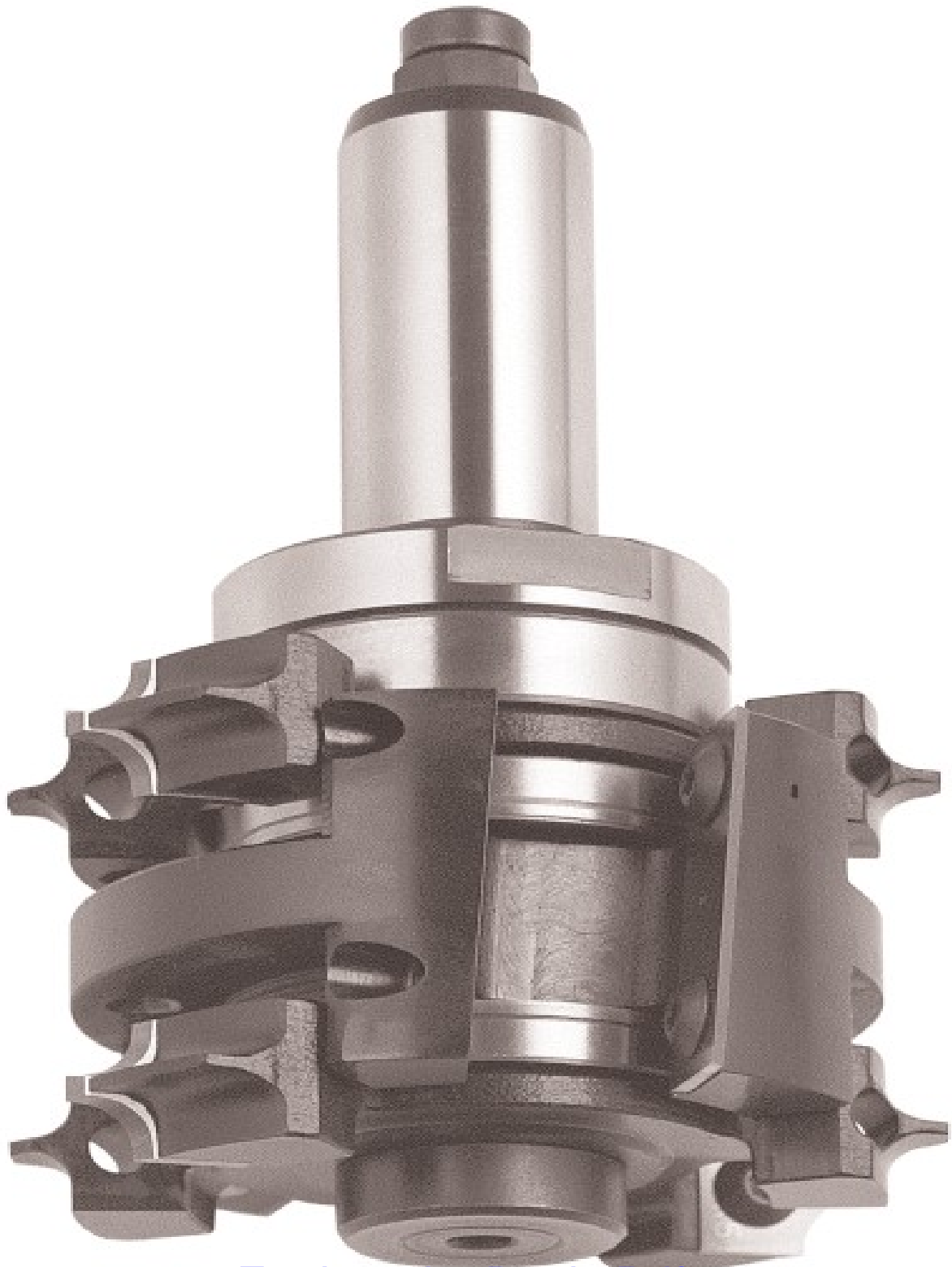


# CNC Insert Tooling

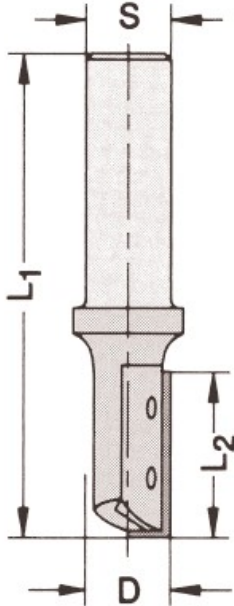


**6217 Z1**

**Insert Router Bit**

For grooving, jointing and rebating on composite materials.  
Can plunge up to 1/2" diameter.  
Not recommended for use on solid woods.

Replacement wedges available upon request.



<b>6217.080.20</b>	8	20	60	9.5 x 30
<b>6217.100.20</b>	10	25	60	9.5 x 30
<b>6217.081.20</b>	8	20	70	10 x 40
<b>6217.090.20</b>	9	20	70	10 x 40
<b>6217.101.20</b>	10	25	75	10 x 40
<b>6217.110.20</b>	11	25	75	10 x 40
<b>6217.120.20</b>	12	30	80	10 x 40
<b>6217.140.20</b>	14	30	80	10 x 40
<b>6217.082.20</b>	8	20	70	12 x 40
<b>6217.102.20</b>	10	25	75	12 x 40
<b>6217.121.20</b>	12	20	70	12 x 40
<b>6217.120.30</b>	12	30	80	12 x 40
<b>6217.120.31</b>	12	30	80	12 x 40 (LH)
<b>6217.140.30</b>	14	30	80	12 x 40
<b>6217.140.31</b>	14	30	80	12 x 40 (LH)
<b>6217.160.50</b>	16	50	100	12 x 40
<b>6217.953.20</b>	3/8"	20	65	3/8" x 30
<b>6217.127.30</b>	1/2"	30	80	1/2" x 40
<b>6217.127.31</b>	1/2"	30	80	1/2" x 40 (LH)

**Solid Carbide Inserts**

Part Number	Dimensions	D
<b>4201.021.11</b>	20 x 4.1 x 1.1	For D = 8mm, 9mm & 3/8"
<b>4201.020.11</b>	20 x 5.5 x 1.1	For D = 12 x 20mm
<b>4201.025.11</b>	25 x 5.5 x 1.1	For D = 10mm & 11mm
<b>4201.030.11</b>	30 x 5.5 x 1.1	For D = 12mm, 14mm & 1/2"
<b>4201.050.11</b>	50 x 5.5 x 1.1	For D = 16mm

**Replacement Parts**

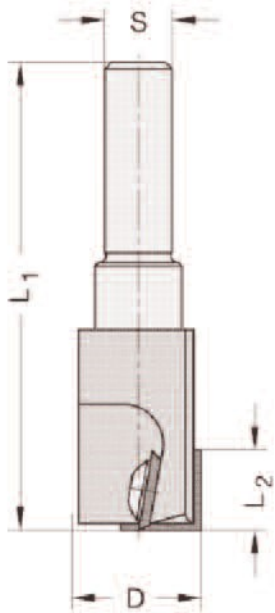
Part Number	Dimensions	D
<b>39080-0-25301-R</b>	M2.5 x 3.0 Screw	For D = 8mm
<b>39080-0-25401-R</b>	M2.5 x 4.0 Screw	For D = 9mm, 10mm, 11mm & 3/8"
<b>39080-0-30701-R</b>	M3.0 x 7.0 Screw	For D = 12mm, 14mm & 1/2"
<b>39080-0-35551-R</b>	M3.5 x 5.5 Screw	For D = 16mm
<b>39077-0-03008-1</b>	TORX star key for M2.5 & M3 screw (T8)	
<b>39077-0-04015-1</b>	TORX star key for M3.5 screw (T15)	

**6219** Z1+Z1

**Insert Router Bit**

For producing rebates and shallow grooves.  
 For use on composite and solid materials.  
 With downshear for clean surface finish.  
 With plunging inserts.

**Maximum RPM = 18,000**



<b>6219.160.12</b>	16	12	70	1/4 x 30
<b>6219.180.12</b>	18	12	70	1/4 x 30
<b>6219.200.12</b>	20	12	70	1/4 x 1/4
<b>6219.240.12</b>	24	12	70	1/4 x 30
<b>6219.161.12</b>	16	12	70	1/2 x 30
<b>6219.181.12</b>	18	12	70	1/2 x 30
<b>6219.201.12</b>	20	12	70	1/2 x 30
<b>6219.241.12</b>	24	12	70	1/2 x 30

**Solid Carbide Inserts**

Part Number	Dimensions	Solid Carbide Knives
<b>4200.012.00</b>	12 x 12 x 1.5	Peripheral insert
<b>4200.008.00</b>	7.5 x 12 x 1.5	Plunge insert for D = 16mm & 18mm
<b>4200.009.00</b>	9 x 12 x 1.5	Plunge insert for D = 20mm
<b>4200.012.00</b>	12 x 12 x 1.5	Plunge insert for D = 24mm

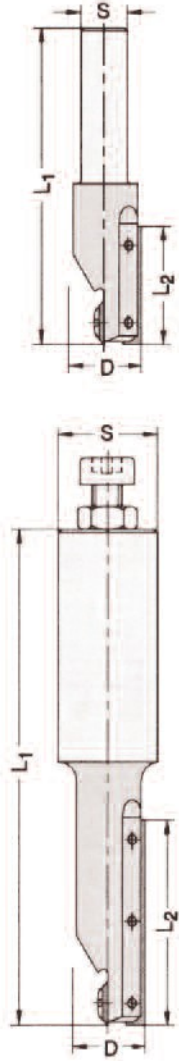
**Replacement Parts**

Part Number	Dimensions	D
<b>39076-0-03500-R</b>	M3.5 x 4 screw	D= 16mm & 18mm
<b>39076-0-04040-R</b>	M4 x 4 screw	D = 20mm
<b>39076-0-04000-R</b>	M4 x 5.9 screw for plunge knife	D = 24mm
<b>39081-0-04050-R</b>	M4 x 5 screw for plunge knife	D = 16mm, 18mm & 20mm
<b>39077-0-04015-1</b>	TORX wrench	

**6219 Z1+Z1**

**Insert Router Bit**

For grooving, jointing & rebating, with plunging insert.  
For use on composite and solid materials.



<b>6219.161.30</b>	16	30	71	10 x 30
<b>6219.180.30</b>	18	30	71	10 x 30
<b>6219.200.30</b>	20	30	71	10 x 30
<b>6219.220.30</b>	22	30	71	10 x 30
<b>6219.162.30</b>	16	30	81	12 x 40
<b>6219.162.31</b>	16	30	81	12 x 40 (LH)
<b>6219.181.30</b>	18	30	81	12 x 40
<b>6219.181.31</b>	18	30	81	12 x 40 (LH)
<b>6219.201.30</b>	20	30	81	12 x 40
<b>6219.201.31</b>	20	30	81	12 x 40 (LH)
<b>6219.221.30</b>	22	30	81	12 x 40
<b>6219.160.50</b>	16	50	101	14 x 40
<b>6219.160.30</b>	16	30	91	16 x 45m.E. M6
<b>6219.160.31</b>	16	30	91	16 x 45m.E. M6 (LH)
<b>6219.161.50</b>	16	50	106	16 x 45m.E. M6
<b>6219.162.50</b>	16	50	116	25 x 55m.E. M8
<b>6219.180.50</b>	18	50	116	25 x 55m.E. M8
<b>6219.180.51</b>	18	50	116	25 x 55m.E. M8 (LH)
<b>6219.190.50</b>	3/4"	50	110	3/4" x 50 m.E. M8
<b>6219.200.31</b>	20	30	96	25 x 55m.E. M8 (LH)
<b>6219.200.50</b>	20	50	116	25 x 55m.E. M8
<b>6219.200.51</b>	20	50	116	25 x 55m.E. M8 (LH)
<b>6219.220.50</b>	22	50	116	25 x 55m.E. M8
<b>6219.163.50</b>	16	50	144	MK2/M30 x 1.5
<b>6219.183.50</b>	18	50	144	MK2/M30 x 1.5
<b>6219.203.50</b>	20	50	144	MK2/M30 x 1.5
<b>6219.221.50</b>	22	50	144	MK2/M30 x 1.5

**Solid Carbide Inserts**

Part Number	Dimensions	Features
<b>4201.030.11</b>	30 x 5.5 x 1.1	
<b>4201.050.11</b>	50 x 5.5 x 1.1	
<b>4200.012.00</b>	12 x 12 x 1.5	Plunging tip (4-sided)

(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

Adjustment screw for Leuco PS system available upon request.

Fractional shank sizes available on request.

**Replacement Parts**

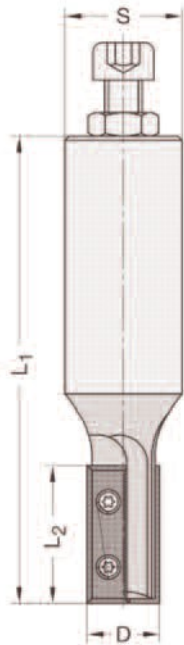
Part Number	Dimensions	Diameter
<b>39080-0-35551-R</b>	M3.5 x 5.5 screw for plunge knife	16mm, 18mm, 3/4"
<b>39080-0-35651-R</b>	M3.5 x 6.5 screw for plunge knife	20mm, 22mm
<b>39076-0-04000-R</b>	M4 x 5.9 TORX screw for plunge knife	16mm, 18mm, 3/4"
<b>39076-0-04070-R</b>	M4 x 7 screw for plunge knife	20mm, 22mm
<b>39077-0-04015-2</b>	TORX star key for M3.5 & M4 screw (T15)	

**6224 Z2**

**Insert Router Bit**

For grooving, rebating and jointing on composite and solid materials.

Maximum RPM = 18,000



<b>6224.161.30</b>	16	30	100	3/4 x 55 m.E. M8
<b>6224.160.30</b>	16	30	100	25 x 55 m.E. M8
<b>6224.161.50</b>	16	50	120	3/4 x 55 m.E. M8
<b>6224.160.50</b>	16	50	120	25 x 55 m.E. M8

**Solid Carbide Inserts**

Part Number	Dimensions	L2	D
<b>6419.030.09</b>	30 x 9 x 1.5	For L2 = 30	16 mm
<b>6419.050.09</b>	50 x 9 x 1.5	For L2 = 50	16 mm

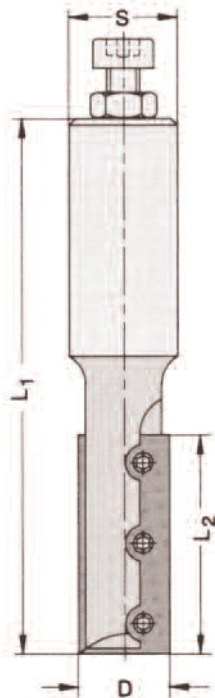
**Replacement Parts**

Part Number	Dimensions
<b>39080-0-03548-R</b>	M3.5 x 4.8 screw
<b>39077-0-04015-2</b>	TORX wrench (T15)

**6218 Z2**

**Insert Router Bit**

For use on composite and solid materials with T.C.T. plunge tip.  
Right hand rotation.



Part Number	D	L2	L1	Shank Dia./Length
<b>6218.240.50</b>	24	50	119	25 x 55 m.E. M8
<b>6218.240.34</b>	24	50	119	3/4 x 55 m.E. M8
<b>6218.300.50</b>	30	50	118	25 x 55 m.E. M8
<b>6218.300.34</b>	30	50	118	3/4 x 55 m.E. M8

**Solid Carbide Inserts**

Part Number	Dimensions
<b>6419.050.00</b>	50 x 12 x 1.7 (3 holes)

**Replacement Parts**

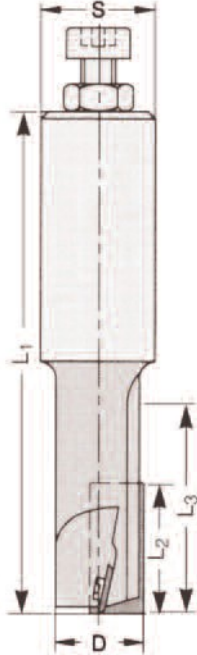
Part Number	Replacement Parts	D
<b>39081-0-04060-R</b>	M4 x 6 screw	For D = 24 mm
<b>39076-0-04000-R</b>	M4 x 5.9 screw	For D = 30 mm
<b>39077-0-04015-2</b>	TORX wrench for M4 screws (T15)	

m.E. denotes adjusting screw size.

**6242** Z1+1

**Insert Router Bit**

For cutting composite and solid materials.  
With carbide-tipped plunge point.



<b>6242.160.30</b>	16	30/40	107	25 x 55 m.E. M8
<b>6242.160.34</b>	16	30/40	107	3/4 x 55 m.E. M8
<b>6242.180.34</b>	18	50	115	3/4 x 55 m.E. M8
<b>6242.180.50</b>	18	50	115	25 x 55 m.E. M8
<b>6242.180.35</b>	18	50	115	3/4 x 55 m.E. M8 (LH)
<b>6242.180.51</b>	18	50	115	25 x 55 m.E. M8 (LH)
<b>6242.200.30</b>	20	30/50	110	25 x 55 m.E. M8
<b>6242.200.34</b>	20	30/50	110	3/4 x 55 m.E. M8
<b>6242.200.58</b>	20	58	120	25 x 55 m.E. M8
<b>6242.201.34</b>	20	58	120	3/4 x 55 m.E. M8

**Technical details:**

One or two edges, cutting on periphery, and one reversible T.C. centre tip for plunge cutting, with shear angle. For mechanical feed.

**Solid Carbide Inserts**

Part Number	Dimensions	D
<b>6419.030.00</b>	30 x 12 x 1.5 (4-sided)	
<b>4200.008.00</b>	7.5 x 12 x 1.5 plunge insert	16 mm + 18 mm
<b>4200.009.00</b>	9 x 12 x 1.5 plunge insert	20 mm

**Replacement Parts**

Part Number	Dimensions	D
<b>39076-0-03500-R</b>	M3.5 screw	16 & 20 mm & 20 mm plunge
<b>39076-0-04040-R</b>	M4.4 screw	18 mm
<b>39081-0-03540-R</b>	M3.5 x 4 screw	16 mm plunge
<b>39081-0-04050-R</b>	M4 x 5 screw	18 mm plunge
<b>39077-0-04015-2</b>	TORX wrench (T15)	

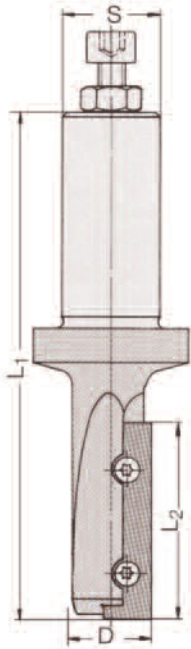
(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

Adjustment screw for Leuco PS system  
available upon request.

**6239 Z1**

**Insert Router Bit**

For jointing composite and solid materials.  
Right hand rotation.



Part Number	D	L2	L1	Shank Dia./Length
6239.129.50	21	50	129	25 x 55 m.E. M8
6239.129.34	21	50	129	3/4 x 55 m.E. M8
6239.139.60	21	60	139	25 x 55 m.E. M8
6239.139.34	21	60	139	3/4 x 55 m.E. M8
6239.169.50	21	50	169	MK2/M30 x 1.5
6239.178.60	21	60	178	MK2/M30 x 1.5

**Technical details:**

Single reversible T.C. tip, T.C. grade HW 02\*, cutting on bottom and periphery, face screw fixing. For mechanical feed.

**Solid Carbide Inserts**

Part Number	Dimensions
6419.051.00	50 x 12 x 1.5
6419.060.00	60 x 12 x 1.5

**Replacement Parts**

Part Number	Replacement Parts
39076-0-04000-R	M4 large head TORX screw
39077-0-04015-2	TORX wrench (T15)

m.E. denotes adjusting screw size.

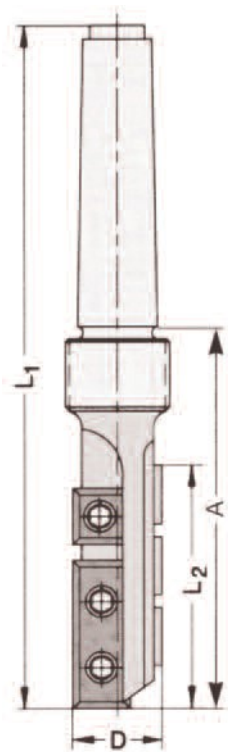
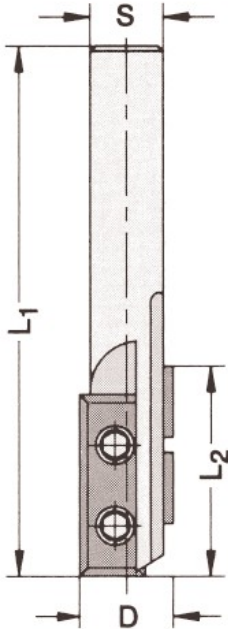
Adjustment screw for Leuco PS system available upon request.

**6220** Z2

For use on composite and solid materials with offset inserts for chipbreakers.

**Insert Router Bit**

Part Number	D	L2	L1	Shank Dia./Length
6220.160.30	16	34	85	14 x 40
6220.160.31	16	34	85	1/2 x 40
6220.160.40	16	45	95	14 x 40
6220.160.41	16	45	95	1/2 x 40



**6222** Z2

Same application as above.

Part Number	D	L2	L1	Shank Dia./Length
6222.200.20	20	50	120	20 x 50 m.E. M8
6222.200.34	20	50	120	3/4 x 50 m.E. M8

**Solid Carbide Inserts**

Part Number	Cut Length	Dimensions
6419.030.00	34 mm	(1) pc 30 x 12 x 1.5 (4-sided)
4200.012.00		(2) pc 12 x 12 x 1.5 (4-sided)
6419.030.00	45 mm	(1) pc 30 x 12 x 1.5 (4-sided)
4200.012.00		(3) pc 12 x 12 x 1.5 (4-sided)
6419.030.00	50 mm	(1) pc 30 x 12 x 1.5 (4-sided)
4200.012.00		(4) pc 12 x 12 x 1.5 (4-sided)

**Replacement Parts**

Part Number	Replacement Parts
39076-0-04000-R	M4 x 5.9 TORX screw
39077-0-04015-2	TORX wrench

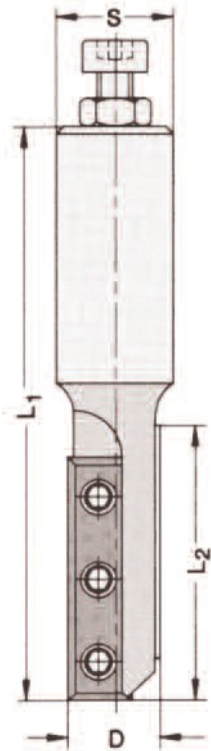
(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.



**6225 Z2****Insert Router Bit**

For use on composite and solid materials requiring a finish without lines.

With carbide-tipped plunge point.



Part Number	D	L2	L1	Shank Dia./Length
6225.182.34	18	35	105	3/4 x 55 m.E.
6225.182.35	18	35	105	3/4 x 55 m.E. (LH)
6225.182.25	18	35	105	25 x 55
6225.180.25	18	55	125	25 x 55 m.E. M8
6225.180.34	18	55	125	3/4 x 55 m.E. M8
6225.181.25	18	55	125	25 x 55 m.E. M8 (LH)
6225.180.35	18	55	125	3/4 x 55 m.E. (LH)
6225.200.25	20	55	125	25 x 55 m.E. M8
6225.201.25	20	55	125	25 x 55 m.E. M8 (LH)
6225.200.34	20	55	125	3/4 x 55 m.E. M8
6225.200.35	20	55	125	3/4 x 55 m.E. (LH)
6225.220.25	22	55	125	25 x 55 m.E. M8
6225.220.34	22	55	125	3/4 x 55 m.E. M8

**Technical details:**

Two staggered reversible T.C. tips, 4-sided, back screw fixing. With T.C. centre tip for plunge cutting. For manual and mechanical feed.

**Application:**

For grooving, jointing, trimming and rebating, for severing and apertures in solid wood, various kinds of wood composites and boards, on stationary routers with our without CNC control.

**Solid Carbide Inserts**

Part Number	Dimensions
6419.050.00	50 x 12 x 1.7 (3-holes)
6419.030.00	30 x 12 x 1.5 (4-sided)

**Replacement Parts**

Part Number	Replacement Parts
39076-0-04000-R	M4 x 5.9 screw
39077-0-04015-2	TORX Wrench

(LH) denotes left hand rotation.

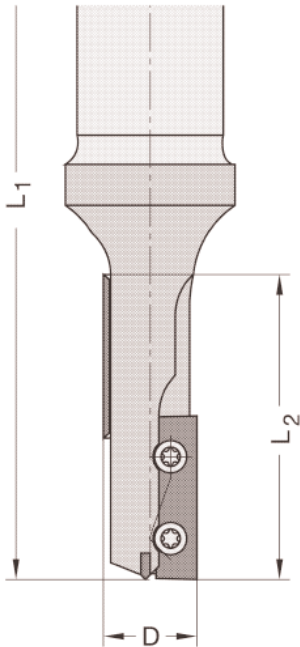
m.E. denotes adjusting screw size.

Adjustment screw for Leuco PS system  
available upon request.

**6243 Z1**

**Insert Router Bit with Shear**

With upshear and downshear inserts.  
 Designed for chip-free cuts on two-sided materials.  
 With TCT plunge tip.



Part Number	D	L2	L1	Shank Dia./Length
6243.160.30	16	30	110	25 x 55 m.E. M8
6243.160.31	16	30	110	25 x 55 m.E. M8 (LH)
6243.161.30	16	30	110	3/4 x 55 m.E. M8
6243.161.31	16	30	110	3/4 x 55 m.E. M8 (LH)
6243.160.50	16	50	125	25 x 55 m.E. M8
6243.160.51	16	50	125	25 x 55 m.E. M8 (LH)
6243.161.50	16	50	125	3/4 x 55 m.E. M8
6243.161.51	16	50	125	3/4 x 55 m.E. M8 (LH)
6243.180.50	18	50	125	25 x 55 m.E. M8
6243.180.51	18	50	125	25 x 55 m.E. M8 (LH)
6243.181.50	18	50	125	3/4 x 55 m.E. M8
6243.181.51	18	50	125	3/4 x 55 m.E. M8 (LH)

**Solid Carbide Inserts**

Part Number	Dimensions	L2
6243.016.00	16 x 7 x 1.5	30 mm
6243.028.00	28 x 7 x 1.5	50 mm

**Replacement Parts**

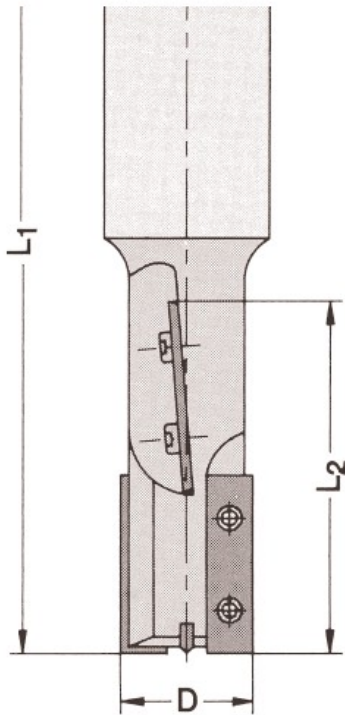
Part Number	Replacement Parts
39081-0-03040-R	M3 x 4 screw
39077-0-03009-2	TORX wrench

(LH) denotes left hand rotation.  
 m.E. denotes adjusting screw size.

Adjustment screw for Leuco PS system  
 available upon request.

**6243 Z2****Insert Router Bit with Shear**

Compression style, with upshear and downshear inserts.  
Designed for chip-free cuts on two-sided materials.  
With TCT plunge tip.



Part Number	D	L2	L1	Shank Dia./Length
<b>6243.020.30</b>	20	30	110	25 x 55 m.E. M8
<b>6243.020.34</b>	20	30	110	3/4 x 55 m.E. M8
<b>6243.020.35</b>	20	30	110	3/4 x 55 m.E. M8 (LH)
<b>6243.020.31</b>	20	30	110	25 x 55 m.E. M8 (LH)
<b>6243.020.50</b>	20	50	125	25 x 55 m.E. M8
<b>6243.021.34</b>	20	50	125	3/4 x 55 m.E. M8
<b>6243.020.51</b>	20	50	125	25 x 55 m.E. M8 (LH)
<b>6243.021.35</b>	20	50	125	3/4 x 55 m.E. M8 (LH)
<b>6243.030.75</b>	30	75	145	25 x 55 m.E. M8

**Solid Carbide Inserts**

Part Number	Dimensions	L2
<b>6243.016.00</b>	16 x 7 x 1.5	30
<b>6243.028.00</b>	28 x 7 x 1.5	50
<b>6419.040.09</b>	40 x 9 x 1.5	75
<b>4200.008.00</b>	7.5 x 12 x 1.5	Plunge Insert for D = 30 mm

**Replacement Parts**

Part Number	Replacement Parts	D
<b>39081-0-03040-R</b>	M3 x 4 screw	20 mm
<b>39077-0-03009-2</b>	TORX wrench (T9)	
<b>39080-0-03540-R</b>	M3.5 x 4 screw	30 mm
<b>39081-0-04050-R</b>	M4 x 5 screw for 30 mm plunge	
<b>39077-0-04015-2</b>	TORX wrench (T19)	

(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

Adjustment screw for Leuco PS system  
available upon request.

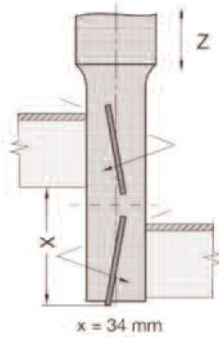
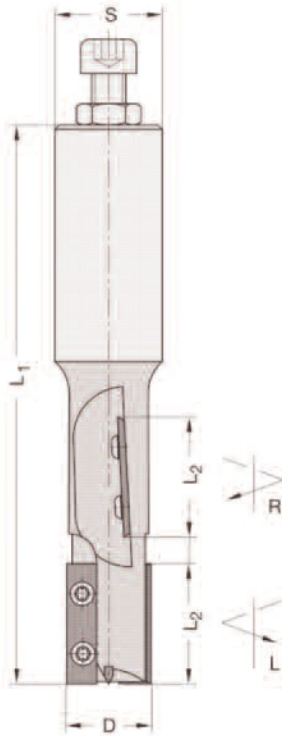
**6244** Z2+Z2

**Insert Router Bit with Shear**

For right hand and left hand rotations.  
Adjust Z-axis (up/down) for desired rotation.

With downshear inserts designed for chip-free cuts on single-sided materials.

Part Number	D	L2	L1	Shank Dia./Length
<b>6244.200.28</b>	20	28	130	25 x 55 m.E. M8
<b>6244.200.34</b>	20	28	130	3/4 x 55 m.E. M8



**Solid Carbide Inserts**

Part Number	Solid Carbide Inserts
<b>6243.028.00</b>	28 x 7 x 1.5

**Replacement Parts**

Part Number	Replacement Parts
<b>39081-0-03040-R</b>	M3 x 4 screw
<b>39077-0-03009-2</b>	TORX wrench

**(LH)** denotes left hand rotation.  
**m.E.** denotes adjusting screw size.

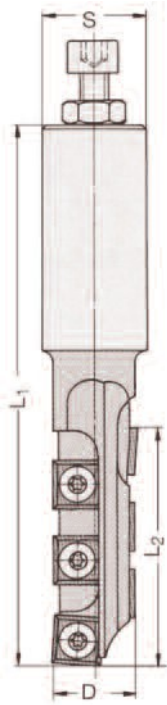
Adjustment screw for Leuco PS system available upon request.

Top insert used for right hand rotation.  
Bottom insert used for left hand rotation.

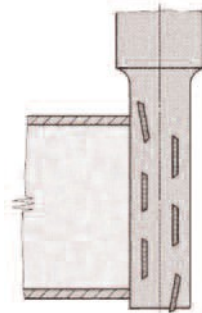
**6223** Z1+1

**Insert Router Bit  
with Chipbreakers**

Chipbreaker style for faster feed rates.  
With upshear and downshear on two-sided materials.



Part Number	D	L2	L1	A	Shank Dia./Length
<b>6223.220.42</b>	22	42	115		25 x 55 m.E. M8
<b>6223.220.34</b>	22	42	115		3/4 x 55 m.E. M8
<b>6223.220.60</b>	22	60	131		25 x 55 m.E. M8
<b>6223.221.34</b>	22	60	131		3/4 x 55 m.E. M8
<b>6223.221.42</b>	22	42	115	80	MK2/M30 x 1.5
<b>6223.221.60</b>	22	60	131	96	MK2/M30 x 1.5

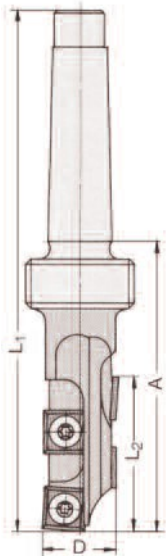


**Solid Carbide Inserts**

Part Number	Dimensions
<b>4200.012.00</b>	12 x 12 x 1.5

**Replacement Parts**

Part Number	Replacement Parts
<b>39076-0-04000-R</b>	M4 TORX screw
<b>39077-0-04015-2</b>	TORX wrench (T15)



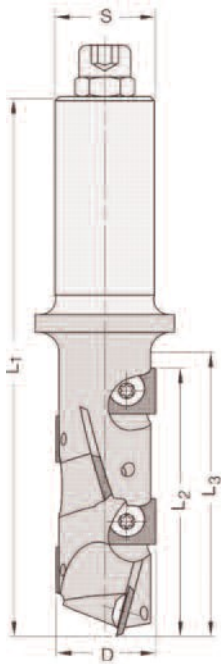
**(LH)** denotes left hand rotation.  
**m.E.** denotes adjusting screw size.

Adjustment screw for Leuco PS system  
available upon request.

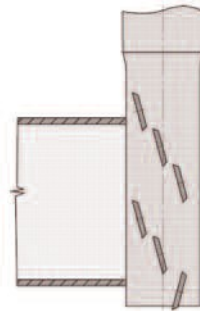
**6226 Z1+1**

**Insert Router Bit**

Compression style, with upshear and downshear design.  
For chip-free cuts on double-sided composite material.



Part Number	D	L2	L1	Shank Dia./Length
<b>6226.250.34</b>	25	44	113	3/4" x 55 m.E.
<b>6226.250.35</b>	25	44	113	3/4" x 55 m.E. (LH)
<b>6226.250.44</b>	25	44	113	25 x 55 m.E.
<b>6226.250.45</b>	25	44	113	25 x 55 m.E. (LH)
<b>6226.251.34</b>	25	66	135	3/4" x 55 m.E.
<b>6226.251.35</b>	25	66	135	3/4" x 55 m.E. (LH)
<b>6226.251.66</b>	25	66	135	25 x 55 m.E.
<b>6226.251.67</b>	25	66	135	25 x 55 m.E. (LH)



**Solid Carbide Inserts**

Part Number	Dimensions
<b>4200.012.00</b>	12 x 12 x 1.5

**Replacement Parts**

Part Number	Replacement Parts
<b>39081-0-04050-R</b>	M4 x 5 screw
<b>39077-0-04015-2</b>	TORX wrench (T15)



(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

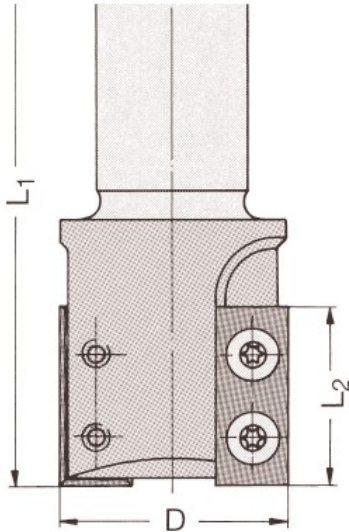
Adjustment screw for Leuco PS system  
available upon request.

**6240 Z2**

**Insert Router Bit**

For grooving, jointing and rebating on composite and solid materials.  
Right hand rotation.

Part Number	D	L2	L1	Shank Dia./Length
6240.400.30	40	30	99	25 x 55 m.E.
6240.400.34	40	30	99	3/4" x 55 m.E.



**Solid Carbide Inserts**

Part Number	Dimensions	Notes
4200.030.00	30 x 12 x 1.5 (two-sided)	For jointing only
6419.030.00	30 x 12 x 1.5 (four-sided)	For bottom cutting

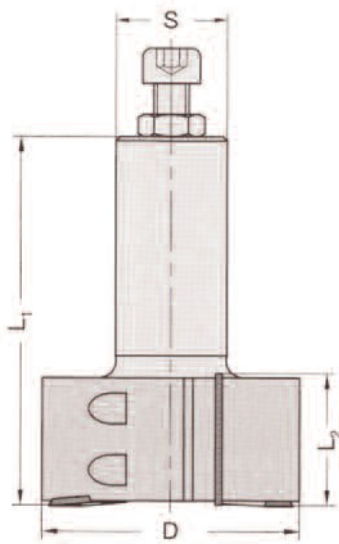
**Replacement Parts**

Part Number	Replacement Parts
39076-0-04000-R	M4 x 5.9 screw
39077-0-04015-2	TORX wrench (T15)

**6241 Z2+V2**

**Insert Router Bit**

For jointing and rebating on composite and solid materials. With spurs. Right hand rotation.



Part Number	D	L2	Shank Dia./Length
6241.400.34	40	30	3/4" x 55 m.E.
6241.400.30	40	30	25 x 55 m.E.
6241.600.34	60	30	3/4" x 55 m.E.
6241.600.30	60	30	25 x 55 m.E.
6241.600.54	60	50	3/4" x 55 m.E.
6241.600.50	60	50	25 x 55 m.E.

**Solid Carbide Inserts**

Part Number	Dimensions
4200.030.00	30 x 12 x 1.5 (two-sided)
4200.050.00	50 x 12 x 1.5 (two-sided)
4200.014.04	14 x 14 x 2 (four-sided)

**Replacement Parts**

Part Number	Replacement Parts
39266-0-06012-R	Screw for wedge
39130-0-05009-R	Screw for spur M5X9

(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

Adjustment screw for Leuco PS system available upon request.

**4098 Z2**

**Vari-Angle Insert Router Bit**

For jointing and for producing angled cuts in solid wood or composite materials.  
Adjustable 0 to 45° up or down in 5° increments.



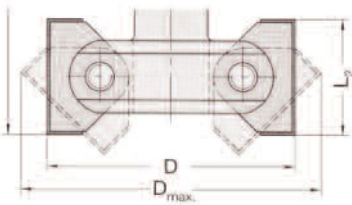
Part Number	D	D Max	L2	Shank Dia./Length
<b>4098.085.00</b>	85	102	40	25 x 55 m.E.
<b>4098.085.34</b>	85	102	40	3/4" x 55 m.E.

**Solid Carbide Inserts**

Part Number	Dimensions	Notes
<b>6419.040.00</b>	40 x 12 x 1.5	ends beveled, double-sided
<b>4200.040.00</b>	40 x 12 x 1.5	without ends beveled, double-sided

**Replacement Parts**

Part Number	Replacement Parts
<b>39070-0-06080-R</b>	M6 x 8 screw for inserts
<b>39140-0-00501-0</b>	Wrench SW5
<b>39120-0-03000-0</b>	Wrench SW3 for inserts



**4099 Z2**

**Vari-Angle Insert Router Bit**

For jointing and producing angled cuts in solid wood or composite materials.  
Adjustable 0 to 45° up and 0 to 90° down in 2-1/2° increments.

Part Number	D	D Max	L2	Shank Dia./Length
<b>4099.085.00</b>	85	102	40	25 x 55 m.E.
<b>4099.085.34</b>	85	102	40	3/4 x 55 m.E.

**Solid Carbide Inserts**

Part Number	Dimensions	Notes
<b>6419.040.00</b>	40 x 12 x 1.5	ends beveled, double-sided
<b>4200.040.00</b>	40 x 12 x 1.5	without ends beveled, double-sided

**Replacement Parts**

Part Number	Replacement Parts
<b>39070-0-06080-R</b>	M6 x 8 screw for inserts
<b>39165-0-05016-R</b>	M5 x 16 screw
<b>39140-0-00401-0</b>	wrench SW4
<b>39120-0-03000-0</b>	wrench SW3 for inserts

(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

Adjustment screw for Leuco PS system  
available upon request.

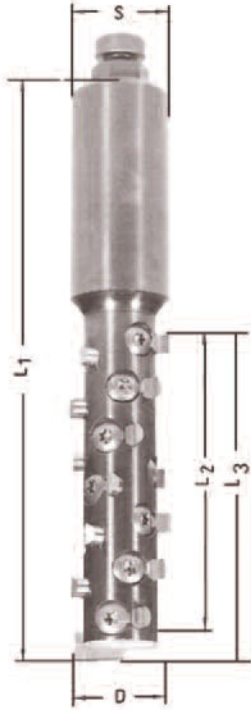


# 6235 Z3

# NOVITEC Router Bit

A spiral router bit designed for roughing/hogging composite materials and solid woods. Replacement tips available in carbide and diamond with straight, 8° upshear or 8° downshear cutting styles. The NOVITEC is supplied with straight carbide knives unless specified otherwise.

Not recommended for finish cuts.



<b>6235.116.42</b>	16	42/48	110	3/9	14 x 55
<b>6235.116.43</b>	16	42/48	110	3/9	14 x 55 (LH)
<b>6235.116.56</b>	16	56/62	125	3/12	14 x 55
<b>6235.016.42</b>	16	42/48	110	3/9	25 x 55 m.E.
<b>6235.016.56</b>	16	56/62	125	3/12	25 x 55 m.E.
<b>6235.018.28</b>	18	28/34	104	3/6	25 x 55 m.E.
<b>6235.018.42</b>	18	42/48	118	3/9	25 x 55 m.E.
<b>6235.018.56</b>	18	56/62	132	3/12	25 x 55 m.E.
<b>6235.018.57</b>	18	56/62	132	3/12	25 x 55 m.E. (LH)
<b>6235.020.42</b>	20	42/48	118	3/9	25 x 55 m.E.
<b>6235.020.56</b>	20	56/62	132	3/12	25 x 55 m.E.
<b>6235.024.42</b>	24	42/48	118	3/9	25 x 55 m.E.
<b>6235.024.56</b>	24	56/62	126	3/12	25 x 55 m.E.
<b>6235.024.57</b>	24	56/62	126	3/12	25 x 55 m.E. (LH)
<b>6235.024.70</b>	24	70/76	140	3/15	25 x 55 m.E.
<b>6235.024.71</b>	24	70/76	140	3/15	25 x 55 m.E. (LH)
<b>6235.024.83</b>	24	83/90	153	3/18	25 x 55 m.E.
<b>6235.019.42</b>	3/4"	42/48	105	3/9	3/4" x 50 m.E.
<b>6235.019.56</b>	3/4"	56/62	119	3/12	3/4" x 50 m.E.

### Recommended Feedrates

Composites = 400"/min  
Solid Woods = 325"/min

Maximum RPM= 24,000

### Features

- Quiet cutting
- Low cutting pressure on the tool
- Knives can be resharpened 3 to 4 times

**(LH)** denotes left hand rotation.  
**m.E.** denotes adjusting screw size.

**Z/AS** denotes # of wings/total # of knives per cutter.

Adjustment screw for Leuco PS system available upon request.

Special sharpening fixture available (See spare parts).

Fractional shank sizes available on request.

### Solid Carbide Inserts

Part Number	Cut	D
<b>6235.055.00</b>	Straight	For D = 16-20 mm, 3/4"
<b>6235.055.01</b>	8° upshear	For D = 16-20 mm, 3/4"
<b>6235.055.02</b>	8° downshear	For D = 16-20 mm, 3/4"
<b>6235.070.00</b>	Straight	For D = 24 mm
<b>6235.070.01</b>	8° upshear	For D = 24 mm
<b>6235.070.02</b>	8° downshear	For D = 24 mm

**6235 Z3**

**NOVITEC Router Bit Replacement Parts**

Solid Carbide Plunge Tips



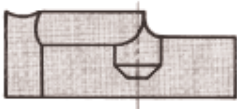
TCT Tips

Size 1: for 16-20mm, 3/4"

L1 = 5.5mm

Size 2: for 21mm and up

L2 = 7.0mm



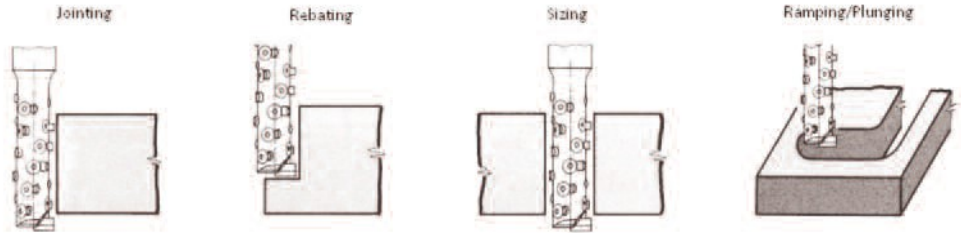
TCT Plunge Point

Part Number	D	Rotation
<b>6235.000.16</b>	For D = 16 mm	RH
<b>6235.001.16</b>	For D = 16 mm	LH
<b>6235.000.18</b>	For D = 18 mm	RH
<b>6235.001.18</b>	For D = 18 mm	LH
<b>6235.000.19</b>	For D = 3/4"	RH
<b>6235.000.20</b>	For D = 20 mm	RH
<b>6235.001.20</b>	For D = 20 mm	LH
<b>6235.000.24</b>	For D = 24 mm	RH
<b>6235.001.24</b>	For D = 24 mm	LH

TORX Screws for Knives

Part Number	Dimensions	D
<b>39085-0-03055-R</b>	M3 x 5.5 (T9)	For D = 16-20 mm, 3/4"
<b>39085-0-04067-R</b>	M4 x 6.7 (T15)	For D = 24 mm

- straight (no shear)
- with 8° upshear
- with 8° downshear (as with RH rotation)



TORX Screws for Plunge Tip

Part Number	Dimensions	D
<b>39084-0-03089-R</b>	M3 x 8 (T9)	For D = 16-20 mm, 3/4"
<b>39084-0-03080-R</b>	M3 x 8 (T15)	For D = 22, 24 mm

Sharpening Fixture for Knives

Part Number	Notes
<b>6235.500.00</b>	Call for information

(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

Z/AS denotes # of wings/total # of knives per cutter.

Adjustment screw for Leuco PS system available upon request.

Special sharpening fixture available (See spare parts).

Fractional shank sizes available on request.

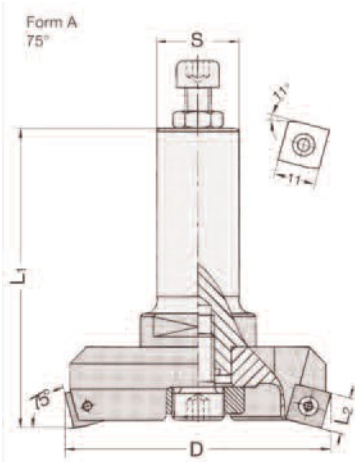
# 4321 Z4

## Router Bit for Planing

Insert router bit designed for use on CNC machines for planing composite materials creating a true flat surface. The special highly-polished knives may be resharpened several times. Tool body mounted on a shaft.

Right hand rotation.

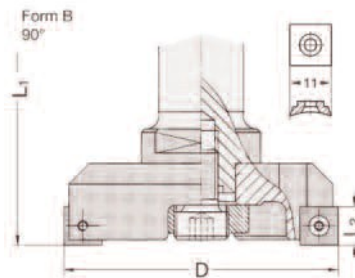
**Maximum RPM= 12,000**



<b>4321.080.19</b>	A	80	11	93	3/4" x 55
<b>4321.080.20</b>	A	80	11	93	20 x 55
<b>4321.080.00</b>	A	80	11	93	25 x 55
<b>4321.081.19</b>	B	80	11	93	3/4" x 55
<b>4321.081.20</b>	B	80	11	93	20 x 55
<b>4321.081.00</b>	B	80	11	93	25 x 55

**Form A** produces chip-free finishes on the outside edges of the material.

**Form B** is a better all-around tool that can also be used for rebates but for use when a lower quality finish is acceptable on the outside edges of the material.



### Replacement Parts

Part Number	Replacement Part	Form
<b>4321.075.00</b>	Tool body without shaft	A (75°)
<b>4321.090.00</b>	Tool body without shaft	B (90°)
<b>4320.011.00</b>	Knives 11 x 11 x 4	A
<b>6232.011.00</b>	Knives 11 x 11 x 4	B
<b>39084-0-03075-R</b>	M3 x 7.5 TORX screw (T10)	
<b>39077-0-03010-3</b>	TORX wrench (T10)	
<b>39140-0-00601-0</b>	SW 6 wrench	

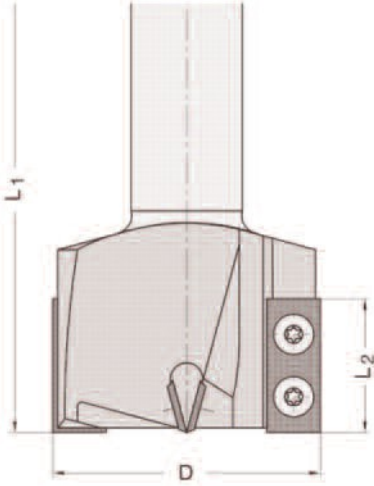
Arbors with SK30, ISO30, SK40 and HSK63F available upon request.

**6245 Z2+2**

Multi-use router bit for boring, grooving, rebating, jointing and planing.

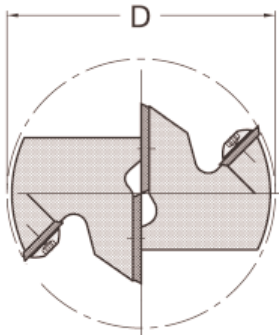
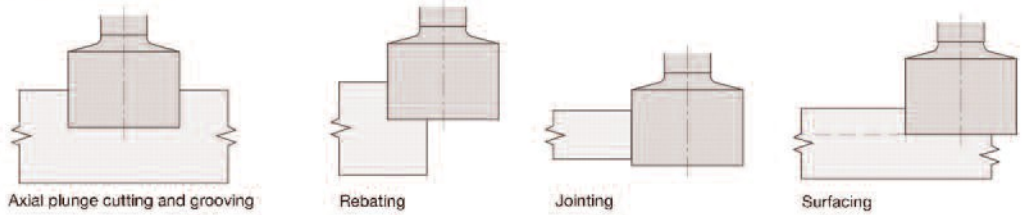
**Multi-Use Router Bit**

When boring over 10mm depths, **RPM must be 12,000.**



Part Number	D	L2	L1	Shank Dia./Length
6245.350.34	35	30	90	3/4" x 55 m.E.
6245.350.30	35	30	90	25 x 55 m.E.
6245.400.34	40	30	90	3/4" x 55 m.E.
6245.400.30	40	30	90	25 x 55 m.E.
6245.600.34	60	30	105	3/4" x 55 m.E.
6245.600.30	60	30	105	25 x 55 m.E.
6245.800.34	80	12	78	3/4" x 55 m.E.
6245.800.30	80	12	78	25 x 55 m.E.

Examples of application



**Solid Carbide Inserts**

Part Number	Dimensions	D
4200.012.00	12 x 12 x 1.5	Peripheral insert for D = 80 Plunge insert for D = 35 & 40
4200.020.00	20 x 12 x 1.5	Plunge insert for D = 60
4200.030.00	30 x 12 x 1.5	Plunge insert for D = 80
6419.030.00	30 x 12 x 1.5	Peripheral insert for D = 35, 40 & 60

**Replacement Parts**

Part Number	Replacement Parts
39076-0-04000-R	M4 Screw
39077-0-04015-2	TORX wrench

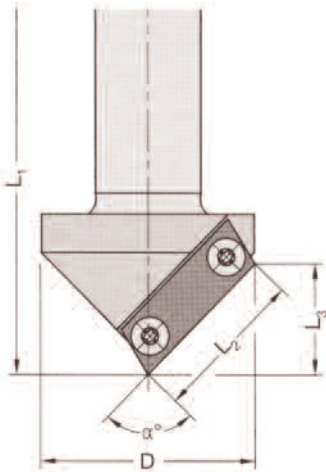
m.E. denotes adjusting screw size.

**4320 Z1**

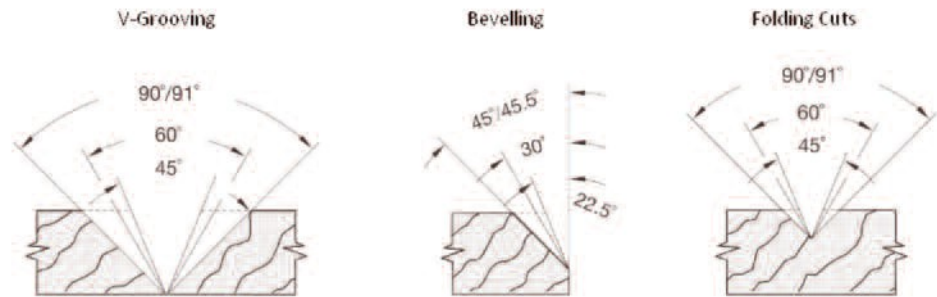
**V Groove Insert Router Bit**

Designed for V-grooving, bevelling and folding.  
Using special inserts for producing 60° or 91° angles.

Maximum RPM= 18,000



Part Number	D	Deg.	L2	L3	L1	Shank
<b>4320.415.25</b>	41.5	60°	41.5	35	118	25 x 55 m.E.
<b>4320.415.34</b>	41.5	60°	41.5	35	118	3/4 x 55 m.E.
<b>4320.050.25</b>	50	90°	36.4	25	93	25 x 55 m.E.
<b>4320.050.34</b>	50	90°	36.4	25	93	3/4 x 55 m.E.



**Solid Carbide Inserts**

Part Number	Dimensions	Grade	Degree
<b>4320.040.00</b>	40 x 12 x 1.5	Standard grade	For 90°
<b>4320.041.00</b>	40 x 12 x 1.5	D050 grade	For 90°
<b>4320.050.00</b>	50 x 12 x 1.5	Standard grade	For 60°

**Replacement Parts**

Part Number	Replacement Parts
<b>39076-0-04040-R</b>	M4 x 4 screw
<b>39077-0-04015-2</b>	TORX wrench (T15)

m.E. denotes adjusting screw size.

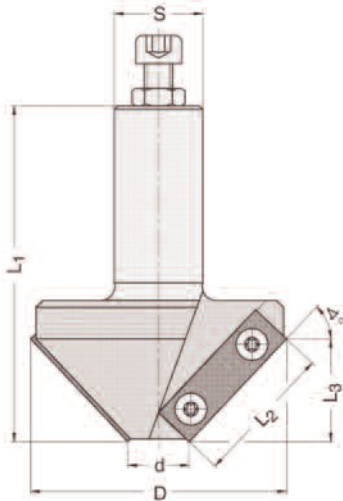
**4322 Z2**

**45° Insert Router Bit**

For producing 45° angle cuts.

Tool body with two reversible T.C. tips. Cutting on periphery only. Right-hand rotation.  
For mechanical feed. For bevelling in various kinds of wood composites and panel materials on CNC machines and stationary routers.

**Maximum RPM= 12,000**



Part Number	D	Deg.	L2	L3	L1	Shank Dia./Length
<b>4322.074.34</b>	74	45°	40	28	95	3/4 x 55 m.E.
<b>4322.074.20</b>	74	45°	40	28	95	20 x 55 m.E.
<b>4322.074.25</b>	74	45°	40	28	95	25 x 55 m.E.

**Solid Carbide Inserts**

Part Number	Dimensions
<b>4200.040.00</b>	40 x 12 x 1.5

**Replacement Parts**

Part Number	Replacement Parts
<b>39076-0-04000-R</b>	M4 x 5.9 screw
<b>39077-0-04015-2</b>	TORX wrench (T15)

m.E. denotes adjusting screw size.

# 4319 Z1

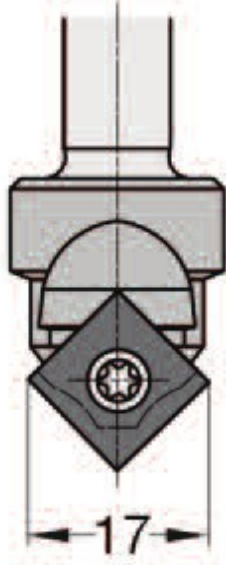
## Decorative Insert Router Bit

For decorative grooving, lettering and engraving, rounding over of edges, etc.  
 Decorative insert router bit with nine standard profiles.  
 Special profiles available upon request.

Tempered tool body, supplied with one reversible T.C. tip for profile No. 1 as basic equipment.  
 T.C. tip with shear cut from top. The basic tip can be profiled on one side.

Maximum area available for profiling as per below sketch.

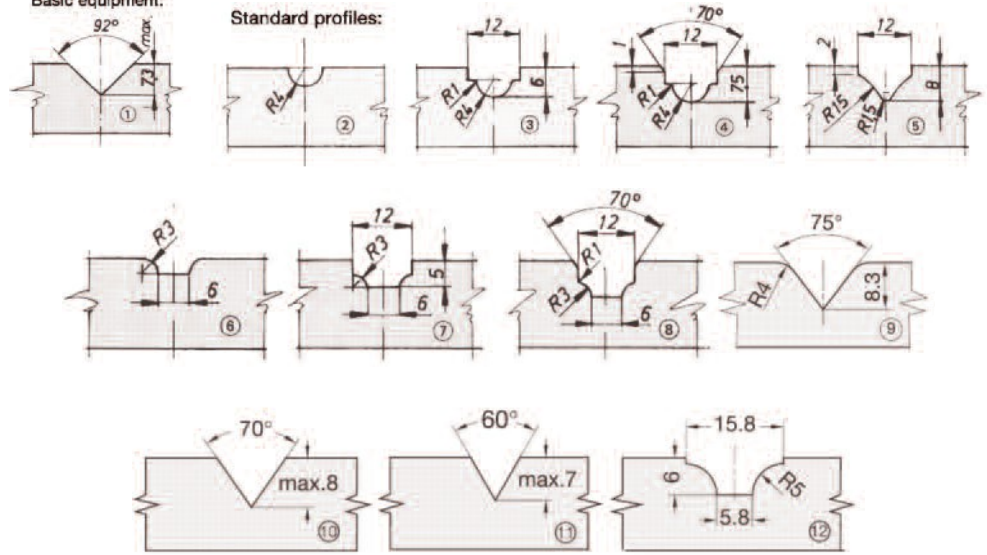
For mechanical feed.



Part Number	D	L3	A	L1	Shank Dia./Length
<b>4319.012.00</b>	17	8.5	27	57.5	10 x 30

Basic equipment:

Standard profiles:



### Solid Carbide Inserts



Part Number	Dimensions
<b>4200.012.00</b>	12 x 12 x 1.5 (Profile #1)
<b>4319.012.02</b>	Profile #2, 3 & 4
<b>4319.012.05</b>	Profile #5
<b>4319.012.06</b>	Profile #6, 7 & 8
<b>4319.012.09</b>	Profile #9
<b>4319.012.10</b>	Profile #10
<b>4319.012.11</b>	Profile #11
<b>4319.012.12</b>	Profile #12

### Replacement Parts

Part Number	Replacement Parts
<b>39081-0-04048-R</b>	TORX screw M4 x 4.8
<b>39077-0-04015-R</b>	TORX wrench

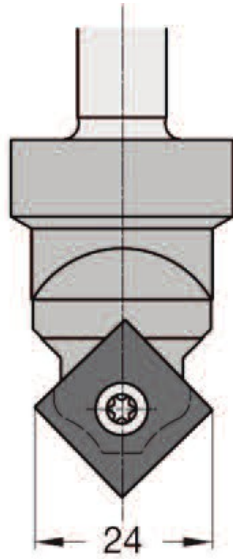
Profiles can be customized to specifications required.

# 4322 Z1

## Decorative Insert Router Bit

Similar to series No. 4319 but designed to produce larger decorative profiles in solid woods and composite materials. Profile area per shaded diagram below. For decorative grooving, lettering, etc., as well for bevelling or rounding over of edges.

Can be profiled on one side within the available area for profiling.



Part Number	D	L3	L1	Shank Dia./Length
4322.024.00	24	11.8	88	12 x 40

### Solid Carbide Inserts

Part Number	Dimensions	Angle
4200.017.17	17 x 17 x 2.0	For 92° angle
4322.017.00	Special profile	

### Replacement Parts

Part Number	Replacement Parts
39076-0-04000-R	M4 screw
39077-0-04015-2	TORX screw (T15)

Profiles can be customized to specifications required.

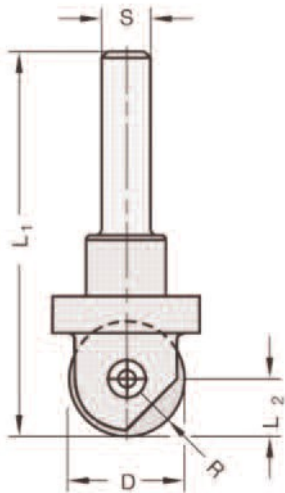
# 4096 Z1

## Profile Insert Router Bit

Round nose (core box) insert router bit for producing round nose profiles in solid wood and composite materials. For most core box and cove operations. For use on stationary or portable routers.

Tool body with one replaceable circular T.C. tip. For manual and mechanical feed.

Right-hand rotation.



Part Number	D	R	L2	Shank Dia.
4096.127.63	1/2	1/4	1/4	1/4
4096.127.12	1/2	1/4	1/4	1/2
4096.160.63	5/8	5/16	5/16	1/4
4096.160.12	5/8	5/16	5/16	1/2
4096.190.63	3/4	3/8	3/8	1/4
4096.190.12	3/4	3/8	3/8	1/2

### Four-times the tool life:

Just by unscrewing the clamping screw and turning the circular tip your can easily change over to a new ready-for-operation area once a part of the tip has become blunt or damaged.

### Solid Carbide Inserts

Part Number	Radius
4096.635.00	1/4"
4096.080.00	5/16"
4096.953.00	3/8"

Tool body price does not include inserts.

Tool body supplied with one reversible T.C. tip for 92° decorative grooves or 46° bevels.

### Replacement Parts

Part Number	Replacement Parts
39082-0-03565-0	M3.5 x 6.5 screw
39077-0-04015-1	TORX wrench (T15)

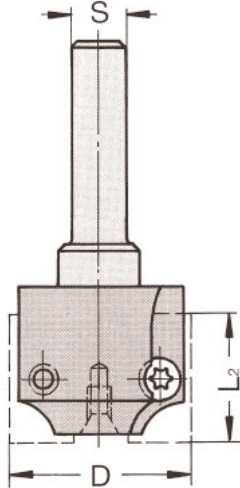


**4097 Z2**

Router bit designed to produce various profiles using the standard inserts shown below.  
Special profiles available upon request.

**Profile Insert Router Bit**

Can be supplied with a bearing.

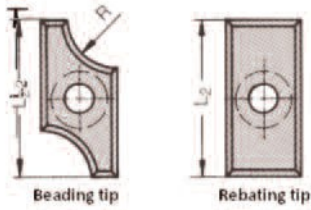


Part Number	D	R	L2	d2	S
4097.026.63	26	2-5	19.5	16-22	1/4"
4097.026.12	26	2-5	19.5	16-22	1/2"
4097.032.63	32	6-8	26	16-20	1/4"
4097.032.12	32	6-8	26	16-20	1/2"
4097.036.63	36	10	30	16	1/4"
4097.036.12	36	10	30	16	1/2"

Basic tool body with interchangeable shank, screws for tips and covering screw. To be used in conjunction with tips for beading, rebating, bevelling, coving, with standard or special profiles.

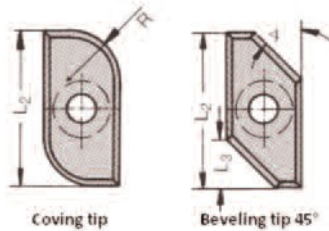
**Round Over Inserts**

Part Number	Radius	Size
4097.195.02	2	19.5 x 9 x 1.5
4097.195.03	3	19.5 x 9 x 1.5
4097.195.04	4	19.5 x 9 x 1.5
4097.195.05	5	19.5 x 9 x 1.5
4097.195.06	6	26 x 12.5 x 1.5
4097.195.08	8	26 x 12.5 x 1.5
4097.195.10	10	30 x 14.5 x 1.5



**Cove Inserts**

Part Number	Radius	Size
4097.196.05	5	19.5 x 9 x 1.5
4097.027.06	6	26 x 12.5 x 1.5
4097.027.08	8	26 x 12.5 x 1.5
4097.031.10	10	30 x 14.5 x 1.5



**Straight and Bevel Inserts**

Part Number	Straight/Bevel	Size
4097.195.00	4-sided straight	19.5 x 9 x 1.5
4097.026.00	4-sided straight	26 x 12.5 x 1.5
4097.030.00	4-sided straight	30 x 14.5 x 1.5
4097.197.05	45° Bevel, L3 = 5mm	19.5 x 9 x 1.5
4097.197.08	45° Bevel, L3 = 8mm	26 x 12.5 x 1.5
4097.197.10	45° Bevel, L3 = 10mm	30 x 14.5 x 1.5

Metric shank sizes also available.

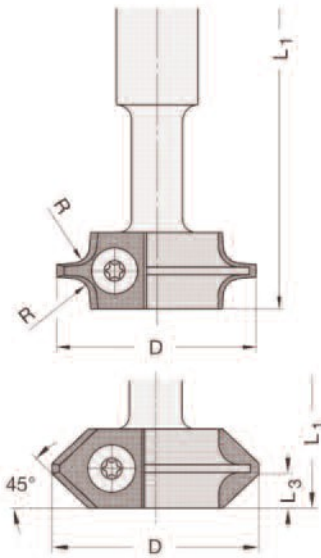
Supplied without tips and without guide set.

Profiles can be customized to specifications required.

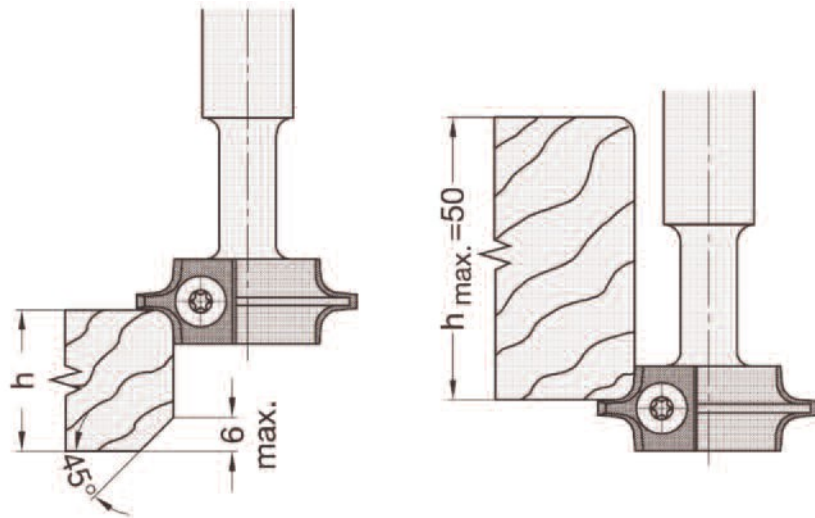
# 6976 Z2 Radius/Chamfer Insert Router Bit

For producing radius and chamfers on the top and bottom edges of composite and solid materials. For one- or both-side rounding over or bevelling operations in solid wood or various kinds of panel materials on stationary routers or CNC machines.

Maximum RPM= 18,000



Part Number	Radius/Deg.	D	L1	Shank Dia./Length
6976.040.02	2	40	100	16 x 60 m.E.
6976.040.03	3	40	100	16 x 60 m.E.
6976.040.04	4	40	100	16 x 60 m.E.
6976.040.05	5	40	100	16 x 60 m.E.
6976.040.45	45°	40	100	16 x 60 m.E.



Maximum material thickness: 50mm (2")

## Solid Carbide Inserts

Part Number	Dimensions	Radius/Deg.
6976.015.02	15 x 18 x 2	2
6976.015.03	15 x 18 x 2	3
6976.015.04	15 x 18 x 2	4
6976.015.05	15 x 18 x 2	5
6976.015.45	15 x 18 x 2	45°

## Replacement Parts

Part Number	Replacement Parts
39081-0-04050-R	M4 x 5 screw
39077-0-04015-2	TORX wrench (T15)

m.E. denotes adjusting screw size.

# 4330 Z2

## Combination Insert Router Bit

A three piece cutterset with spacers mounted on adapter No. 6371, 6374 & 6377 for jointing, chamfering and rounding profiles in composite and solid wood materials. Interchangeable cutters to produce the desired shapes indicated below. With this tool set it is possible to combine jointing cutters, rounding over cutters and bevel cutters in various ways. In conjunction with different shank type arbors, the set can be used on all stationary routers and CNC machines of common use.

Adaption to the thickness of material to be worked through face ground spacers.

Maximum RPM= 12,000

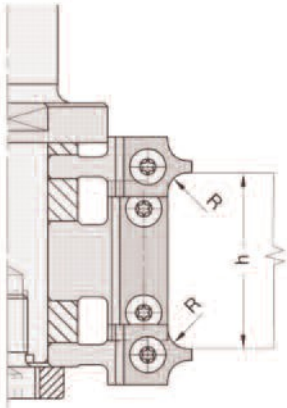


Table to determine cutters required based on material thickness:

Edge Profile	Jointing Cutter L2		
	25	40	50
<b>Size 1</b>	<b>Material Thickness</b>	<b>Material Thickness</b>	<b>Material Thickness</b>
R = 3mm	13 - 29	23 - 44	33 - 54
R = 4mm	13 - 31	23 - 46	33 - 56
R = 5mm	13 - 33	23 - 48	33 - 58
3 x 45°	8 - 29	18 - 44	28 - 54
<b>Size 2</b>			
R = 6mm	19 - 35	29 - 50	39 - 54
R = 8mm	19 - 39	29 - 54	39 - 58
3 x 45°	8 - 29	18 - 44	28 - 54
<b>Size 3</b>			
R = 10mm	28 - 44	38 - 59	48 - 69
R = 12mm	28 - 48	38 - 63	48 - 73
3 x 45°	8 - 29	18 - 44	28 - 54



Table to determine adapter spindle/clamping (L2) length:

### Arbors

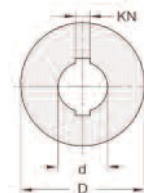
Radius/Chamfer Cutter	Jointing Cutter L2		
	25	40	50
R 3, R 4, R 5, 45°	L2 = 40	55	70
R 6, R 8, 45°	55	70	70
R 10, R 12, 45°	55	70	70

Possible combinations:



### Ring Set

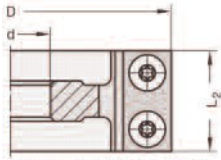
Set consisting of 5.5 x 5.0/2 x 2.0/4 x 1.0/3 x 0.5/5 x 0.1 mm spacers. The spacer set is sufficient for materials of any thickness and all clamping lengths.



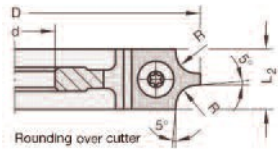
Part Number	d	D2	Key Size
39548-0-00001-1	20	35	6 x 1.5

**4330** Z2

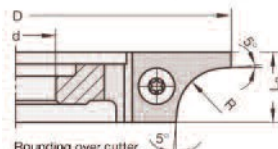
**Individual Cutters  
for Combination Insert Router Bit**



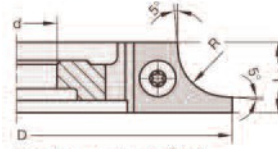
Jointing cutter (with shear angle)



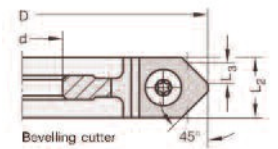
Rounding over cutter



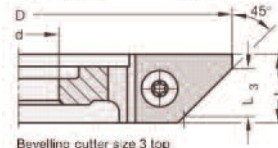
Rounding over cutter



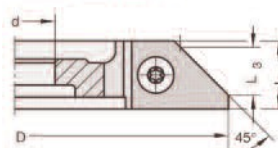
Rounding over cutter size 3 bottom



Bevelling cutter



Bevelling cutter size 3 top



Bevelling cutter size 3 bottom

Part Number	Cutter	Radius/Degree	Cutter Size
<b>4330.080.25</b>	Jointing	--	80 x 25 x 20
<b>4330.080.40</b>	Jointing	--	80 x 40 x 20
<b>4330.080.50</b>	Jointing	--	80 x 50 x 20

Size 1

Part Number	Cutter	Radius/Degree	Cutter Size
<b>4330.092.20</b>	Rounding	2	92 x 15 x 20
<b>4330.092.30</b>	Rounding	3	92 x 15 x 20
<b>4330.092.40</b>	Rounding	4	92 x 15 x 20
<b>4330.092.50</b>	Rounding	5	92 x 15 x 20
<b>4330.092.45</b>	Bevelling	45°	92 x 15 x 20

Size 2

Part Number	Cutter	Radius/Degree	Cutter Size
<b>4330.098.60</b>	Rounding	6	98 x 22 x 20
<b>4330.098.80</b>	Rounding	8	98 x 22 x 20
<b>4330.098.45</b>	Bevelling	45°	98 x 22 x 20

Size 3

Part Number	Cutter	Radius/Degree	Cutter Size
<b>4330.106.10</b>	Rounding (top)	10	106 x 17.5 x 20
<b>4330.106.12</b>	Rounding (top)	12	106 x 17.5 x 20
<b>4330.106.45</b>	Bevelling (top)	45°	106 x 17.5 x 20

Size 3

Part Number	Cutter	Radius/Degree	Cutter Size
<b>4330.106.11</b>	Rounding (bottom)	10	106 x 17.5 x 20
<b>4330.106.13</b>	Rounding (bottom)	12	106 x 17.5 x 20
<b>4330.106.46</b>	Bevelling (bottom)	45°	106 x 17.5 x 20

**4330 Z2****Solid Carbide Inserts  
for Combination Insert Router Bit**

## Jointing Tips

Part Number	Dimensions	Cutter
<b>4200.025.00</b>	25 x 12 x 1.5	25mm jointing cutter
<b>4200.040.00</b>	40 x 12 x 1.5	40mm jointing cutter
<b>4200.050.00</b>	50 x 12 x 1.5	50mm jointing cutter

## Bevelling Tips

Part Number	Dimensions	Radius/Degree
<b>4330.015.45</b>	15 x 18 x 2	45°, L3 = 6mm (Size 1)
<b>4330.022.45</b>	22 x 21 x 2	45°, L3 = 9mm (Size 2)
<b>4330.175.45</b>	17.5 x 26 x 2	45°, L3 = 13mm (top - size 3)
<b>4330.175.46</b>	17.5 x 26 x 2	45°, L3 = 13mm (bottom - size 3)

## Rounding Over Tips

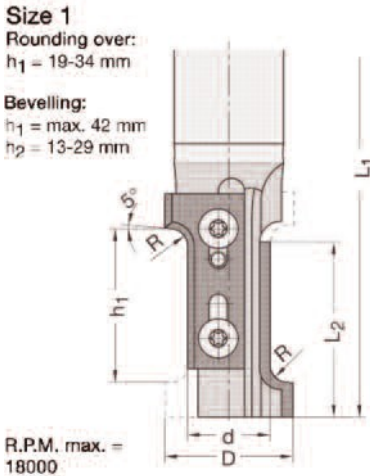
Part Number	Dimensions	Radius/Deg.
<b>4330.015.02</b>	15 x 18 x 2	R = 2 (Size 1)
<b>4330.015.03</b>	15 x 18 x 2	R = 3 (Size 1)
<b>4330.015.04</b>	15 x 18 x 2	R = 4 (Size 1)
<b>4330.015.05</b>	15 x 18 x 2	R = 5 (Size 1)
<b>4330.022.06</b>	22 x 21 x 2	R = 6 (Size 2)
<b>4330.022.08</b>	22 x 21 x 2	R = 8 (Size 2)
<b>4330.175.10</b>	17.5 x 26 x 2	R = 10 (top - size 3)
<b>4330.175.12</b>	17.5 x 26 x 2	R = 12 (top - size 3)
<b>4330.175.11</b>	17.5 x 26 x 2	R = 10 (bottom - size 3)
<b>4330.175.13</b>	17.5 x 26 x 2	R = 12 (bottom - size 3)

6975 Z2

Radius/Chamfer Router Bit with Adjustable Thickness

An adjustable insert router bit designed to joint, radius and chamfer top and bottom edges of composite and solid materials. Special inserts available for 1/2" and 5/8" thick material. Tool body price does not include inserts.

Maximum RPM= 18,000

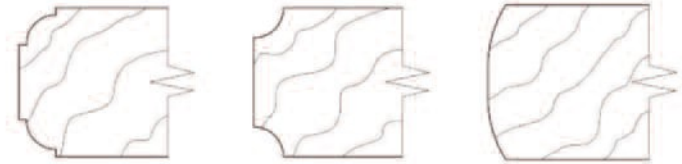


Size 1 D = 28 - 34

Part Number	D	d2	R	L1	Shank Dia./Length
6975.285.23	28 - 34	20	3 - 6 & 45°	113	3/4" x 55 m.E.
6975.286.23	28 - 34	20	3 - 6 & 45°	113	20 x 55 m.E.
6975.280.23	28 - 34	20	3 - 6 & 45°	113	25 x 55 m.E.
6975.285.24	28 - 34	20	3 - 6 & 45°	113	3/4" x 55 m.E. (LH)
6975.280.24	28 - 34	20	3 - 6 & 45°	113	25 x 55 m.E. (LH)
6975.281.23	28 - 34	20	3 - 6 & 45°	144	MK2/M30 x 1.5

Examples for special profiles:

Profile depth  
Size 1 = max. 6 mm  
Size 2 = max 10 mm



Solid Carbide Inserts for Size 1

Radius (Rounding Over) Knives

Part Number	Dimensions	Radius	Notes
6975.040.03	40 x 17.2 x 2.2	R = 3	Top
6975.041.03	40 x 17.2 x 2.2	R = 3	Bottom
6975.040.04	40 x 18.2 x 2.2	R = 4	Top
6975.041.04	40 x 18.2 x 2.2	R = 4	Bottom
6975.040.05	40 x 19.2 x 2.2	R = 5	Top
6975.041.05	40 x 19.2 x 2.2	R = 5	Bottom
6975.040.06	40 x 20.2 x 2.2	R = 6	Top
6975.041.06	40 x 20.2 x 2.2	R = 6	Bottom

Chamfer (Bevelling) Knives

Part Number	Dimensions	Deg.	Notes
6975.040.45	40 x 20.2 x 2.2	45°	Top
6975.041.45	40 x 20.2 x 2.2	45°	Bottom

Blanks for Special Profiles

Part Number	Dimensions	Notes
6975.040.00	40 x 20.8 x 2.2	Blank Insert
6975.040.10	40 x 20.8 x 2.2	Top (Special Profile)
6975.040.20	40 x 20.8 x 2.2	Bottom (Special Profile)

(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

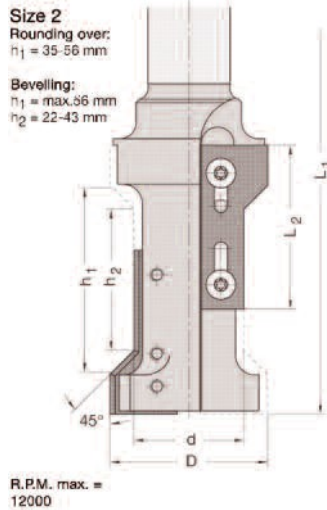
See next page for replacement parts.

# 6975 Z2

## Radius/Chamfer Router Bit with Adjustable Thickness

An adjustable insert router bit designed to joint, radius and chamfer top and bottom edges of composite and solid materials. Special inserts available for 1/2" and 5/8" thick material. Tool body price does not include inserts.

Maximum RPM= 12,000



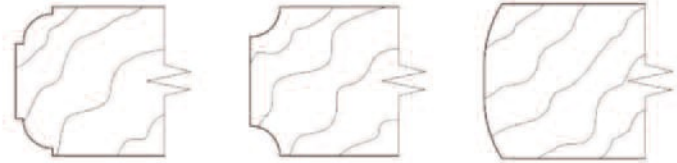
### Size 2

D = 49 - 57

Part Number	D	d2	R	L1	Shank Dia./Length
<b>6975.490.06</b>	49 - 57	35	6 - 10 & 45°	150	25 x 55 m.E.
<b>6975.491.06</b>	49 - 57	35	6 - 10 & 45°	150	25 x 55 m.E. (LH)

Examples for special profiles:

Profile depth  
Size 1 = max. 6 mm  
Size 2 = max 10 mm



### Solid Carbide Inserts for Size 2

#### Radius (Rounding Over) Knives

Part Number	Dimensions	Radius	Notes
<b>6975.050.06</b>	50 x 20.3 x 2.2	R = 6	Top
<b>6975.051.06</b>	50 x 20.3 x 2.2	R = 6	Bottom
<b>6975.050.08</b>	50 x 20.3 x 2.2	R = 8	Top
<b>6975.051.08</b>	50 x 20.3 x 2.2	R = 8	Bottom
<b>6975.050.10</b>	50 x 20.3 x 2.2	R = 10	Top
<b>6975.051.10</b>	50 x 20.3 x 2.2	R = 10	Bottom

#### Chamfer (Beveling) Knives

Part Number	Dimensions	Degree	D
<b>6975.050.45</b>	50 x 20.3 x 2.2	45°	D = 49 - 57
<b>6975.051.45</b>	50 x 20.3 x 2.2	45°	D = 49 - 57

### Replacement Parts (All Sizes)

Part Number	Replacement Parts
<b>39076-0-04000-R</b>	M4 Screw
<b>39077-0-04015-2</b>	TORX Wrench (T15)

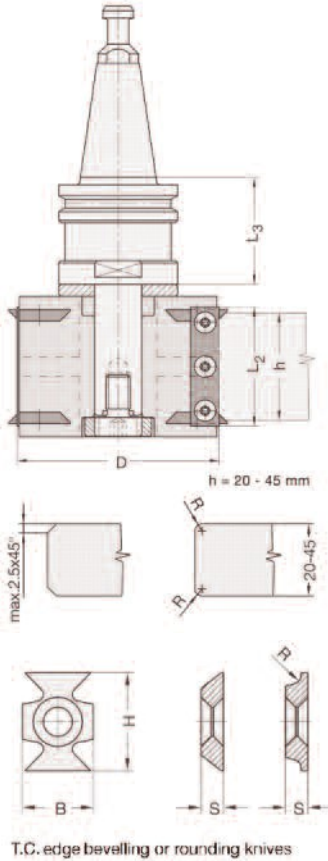
(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

**4336 Z2**

**Radius/Chamfer Router Bit  
with Adjustable Thickness**

An adjustable insert router bit designed to joint, radius and chamfer top and bottom edges of composite and solid materials. Supplied with an aluminum body mounted on an adaptor. For right and left hand rotations.

Maximum RPM= 12,000



Part Number	D	L2	h	L3	Shank Dia./Length
<b>4336.085.30</b>	85	50	20 - 45	45	SK30
<b>4336.085.31</b>	85	50	20 - 45	45	SK30 (SCM/Morbidelli)
<b>4336.085.40</b>	85	50	20 - 45	45	SK40
<b>4336.085.63</b>	85	50	20 - 45	45	HSK63F
<b>4336.085.25</b>	85	50	20 - 45	--	25 x 55 m.E.
<b>4336.085.34</b>	85	50	20 - 45	--	3/4" x 55 m.E.

**Spare Parts / Accessories**

Part Number	Solid Carbide Inserts	Notes
<b>6419.050.00</b>	50 x 12 x 1.7	3 holes
<b>4336.000.45</b>	Chamfer knives	45°
<b>4336.000.15</b>	Radius knives	R = 1.5 mm
<b>4336.000.20</b>	Radius knives	R = 2.0 mm
<b>4336.000.30</b>	Radius knives	R = 3.0 mm
<b>4336.085.50</b>	Aluminum body	85 x 50 x 20 kn z=2

Part Number	Replacement Parts
<b>39076-0-04000-R</b>	M4 screw (T15)
<b>39085-0-06035-R</b>	M6 x 35 screw (T15)
<b>39077-0-04015-2</b>	TORX wrench (T15)

50 mm inserts with alternating shear.  
Aluminum body for weight reduction.

m.E. denotes adjusting screw size.

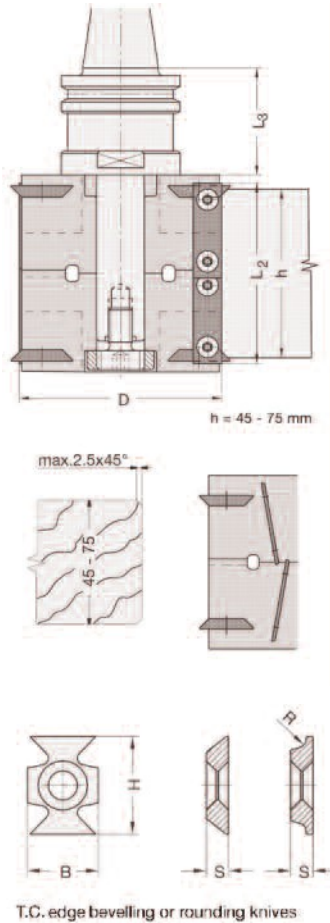


**4336** Z2+2

**Radius/Chamfer Router Bit  
with Adjustable Thickness**

An adjustable insert router bit designed to joint, radius and chamfer top and bottom edges of composite and solid materials up to 75 mm. Supplied with an aluminum body mounted on an adaptor. For right and left hand rotations.

Maximum RPM= 12,000



Part Number	D	L2	h	L3	Shank Dia./Length
<b>4336.185.30</b>	85	76	45 - 75	45	SK30
<b>4336.185.31</b>	85	76	45 - 75	45	SK30 (SCM/Morbidelli)
<b>4336.185.40</b>	85	76	45 - 75	45	SK40
<b>4336.185.63</b>	85	76	45 - 75	45	HSK63F
<b>4336.185.25</b>	85	76	45 - 75	45	25 x 55 m.E.
<b>4336.185.34</b>	85	76	45 - 75	45	3/4" x 55 m.E.

**Spare Parts / Accessories**

Part Number	Solid Carbide Inserts	Notes
<b>4200.040.00</b>	40 x 12 x 1.5	
<b>4336.000.45</b>	Chamfer knives	45°
<b>4336.000.15</b>	Radius knives	R = 1.5 mm
<b>4336.000.20</b>	Radius knives	R = 2.0 mm
<b>4336.000.30</b>	Radius knives	R = 3.0 mm
<b>4336.086.40</b>	Aluminum body	85 x 40 x 20 top
<b>4336.085.41</b>	Aluminum body	85 x 40 x 20 bottom

Part Number	Replacement Parts
<b>39076-0-04000-R</b>	M4 screw (T15)
<b>39085-0-06035-R</b>	M6 x 35 screw (T15)
<b>39077-0-04015-2</b>	TORX wrench (T15)

Aluminum body for weight reduction.

m.E. denotes adjusting screw size.

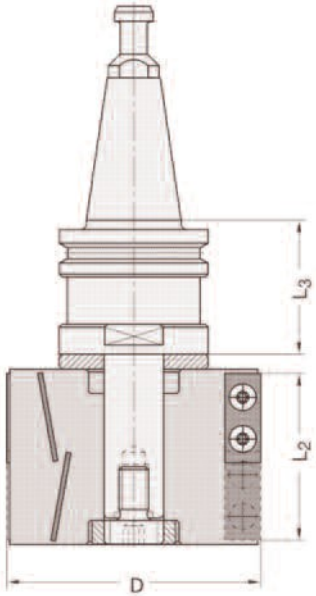
# 4337 Z2

## Router Bit for Jointing

Compression style, with upshear and downshear inserts designed for chip-free cuts on two-sided materials. Supplied with an aluminum body mounted on an adaptor.

For right and left hand rotations.

Maximum RPM= 12,000



Part Number	D	L2	L3	Shank Dia./Length
4337.085.30	85	56	45	SK30
4337.085.40	85	56	45	SK40
4337.085.31	85	56	45	SK30 (SCM/Morbidelli)
4337.085.63	85	56	45	HSK63F
4337.085.25	85	56	----	25 x 55 m.E.
4337.085.34	85	56	----	3/4" x 55 m.E.

### Solid Carbide Inserts

Part Number	Dimensions	Notes
4200.030.00	30 x 12 x 1.5	
4337.085.55	85 x 55 x 20 kn z=2	Aluminum body

### Replacement Parts

Part Number	Replacement Parts
39076-0-04000-R	M4 screw (T15)
39077-0-04015-2	TORX wrench (T15)

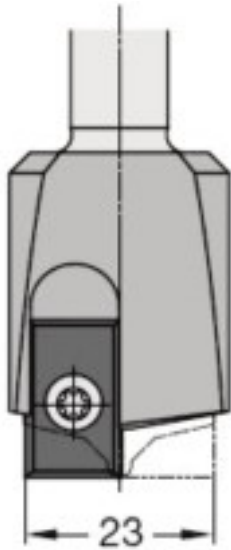
For jointing and panel sizing on CNC machines.

Aluminum body weight for reduction.

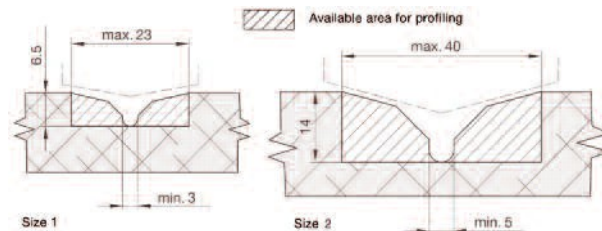
# 4095 Z1 Custom Profile Insert Router Bit

For cutting inside door profiles, rosettes, etc. Uses double-sided carbide inserts that are positioned on a shear-cutting angle for improved finishes.

Profile area per shaded diagram below.



Part Number	Option	D	B	T	L1	Shank Dia.
4095.023.00	1	27	23	6.5	69	12 x 40
4095.023.34	1	27	23	6.5	115	3/4" x 60 m.E.
4095.023.10	1	27	23	6.5	115	25 x 60 m.E.
4095.023.35	1	27	23	6.5	115	3/4" x 60 m.E. (LH)
4095.023.11	1	27	23	6.5	115	25 x 60 m.E. (LH)
4095.040.34	2	47	40	14	115	3/4" x 60 m.E.
4095.040.00	2	47	40	14	115	25 x 60 m.E.
4095.040.35	2	47	40	14	115	3/4" x 60 m.E. (LH)
4095.040.01	2	47	40	14	115	25 x 60 m.E. (LH)



Please send a drawing or wood sample for profile insert pricing.

## Solid Carbide Inserts

Part Number	Dimensions	Option
4200.020.00	20 x 12 x 1.5	1 - Blank
4095.036.00	36 x 21 x 2	2 - Blank

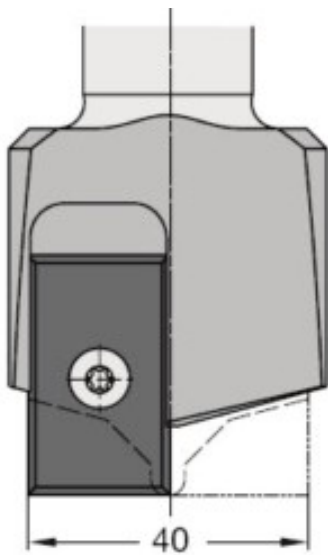
(Template)

(Per Profile)

## Replacement Parts

Part Number	Replacement Parts
39081-0-04060-R	M4 x 6 screw for Option # 1 cutter
39076-0-04000-R	M4 x 5.9 screw for Option # 2 cutter
39077-0-04015-2	TORX wrench (T15)

All inserts/profiles customized to specifications required.



m.E. denotes adjusting screw size.  
(LH) denotes left hand rotation.

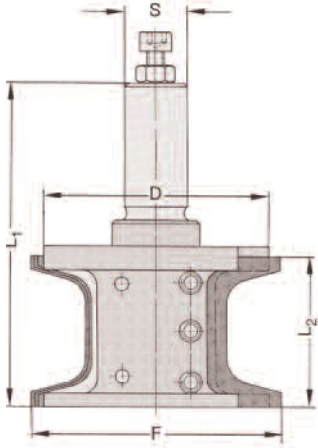
Quantity discounts on profile inserts.

**4313 Z2**

**Multi-Profile Insert Router Bit**

Number 4313 and 4316 are designed to produce various profiles using single-sided inserts and support plates. Profile area per shaded diagram below.

Body supplied without inserts and support plates.



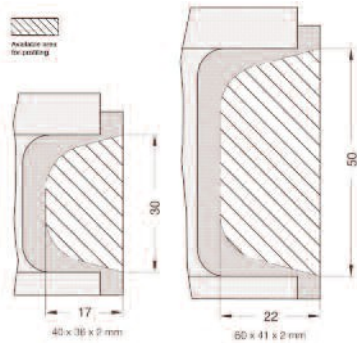
Part Number	F	L2	L1	Shank	Max. RPM
<b>4313.090.34</b>	90	40	109	3/4" x 55 m.E.	12,000
<b>4313.090.40</b>	90	40	109	25 x 55 m.E.	12,000
<b>4313.090.41</b>	90	40	109	25 x 55 m.E. (LH)	12,000
<b>4313.100.34</b>	100	60	129	3/4" x 55 m.E.	9,000
<b>4313.100.60</b>	100	60	129	25 x 55 m.E.	9,000

**Solid Carbide Inserts (Blank)**

Part Number	Dimensions
<b>4202.040.36</b>	40 x 36 x 2
<b>4202.061.41</b>	60 x 41 x 2

**Support Plates (Blank)**

Part Number	Dimensions
<b>4080.040.36</b>	40 x 36 x 4.5
<b>4080.061.41</b>	60 x 41 x 4.5



**Replacement Parts**

Part Number	Replacement Parts
<b>39072-0-08012-R</b>	M8 x 12 screw
<b>39140-0-00401-0</b>	Wrench SW4

All inserts/profiles customized to specifications required.

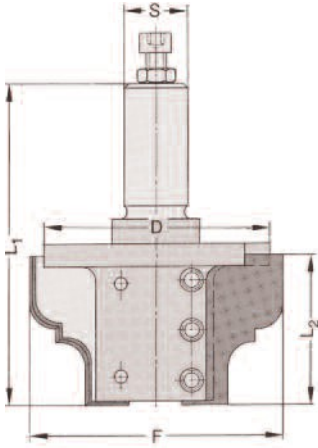
(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

# 4316 Z2

# Multi-Profile Insert Router Bit

Number 4313 and 4316 are designed to produce various profiles using single-sided inserts and support plates. Profile area per shaded diagram below.

Body supplied without inserts and support plates.



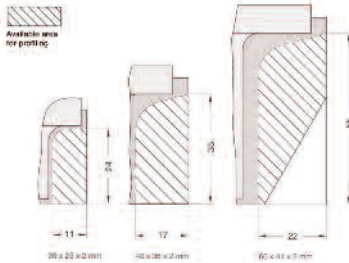
Part Number	F	L2	L1	Shank	Max. RPM
4316.060.30	60	30	85	5/8" x 45 m.E.	12,000
4316.090.34	90	40	109	3/4" x 55 m.E.	12,000
4316.090.40	90	40	109	25 x 55 m.E.	12,000
4316.090.41	90	40	109	25 x 55 m.E. (LH)	12,000
4316.100.34	100	60	129	3/4" x 55 m.E.	9,000
4316.100.60	100	60	129	25 x 55 m.E.	9,000

### Solid Carbide Inserts (Blank)

Part Number	Dimensions
4202.030.25	30 x 25 x 2
4202.040.36	40 x 36 x 2
4200.062.41	60 x 41 x 2

### Support Plates (Blank)

Part Number	Dimensions
4080.030.25	30 x 25 x 4.5
4080.040.36	40 x 36 x 4.5
4080.062.41	60 x 41 x 4.5



### Replacement Parts

Part Number	Replacement Parts
39072-0-08012-R	M8 x 12 Screw
39140-0-00401-0	Wrench SW4

All inserts/profiles customized to specifications required.

(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

Quantity discounts on profile inserts.  
(Subject to one time template charge)

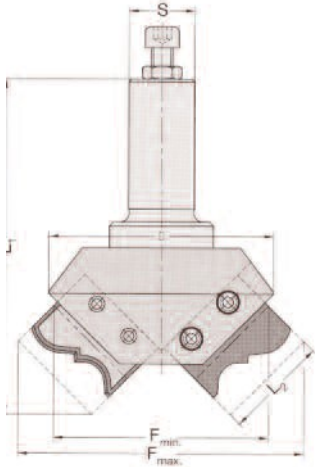
Inserts available in three grades.

**4318 Z2**

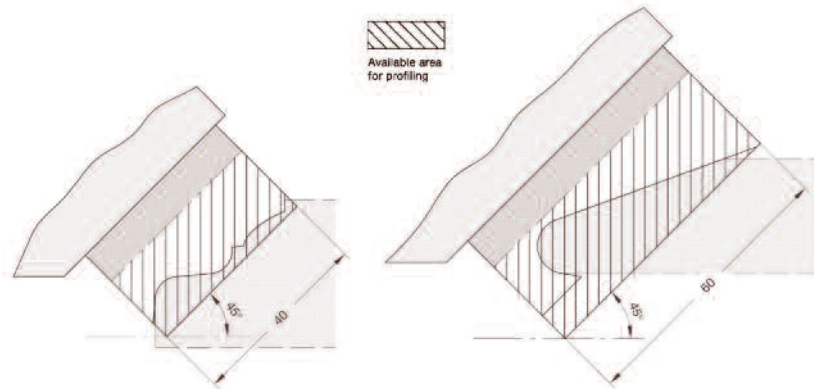
**Multi-Profile Insert Router Bit**

This cutter is designed to produce various profiles using single-sided inserts and support plates on a 45° angle. The 45° position allows for deeper profiles per examples below. Body supplied without inserts and support plates.

Left-hand rotation available upon request.



Part Number	D	L2	Shank	Max. RPM	Z
<b>4318.125.34</b>	110	40	3/4" x 55 m.E.	12,000	2
<b>4318.125.40</b>	110	40	25 x 55 m.E.	12,000	2
<b>4318.148.34</b>	148	60	3/4" x 55 m.E.	8,000	2
<b>4318.148.60</b>	148	60	25 x 55 m.E.	8,000	2



**Solid Carbide Inserts (Blank)**

Part Number	Dimensions
<b>4202.040.36</b>	40 x 36 x 2
<b>4202.061.41</b>	60 x 41 x 2

**Support Plates (Blank)**

Part Number	Dimensions
<b>4080.040.36</b>	40 x 36 x 4.5
<b>4080.061.41</b>	60 x 41 x 4.5

**Replacement Parts**

Part Number	Replacement Parts
<b>39072-0-08012-R</b>	M8 x 12 Screw
<b>39140-0-00401-0</b>	Wrench SW4

All inserts/profiles customized to specifications required.

(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

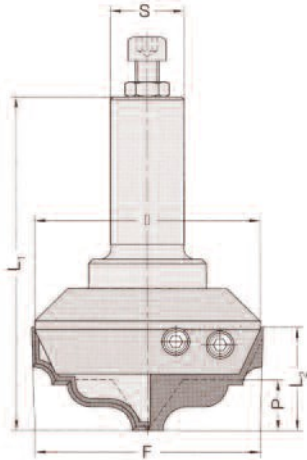
**Quantity discounts on profile inserts.**  
(Subject to one time template charge)

Inserts available in three grades.

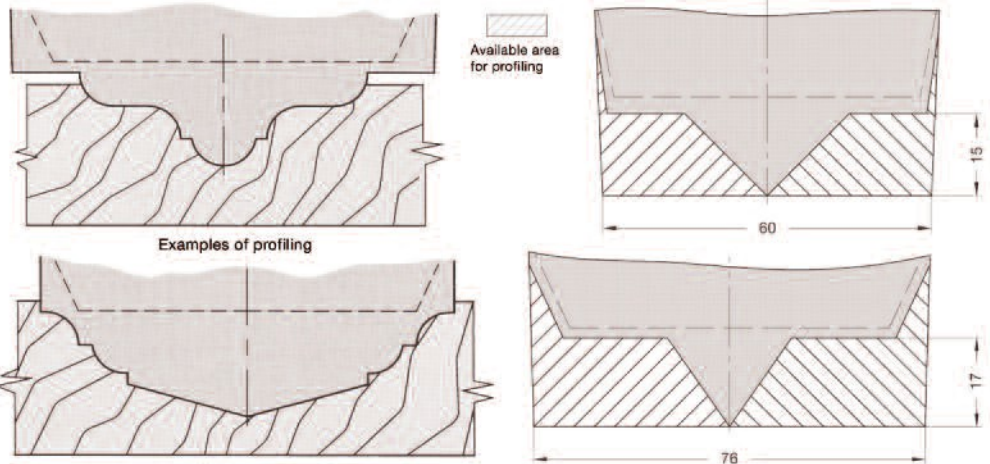
# 4317 Z2 Multi-Profiler for Bottom Cutting

This router bit is designed for inside, bottom cutting profiles that fall within the parameters shown below, such as profiled grooves and rosettes. Body supplied without inserts and support plates. Right-hand rotation.

Left-hand rotation available upon request.



Part Number	F Max.	P	L2	L1	Shaft	Max. RPM
4317.105.76	60	15	34	105	25 x 55 m.E.	18,000
4317.105.34	60	15	34	105	3/4" x 55 m.E.	18,000
4317.112.34	76	17	35	112	3/4" x 25 m.E.	12,000
4317.112.76	76	17	35	112	25 x 25 m.E.	12,000
4317.144.76	76	17	35	144	MK2/MK30 x 1.5	12,000



## Solid Carbide Inserts (Blank)

Part Number	Dimensions	Type
4202.030.35	30 x 35 x 2	
4202.041.36	40 x 36 x 2	A
4202.041.37	40 x 36 x 2	B

## Support Plates (Blank)

Part Number	Dimensions
4080.030.35	30 x 35 x 4.5
4080.040.36	40 x 36 x 4.5

## Replacement Parts

Part Number	Replacement Parts
39072-0-08012-R	M8 x 12 Screw
39140-0-00401-0	Wrench SW4

(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

Quantity discounts on profile inserts.  
(Subject to one time template charge)

Inserts available in three grades.

All inserts/profiles customized to specifications required.

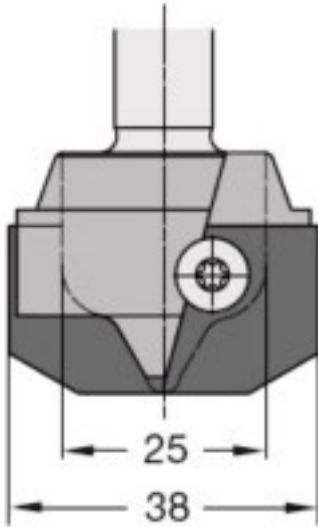
6979 Z2

Customizable Profile  
Insert Router Bit

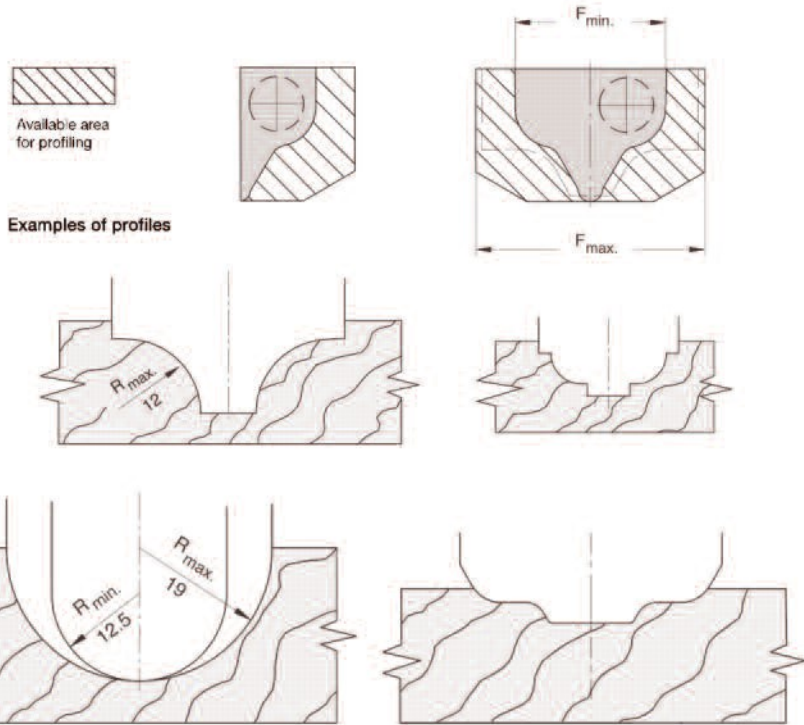
A dedicated profile router bit with single-sided profile inserts. Designed to profile composite and solid wood materials. Profile area per examples below.

Tool body price does not include profile inserts.

Maximum RPM= 18,000



Part Number	F Max.	D	L2	F Min.	Shank Dia./Length
6979.363.20	38	36	20.5	25	1/2" x 40



Solid Carbide Inserts

Part Number	Dimensions	Notes
4207.122.19	22 x 19 x 2	Blank (solid wood)
4207.123.19	22 x 19 x 2	Profile group 1 (solid wood)
4207.222.19	22 x 19 x 2	Blank (composites)
4207.223.19	22 x 19 x 2	Profile group 1 (composites)

Replacement Parts

Part Number	Replacement Parts
39076-0-04000-R	M4 Screw
39077-0-04015-2	TORX Wrench (T15)

All inserts/profiles customized to specifications required.

Quantity discounts on profile inserts.  
(Subject to one time template charge)

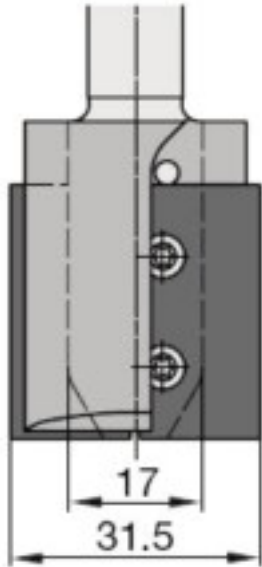


**6985**

**Customizable Profile  
Insert Router Bit**

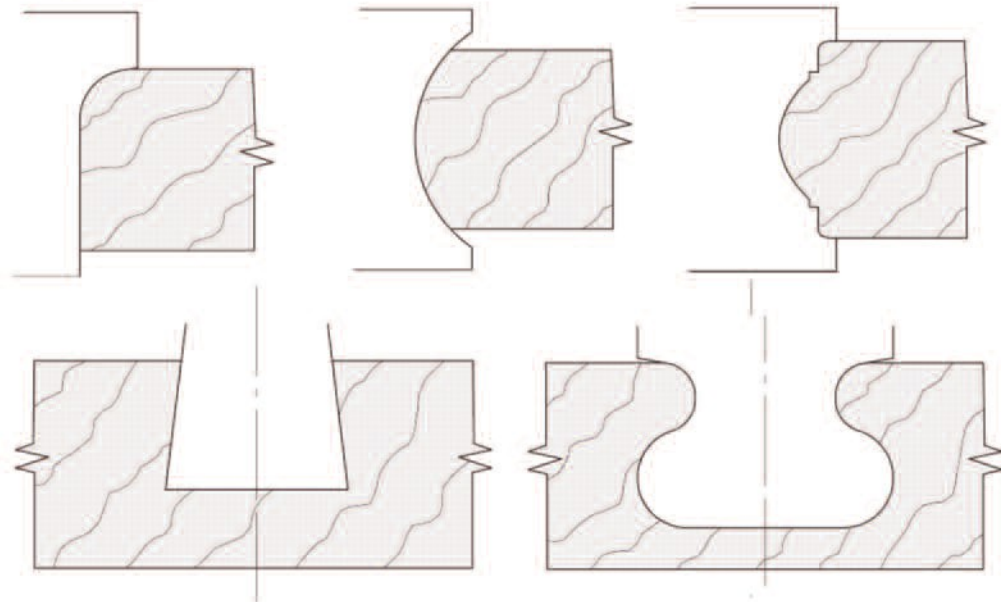
A dedicated profile router bit with single-sided profile inserts. Designed to profile composite and solid wood materials. Profile area per examples below.

Maximum RPM= 18,000

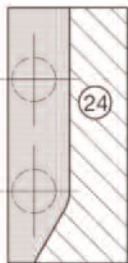


Part Number	F Max.	F Min.	L2	Shank Dia./Length
<b>6985.315.32</b>	31.5	17	32	1/2" x 40

Examples of profiles



Available area for profiling



Replacement Parts

Part Number	Replacement Parts
<b>39081-0-03040-R</b>	M3 x 4 Screw
<b>39077-0-04015-2</b>	TORX Wrench (T15)

All inserts/profiles customized to specifications required.

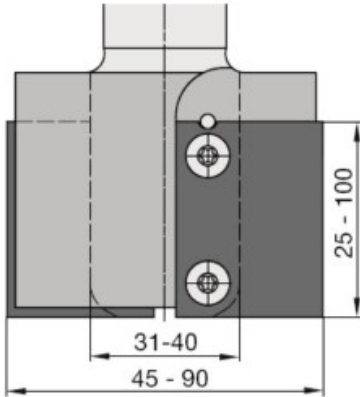
Quantity discounts on profile inserts.  
(Subject to one time template charge)

# 6980 Z2

## Customizable Profile Insert Router Bit

A dedicated profile router bit with single-sided profile inserts. Designed to profile composite and solid materials. Available in right-hand rotation and is capable of bottom-cutting and ramp plunging.

Tool body price does not include profile inserts.



Part Number	F Max.	L2	Shank Dia./Length
6980.425.30	45/55/65	30	3/4" x 55 m.E.
6980.426.30	45/55/65	30	20 x 55 m.E.
6980.420.30	45/55/65	30	25 x 55 m.E.
6980.425.40	45/55/65	40	3/4" x 55 m.E.
6980.426.40	45/55/65	40	20 x 55 m.E.
6980.420.40	45/55/65	40	25 x 55 m.E.
6980.425.50	45/55/65	50	3/4" x 55 m.E.
6980.426.50	45/55/65	50	20 x 55 m.E.
6980.420.50	45/55/65	50	25 x 55 m.E.

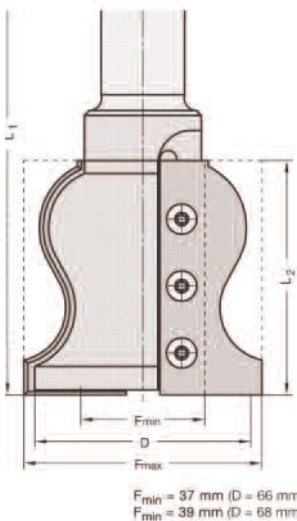
See below for replacement parts.

# 6987 Z2

## Customizable Profile Insert Router Bit

A dedicated profile router bit with single-sided profile inserts. Designed to profile composite and solid materials. Available in right-hand rotation and is capable of bottom-cutting and ramp plunging.

Tool body price does not include profile inserts.



Part Number	F Max.	L2	Shank Dia./Length
6987.665.70	71	70	3/4" x 55 m.E.
6987.666.70	71	70	20 x 55 m.E.
6987.667.70	71	70	25 x 55 m.E.

### Maximum R.P.M.

F <sub>max</sub> mm	L <sub>2</sub> = mm						
	25	30	40	50	60	70	100
45	18000	18000	18000	17300	-	-	-
55	18000	18000	15600	13800	-	-	-
65	15200	15200	13300	12000	-	-	-
71	-	-	-	-	12000	12000	-
73	-	-	-	-	-	-	11000

(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

### Replacement Parts

Part Number	Replacement Parts
39076-0-04000-R	M4 TORX Screw
39077-0-04015-3	TORX Wrench (T15)

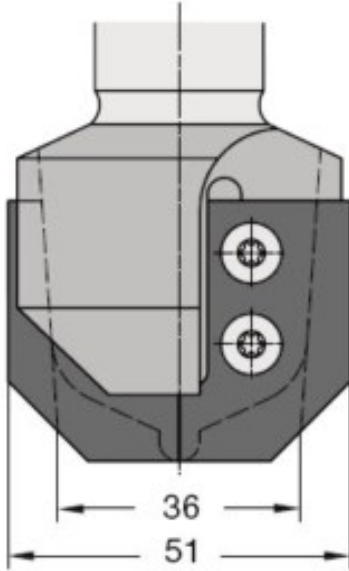
All inserts/profiles customized to specifications required.

**6986 Z2**

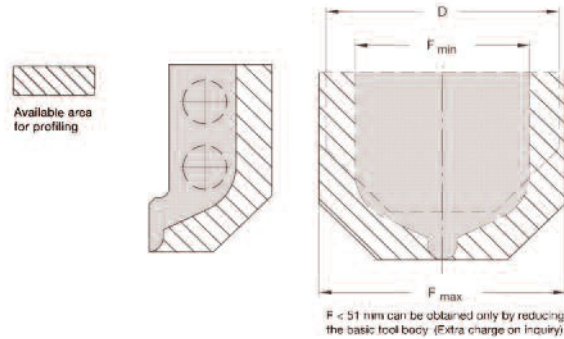
**Customizable Profile  
Insert Router Bit**

A dedicated profile router bit with single-sided profile inserts. Designed to profile composite and solid materials. Profile area per examples below.

Maximum RPM= 12,000



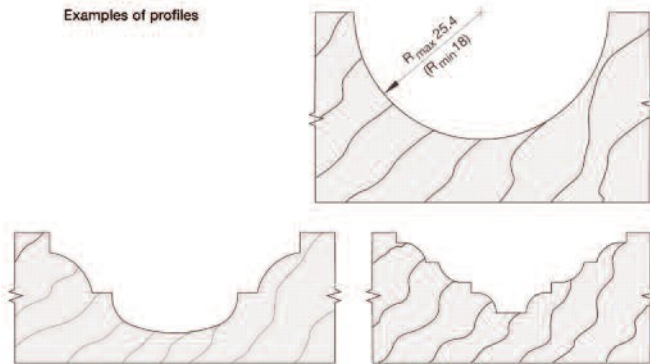
Part Number	F Max.	D	L2	F Min.	Shank Dia./Length
6986.485.40	51	48	38.5	41	3/4" x 55 m.E.
6986.486.40	51	48	38.5	41	20 x 55 m.E.
6986.487.40	51	48	38.5	41	25 x 55 m.E.



**Solid Carbide Inserts**

Part Number	Dimensions	Notes
4207.252.40	40 x 25.5 x 2	Blank (solid wood)
4207.253.40	40 x 25.5 x 2	Profile group 1 (solid wood)
4207.252.40	40 x 25.5 x 2	Blank (composites)
4207.253.40	40 x 25.5 x 2	Profile group 1 (composites)

Examples of profiles



**Replacement Parts**

Part Number	Replacement Parts
39076-0-04000-R	M4 TORX Screw
39077-0-04015-3	TORX Wrench (T15)

All inserts/profiles customized to specifications required.

(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

Quantity discounts on profile inserts.  
(Subject to one time template charge)

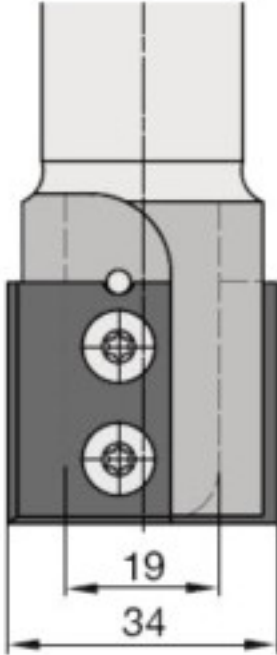
**6981 Z2**

**Customizable Profile  
Insert Router Bit**

A dedicated profile router bit with single-sided profile inserts.  
Designed to profile composite and solid materials.  
Capable of bottom-cutting and ramp plunging.

For use when a small minimum tool diameter is required, 19 mm.

Right-hand rotation.



Part Number	F Max.	D	L2	Shank Dia./Length	Max. RPM
<b>6981.312.30</b>	34	31	30	12 x 40	18,000
<b>6981.313.30</b>	34	31	30	1/2" x 40	18,000
<b>6981.315.30</b>	34	31	30	3/4" x 55 m.E.	18,000
<b>6981.310.30</b>	34	31	30	25 x 55 m.E.	18,000
<b>6981.412.40</b>	53	41	40	12 x 40	12,000
<b>6981.413.40</b>	53	41	40	1/2" x 40	12,000
<b>6981.415.40</b>	53	41	40	3/4" x 55 m.E.	12,000
<b>6981.410.40</b>	53	41	40	25 x 55 m.E.	12,000

For cutting decorative profiles for furniture and door production as well as for ceiling and wall panelling, etc. on stationary routers and CNC machines.

**Tool body price does not include profile inserts.**

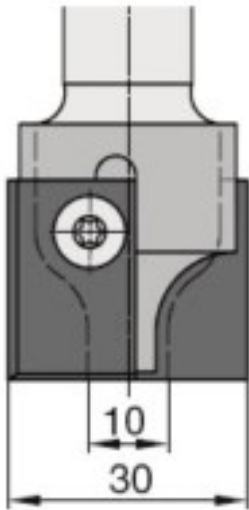
**6982 Z2**

**Customizable Profile  
Insert Router Bit**

A dedicated profile router bit with single-sided profile inserts.  
Designed to profile composite and solid materials.  
Capable of bottom-cutting and ramp plunging.

For use when a small minimum tool diameter is required, 10 mm.

Right-hand rotation.



Part Number	F Max.	D	L2	Shank Dia./Length	Max. RPM
<b>6982.282.25</b>	30	28	25	12 x 40	18,000
<b>6982.283.25</b>	30	28	25	1/2" x 40	18,000
<b>6982.285.25</b>	30	28	25	3/4" x 55 m.E.	18,000
<b>6982.280.25</b>	30	28	25	25 x 55 m.E.	18,000

For cutting decorative profiles for furniture and door production as well as for ceiling and wall panelling, etc. on stationary routers and CNC machines.

(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

**Replacement Parts**

Part Number	Replacement Parts
<b>39076-0-04000-R</b>	M4 TORX Screw
<b>39077-0-04015-3</b>	TORX Wrench

All inserts/profiles customized to specifications required.

**6984 Z2**

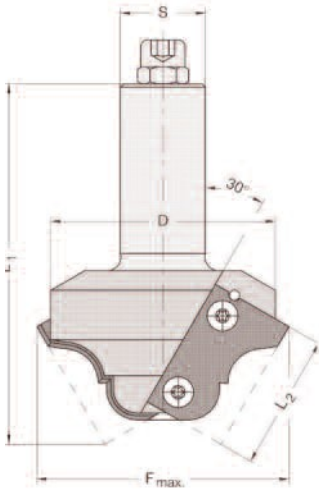
**Profile Insert Router Bit**

A dedicated profile router bit with single-sided profile inserts positioned at a 30° angle. Designed to profile composite and solid materials.

Profile area per examples below.

Right-hand rotation.

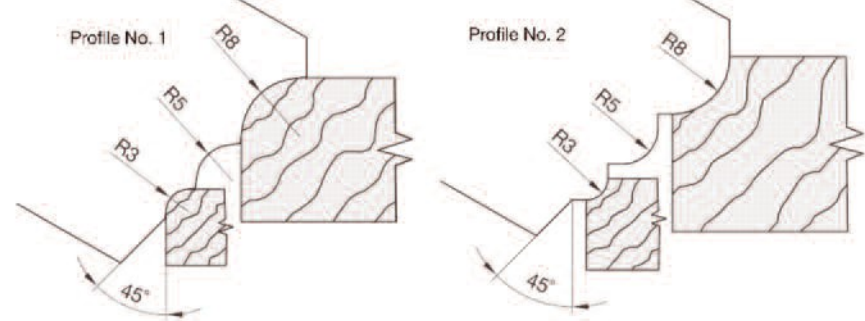
Maximum RPM= 12,000



Part Number	F Max.	D	L2	Shank Dia./Length
6984.705.40	81/89	76	40	3/4" x 55 m.E.
6984.700.40	81/89	76	40	25 x 55 m.E.

Tool body price does not include profile inserts.

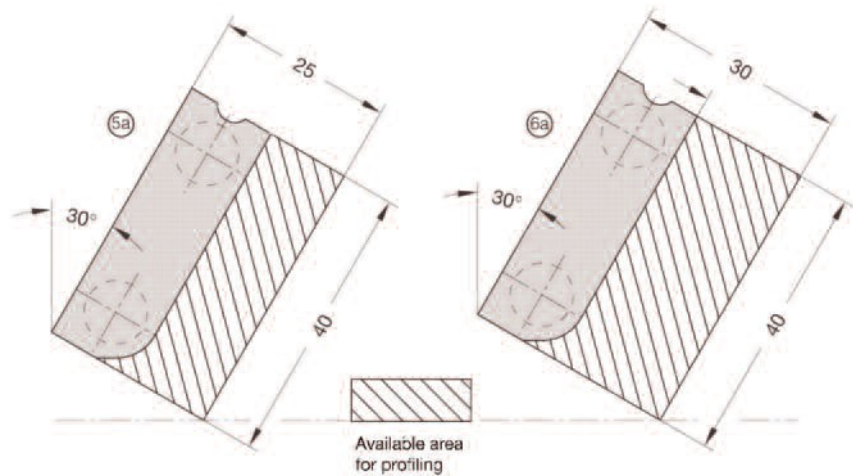
Standard profiles



Replacement Parts

Part Number	Replacement Parts
39076-0-04000-R	M4 TORX Screw
39077-0-04015-3	TORX Wrench

All inserts/profiles customized to specifications required.



(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

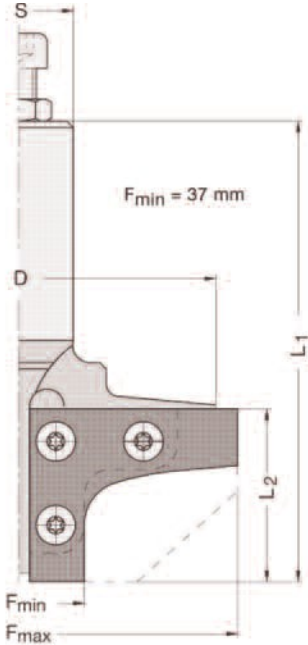
Quantity discounts on profile inserts.  
(Subject to one time template charge)

**6988 Z2**

**Customizable Profile  
Insert Router Bit**

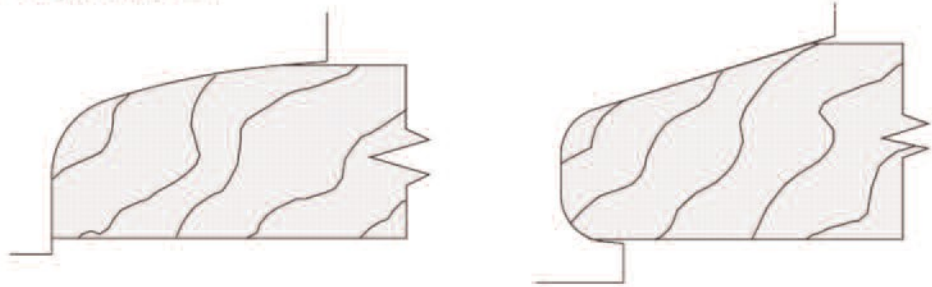
A dedicated profile router bit with single-sided profile inserts. Designed to profile composite and solid materials. Profile area per examples below.

Maximum RPM= 18,000



Part Number	F Max.	D	L2	Shank Dia./Length
6988.975.40	105	102	38	3/4" x 55 m.E.
6988.976.40	105	102	38	20 x 55 m.E.
6988.977.40	105	102	38	25 x 55 m.E.

Examples of profiles

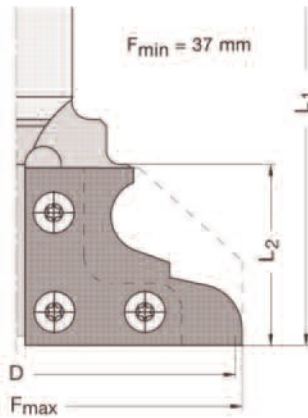


**6990 Z2**

**Customizable Profile  
Insert Router Bit**

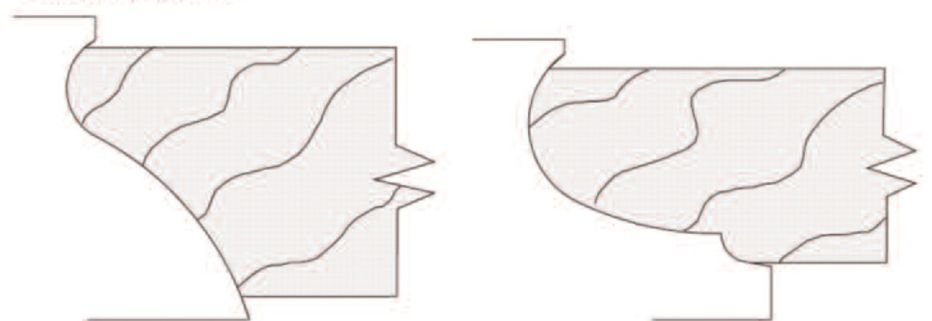
A dedicated profile router bit with single-sided profile inserts. Designed to profile composite and solid materials. Profile area per examples below.

Maximum RPM= 18,000



Part Number	F Max.	D	L2	Shank Dia./Length
6988.975.40	105	102	38	3/4" x 55 m.E.
6988.976.40	105	102	38	20 x 55 m.E.
6988.977.40	105	102	38	25 x 55 m.E.

Examples of profiles



(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

Quantity discounts on profile inserts.  
(Subject to one time template charge)

**Replacement Parts**

Part Number	Replacement Parts
39076-0-04000-R	M4 TORX Screw
39077-0-04015-3	TORX Wrench

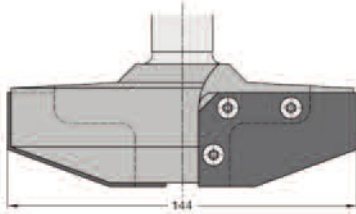
All inserts/profiles customized to specifications required.

**6989 Z2**

**Profile Insert Router Bit**

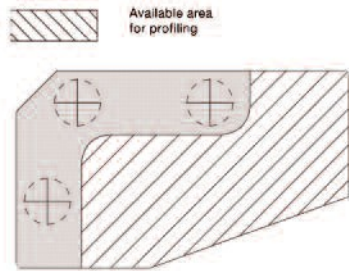
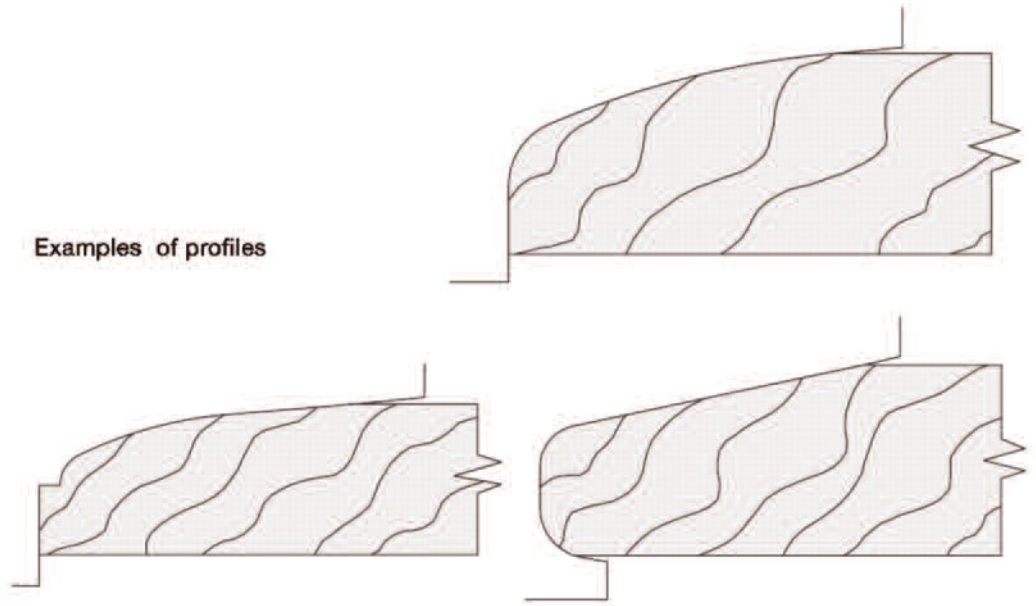
A dedicated profile router bit with single-sided profile inserts. Designed to profile composite and solid materials. Profile area per examples below.

Maximum RPM= 6,000



Part Number	F Max.	D	L2	Shank Dia./Length
<b>6989.141.40</b>	144	141	38	25 x 55 m.E.

Examples of profiles



**Solid Carbide Inserts**

Part Number	Dimensions	Notes
<b>4207.040.66</b>	40 x 66 x 2	Blank
<b>4207.041.66</b>	40 x 66 x 2	Profile

**Replacement Parts**

Part Number	Replacement Parts
<b>39076-0-04000-R</b>	M4 TORX Screw
<b>39077-0-04015-3</b>	TORX Wrench

All inserts/profiles customized to specifications required.

(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

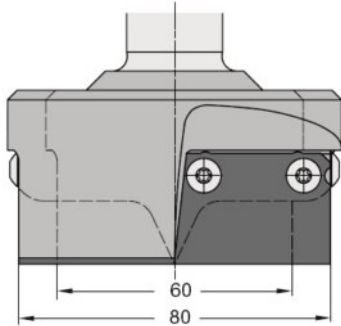
**Quantity discounts on profile inserts.**  
(Subject to one time template charge)

**6991 Z2**

**Profile Insert Router Bit**

A dedicated profile router bit with single-sided profile inserts. Designed to profile composite and solid wood materials. Profile area per examples below.

Maximum RPM= 12,000

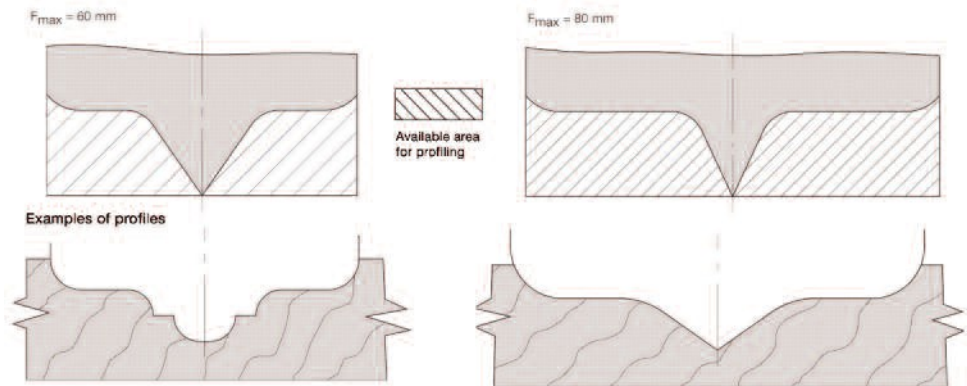


Part Number	F Max.	D	P	Shank Dia./Length
6991.900.40	80	90	32	3/4" x 55 m.E.
6991.900.41	80	90	32	25 x 55 m.E.

**Replacement Parts**

Part Number	Replacement Parts
39076-0-04000-R	M4 TORX Screw
39077-0-04015-3	TORX Wrench

All inserts/profiles customized to specifications required.



(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

**Quantity discounts on profile inserts.**  
(Subject to one time template charge)



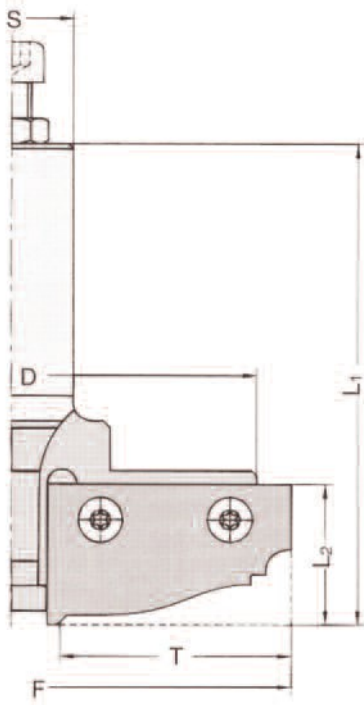
# 4325 Z2

# Raised Panel Insert Router Bit

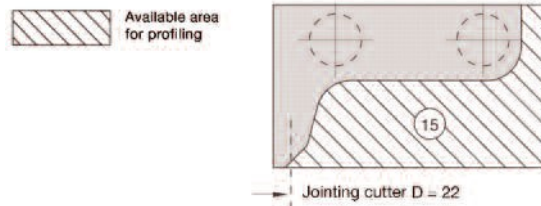
A dedicated router bit with single-sided profile inserts. Designed to profile composite and solid materials for deeper and wider profiles. Also available with an optional panel trim attachment for trimming panels to size. Raised panel insert with shear angle.

Profile area per examples below.

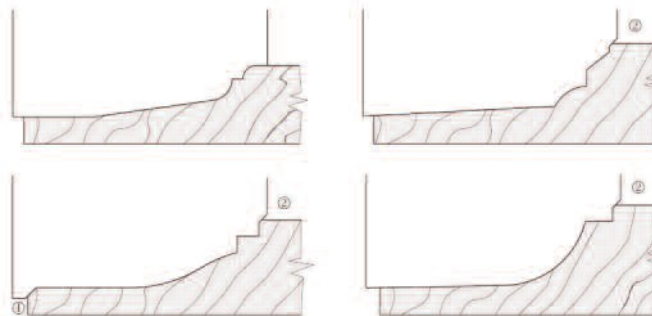
Right hand rotation.



Part Number	D	F	L2	L1	T	Shank Dia./Length
4325.112.19	108	112	28	97	46	3/4" x 50 m.E.
4325.112.20	108	112	28	97	46	20 x 50 m.E.
4325.112.00	108	112	28	97	46	25 x 50 m.E.



Examples of profiles



## Solid Carbide Inserts

Part Number	Dimensions	Type	Notes
4207.050.30	50 x 30 x 2.0	Blank	Raised Panel Insert
4207.051.30	50 x 30 x 2.0	Profiled	Raised Panel Insert
4200.012.00	12 x 12 x 1.5		Panel Trim Insert

Part Number	Part
4325.220.80	Panel Trim Attachment

(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

Quantity discounts on profile inserts.  
(Subject to one time template charge)

## Replacement Parts

Part Number	Replacement Part
39076-0-04040-R	M4 TORX Screw (for inserts)
39077-0-04015-2	TORX Wrench (T15)
39165-0-04020-R	M4 x 20 screw (to secure panel trim)
39140-0-00302-0	Wrench (SW3) (for M4 screw)

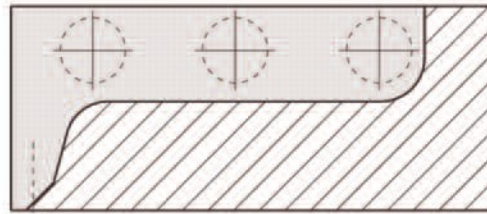
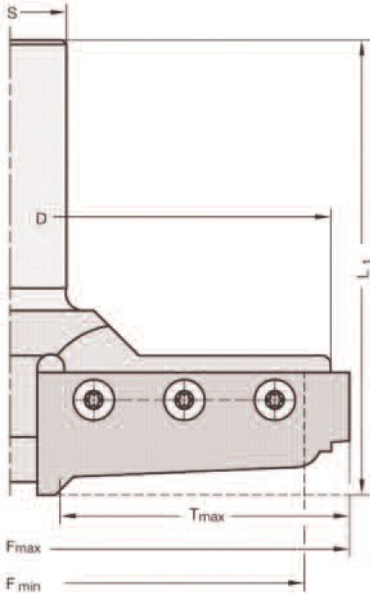
All inserts/profiles customized to specifications required.

# 4326 Z2

## Raised Panel Insert Router Bit

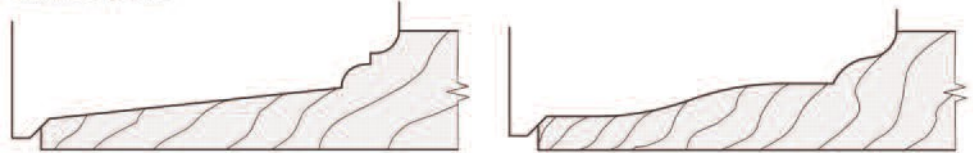
A dedicated router bit with single-sided profile inserts. Raised panel inserts with shear angle. Profile area per examples below. Optional panel trim attachment for trimming panels to size.

Part Number	F Max	F Min	L1	T Max	Shank Dia./Length
<b>4326.150.00</b>	150	130	98	64	25 x 55 m.E.



Jointing cutter D = 22 mm

Examples of profiles



### Solid Carbide Inserts

Part Number	Dimensions	Type
<b>4207.070.30</b>	70 x 30 x 2	Blank
<b>4207.071.31</b>	70 x 30 x 2	Profiled
<b>4200.012.00</b>	12 x 12 x 1.5	Panel Trim Insert

Part Number	Part
<b>4325.220.80</b>	Panel Trim Attachment

### Replacement Parts

Part Number	Replacement Part
<b>39076-0-04040-R</b>	M4 TORX Screw (for inserts)
<b>39077-0-04015-2</b>	TORX Wrench (T15)
<b>39165-0-04020-R</b>	M4 x 20 screw (to secure panel trim)
<b>39140-0-00302-0</b>	Wrench (SW3) (for M4 screw)

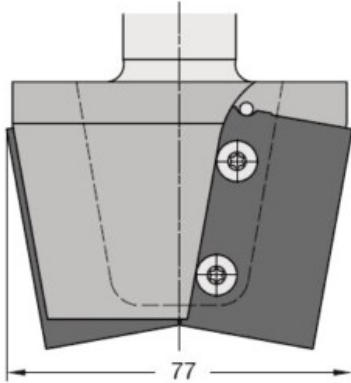
All inserts/profiles customized to specifications required.

(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

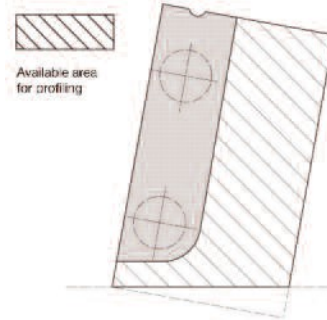
**Quantity discounts on profile inserts.**  
(Subject to one time template charge)

# 6995 Customizable Bottom Cutting Profiler

Tool body for two profiled interchangeable T.C. knives, with shear angle. For mechanical feed. Right-hand rotation. The interchangeable knives can be profiled according to opposite illustrations. The profile of body will be adapted in each case to the appropriate profile of knife. The interchangeable knives have to be ordered additionally.



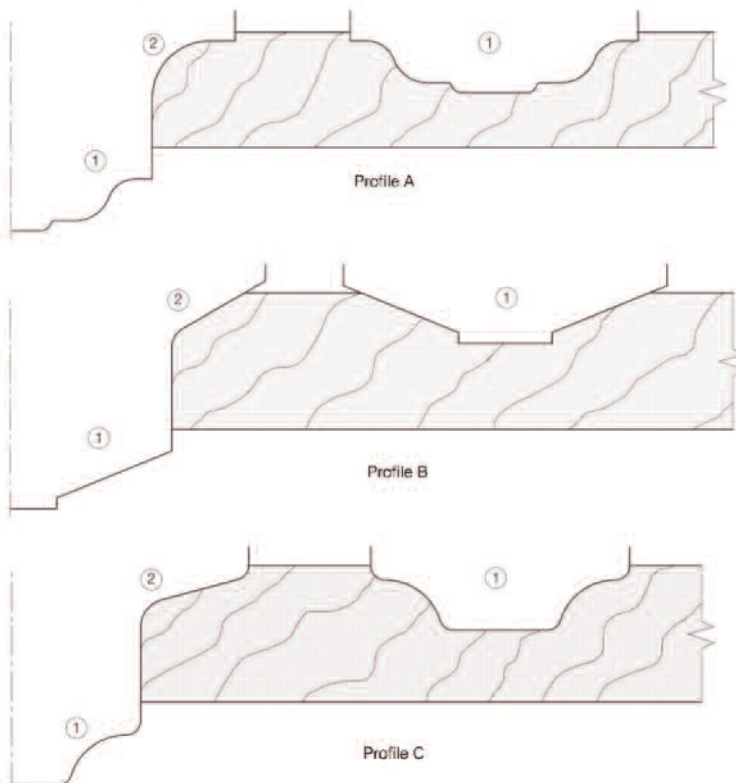
Part Number	F Max	D	L2	Shank
6995.004.74	77	74	43	3/4" x 55 m.E. M8
6995.005.74	77	74	43	20 x 55 m.E. M8
6995.006.74	77	74	43	25 x 55 m.E. M8



## Solid Carbide Inserts

Part Number	Dimensions	Type	Notes
72530-6-50300-R	50 x 30 x 2	Unprofiled	Standard Grade
72546-6-50301-R	50 x 30 x 2	Profiled	Standard Grade
72531-6-50300-R	50 x 30 x 2	Unprofiled	For Solid Wood
72546-6-50041-R	50 x 30 x 2	Profiled	For Solid Wood

Examples of profiles



(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

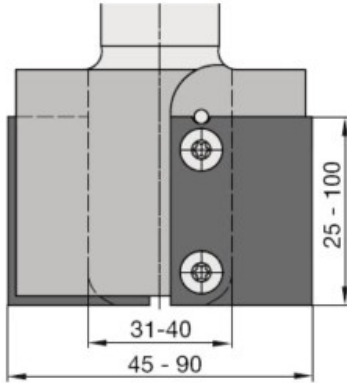
**Quantity discounts on profile inserts.**  
(Subject to one time template charge)

# 6994

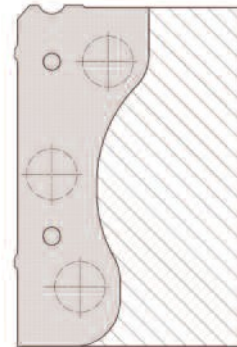
## Customizable Profile Insert Router Bit

Tool body for two profiled interchangeable T.C. knives, with synthetic fit. For mechanical feed. Right-hand rotation. The interchangeable T.C. knives can be profiled according to opposite illustrations. The profile of body will be adapted in each case to the appropriate profile of the knife. The interchangeable knives have to be ordered separately. For cutting deep, on both sides closed profiles, e.g. bull nose profiles up to R = 25 mm.

Maximum RPM= 12,000



Part Number	F Max	F Min	Shaft
6994.004.90	90	40	3/4" x 55 m.E. M8
6994.005.90	90	40	20 x 55 m.E. M8
6994.006.90	90	40	25 x 55 m.E. M8
6994.004.77	77	40	3/4" x 55 m.E. M8
6994.005.77	77	40	20 x 55 m.E. M8
6994.006.77	77	40	25 x 55 m.E. M8



### Solid Carbide Inserts

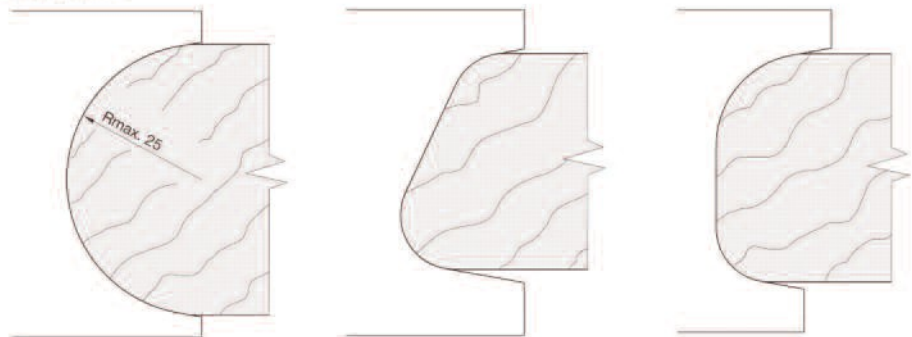
Part Number	Dimensions	Design	Packaging Unit
72534-6-60400-R	60 x 40 x 2	Blank	2
72534-6-60401-R	60 x 40 x 2	Profile	2

### Replacement Parts

Part Number	Replacement Parts	Dimensions	Packaging Unit
39076-0-04000-R	TORX Screw	M4 x 5.9 (T15)	10
39077-0-04015-2	TORX Screwdriver	T15	1

All inserts/profiles customized to specifications required.

Examples of profiles



(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

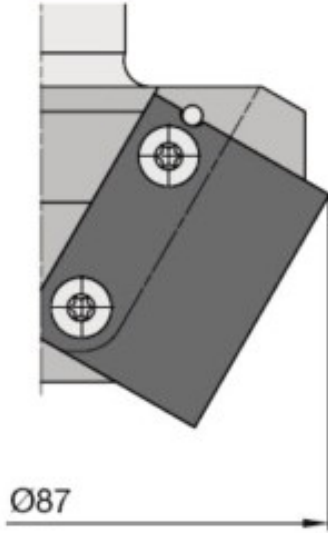
Quantity discounts on profile inserts.  
(Subject to one time template charge)

**6993**

**Customizable Profile Cutter  
for T.C. knives**

Tool body for two profiled interchangeable T.C. knives. Shear angle design. Right-hand rotation. For mechanical feed. The profile of body will be adapted in each case to the appropriate profile of knife. The interchangeable knives have to be ordered separately. For cutting decorative profiles for furniture and door production as well as for ceiling and wall panelling, etc. on stationary routers and CNC machines. Especially applicable when cutting large depth profiles.

Maximum RPM= 12,000



Part Number	F Max	R	L2	Shaft
6993.205.40	100	15-20	40	20 x 55 m.E. M8
6993.206.40	100	15-20	40	25 x 55 m.E. M8
6993.305.50	120	25-30	50	20 x 55 m.E. M8
6993.306.50	120	25-30	50	25 x 55 m.E. M8
6993.005.40	105/110	----	40	20 x 55 m.E. M8
6993.006.40	105/110	----	40	25 x 55 m.E. M8
6993.005.50	125/130	----	50	20 x 55 m.E. M8
6993.006.50	125/130	----	50	25 x 55 m.E. M8
6993.505.40	105/110	----	40	20 x 55 m.E. M8
6993.506.50	105/110	----	40	25 x 55 m.E. M8
6993.505.50	125/130	----	50	20 x 55 m.E. M8
6993.606.50	125/130	----	50	25 x 55 m.E. M8

**Solid Carbide Inserts**

Part Number	Dimensions	Notes
72538-6-00015-R	40 x 25 x 2	R 15 mm
72538-6-00020-R	40 x 25 x 2	R 20 mm
72538-6-00025-R	50 x 25 x 2	R 25 mm
72538-6-00030-R	50 x 25 x 2	R 30 mm
72530-6-40251-R	40 x 25 x 2	Profile
72530-6-40301-R	40 x 30 x 2	Profile
72530-6-50251-R	50 x 25 x 2	Profile
72530-6-50301-R	50 x 30 x 2	Profile
72530-6-40250-R	40 x 25 x 2	Blank
72530-6-40300-R	40 x 30 x 2	Blank
72530-6-50250-R	50 x 25 x 2	Blank
72530-6-50300-R	50 x 30 x 2	Blank

**Replacement Parts**

Part Number	Replacement Parts	Dimensions	Packaging Unit
39076-0-04000-R	TORX Screw	M4 x 5.9 (T15)	10
39077-0-04015-2	TORX Screwdriver	T15	1

All inserts/profiles customized to specifications required.

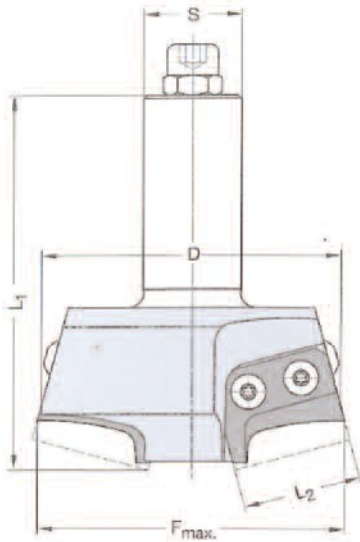
(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

**Quantity discounts on profile inserts.**  
(Subject to one time template charge)

**6996**

**Customizable Profile Cutter  
for T.C. knives**

Designed for large, roundover profiles of edges, table tops, etc.



Part Number	F Max	D	L2	Shaft
<b>6996.305.30</b>	80	78	30	20 x 55 m.E. M8
<b>6996.306.30</b>	80	78	30	25 x 55 m.E. M8

**Solid Carbide Inserts (Special Profile)**

Part Number	Dimensions	Type
<b>72530-6-30250-R</b>	30 x 25 x 2	Blank
<b>72537-6-30251-R</b>	30 x 25 x 2	Profile

**Replacement Parts**

Part Number	Replacement Part
<b>39076-0-04040-R</b>	M4 TORX Screw (for inserts)
<b>39077-0-04015-2</b>	TORX Wrench (T15)

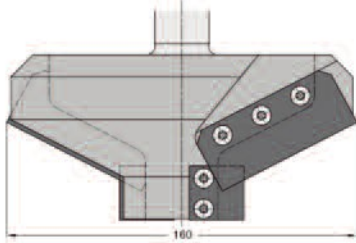
All inserts/profiles customized to specifications required.

(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

**Quantity discounts on profile inserts.**  
(Subject to one time template charge)

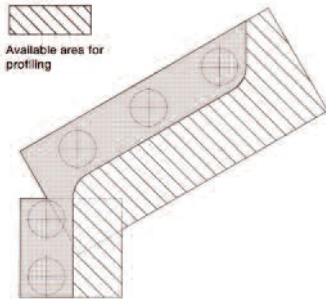
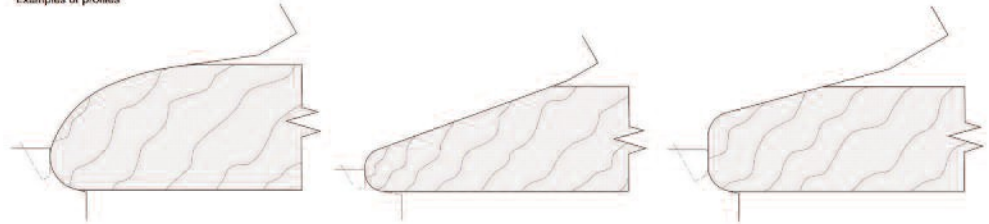
# 6997 Z2+2 Customizable Bottom Cutting Profiler

Tool body of high-quality light metal. Two upper and lower staggered profiled interchangeable T.C. knives, with shear angle. For mechanical feed. Right-hand rotation. The profile of the body will be adapted in each case to the appropriate profile of knife. The interchangeable knives have to be ordered additionally. Especially applicable for large profile depth on closed profiles, e.g. table edge profiles. Through staggered knife position optimum cutting edge geometry on top and bottom for perfect surface quality, also across the grain.



Part Number	F Max	D	F Min	Shaft	Body
<b>6997.006.38</b>	157	38	31	25 x 55 m.E. M8	Profiled
<b>6997.706.38</b>	157	38	31	25 x 55 m.E. M8	Unprofiled

Examples of profiles



## Solid Carbide Inserts

Part Number	Dimensions	Type
<b>72530-6-70300-R</b>	70 x 30 x 2	Blank
<b>72442-6-70301-R</b>	70 x 30 x 2	Profile
<b>72530-6-25250-R</b>	25 x 25 x 2	Blank
<b>72442-6-25251-R</b>	25 x 25 x 2	Profile

## Replacement Parts

Part Number	Replacement Part
<b>39076-0-04000-R</b>	M4 TORX Screw
<b>39077-0-04015-2</b>	TORX Wrench (T15)

All inserts/profiles customized to specifications required.

(LH) denotes left hand rotation.  
m.E. denotes adjusting screw size.

**Quantity discounts on profile inserts.**  
(Subject to one time template charge)