Ansenken des Lochrands. Einteilige Ausführung.
- *For drilling dowel holes and countersinking in one step. One-piece version.*

**8275**
**HW Bohrsenker für Durchgangslöcher**  
*TC through-hole drill with countersink*
**PG**  
**02**

**Schaft  $\varnothing$  10mm**  
 Shank  $\varnothing$  10mm
**MAN****HW**

D	L2	L1	S	Art. Nr.
5	20	70	10	8275.005.020
5	25	70	10	8275.005.025
5	30	70	10	8275.005.030
6	20	70	10	8275.006.020
6	25	70	10	8275.006.025
6	30	70	10	8275.006.030
8	20	70	10	8275.008.020
8	25	70	10	8275.008.025
8	30	70	10	8275.008.030
10	20	70	10	8275.010.020
10	25	70	10	8275.010.025
10	30	70	10	8275.010.030
12	20	70	10	8275.012.020
12	25	70	10	8275.012.025
12	30	70	10	8275.012.030
14	20	70	10	8275.014.020
14	25	70	10	8275.014.025
14	30	70	10	8275.014.030
16	20	70	10	8275.016.020
16	25	70	10	8275.016.025
16	30	70	10	8275.016.030

- Zum Durchbohren bei gleichzeitigem Ansenken des Lochrands. Einteilige Ausführung.
- *For through hole drilling and countersinking in one step. One-piece version.*





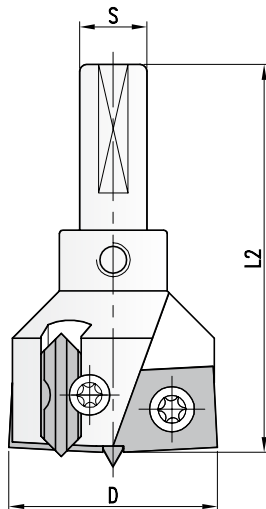
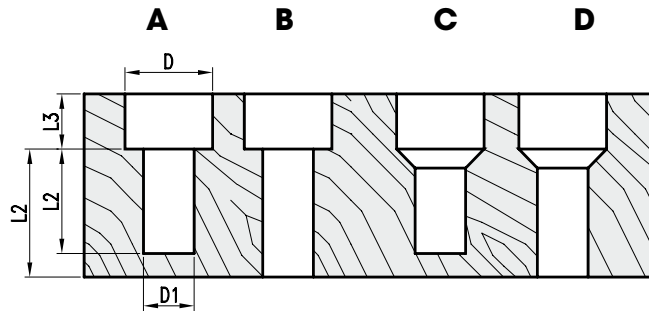
Sonderanfertigung  
Special design

MAN HW/HS

D	L1	S	Art. Nr.
3-30	50-130	•	8113.003.050

- Auf Anfrage
- Bestellangaben: Ausführung (A-D), Maßangaben, gewünschter Schneidstoff
- Under request
- When ordering please state rotation, different dimensions according to the drawing and type of work.

Ausführung der Stufenbohrung - Type of work



Z=2 V=2 Schaft Ø 10  
Z=2 V=2 Shank Ø 10

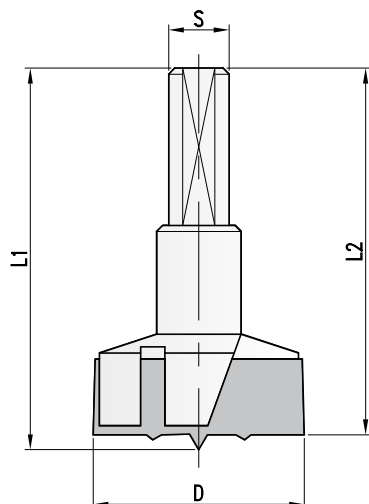
MAN HW

D	L2	L1	S	Z	V	Art. Nr. LH	Art. Nr. RH
25	55,5	57,5	10x26	2	2	4163.025.158	4163.025.058
26	55,5	57,5	10x26	2	2	4163.026.158	4163.026.058
30	55,5	57,5	10x26	2	2	4163.030.158	4163.030.058
35	55,5	57,5	10x26	2	2	4163.035.158	4163.035.058
25	55,5	70	10x26	2	2	4163.025.170	4163.025.070
26	55,5	70	10x26	2	2	4163.026.170	4163.026.070
30	55,5	70	10x26	2	2	4163.030.170	4163.030.070
35	55,5	70	10x26	2	2	4162.035.170	4163.035.070

- Zum Bohren von Beschlag- und Topfbandbohrungen. Vorschneider, Räumer und Zentrierspitze als Wechselsmesser ausgeführt.
- For drilling hinge holes. Spurs, raker and center point replaceable.

Ersatzteile  
Spare parts

	D	Dim.	Art. Nr.
Wechselsmesser - Reversible knife	25	10,5x12x1,5	750.200
	26	11x12x1,5	750.209
	30	13x12x1,5	750.202
	35	15,7x12x1,5	750.203
Schraube - Screw		M3,5x5	705.352
		M3,5x6,5	705.350
Vorschneider - Spur		18x6x3,5	795.102
Schraube - Screw		M3,5x6	705.312.06
Zentrierspitze - Center point		ø3x33,5	795.101
Gewindestift - Screw		M6x6	705.583
Einstellschraube - Adjusting Screw		M5x10	705.103
Sechskantschlüssel - T Wrench		SW3	706.153
Torx Schlüssel - Torx wrench		T15	706.302



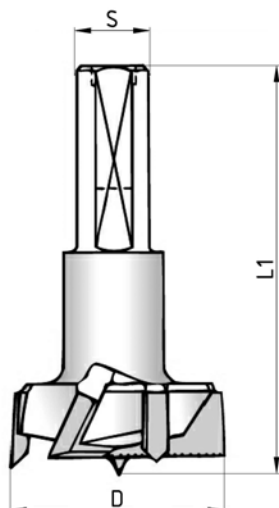
- Zum Bohren von Beschlag- und Topfbandbohrungen. Ausführung mit zwei Räumern, zwei Vorschneidern und Zentrierspitze.
- *For drilling hinge holes. Version with two rakers, two spurs and center point.*

**Schaft  $\varnothing$  10mm**  
*Shank  $\varnothing$  10mm*
**MAN****HW**

D	L2	L1	S	Z	V	Art. Nr. LH	Art. Nr. RH
8	55,5	57,5	10x26	2	2	<b>8163.008.156</b>	<b>8163.008.056</b>
10	55,5	57,5	10x26	2	2	<b>8163.010.156</b>	<b>8163.010.056</b>
12	55,5	57,5	10x26	2	2	<b>8163.012.156</b>	<b>8163.012.056</b>
15	55,5	57,5	10x26	2	2	<b>8163.015.156</b>	<b>8163.015.056</b>
16	55,5	57,5	10x26	2	2	<b>8163.016.156</b>	<b>8163.016.056</b>
17	55,5	57,5	10x26	2	2	<b>8163.017.156</b>	<b>8163.017.056</b>
18	55,5	57,5	10x26	2	2	<b>8163.018.156</b>	<b>8163.018.056</b>
19	55,5	57,5	10x26	2	2	<b>8163.019.156</b>	<b>8163.019.056</b>
20	55,5	57,5	10x26	2	2	<b>8163.020.156</b>	<b>8163.020.056</b>
22	55,5	57,5	10x26	2	2	<b>8163.022.156</b>	<b>8163.022.056</b>
23	55,5	57,5	10x26	2	2	<b>8163.023.156</b>	<b>8163.023.056</b>
24	55,5	57,5	10x26	2	2	<b>8163.024.156</b>	<b>8163.024.056</b>
25	55,5	57,5	10x26	2	2	<b>8163.025.156</b>	<b>8163.025.056</b>
26	55,5	57,5	10x26	2	2	<b>8163.026.156</b>	<b>8163.026.056</b>
28	55,5	57,5	10x26	2	2	<b>8163.028.156</b>	<b>8163.028.056</b>
30	55,5	57,5	10x26	2	2	<b>8163.030.156</b>	<b>8163.030.056</b>
32	55,5	57,5	10x26	2	2	<b>8163.032.156</b>	<b>8163.032.056</b>
35	55,5	57,5	10x26	2	2	<b>8163.035.156</b>	<b>8163.035.056</b>
38	55,5	57,5	10x26	2	2	<b>8163.038.156</b>	<b>8163.038.056</b>
40	55,5	57,5	10x26	2	2	<b>8163.040.156</b>	<b>8163.040.056</b>
42	55,5	57,5	10x26	2	2	<b>8163.042.156</b>	<b>8163.042.056</b>
50	55,5	57,5	10x26	2	2	<b>8163.050.156</b>	<b>8163.050.056</b>
60	55,5	57,5	10x26	2	2	<b>8163.060.156</b>	<b>8163.060.056</b>
15	68,0	70	10x40	2	2	<b>8163.015.168</b>	<b>8163.015.068</b>
16	68,0	70	10x40	2	2	<b>8163.016.168</b>	<b>8163.016.068</b>
18	68,0	70	10x40	2	2	<b>8163.018.168</b>	<b>8163.018.068</b>
20	68,0	70	10x40	2	2	<b>8163.020.168</b>	<b>8163.020.068</b>
22	68,0	70	10x40	2	2	<b>8163.022.168</b>	<b>8163.022.068</b>
24	68,0	70	10x40	2	2	<b>8163.024.168</b>	<b>8163.024.068</b>
25	68,0	70	10x40	2	2	<b>8163.025.168</b>	<b>8163.025.068</b>
26	68,0	70	10x40	2	2	<b>8163.026.168</b>	<b>8163.026.068</b>
28	68,0	70	10x40	2	2	<b>8163.028.168</b>	<b>8163.028.068</b>
30	68,0	70	10x40	2	2	<b>8163.030.168</b>	<b>8163.030.068</b>
35	68,0	70	10x40	2	2	<b>8163.035.168</b>	<b>8163.035.068</b>
40	68,0	70	10x40	2	2	<b>8163.040.168</b>	<b>8163.040.068</b>
50	68,0	70	10x40	2	2	<b>8163.050.168</b>	<b>8163.050.068</b>
60	68,0	70	10x40	2	2	<b>8163.060.168</b>	<b>8163.060.068</b>
15	75,0	77	10x40	2	2	<b>8163.015.175</b>	<b>8163.015.075</b>
16	75,0	77	10x40	2	2	<b>8163.016.175</b>	<b>8163.016.075</b>
18	75,0	77	10x40	2	2	<b>8163.018.175</b>	<b>8163.018.075</b>
20	75,0	77	10x40	2	2		<b>8163.020.075</b>
22	75,0	77	10x40	2	2	<b>8163.022.175</b>	<b>8163.022.075</b>
24	75,0	77	10x40	2	2	<b>8163.024.175</b>	<b>8163.024.075</b>
25	75,0	77	10x40	2	2	<b>8163.025.175</b>	<b>8163.025.075</b>
26	75,0	77	10x40	2	2	<b>8163.026.175</b>	<b>8163.026.075</b>
28	75,0	77	10x40	2	2	<b>8163.028.175</b>	<b>8163.028.075</b>
30	75,0	77	10x40	2	2	<b>8163.030.175</b>	<b>8163.030.075</b>
32	75,0	77	10x40	2	2	<b>8163.032.168</b>	<b>8163.032.068</b>
35	75,0	77	10x40	2	2	<b>8163.035.175</b>	<b>8163.035.075</b>
38	75,0	77	10x40	2	2	<b>8163.036.175</b>	<b>8163.036.075</b>
40	75,0	77	10x40	2	2	<b>8163.040.175</b>	<b>8163.040.075</b>

**Ersatzteile**  
*Spare parts*

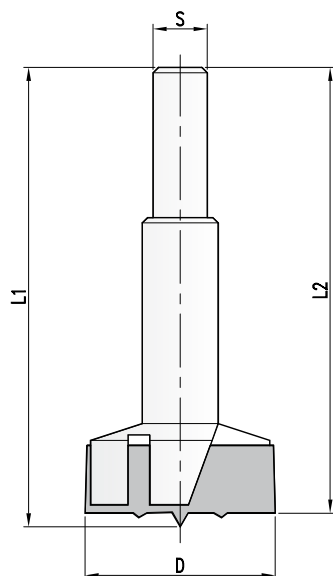
	Dim.	Art. Nr.
Einstellschraube - <i>Adjusting Screw</i>	M5x10	<b>705.103</b>
SS-Einstellschraube - <i>SS-Adjusting Screw</i>	M5x17	<b>705.180</b>


**Schaft  $\varnothing$  10**  
 Shank  $\varnothing$  10
**MAN****HW**

D	L2	L1	S	Z	V	Art. Nr. LH	Art. Nr. RH
15	55,5	57,5	10x26	2	2	<b>8263.015.156</b>	<b>8263.015.056</b>
16	55,5	57,5	10x26	2	2	<b>8263.016.156</b>	<b>8263.016.056</b>
18	55,5	57,5	10x26	2	2	<b>8263.018.156</b>	<b>8263.018.056</b>
20	55,5	57,5	10x26	2	2	<b>8263.020.156</b>	<b>8263.020.056</b>
22	55,5	57,5	10x26	2	2	<b>8263.022.156</b>	<b>8263.022.056</b>
24	55,5	57,5	10x26	2	2	<b>8263.024.156</b>	<b>8263.024.056</b>
25	55,5	57,5	10x26	2	2	<b>8263.025.156</b>	<b>8263.025.056</b>
26	55,5	57,5	10x26	2	2	<b>8263.026.156</b>	<b>8263.026.056</b>
28	55,5	57,5	10x26	2	2	<b>8263.028.156</b>	<b>8263.028.056</b>
30	55,5	57,5	10x26	2	2	<b>8263.030.156</b>	<b>8263.030.056</b>
32	55,5	57,5	10x26	2	2	<b>8263.032.156</b>	<b>8263.032.056</b>
35	55,5	57,5	10x26	2	2	<b>8263.035.156</b>	<b>8263.035.056</b>
38	55,5	57,5	10x26	2	2	<b>8263.038.156</b>	<b>8263.038.056</b>
40	55,5	57,5	10x26	2	2	<b>8263.040.156</b>	<b>8263.040.056</b>
50	55,5	57,5	10x26	2	2	<b>8263.050.156</b>	<b>8263.050.056</b>
60	55,5	57,5	10x26	2	2	<b>8263.060.156</b>	<b>8263.060.056</b>
15	68,8	70	10x40	2	2	<b>8263.015.168</b>	<b>8263.015.068</b>
16	68,8	70	10x40	2	2	<b>8236.016.168</b>	<b>8236.016.068</b>
18	68,8	70	10x40	2	2	<b>8236.018.168</b>	<b>8236.018.068</b>
20	68,8	70	10x40	2	2	<b>8236.020.168</b>	<b>8236.020.068</b>
22	68,8	70	10x40	2	2	<b>8236.022.168</b>	<b>8236.022.068</b>
24	68,8	70	10x40	2	2	<b>8236.024.168</b>	<b>8236.024.068</b>
25	68,8	70	10x40	2	2	<b>8236.025.168</b>	<b>8236.025.068</b>
26	68,8	70	10x40	2	2	<b>8236.026.168</b>	<b>8236.026.068</b>
28	68,8	70	10x40	2	2	<b>8236.028.168</b>	<b>8236.028.068</b>
30	68,8	70	10x40	2	2	<b>8236.030.168</b>	<b>8236.030.068</b>
32	68,8	70	10x40	2	2	<b>8236.032.168</b>	<b>8236.032.068</b>
35	68,8	70	10x40	2	2	<b>8236.035.168</b>	<b>8236.035.068</b>
38	68,8	70	10x40	2	2	<b>8236.038.168</b>	<b>8236.038.068</b>
40	68,8	70	10x40	2	2	<b>8236.040.168</b>	<b>8236.040.068</b>

- Zum Bohren von Beschlag- und Topfbandbohrungen. Ausführungen mit zwei Räumern, zwei Vorschneidern und Zentrierspitze. Räumern mit Spanbrechernuten geschliffen für verbesserte Spanabfuhr und verringerte Vorspaltung.
- *For drilling hinge holes. Version with two rakers, two spurs and center point. Rakers ground with chip-breakers for better chipremovement and better finishing.*





- Lange Ausführung  
Ohne Spannfläche und Einstellschraube
- Long type  
Without clamping flat and adjusting screw

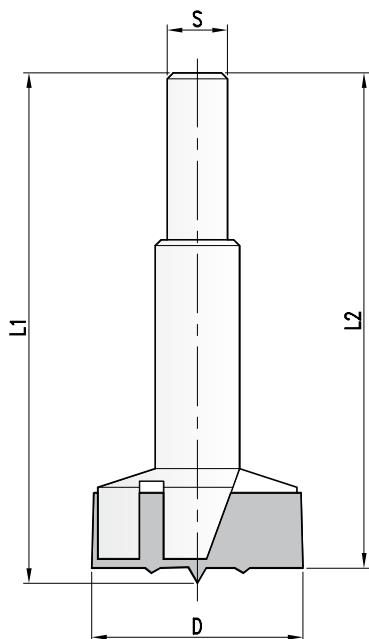
Schaft  $\varnothing$  10, 13, 16, 20 mm  
Shank  $\varnothing$  10, 13, 16, 20 mm

**MAN**

**HW**

D	L2	L1	S	Z	V	Art. Nr. RH
8	90	92	10x30	2	2	8163.008.090
9	90	92	10x30	2	2	8163.009.090
10	90	92	10x30	2	2	8163.010.090
11	90	92	10x30	2	2	8163.011.090
12	90	92	10x30	2	2	8163.012.090
13	90	92	10x30	2	2	8163.013.090
14	90	92	10x30	2	2	8163.014.090
15	90	92	10x30	2	2	8163.015.090
16	90	92	10x30	2	2	8163.016.090
17	90	92	10x30	2	2	8163.017.090
18	90	92	10x30	2	2	8163.018.090
19	90	92	10x30	2	2	8163.019.090
20	90	92	10x30	2	2	8163.020.090
21	90	92	10x30	2	2	8163.021.090
22	90	92	10x30	2	2	8163.022.090
23	90	92	10x30	2	2	8163.023.090
24	90	92	10x30	2	2	8163.024.090
25	90	92	10x30	2	2	8163.025.090
26	90	92	10x30	2	2	8163.026.090
27	90	92	10x30	2	2	8163.027.090
28	90	92	10x30	2	2	8163.028.090
29	90	92	10x30	2	2	8163.029.090
30	90	92	10x30	2	2	8163.030.090
31	90	92	10x30	2	2	8163.031.090
32	90	92	10x30	2	2	8163.032.090
33	90	92	10x30	2	2	8163.033.090
34	90	92	10x30	2	2	8163.034.090
35	90	92	10x30	2	2	8163.035.090
36	90	92	10x30	2	2	8163.036.090
37	90	92	10x30	2	2	8163.037.090
38	90	92	10x30	2	2	8163.038.090
39	90	92	10x30	2	2	8163.039.090
40	90	92	10x30	2	2	8163.040.090
41	90	92	10x30	2	2	8163.041.090
42	90	92	10x30	2	2	8163.042.090
43	90	92	10x30	2	2	8163.043.090
44	90	92	10x30	2	2	8163.044.090
45	90	92	10x30	2	2	8163.045.090
46	90	92	10x30	2	2	8163.046.090
47	90	92	10x30	2	2	8163.047.090
48	90	92	10x30	2	2	8163.048.090
49	90	92	10x30	2	2	8163.049.090
50	90	92	10x30	2	2	8163.050.090
51	90	92	10x30	2	2	8163.051.090
52	90	92	10x30	2	2	8163.052.090
53	90	92	10x30	2	2	8163.053.090
54	90	92	10x30	2	2	8163.054.090
55	90	92	10x30	2	2	8163.055.090
56	90	92	10x30	2	2	8163.056.090
57	90	92	10x30	2	2	8163.057.090
58	90	92	10x30	2	2	8163.058.090
59	90	92	10x30	2	2	8163.059.090
60	90	92	10x30	2	2	8163.060.090
50	120	122	16x50	2	2	8165.050.120
55	120	122	16x50	2	2	8165.055.120
60	120	122	16x50	2	2	8165.060.120

- Zum Bohren von Beschlag- und Topfbandbohrungen. Ausführung mit zwei Räumern, zwei Vorschneidern und Zentrierspitze.
- For drilling hinge holes. Version with two rakers, two spurs and center point.

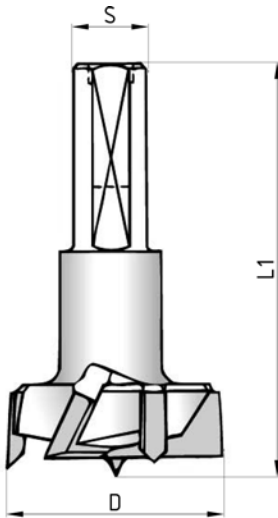


- Lange Ausführung
- Ohne Spannfläche und Einstellschraube
- *Long type*
- *Without clamping flat and adjusting screw*

**Schaft Ø 13, 16, 20 mm**  
*Shank Ø 13, 16, 20 mm*
**MAN****HW**

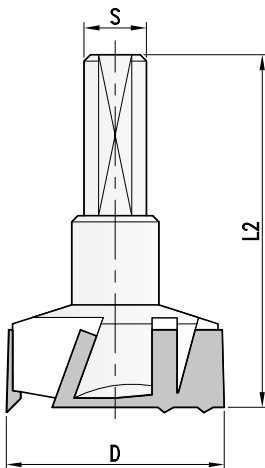
D	L2	L1	S	Z	V	Art. Nr. RH
10	138	140	13x50	2	2	<b>8165.010.138</b>
12	138	140	13x50	2	2	<b>8165.012.138</b>
14	138	140	13x50	2	2	<b>8165.014.138</b>
15	138	140	13x50	2	2	<b>8165.015.138</b>
16	138	140	13x50	2	2	<b>8165.016.138</b>
18	138	140	13x50	2	2	<b>8165.018.138</b>
20	138	140	13x50	2	2	<b>8165.020.138</b>
22	138	140	13x50	2	2	<b>8165.022.138</b>
24	138	140	13x50	2	2	<b>8165.024.138</b>
25	138	140	13x50	2	2	<b>8165.025.138</b>
26	138	140	13x50	2	2	<b>8165.026.138</b>
28	138	140	13x50	2	2	<b>8165.028.138</b>
30	138	140	13x50	2	2	<b>8165.030.138</b>
32	138	140	16x50	2	2	<b>8165.032.138</b>
34	138	140	16x50	2	2	<b>8165.034.138</b>
35	138	140	16x50	2	2	<b>8165.035.138</b>
36	138	140	16x50	2	2	<b>8165.036.138</b>
38	138	140	16x50	2	2	<b>8165.038.138</b>
40	138	140	16x50	2	2	<b>8165.040.138</b>
42	138	140	16x50	2	2	<b>8165.042.138</b>
44	138	140	16x50	2	2	<b>8165.044.138</b>
45	138	140	16x50	2	2	<b>8165.045.138</b>
46	138	140	16x50	2	2	<b>8165.046.138</b>
48	138	140	16x50	2	2	<b>8165.048.138</b>
50	138	140	16x50	2	2	<b>8165.050.138</b>
52	138	140	16x50	2	2	<b>8165.052.138</b>
54	138	140	16x50	2	2	<b>8165.054.138</b>
55	138	140	16x50	2	2	<b>8165.055.138</b>
56	138	140	16x50	2	2	<b>8165.056.138</b>
58	138	140	16x50	2	2	<b>8165.058.138</b>
60	138	140	16x50	2	2	<b>8165.060.138</b>
62	138	140	16x50	2	2	<b>8165.062.138</b>
63	138	140	16x50	2	2	<b>8165.063.138</b>
64	138	140	16x50	2	2	<b>8165.064.138</b>
65	138	140	16x50	2	2	<b>8165.065.138</b>
68	138	140	16x50	2	2	<b>8165.068.138</b>
70	138	140	16x50	2	2	<b>8165.070.138</b>
72	138	140	20x50	2	2	<b>8165.072.138</b>
75	138	140	20x50	2	2	<b>8165.075.138</b>
78	138	140	20x50	2	2	<b>8165.078.138</b>
80	138	140	20x50	2	2	<b>8165.080.138</b>
85	138	140	20x50	2	2	<b>8165.085.138</b>
90	138	140	20x50	2	2	<b>8165.090.138</b>
95	138	140	20x50	2	2	<b>8165.095.138</b>
100	138	140	20x50	2	2	<b>8165.100.138</b>
105	138	140	20x50	2	2	<b>8165.105.138</b>
110	138	140	20x50	2	2	<b>8165.110.138</b>
115	138	140	20x50	2	2	<b>8165.115.138</b>
120	138	140	20x50	2	2	<b>8165.120.138</b>
130	138	140	20x50	2	2	<b>8165.130.138</b>
140	138	140	20x50	2	2	<b>8165.140.138</b>

- Zum Bohren von Beschlag- und Topfbandbohrungen. Ausführung mit zwei Vorschneidern und Zentrierspitze.
- *For drilling hinge holes. Version with two rakers, two spurs and center point.*

**8173****HW Zylinderkopfbohrer Z3+V3 - Festbestückt**  
TC Hinge boring bit Z3+V3 - Tipped**PG**  
**02****Schaft Ø 10**  
Shank Ø 10**MAN****HW**

D	L2	L1	S	Z	V	Art. Nr. LH	Art. Nr. RH
18	55,5	57,5	10x26	3	3	<b>8173.018.156</b>	<b>8173.018.056</b>
20	55,5	57,5	10x26	3	3	<b>8173.020.156</b>	<b>8173.020.056</b>
25	55,5	57,5	10x26	3	3	<b>8173.025.156</b>	<b>8173.025.056</b>
26	55,5	57,5	10x26	3	3	<b>8173.026.156</b>	<b>8173.026.056</b>
30	55,5	57,5	10x26	3	3	<b>8173.030.156</b>	<b>8173.030.056</b>
35	55,5	57,5	10x26	3	3	<b>8173.035.156</b>	<b>8173.035.056</b>
38	55,5	57,5	10x26	3	3	<b>8173.038.156</b>	<b>8173.038.056</b>
40	55,5	57,5	10x26	3	3	<b>8173.040.156</b>	<b>8173.040.056</b>
50	55,5	57,5	10x26	3	3	<b>8173.050.156</b>	<b>8173.050.056</b>

- Zum Bohren von Beschlag- und Topfbandbohrungen. Ausführung mit drei Räumern, drei Vorschneidern und Zentrierspitze.
- 3-Schneider für erhöhte Bohrleistung.
- *For drilling hinge holes. Version with three rakers, three spurs and center point.*
- *3-lipped for higher drill performance.*

**8183****HW Zylinderkopfbohrer, verkürzte Zentrierspitze - Festbestückt**  
TC Hinge boring bit, reduced centering point - Tipped**PG**  
**02****Schaft Ø 10**  
Shank Ø 10**MAN****HW**

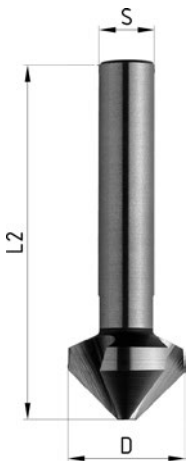
D	L2	S	Z	V	Art. Nr. LH	Art. Nr. RH
25	55,5	10x26	3	3	<b>8183.025.156</b>	<b>8183.025.056</b>
30	55,5	10x26	3	3	<b>8183.030.156</b>	<b>8183.030.056</b>
35	55,5	10x26	3	3	<b>8183.035.156</b>	<b>8183.035.056</b>

- Zum Bohren von Beschlag- und Topfbandbohrungen, Ausführung mit drei Räumern, drei Vorschneidern mit verkürzter Zentrierspitze.
- *For drilling hinge holes. Version with three rakers, three spurs with reduced center point.*

**Ersatzteile**  
Spare parts

	Dim.	Art. Nr.
Einstellschraube - Adjusting Screw	M5x10	<b>705.103</b>
SS-Einstellschraube - SS-Adjusting Screw	M5x17	<b>705.180</b>



**3479****HSS-Senker - Massiv**  
*HSS-Counter sinks - Solid***PG  
02****HSS-Senker**  
*HSS-countersinks***MAN****HW**

D	L2	S	Z	Art. Nr.
12,4	56	8	3	<b>3479.012.056</b>
16,5	60	10	3	<b>3479.017.060</b>
20,5	63	10	3	<b>3479.021.063</b>
25	67	10	3	<b>3479.025.067</b>
30	71	12	3	<b>3479.030.071</b>
40	71	12	3	<b>3479.040.071</b>

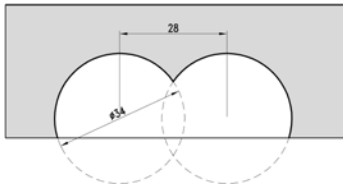
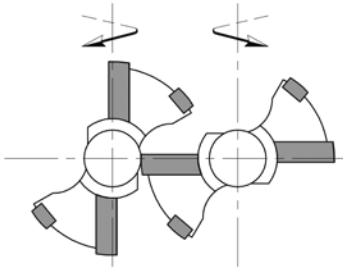
- Zum nachträglichen Ansenken von Bohrungen. Senker 90°, Z=3
- *For countersinking bores, Countersink 90°, Z=3*

**3459****HSS-Querlochsinker - Massiv**  
*HSS-Crosshole sinks - Solid***PG  
02****HSS Senker**  
*HSS Countersinks***MAN****HW**

D	L2	S	Z	Art. Nr.
21	65	10	1	<b>3459.021.065</b>
27,5	85	12	1	<b>3459.028.085</b>
35	102	15	1	<b>3459.035.102</b>

- Zum nachträglichen Ansenken von Bohrungen. Querlochsinker für sauberes und ratterfreies Schnittbild. Insbesondere für harte Werkstoffe wie HPL und NE-Metalle.
- *For countersinking bores. Crosshole sinker for clean and chatter free cut-appearance. Specially for hardmaterials like HPL and NE metals.*

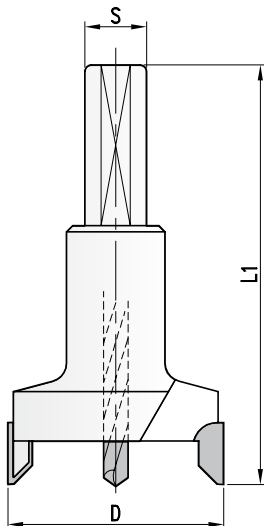


**8273****HW Doppel Topfbandbohrer, System MACO TREND - Festbestückt**  
*TC Double head hinge boring bit, system MACO TREND - Tipped***PG  
02****Schaft  $\varnothing$  10 mm für L-R-Betrieb mit Lochabstand 28mm**  
*Shank  $\varnothing$  10 mm for L-R-drilling with holedistance 28mm***MAN****HW**

D	L2	L1	S	V	Art. Nr. LH	Art. Nr. RH
34	57,5	10x26	2	2	<b>8273.034.158</b>	<b>8273.034.058</b>

- Zum Bohren von Doppelbeschlag- und Topfbandbohrungen.
- Ausführung mit zwei Räumern, zwei Vorschneidern und Zentrierspitze.
- Zum Einbauen von Doppel-Topfbandbeschlägen und Scherenlagern DT.
- Mit Spannfläche und Einstellschraube

- *For drilling double hinge holes. Version with two rakers, two spurs and center point.*
- *For boring of double head hinges in window constructions.*
- *With clamping flat and adjustment screw.*

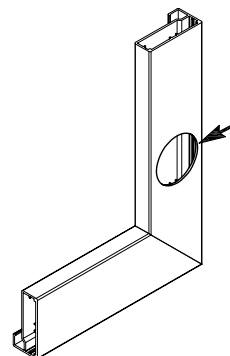
**8193****HW Zylinderkopfbohrer für Aluminiumprofile - Festbestückt**  
*TC Hinge boring bit for aluminium profiles - Tipped***PG  
02****Schaft  $\varnothing$  10**  
*Shank  $\varnothing$  10***MAN****HW**

D	L2	S	Z	Art. Nr.
26	70	10x26	2	<b>8193.026.070</b>
35	70	10x26	2	<b>8193.035.070</b>

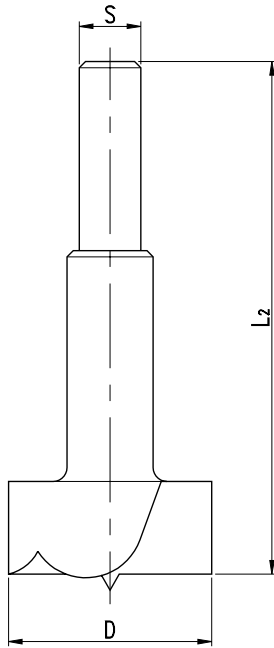
- Zum Bohren von Beschlagbohrungen in Aluminiumprofile. Ausführung mit drei Vorschneidern.
- *For drilling hinge holes into aluminiumprofiles. Version with three spurs.*

**Ersatzteile**  
*Spare parts*

	Dim.	Art. Nr.
Einstellschraube - <i>Adjusting screw</i>	M5x10	<b>705.103</b>
Zentrierschraube - <i>Center point</i>		<b>A201.004.130.04</b>
Gewindestift - <i>Screw</i>	M5x5	<b>705.102</b>



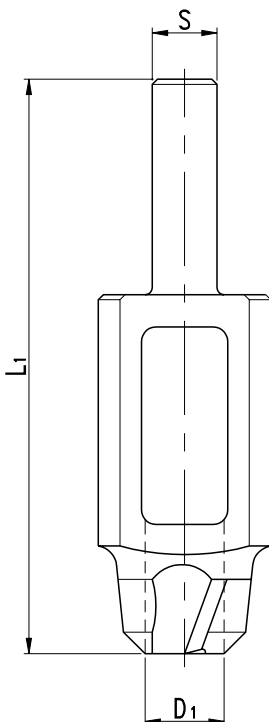


**3465****SP Forstnerbohrer - Massiv**  
*Sp Forstner bit - Solid***PG  
02****Schaft  $\varnothing$  13, 16 mm**  
*Shank  $\varnothing$  13, 16 mm***MAN****SP**

D	L2	S	Z	V	Art. Nr.
10	92	8x28	2	2	<b>3465.010.092</b>
12	92	8x28	2	2	<b>3465.012.092</b>
14	92	8x28	2	2	<b>3465.014.092</b>
15	92	8x28	2	2	<b>3465.015.092</b>
16	92	8x28	2	2	<b>3465.016.092</b>
18	92	8x28	2	2	<b>3465.018.092</b>
20	92	8x28	2	2	<b>3465.020.092</b>
22	92	8x28	2	2	<b>3465.022.092</b>
24	92	8x28	2	2	<b>3465.024.092</b>
25	92	8x28	2	2	<b>3465.025.092</b>
26	92	8x28	2	2	<b>3465.026.092</b>
28	92	8x28	2	2	<b>3465.028.092</b>
30	92	8x28	2	2	<b>3465.030.092</b>
32	92	8x28	2	2	<b>3465.032.092</b>
34	92	8x28	2	2	<b>3465.034.092</b>
35	92	10x28	2	2	<b>3465.035.092</b>
36	92	10x28	2	2	<b>3465.036.092</b>
38	92	10x28	2	2	<b>3465.038.092</b>
40	92	10x28	2	2	<b>3465.040.092</b>
45	92	10x28	2	2	<b>3465.045.092</b>
50	92	10x28	2	2	<b>3465.050.092</b>

- Zylinderkopfborner mit scharfen kreisförmigen Vorschneidern.
- Besonders geeignet für Weichhölzer.

- *Forstner bit with sharp circular spurs.*
- *Especially for use softwoods.*

**3495****WS Scheibenschneider - Massiv**  
*WS Plug cutter - Solid***PG  
02****Schaft  $\varnothing$  13, 16 mm**  
*Shank  $\varnothing$  13, 16 mm***MAN****WS**

D	L1	S	Z	Art. Nr.
10	140	13x50	4	<b>3495.010.140</b>
12	140	13x50	4	<b>3495.012.140</b>
15	140	13x50	4	<b>3495.015.140</b>
20	140	13x50	4	<b>3495.020.140</b>
25	140	13x50	5	<b>3495.025.140</b>
30	140	13x50	5	<b>3495.030.140</b>
35	140	16x50	5	<b>3495.035.160</b>
40	140	16x50	6	<b>3495.040.160</b>
45	140	16x50	6	<b>3495.045.160</b>
50	140	16x50	6	<b>3495.050.160</b>

- Scheibenschneider zur Herstellung von Holzscheiben wie Astlochdübel.
- Besonders geeignet für Weichhölzer.

- *Plug cutter for producing of plugs for knot repair. Especially for use in softwoods.*



