

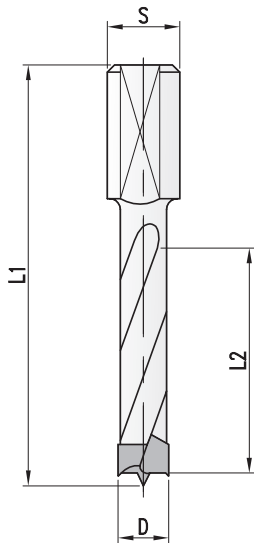
# ProChipper®



tooling systems



**Bohrer**  
*Drill Bits*

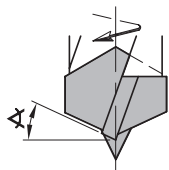

**Schaft ø 8 mm**  
*Shank ø 8 mm*
**MAN****HW**

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

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

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
4	30	<b>57,5</b>	10x27	2	<b>8363.004.130</b>	<b>8363.004.030</b>
5	30	57,5	10x27	2	<b>8363.005.330</b>	<b>8363.005.230</b>
6	30	57,5	10x27	2	<b>8363.006.330</b>	<b>8363.006.230</b>
7	30	57,5	10x27	2	<b>8363.007.330</b>	<b>8363.007.230</b>
8	30	57,5	10x27	2	<b>8363.008.330</b>	<b>8363.008.230</b>
9	30	57,5	10x27	2	<b>8363.009.330</b>	<b>8363.009.230</b>
10	30	57,5	10x27	2	<b>8363.010.330</b>	<b>8363.010.230</b>
11	30	57,5	10x27	2	<b>8363.011.130</b>	<b>8363.011.030</b>
12	30	57,5	10x27	2	<b>8363.012.330</b>	<b>8363.012.230</b>
13	30	57,5	10x27	2	<b>8363.013.130</b>	<b>8363.013.030</b>
14	30	57,5	10x27	2	<b>8363.014.130</b>	<b>8363.014.030</b>
15	30	57,5	10x27	2	<b>8363.015.130</b>	<b>8363.015.030</b>
16	30	57,5	10x27	2	<b>8363.016.130</b>	<b>8363.016.030</b>
4	40	<b>70</b>	10x30	2	<b>8363.004.143</b>	<b>8363.004.043</b>
5	40	70	10x30	2	<b>8363.005.143</b>	<b>8363.005.043</b>
6	40	70	10x30	2	<b>8363.006.143</b>	<b>8363.006.043</b>
7	40	70	10x30	2	<b>8363.007.143</b>	<b>8363.007.043</b>
8	40	70	10x30	2	<b>8363.008.143</b>	<b>8363.008.043</b>
9	40	70	10x30	2	<b>8363.009.143</b>	<b>8363.009.043</b>
10	40	70	10x30	2	<b>8363.010.143</b>	<b>8363.010.043</b>
11	40	70	10x30	2	<b>8363.011.143</b>	<b>8363.011.043</b>
12	40	70	10x30	2	<b>8343.012.143</b>	<b>8363.012.043</b>
14	40	70	10x30	2	<b>8363.014.143</b>	<b>8363.014.043</b>
15	40	70	10x30	2	<b>8363.015.143</b>	<b>8363.015.043</b>
16	40	70	10x30	2	<b>8363.016.143</b>	<b>8363.016.043</b>
5	45	<b>77</b>	10x30	2	<b>8363.005.150</b>	<b>8363.005.050</b>
6	45	77	10x30	2	<b>8363.006.150</b>	<b>8363.006.050</b>
7	45	77	10x30	2	<b>8363.007.150</b>	<b>8363.007.050</b>
8	45	77	10x30	2	<b>8363.007.150</b>	<b>8363.008.050</b>
10	45	77	10x30	2	<b>8363.010.150</b>	<b>8363.010.050</b>
12	45	77	10x30	2	<b>8363.012.150</b>	<b>8363.012.050</b>
14	45	77	10x30	2	<b>8363.014.150</b>	<b>8363.014.050</b>

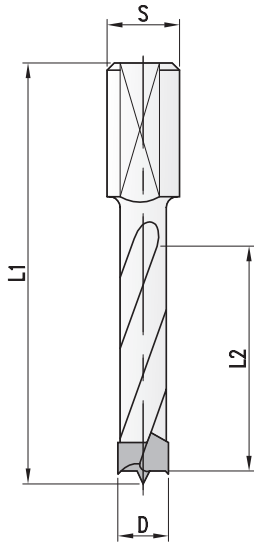
- Zum Bohren von Sacklöchern. Mit Zentrierspitze und Vorschneidergeometrie.
- *For drilling blind holes. With centre point and scoring geometry.*


**Modifikation**  
*modification*

- Negativ angeschliffene Vorschneider für verbesserte Lochrandqualität und höhere Standzeit
- *negative-ground scorers for improved hole edge quality and longer tool life*

**Ersatzteile**  
*Spare parts*

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



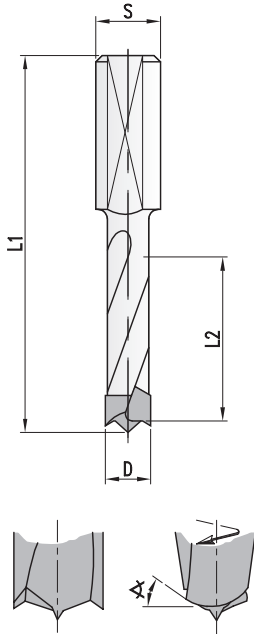
- Zum Bohren von Sacklöchern. Mit Zentrierspitze und Vorschneidergeometrie
- Kombinierbar mit Aufstecksenker
- *For drilling blind holes. With centre point and scoring geometry.*
- *Can be combined with arbor-mounted counterbore*

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

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

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

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
4	30	<b>57,5</b>	10x27	2	<b>8373.004.130</b>	<b>8373.004.030</b>
5	30	57,5	10x27	2	<b>8373.005.330</b>	<b>8373.005.230</b>
6	30	57,5	10x27	2	<b>8373.006.330</b>	<b>8373.006.230</b>
7	30	57,5	10x27	2	<b>8373.007.330</b>	<b>8373.007.230</b>
8	30	57,5	10x27	2	<b>8373.008.330</b>	<b>8373.008.230</b>
9	30	57,5	10x27	2	<b>8373.009.330</b>	<b>8373.009.230</b>
10	30	57,5	10x27	2	<b>8373.010.330</b>	<b>8373.010.230</b>
11	30	57,5	10x27	2	<b>8373.011.130</b>	<b>8373.011.230</b>
12	30	57,5	10x27	2	<b>8373.012.330</b>	<b>8373.012.230</b>
13	30	57,5	10x27	2	<b>8373.013.330</b>	<b>8373.013.230</b>
14	30	57,5	10x27	2	<b>8373.014.330</b>	<b>8373.014.230</b>
15	30	57,5	10x27	2	<b>8373.015.330</b>	<b>8373.015.230</b>
16	30	57,5	10x27	2	<b>8373.016.330</b>	<b>8373.016.230</b>
4	43	<b>70</b>	10x27	2	<b>8373.004.143</b>	<b>8373.004.043</b>
5	43	70	10x27	2	<b>8373.005.143</b>	<b>8373.005.043</b>
6	43	70	10x27	2	<b>8373.006.143</b>	<b>8373.006.043</b>
7	43	70	10x27	2	<b>8373.007.143</b>	<b>8373.007.043</b>
8	43	70	10x27	2	<b>8373.008.143</b>	<b>8373.008.043</b>
9	43	70	10x27	2	<b>8373.009.143</b>	<b>8373.009.043</b>
10	43	70	10x27	2	<b>8373.010.143</b>	<b>8373.010.043</b>
11	43	70	10x27	2	<b>8373.011.143</b>	<b>8373.011.043</b>
12	43	70	10x27	2	<b>8373.012.143</b>	<b>8373.012.043</b>
14	43	70	10x27	2	<b>8373.014.143</b>	<b>8373.014.043</b>
15	43	70	10x27	2	<b>8373.015.143</b>	<b>8373.015.043</b>
16	43	70	10x27	2	<b>8373.016.143</b>	<b>8373.016.043</b>
5	45	<b>85</b>	10x35	2	<b>8373.005.150</b>	<b>8373.005.050</b>
6	45	85	10x35	2	<b>8373.006.150</b>	<b>8373.006.050</b>
7	45	85	10x35	2	<b>8373.007.150</b>	<b>8373.007.050</b>
8	45	85	10x35	2	<b>8373.008.150</b>	<b>8373.008.050</b>
9	45	85	10x35	2	<b>8373.009.150</b>	<b>8373.009.050</b>
10	45	85	10x35	2	<b>8373.010.150</b>	<b>8373.010.050</b>
12	45	85	10x35	2	<b>8373.012.150</b>	<b>8373.012.050</b>
14	45	85	10x35	2	<b>8373.014.150</b>	<b>8373.014.050</b>
5	65	<b>115</b>	10x35	2	<b>8373.005.165</b>	<b>8373.005.065</b>
6	65	115	10x35	2	<b>8373.006.165</b>	<b>8373.006.065</b>
7	65	115	10x35	2	<b>8373.007.165</b>	<b>8373.007.065</b>
8	65	115	10x35	2	<b>8373.008.165</b>	<b>8373.008.065</b>
9	65	115	10x35	2	<b>8373.009.165</b>	<b>8373.009.065</b>
10	65	115	10x35	2	<b>8373.010.165</b>	<b>8373.010.065</b>
12	65	115	10x35	2	<b>8373.012.165</b>	<b>8373.012.065</b>
14	65	115	10x35	2	<b>8373.014.165</b>	<b>8373.014.065</b>



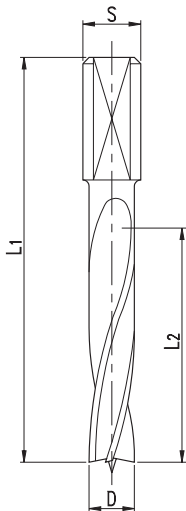
- Zum Bohren von Sacklöchern. Mit Zentrierspitze und Rundformvorschneidern.
- *For drilling blind holes. With centre point and rounded scorers.*

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

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

**Ersatzteile**  
*Spare parts*

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



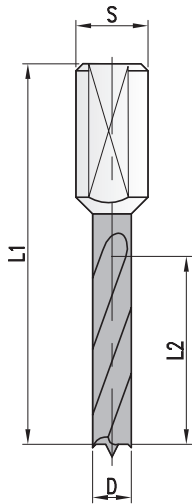
- Zum Bohren von Sacklöchern. Mit Zentrierspitze und Vorschneidergeometrie.
- Kombinierbar mit Aufstecksenker
- *For drilling blind holes. With centre point and scoring geometry.*
- *Can be combined with arbor-mounted counterbore*

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

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
5	30	<b>57,5</b>	10x20	2	<b>3363.005.130</b>	<b>3363.005.030</b>
6	30	57,5	10x20	2	<b>3363.006.130</b>	<b>3363.006.030</b>
7	30	57,5	10x20	2	<b>3363.007.130</b>	<b>3363.007.030</b>
8	30	57,5	10x20	2	<b>3363.008.130</b>	<b>3363.008.030</b>
9	30	57,5	10x20	2	<b>3363.009.130</b>	<b>3363.009.030</b>
10	30	57,5	10x20	2	<b>3363.010.130</b>	<b>3363.010.030</b>
12	30	57,5	10x20	2	<b>3363.012.130</b>	<b>3363.012.030</b>
5	43	<b>70</b>	10x20	2	<b>3363.005.143</b>	<b>3363.005.043</b>
6	43	70	10x20	2	<b>3363.006.143</b>	<b>3363.006.043</b>
7	43	70	10x20	2	<b>3363.007.143</b>	<b>3363.007.043</b>
8	43	70	10x20	2	<b>3363.008.143</b>	<b>3363.008.043</b>
9	43	70	10x20	2	<b>3363.009.143</b>	<b>3363.009.043</b>
10	43	70	10x20	2	<b>3363.010.143</b>	<b>3363.010.043</b>
12	43	70	10x20	2	<b>3363.012.143</b>	<b>3363.012.043</b>

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

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

**6363****HW-Dübelbohrer „Standard“ – Massiv**  
TC Dowel Drill "Standard" - SolidPG  
02Schaft  $\varnothing$  10 mm  
Shank  $\varnothing$  10 mm

MAN

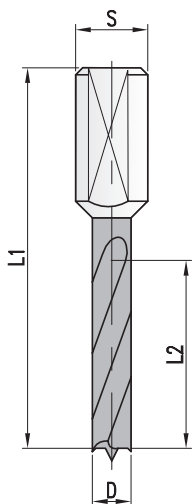
HW

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

- Zum Bohren von Sacklöchern. Mit Zentrierspitze und Vorschneidengeometrie.
- for drilling blind holes, with centre point and scoring geometry

**Ersatzteile**  
Spare parts

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

**6353****HW-Dübelbohrer – Massiv**  
TC Dowel Drill - SolidPG  
02Schaft  $\varnothing$  10 mm  
Shank  $\varnothing$  10 mm

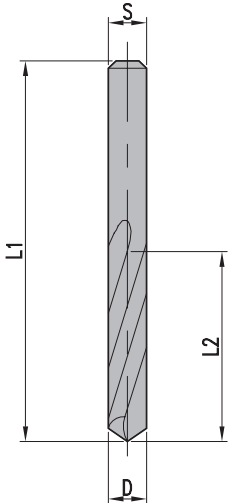
MAN

HW

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

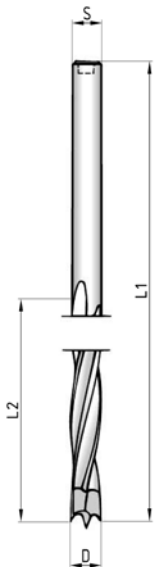
- Zum Bohren von Sacklöchern. Mit Zentrierspitze und Vorschneidengeometrie.
- for drilling blind holes, with centre point and scoring geometry



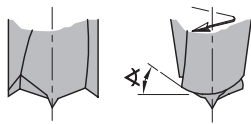
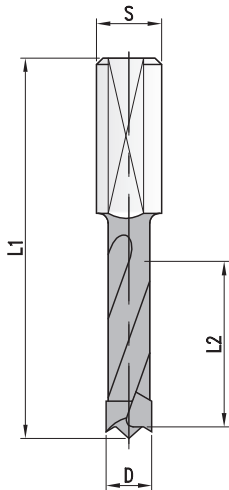

**VHW-Spiralbohrer Z=2**  
*Solid carbide twist drill Z=2*
**MAN**
**HW**

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>6355.004.027</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>

- VHW-Spiralbohrer zum Bohren von Sack- und Durchgangslöchern in zylindrischer Ausführung mit flacher Dachformspitze. Bei einer Schaftaufnahme von 10 mm kann das Werkzeug mit einer Reduzierbuchse (Art. 494) oder einem Adapter (Art. 495) verwendet werden.
- *solid carbide twist drill for drilling blind and through holes in a cylindrical design with a flat V-point, the 10 mm shank version can be used with reducing bushing (Art. 494) or adapter (Art. 495)*


**HW-Spiralbohrer Z=2**  
*TC twist 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>

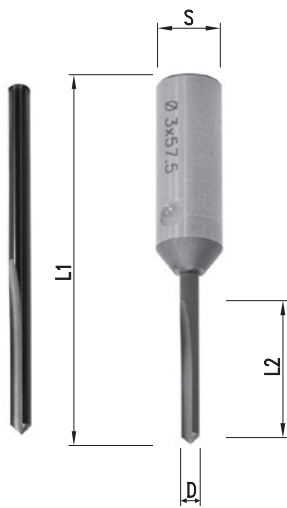
**6373****HW-Dübelbohrer „SuperPlus“ – Massiv**  
TC Dowel Drill "SuperPlus" - SolidPG  
02Schaft  $\varnothing$  10 mm  
Shank  $\varnothing$  10 mm

MAN

HW

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

- HW-Dübelbohrer mit Zentrierspitze und Rundformvorschneidern zum Bohren von Sacklöchern. Durch den Einsatz von Mikro-Feinkornhartmetall und dem Anschliff mit Rundformvorschneidern wird eine extrem hohe Standzeit garantiert.
- TC dowel drill with centre point and rounded scorers for drilling blind holes. Micro-grain carbide and grinding with rounded scorers guarantee extremely long tool life.

**6359****HW-Bohrstift – Massiv**  
TC Drilling Bit - SolidPG  
02

VHW-Bohrstift Z=1 R/L

Solid carbide drilling bit Z=1 RH/LH

MAN

HW

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

- Vollhartmetall-Bohrstift mit einer Spannute und Dachformspitze, geeignet für Rechts- oder Linkslauf sowie zum Bohren von Sack- und Durchgangslöchern.
- solid carbide drilling bit with a chip flute and v-point, suitable for clockwise or counter-clockwise rotation, and for drilling blind and through holes

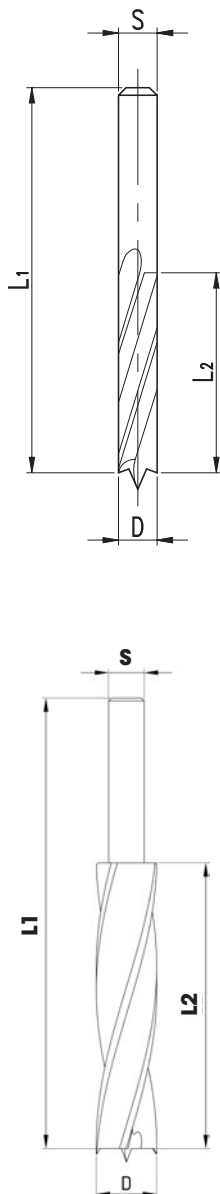
**6385****HW-Akustikbohrer – Massiv**  
TC Acoustic Panel Drill - SolidPG  
02**VHW-Akustikbohrer Z=1**  
Solid carbide acoustic panel drill Z=1

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 producing acoustic panels for acoustic insulation
- with clamping surface and adjusting screw

**3365****HS-Spiralbohrer mit Zentrierspitze – Massiv**  
HSS Twist Drill with Centre Point - SolidPG  
02**HS-Spiralbohrer Z=2**  
HSS twist drill Z=2

MAN

HS

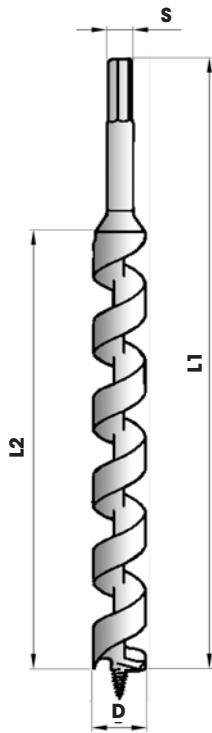
D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
2	24	49	2,0	2	3365.002.124	3365.002.024
2,5	30	57	2,5	2	3365.003.130	3365.003.030
3	33	61	3,0	2	3365.003.133	3365.003.033
3,5	39	70	3,5	2	3365.004.139	3365.004.039
4	43	75	4,0	2	3365.004.143	3365.004.043
4,5	47	80	4,5	2	3365.005.147	3365.005.047
5	52	86	5,0	2	3365.005.152	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-reach version**

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 ausriffsfreien Sacklöchern. Ausführung mit Zentrierspitze und Vorschneidern.
- for drilling tear-free blind holes, with centre point and scorers

3463

**WS-Schlangenbohrer Typ Lewis – Massiv**  
*Tool Steel Auger Drill Bit Type Lewis - Solid*
PG  
02
**WS-Lewisbohrer**  
*Tool steel auger drill bit type Lewis*

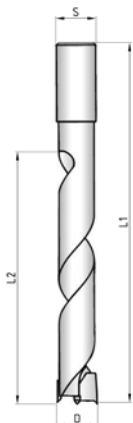
MAN

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

- WS-Lewisbohrer mit Gewindeczentrierspitze und Vorschneider für sehr tiefe Bohrungen
- *tool steel drill bit type Lewis with threaded centre point and scorers for drilling very deep holes*

8365

**HW-Tieflochbohrer mit einer Spiralnute – Festbestückt**  
*TC Deep Hole Drill with Spiral Flute - Tipped*
PG  
02
**HW-Tieflochbohrer Z=1**  
*TC deep hole drill Z=1*

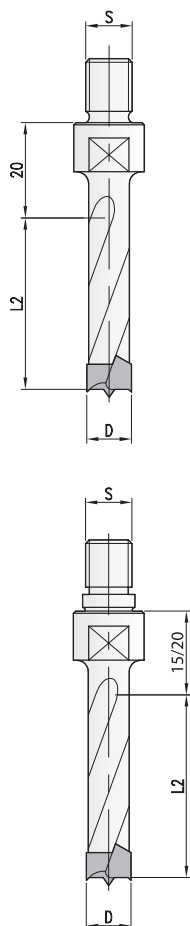
MAN

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

- Hartmetallbestückte Ausführung mit Zentrierspitze und Vorschneidern für sehr tiefe Bohrungen
- *TC-tipped version with centre point and scorers for drilling very deep holes*




**Schaft Ø M8 or M10**  
*Shank Ø M8 or M10*
**MAN****HW**

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

- Zum Bohren von Sacklöchern. Mit Zentrierspitze und Vorschneidergeometrie. Der Gewindeschaff ermöglicht eine direkte und stabile Einspannung in die Bohrspindeln.

- *for drilling blind holes with a centre-point and scoring geometry, the threaded shank enables direct and stable clamping into boring spindles*

- Gewindeschaff M8 für Nottmeier
- Gewindeschaff M8 mit Passsitz für SCM
- Gewindeschaff M10 für Tornegge, Ayen, Mayer
- Gewindeschaff M10 mit Passsitz für Biesse, Weeke, Morbidelli

- *M8 threaded shank for Nottmeier*
- *M8 threaded shank with precision fit for SCM*
- *M10 threaded shank for Tornegge, Ayen, Mayer*
- *M10 threaded shank with precision fit for Biesse, Weeke, Morbidelli*

- Alle Abmessungen sind auch aus gehärtetem Werkzeugstahl verfügbar

- *all dimensions also available in hardened tool steel*

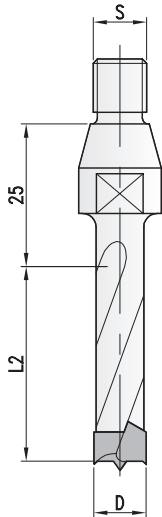
**Schaft Ø M8/9 bzw. M10/11**  
*Shank Ø M8/9 or M10/11*
**MAN****HW**

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

8388

**HW-Dübelbohrer mit Kegel und Gewindeschaft - Festbestückt**  
*TC Dowel Drill with Taper and Threaded Shank - Tipped*

PG  
02



- Zum Bohren von Sacklöchern. Mit Zentrierspitze und Vorschneidergeometrie. Gewindeschaft M10 mit Kegel für Alberti, Vitap und Busellato.
- *For drilling blind holes, with centre point and soring geometry. M10 threaded shank with taper for Alberti, Vitap, and Busellato.*

**Schaft Ø M10 mit Kegel**  
*Shank Ø M10 with taper*

MAN

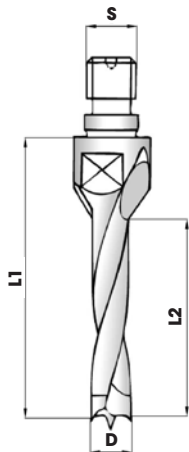
HW

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-Dübelbohrer mit Senkstufe und Gewindeschaft – Festbestückt**  
*TC Dowel Drill with Countersink and Threaded Shank - Tipped*

PG  
02



- Zum Bohren von Sacklöchern mit gleichzeitigem Ansenken des Lochrands. Gewindeschaft M10 mit Passsitz für Biesse, Weeke und Morbidelli.
- *For drilling blind holes with simultaneous countersinking of hole edge. M10 threaded shank with precision fit for Biesse, Weeke, and Morbidelli.*

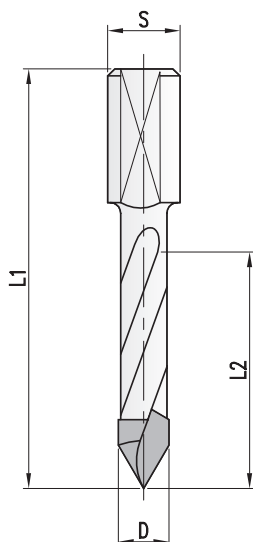
**Schaft Ø M10/11**  
*Shank Ø M10/11*

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



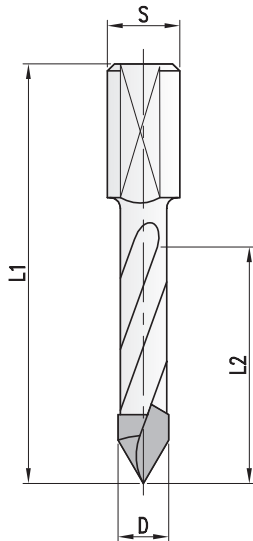

**Schaft ø 8 mm**  
*Shank ø 8 mm*
**MAN****HW**

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
5	30	<b>55,5</b>	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	<b>67</b>	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 ø 10 mm**  
*Shank ø 10 mm*
**MAN****HW**

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
5	27	<b>57,5</b>	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	<b>70</b>	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	<b>77</b>	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	<b>85</b>	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	<b>115</b>	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 mit gefastem Dachformanschliff für eine bestmögliche Lochrandqualität auf der Austrittsseite
- *for drilling tear-free through holes, featuring a chamfered V-point grind for maximum hole edge quality on exit side*

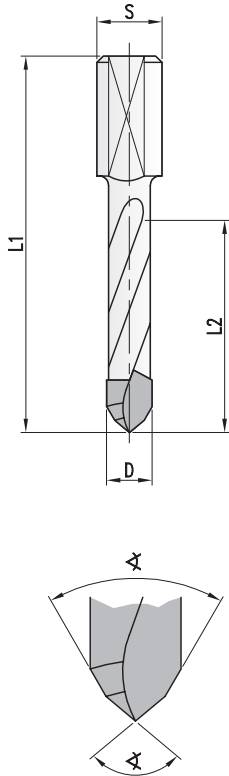

**Schaft  $\varnothing$  10 mm mit Rückenführung**  
*Shank  $\varnothing$  10 mm with depth stop*
**MAN****HW**

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
5	27	<b>57,5</b>	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	<b>70</b>	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 mit gefastem Dachformanschiff für eine bestmögliche Lochrandqualität auf der Austrittseite. Kombinierbar mit Aufstecksenker.
- *For drilling tear-free through holes, featuring a chamfered V-point grind for maximum hole edge quality on exit side. Can be combined with arbor-mounted counterbore.*

**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 ø 10 mm**  
 Shank ø 10 mm

MAN

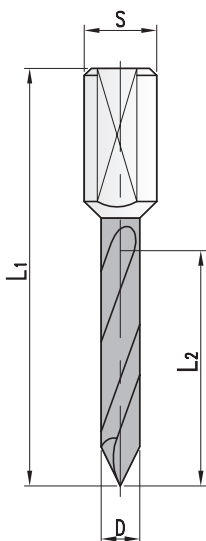
HW

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
5	33	<b>57,5</b>	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	<b>70</b>	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 mit gefastem Dachformanschliff für eine bestmögliche Lochrandqualität auf der Austrittseite. Der Doppelfasen-Anschliff sorgt für eine verbesserte Lochrandqualität beim Bearbeiten spröder Deckschichten. Zudem garantiert die Bestückung mit Mikro-Feinkornhartmetall besonders hohe Standzeiten.
- *For drilling tear-free through holes, featuring a chamfered V-point grind for maximum hole edge quality on exit side. The double-chamfer grind provides improved hole edge quality when drilling into brittle surface layers and the micro-grain carbide tipping guarantees exceptionally long tool life.*

**Ersatzteile**  
*Spare parts*

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


**Schaft ø 10 mm**  
 Shank ø 10 mm

MAN

HW

D	L2	L1	S	Z	Art. Nr. LH	Art. Nr. RH
3	27	<b>57,5</b>	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	<b>70</b>	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 mit gefastem Dachformanschliff für eine bestmögliche Lochrandqualität auf der Austrittseite
- *for drilling tear-free through holes, featuring a chamfered V-point grind for maximum hole edge quality on exit side*

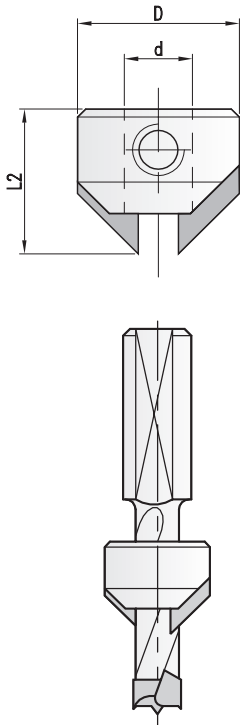
**Ersatzteile**  
*Spare parts*

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

**8850**

## HW-Aufstecksenker 45° - Festbestückt

TC Arbor-Mounted Counterbore 45° - Tipped

PG  
02

**Für Bohrer mit Rückenführung**  
For drill bits with depth stop

MAN

HW

D	L2	S	Z	Art. Nr. LH	Art. Nr. RH
4	16	16,5	2	8850.016.104	8850.016.004
5	16	16,5	2	8850.016.105	8850.016.005
6	16	16,5	2	8850.016.106	8850.016.006
7	16	16,5	2	8850.016.107	8850.016.007
8	18	16,5	2	8850.018.108	8850.018.008
9	18	16,5	2	8850.018.109	8850.018.009
10	20	16,5	2	8850.020.110	8850.020.010
11	20	16,5	2	8850.020.111	8850.020.011
12	20	16,5	2	8850.020.112	8850.020.012

- Zur Befestigung an der Spirale des Bohrers mit Rückenführung
- for mounting to the spiral of the drill bit with depth stop

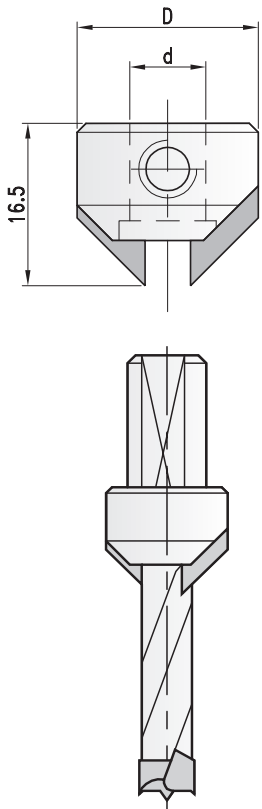
**Ersatzteile**  
Spare parts

	Dim.	Art. Nr.
Gewindestift - Set screw	M5x5	705.102
Sechskantschlüssel - Allen key	SW2,5	706.152

**8870**

## HW-Aufstecksenker 45° - Festbestückt

TC Arbor-Mounted Counterbore 45° - Tipped

PG  
02

**Für Befestigung am Schaft**  
For mounting to the shank

MAN

HW

D	L2	ø	Z	Art. Nr. LH	Art. Nr. RH
10	20	16,5	5-10	8870.020.110	8870.020.010
10	22	16,5	11-12	8870.022.110	8870.022.010

- Zur Befestigung am Schaft
- ø gibt den Nenndurchmesser des Bohrers an
- for mounting to the shank
- ø indicates the nominal diameter of the drill bit

**Ersatzteile**  
Spare parts

	Dim.	Art. Nr.
Gewindestift - Set screw	M5x5	705.102
Sechskantschlüssel - Allen key	SW2,5	706.152

01



02



03



04



05



06



07



08



09

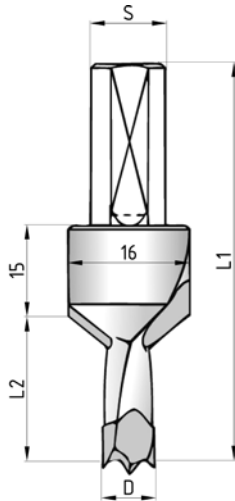


10



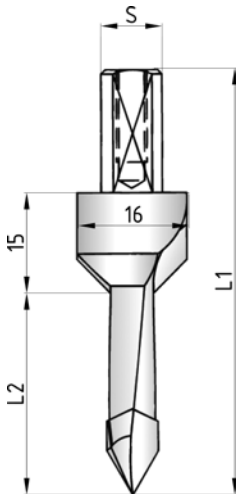
11




**Schaft ø 10 mm**  
*Shank ø 10 mm*
**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 blind holes with simultaneous countersinking of the hole edge. Single-piece design.*


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

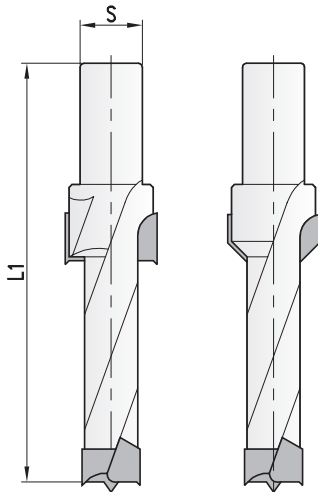
D	L2	L1	S	Art. Nr.
5	20	70	10	8275.005.020
5	25	70	10	8275.005.025
5	30	70	10	8275.005.030
6	20	70	10	8275.006.020
6	25	70	10	8275.006.025
6	30	70	10	8275.006.030
8	20	70	10	8275.008.020
8	25	70	10	8275.008.025
8	30	70	10	8275.008.030
10	20	70	10	8275.010.020
10	25	70	10	8275.010.025
10	30	70	10	8275.010.030
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 drilling through holes with simultaneous countersinking of the hole edge. Single-piece design.*

8113

**HW-/HS-Stufenbohrer in Anfertigung – Festbestückt**  
*TC/HSS Bespoke Step Drill - Tipped*

PG  
02



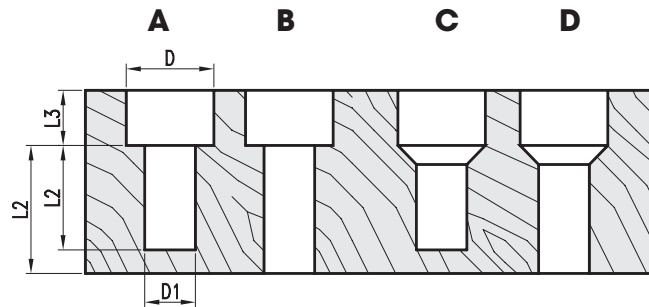
**Sonderanfertigung**  
*Bespoke design*

**MAN HW/HS**

D	L1	S	Art. Nr.
3-30	50-130	•	<b>8113.003.050</b>

- Auf Anfrage erhältlich. Bitte geben Sie bei der Bestellung die Ausführung (A-D), Maßangaben und den gewünschten Schneidstoff an.
- *available on request, please specify finish (A-D), dimensions, and required cutting material when ordering*

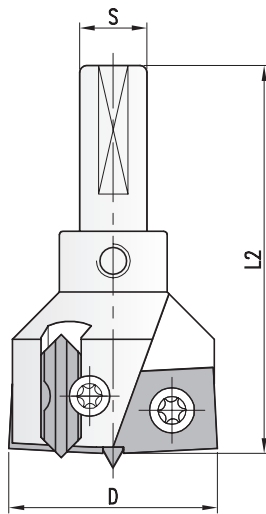
Ausführung der Stufenbohrung - *Finish of stepped hole*



4163

**HW-Zylinderkopfbohrer – Wechselmesser**  
*TC Hinge Boring Bit - Replaceable Knives*

PG  
02



**Schaft Ø 10 mm**  
*Shank Ø 10 mm*

**MAN HW**

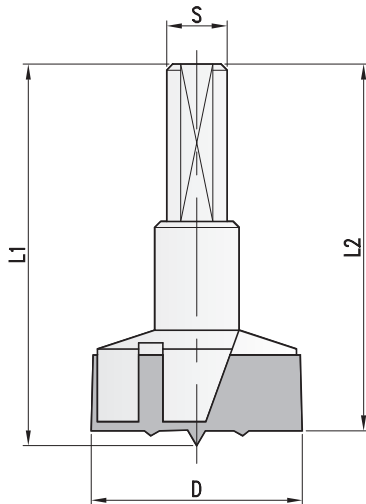
D	L2	L1	S	Z	V	Art. Nr. LH	Art. Nr. RH
25	55,5	<b>57,5</b>	10x26	2	2	<b>4163.025.158</b>	<b>4163.025.058</b>
26	55,5	57,5	10x26	2	2	<b>4163.026.158</b>	<b>4163.026.058</b>
30	55,5	57,5	10x26	2	2	<b>4163.030.158</b>	<b>4163.030.058</b>
35	55,5	57,5	10x26	2	2	<b>4163.035.158</b>	<b>4163.035.058</b>
25	55,5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

- Zum Bohren von Beschlag- und Topfbandbohrungen. Vorschneider, Räumer und Zentrierspitze sind als Wechselmesser ausgeführt.
- *For drilling hinge holes and concealed hinge holes. Scoring blades, rakers, and centre point are implemented as replaceable knives.*

**Ersatzteile**  
*Spare parts*

	D	Dim.	Art. Nr.
Wechselmesser - <i>Replacement knife</i>	25	10,5x12x1,5	<b>750.200</b>
	26	11x12x1,5	<b>750.209</b>
	30	13x12x1,5	<b>750.202</b>
	35	15,7x12x1,5	<b>750.203</b>
Schraube - <i>Screw</i>		M3,5x5	<b>705.352</b>
		M3,5x6,5	<b>705.350</b>
Vorschneider - <i>Scoring blade</i>		18x6x3,5	<b>795.102</b>
Schraube - <i>Screw</i>		M3,5x6	<b>705.312.06</b>
Zentrierspitze - <i>Centre point</i>		ø 3x33,5	<b>795.101</b>
Gewindestift - <i>Set screw</i>		M6x6	<b>705.583</b>
Einstellschraube - <i>Adjusting screw</i>		M5x10	<b>705.103</b>
Sechskantschlüssel - <i>Allen key</i>		SW3	<b>706.153</b>
Torx Schlüssel - <i>Torx wrench</i>		T15	<b>706.302</b>





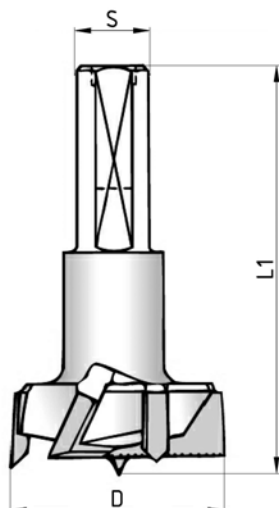
- Zum Bohren von Beschlag- und Topfbandbohrungen. Ausführung mit zwei Vorschneidern, zwei Räubern und Zentrierspitze.
- *For drilling hinge holes and concealed hinge holes. Including two rakers, two scorers and a centre point.*

**Schaft Ø 10 mm**  
*Shank Ø 10 mm*
**MAN****HW**

D	L2	L1	S	Z	V	Art. Nr. LH	Art. Nr. RH
8	55,5	<b>57,5</b>	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	<b>70</b>	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	<b>77</b>	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>8163.038.175</b>	<b>8163.038.075</b>
40	75,0	77	10x40	2	2	<b>8163.040.175</b>	<b>8163.040.075</b>

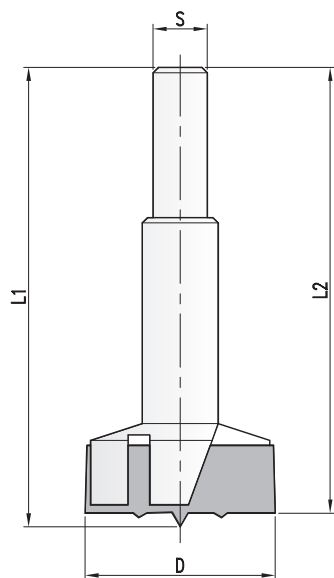
**Ersatzteile**  
*Spare parts*

	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 Ø 10 mm**  
 Shank Ø 10 mm
**MAN****HW**

D	L2	L1	S	Z	V	Art. Nr. LH	Art. Nr. RH
15	55,5	<b>57,5</b>	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	<b>70</b>	10x40	2	2	<b>8263.015.168</b>	<b>8263.015.068</b>
16	68,8	70	10x40	2	2	<b>8263.016.168</b>	<b>8263.016.068</b>
18	68,8	70	10x40	2	2	<b>8263.018.168</b>	<b>8263.018.068</b>
20	68,8	70	10x40	2	2	<b>8263.020.168</b>	<b>8263.020.068</b>
22	68,8	70	10x40	2	2	<b>8263.022.168</b>	<b>8263.022.068</b>
24	68,8	70	10x40	2	2	<b>8263.024.168</b>	<b>8263.024.068</b>
25	68,8	70	10x40	2	2	<b>8263.025.168</b>	<b>8263.025.068</b>
26	68,8	70	10x40	2	2	<b>8263.026.168</b>	<b>8263.026.068</b>
28	68,8	70	10x40	2	2	<b>8263.028.168</b>	<b>8263.028.068</b>
30	68,8	70	10x40	2	2	<b>8263.030.168</b>	<b>8263.030.068</b>
32	68,8	70	10x40	2	2	<b>8263.032.168</b>	<b>8263.032.068</b>
35	68,8	70	10x40	2	2	<b>8263.035.168</b>	<b>8263.035.068</b>
38	68,8	70	10x40	2	2	<b>8263.038.168</b>	<b>8263.038.068</b>
40	68,8	70	10x40	2	2	<b>8263.040.168</b>	<b>8263.040.068</b>

- Zum Bohren von Beschlag- und Topfbandbohrungen. Ausführung mit zwei Vorschneidern, zwei Räumern und Zentrierspitze. Die Räumern sind mit Spanbrechernuten geschliffen und sorgen daher für eine verbesserte Spanabfuhr und reduzierte Vorspaltung.
- *For drilling hinge holes and concealed hinge holes. Equipped with two scorers, two rakers, and a centre point. The rakers are ground with chipbreaker grooves for improved chip removal and reduced pre-splitting.*



- Lange Ausführung  
• Ohne Spannfläche und Einstellschraube

- *long-reach design*  
• *without clamping surface and adjusting screw*

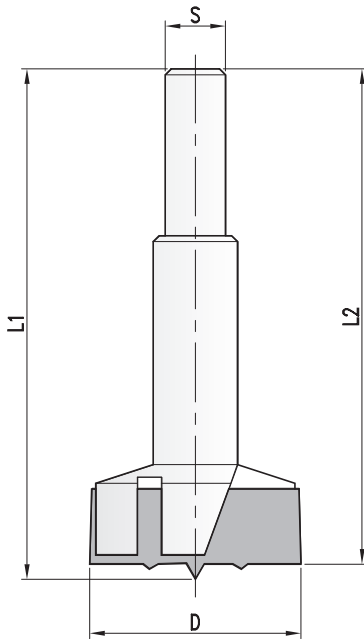
Schaft Ø 10, 13, 16, 20 mm  
Shank Ø 10, 13, 16, 20 mm

MAN

HW

D	L2	L1	S	Z	V	Art. Nr. RH
8	90	<b>92</b>	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	<b>122</b>	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 Vorschneidern, zwei Räumern und Zentrierspitze.
- *For drilling hinge holes and concealed hinge holes. Equipped with two scorers, two rakers, and a centre point.*



- Lange Ausführung
- Ohne Spannfläche und Einstellschraube
- *long-reach version*
- *without clamping surface and adjusting screw*

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

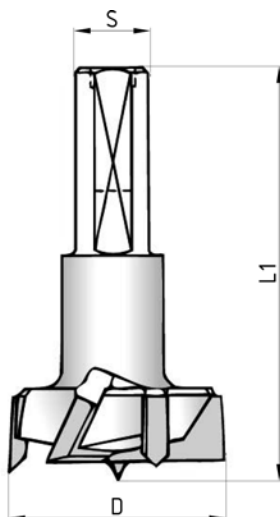
D	L2	L1	S	Z	V	Art. Nr. RH
10	138	140	13x50	2	2	<b>8165.010.138</b>
12	138	140	13x50	2	2	<b>8165.012.138</b>
14	138	140	13x50	2	2	<b>8165.014.138</b>
15	138	140	13x50	2	2	<b>8165.015.138</b>
16	138	140	13x50	2	2	<b>8165.016.138</b>
18	138	140	13x50	2	2	<b>8165.018.138</b>
20	138	140	13x50	2	2	<b>8165.020.138</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 and concealed hinge holes. Equipped with two scorers and a centre point.*

**8173**

## HW-Zylinderkopfbohrer Z3+V3 – Festbestückt

TC Hinge Boring Bit Z3+V3 - Tipped

PG  
02

Schaft  $\varnothing$  10 mm  
Shank  $\varnothing$  10 mm

MAN

HW

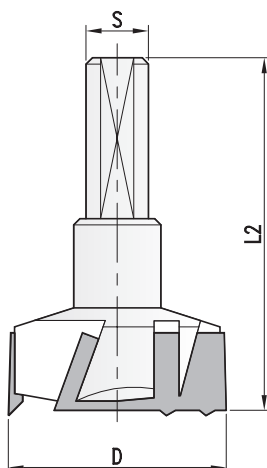
D	L2	L1	S	Z	V	Art. Nr. LH	Art. Nr. RH
18	55,5	57,5	10x26	3	3	<b>8173.018.156</b>	<b>8173.018.056</b>
20	55,5	57,5	10x26	3	3	<b>8173.020.156</b>	<b>8173.020.056</b>
25	55,5	57,5	10x26	3	3	<b>8173.025.156</b>	<b>8173.025.056</b>
26	55,5	57,5	10x26	3	3	<b>8173.026.156</b>	<b>8173.026.056</b>
30	55,5	57,5	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 Vorschneidern, drei Räumern und Zentrierspitze.
- 3-Schneider-Ausführung sorgt für erhöhte Bohrleistung
- *For drilling hinge holes and concealed hinge holes. Equipped with three scorers, three rakers, and a centre point.*
- *Three-flute design ensures increased drilling performance*

**8183**

## HW-Zylinderkopfbohrer mit verkürzter Zentrierspitze – Festbestückt

TC Hinge Boring Bit with Shortened Centre Point - Tipped

PG  
02

Schaft  $\varnothing$  10 mm  
Shank  $\varnothing$  10 mm

MAN

HW

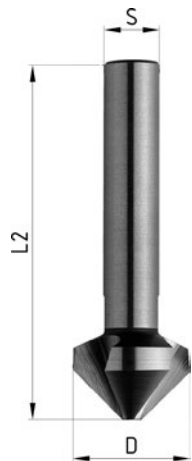
D	L2	S	Z	V	Art. Nr. LH	Art. Nr. RH
25	55,5	10x26	3	3	<b>8183.025.156</b>	<b>8183.025.056</b>
30	55,5	10x26	3	3	<b>8183.030.156</b>	<b>8183.030.056</b>
35	55,5	10x26	3	3	<b>8183.035.156</b>	<b>8183.035.056</b>

- Zum Bohren von Beschlag- und Topfbandbohrungen, Ausführung mit drei Vorschneidern, drei Räumern und verkürzter Zentrierspitze.
- *For drilling hinge holes and concealed hinge holes. Equipped with three scorers, three rakers, and a shortened centre 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****HS-Senker – Massiv**  
*HSS Countersink - Solid***PG**  
**02****01****02****03****04****05****06****07****08****09****10****11****HS-Senker 90°**  
*HSS countersink 90°***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
- *for subsequent countersinking of holes*

**3459****HS-Querlochsенker – Massiv**  
*HSS Cross-Hole Countersink - Solid***PG**  
**02****HSS Senker**  
*HSS countersink***MAN****HW**

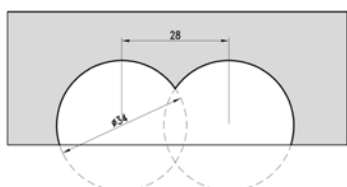
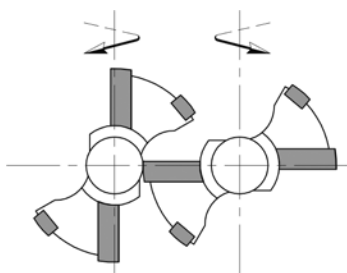
D	L2	S	Z	Art. Nr.
21	65	10	1	<b>3459.021.065</b>
27,5	85	12	1	<b>3459.028.085</b>
35	102	15	1	<b>3459.035.102</b>

- Zum nachträglichen Ansenken von Bohrungen. Querlochsенker für ein sauberes und ratterfreies Schnittbild. Besonders geeignet für harte Werkstoffe wie HPL und NE-Metalle.
- *For subsequent countersinking of holes. Cross-hole countersink for a clean and chatter-free finish, particularly suitable for hard materials such as HPL or non-ferrous metals.*

**8273**

## HW-Doppel-Topfbandbohrer für System MACO TREND – Festbestückt

TC Double Concealed Hinge Boring Bit for MACO TREND System - Tipped

PG  
02

Schaft  $\varnothing$  10 mm für L/R-Lauf mit Lochabstand 28 mm  
Shank  $\varnothing$  10 mm for LH/RH operation with 28 mm hole spacing

MAN

HW

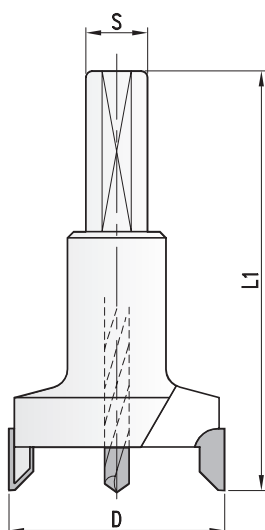
D	L2	L1	S	V	Art. Nr. LH	Art. Nr. RH
34	57,5	10x26	2	2	8273.034.158	8273.034.058

- Zum Bohren von Doppelbeschlag- und Topfbandbohrungen
- Ausführung mit zwei Vorschneidern, zwei Räumern und Zentrierspitze
- Zum Einbauen von Doppel-Topfbandbeschlägen und Scherenlagern DT
- Mit Spannfläche und Einstellschraube
- *for drilling double and concealed hinge holes*
- *equipped with two scorers, two rakers, and a centre point*
- *for the installation of double concealed hinges and stay bearings in window construction*
- *with clamping surface and adjusting screw*

**8193**

## HW-Zylinderkopfböhrer für Aluminiumprofile – Festbestückt

TC Hinge Boring Bit for Aluminium Profiles - Tipped

PG  
02

Schaft  $\varnothing$  10 mm  
Shank  $\varnothing$  10 mm

MAN

HW

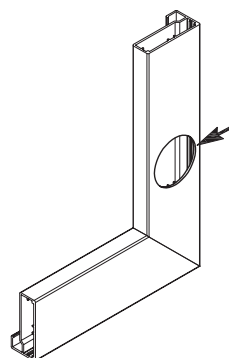
D	L2	S	Z	Art. Nr.
26	70	10x26	2	8193.026.070
35	70	10x26	2	8193.035.070

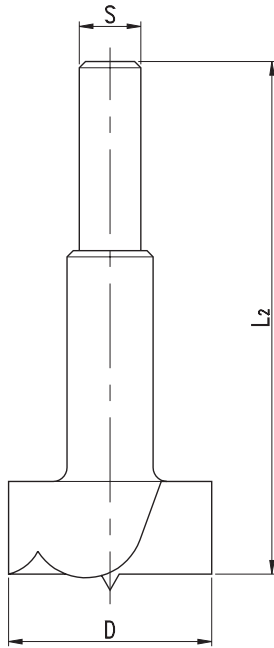
- Zum Bohren von Beschlagbohrungen in Aluminiumprofilen. Ausführung mit drei Vorschneidern.
- *for drilling hinge holes into aluminium profiles, equipped with three scorers*

### Ersatzteile

Spare parts

	Dim.	Art. Nr.
Einstellschraube - Adjusting screw	M5x10	705.103
Zentrierschraube - Centre point		A201.004.130.04
Gewindestift - Set screw	M5x5	705.102



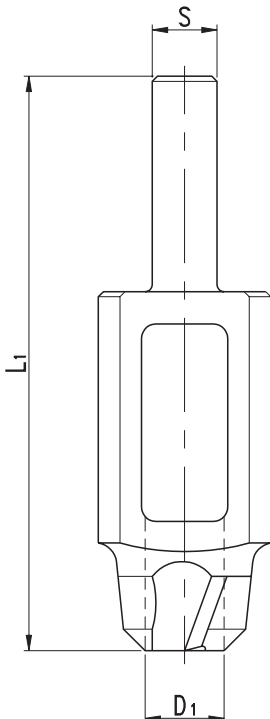
**3465****SP-Forstnerbohrer – Massiv**  
Forstner Bit - SolidPG  
02Schaft  $\varnothing$  8, 10 mm  
Shank  $\varnothing$  8, 10 mm

MAN

SP

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

- Zylinderkopfböhrer mit scharfen kreisförmigen Vorschneidern
- Besonders geeignet für Weichhölzer
- *forstner bit with sharp circular scorers*
- *particularly suitable for softwoods*

**3495****WS-Scheibenschneider – Massiv**  
Tool Steel Plug Cutter - SolidPG  
02Schaft  $\varnothing$  13, 16 mm  
Shank  $\varnothing$  13, 16 mm

MAN

WS

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

- Scheibenschneider zur Herstellung von Holzscheiben wie Astlochdübeln
- Besonders geeignet für Weichhölzer
- *plug cutter for producing wooden discs such as knot-hole plugs*
- *particularly suitable for softwoods*

01



02



03



04



05



06



07



08



09



10



11



