

PRECISION CNC MACHINE TOOLS

Thru-Bore, Dowel Type Drills - Tungsten Carbide Tipped

57mm Overall Length

- 27mm Length of Cut
- 10mm Diameter Shank

Part Number Right Hand	Part Number Left Hand	Drill Diameter	
0400-RH58	0400-LH58	4.00mm	(5/32")
0500-RH58	0500-LH58	5.00mm	
0520-RH58	0520-LH58	5.20mm	
0600-RH58	0600-LH58	6.00mm	
0635-RH58	0635-LH58	6.35mm	(1/4")
0650-RH58	0650-LH58	6.50mm	
0700-RH58	0700-LH58	7.00mm	
0800-RH58	0800-LH58	8.00mm	
0900-RH58	0900-LH58	9.00mm	
1000-RH58	1000-LH58	10.00mm	
1111-RH58	1111-LH58	11.11mm	(7/16")
1200-RH58	1200-LH58	12.00mm	

70mm Overall Length

- 48mm Length of Cut
- 10mm Diameter Shank

Part Number Right Hand	Part Number Left Hand	Drill Diameter	
0400-RH71	0400-LH71	4.00mm	(5/32")
0476-RH71	0476-LH72	4.76mm	(3/16")
0500-RH71	0500-LH71	5.00mm	
0520-RH71	0520-LH71	5.20mm	
0550-RH71	0550-LH71	5.50mm	(7/32")
0600-RH71	0600-LH71	6.00mm	
0635-RH71	0635-LH71	6.35mm	(1/4")
0650-RH71	0650-LH71	6.50mm	
0700-RH71	0700-LH71	7.00mm	
0750-RH71	0750-LH71	7.50mm	
0800-RH71	0800-LH71	8.00mm	(5/16")
0820-RH71	0820-LH71	8.20mm	
0850-RH71	0850-LH71	8.50mm	
0870-RH71	0870-LH71	8.70mm	
0900-RH71	0900-LH71	9.00mm	
0952-RH71	0952-LH71	9.52mm	(3/8")
1000-RH71	1000-LH71	10.00mm	
1111-RH71	1111-LH71	11.11mm	(7/16")
1200-RH71	1200-LH71	12.00mm	
1270-RH71	1270-LH71	12.70mm	(1/2")
1500-RH71	1500-LH71	15.00mm	
1600-RH71	1600-LH71	16.00mm	
1650-RH71	1650-LH71	16.50mm	
1700-RH71	1700-LH71	17.00mm	
1800-RH71	1800-LH71	18.00mm	
1900-RH71	1900-LH71	19.00mm	
2000-RH71	2000-LH71	20.00mm	

- Courmatt's thru-bore drills are designed for **continuous** use on **high speed** CNC machines, point to point machines and line boring machines.
- The thru-bore drill design provides a **perfect edge finish** on both the top and bottom of the drill hole when drilling through a variety of materials.
- Courmatt's thru-bore drills will not chip the top edge of the cut or push out the bottom of the cut.
- Thru-bore drills are manufactured with a **special grade of carbide** for **longer** tool life and **exacting** tolerances.
- Additional sizes in right and left hand rotation are available from stock or can be custom manufactured.
- Drill modifications include:
 - **Larger/smaller shank diameter**
 - **Drill tip angle modifications**
 - **Custom drill diameters**
 - **Step drill configurations**
 - **Fractional inch and metric sizes from standard drill sizes.**
 - **Counter bore / Counter sink**

Custom Tooling, Technical Information or Quantity Discounts contact us **TOLL FREE** at **1-800-722-4222**

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Fax: 602-438-8864 · **Internet:** www.courmatt.com · **Email:** sales@courmatt.com · technical@courmatt.com

PRECISION CNC MACHINE TOOLS

Thru-Bore, Dowel Type Drills - Tungsten Carbide Tipped Shank and Twist Style Countersinks - Tungsten Carbide Tipped

- Courmatt's thru-bore drills are designed for **continuous use on high speed** production machinery and provide a perfect edge finish on both the top and bottom of the drill hole when drilling through a variety of materials.
- Courmatt's thru-bore drills will not chip the top edge of the cut or push out the bottom of the cut.
- Thru-bore drills are manufactured with a **special grade of carbide** for **longer** tool life and **exacting** tolerances.
- Drill modifications include:
 - Larger/smaller shank diameter
 - Drill tip angle modifications
 - Custom drill diameters
 - Step drill configurations
 - Fractional inch and metric sizes from standard drill sizes.
 - Counter bore / Counter sink
- Shank and twist style countersinks allow for **drilling and countersink** machining in **one operation**.
- Shank style countersink fits **securely** against the drill shank and allows for use on a variety of drill sizes from 5-10mm.
- Twist style countersink allows for **varied** drill depth and countersink depth.

77mm Overall Length

- 48mm Length of Cut
- 10mm Diameter Shank

Part Number <u>Right Hand</u>	Part Number <u>Left Hand</u>	<u>Drill Diameter</u>	
0400-RH77	0400-LH77	4.00mm	(5/32")
0500-RH77	0500-LH77	5.00mm	
0600-RH77	0600-LH77	6.00mm	
0635-RH77	0635-LH77	6.35mm	(1/4")
0700-RH77	0700-LH77	7.00mm	
0714-RH77	0714-LH77	7.14mm	
0800-RH77	0800-LH77	8.00mm	
0820-RH77	0820-LH77	8.20mm	
0900-RH77	0900-LH77	9.00mm	
1000-RH77	1000-LH77	10.00mm	
1200-RH77	1200-LH77	12.00mm	

- Additional drill sizes are available from stock or can be custom produced.

Countersink – Shank Style

- Fits on 5mm to 10mm drills.
- Installs on drill shank with set screw.
- Fixed drill and countersink cut depth.

Part Number	Size
0510-TCS	5 - 10mm

Countersink – Twist Style

- Fits on 5mm to 10mm drills.
- Installs on drill twist with set screw.
- Variable drill and countersink cut depth

Part Number	Size
0400-TCS	4mm
0500-TCS	5mm
0600-TCS	6mm
0700-TCS	7mm
0800-TCS	8mm
0900-TCS	9mm
1000-TCS	10mm
1200-TCS	12mm

- Shank and twist style countersinks are available in left hand rotation. Add "L" to part number.



Additional Information:

PCD Tools:	A-1
Tool Holders:	B-1
Solid Carbide Tools:	C-1
Insert Tools:	E-1
57mm Thru-Bore:	D-1
70mm Thru-Bore:	D-1
2mm/Drill Adapters:	D-3
57mm Brad Point:	D-4
77mm Brad Point:	D-5
Hinge Bit Drill:	D-6
5mm Solid Carbide:	D-7
Trouble Shooting:	C-1
Feed Speeds:	C-3

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PRECISION CNC MACHINE TOOLS

Solid Carbide Drills - Drill Adapters and TCT Countersinks

Solid Carbide Bits

- 55mm Overall Length, 25mm Length of Cut
- Drill Tip and Shank Diameters Match.

Part Number Right Hand	Part Number Left Hand	Drill Diameter
0200-RHB	0200-LHB	2.00mm
0240-RHB	0240-LHB	2.40mm (3/32")
0250-RHB	0250-LHB	2.50mm
0280-RHB	0280-LHB	2.80mm
0300-RHB	0300-LHB	3.00mm
0320-RHB	0320-LHB	3.20mm (1/8")
0350-RHB	0350-LHB	3.50mm
0400-RHB	0400-LHB	4.00mm
0500-RHB	0500-LHB	5.00mm

Solid Carbide Drill Bit Adapters

- 10mm Shank x Drill Diameter
- Allows for small diameter drills to be used in CNC machines, drill units, point to point machines, and boring machines.

Part Number	Diameter
0200-APT	2.00mm
0240-APT	2.40mm
0250-APT	2.50mm
0280-APT	2.80mm
0300-APT	3.00mm
0320-APT	3.20mm
0350-APT	3.50mm
0400-APT	4.00mm
0500-APT	5.00mm

Solid Carbide Drill Bit Adapters with Carbide Tipped Countersink

- 45° Countersink Angle

Part Number	Diameter
0200-APTCT	2.00mm
0240-APTCT	2.40mm
0250-APTCT	2.50mm
0280-APTCT	2.80mm
0300-APTCT	3.00mm
0320-APTCT	3.20mm
0350-APTCT	3.50mm
0400-APTCT	4.00mm
0500-APTCT	5.00mm



- Solid carbide construction allows small diameter drill bits to be manufactured with **high strength** and long tool life.
- Solid carbide drills last **40 times longer** high speed steel drills and **10 times longer** than carbide tipped drills.
- Additional sizes in right and left hand rotation are available from stock or can be custom manufactured.
- Drill modifications include:
 - Larger/smaller shank diameter
 - Drill tip angle modifications
 - Custom drill diameters
 - Step drill configurations
 - Fractional inch and metric sizes from standard drill sizes.
 - Counter bore / Counter sink
- Solid carbide drill bit adapters have a set screw flat that allows small diameter drills to be used in CNC machines point to point machines, drill units and line boring machines.
- Solid carbide drill bit adapters with Tungsten Carbide countersink reduces cycle time by allowing **drilling and countersink** machining in **one operation**.

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PRECISION CNC MACHINE TOOLS

Brad Point, Dowel Type Drills - Tungsten Carbide Tipped

- Courmatt's Brad Point drills are designed for **continuous use on high speed** CNC machines, point to point machines and line boring machines.
- The Brad Point drill design provides a **perfect top edge finish** and proper chip evacuation when drilling partway through a variety of materials.
- Courmatt's Brad Point drill design ensures **excellent** chip evacuation, which prevents chip packing, promotes longer tool life and faster feed speeds and prevents premature tool wear.
- Brad Point drills are manufactured with a **special grade of carbide** for **longer** tool life and **exacting** tolerances.
- Additional sizes in right and left hand rotation are available from stock or can be custom manufactured.
- Drill modifications include:
 - **Modified shank diameter**
 - **Drill tip angle modifications**
 - **Custom drill diameters**
 - **Step drill configurations**
 - **Fractional inch sizes from standard and metric drill sizes.**
 - **Counter bore / Counter sink**

57mm Overall Length

- 25mm Length of Cut
- 10mm Diameter Shank

Part Number Right Hand	Part Number Left Hand	Drill Diameter	
0400-RH57	0400-LH57	4.00mm	(5/32")
0476-RH57	0476-LH57	4.76mm	(3/16")
0500-RH57	0500-LH57	5.00mm	
0520-RH57	0520-LH57	5.20mm	(13/64")
0550-RH57	0550-LH57	5.50mm	(7/32")
0600-RH57	0600-LH57	6.00mm	
0635-RH57	0635-LH57	6.35mm	(1/4")
0650-RH57	0650-LH57	6.50mm	
0670-RH57	0670-LH57	6.70mm	
0700-RH57	0700-LH57	7.00mm	
0714-RH57	0714-LH57	7.14mm	(9/32")
0800-RH57	0800-LH57	8.00mm	
0820-RH57	0820-LH57	8.20mm	
0850-RH57	0850-LH57	8.50mm	
0870-RH57	0870-LH57	8.70 mm	
0900-RH57	0900-LH57	9.00mm	
0952-RH57	0952-LH57	9.52mm	(3/8")
1000-RH57	1000-LH57	10.00mm	
1040-RH57	1040-LH57	10.40mm	
1100-RH57	1100-LH57	11.00mm	
1200-RH57	1200-LH57	12.00mm	
1270-RH57	1270-LH57	12.70mm	(1/2")
1300-RH57	1300-LH57	13.00mm	
1400-RH57	1400-LH57	14.00mm	
1500-RH57	1500-LH57	15.00mm	

Additional Information:

PCD Tools:	A-1
Tool Holders:	B-1
Solid Carbide Tools:	C-1
Insert Tools:	E-1
57/77mm Thru-Bore:	D-1
77mm Thru-Bore:	D-2
Countersink:	D-2
Solid Carbide, 2mm:	D-3
77mm Brad Point:	D-5
Hinge Bit Drill:	D-6
Solid Carbide, 5mm:	D-7
Trouble Shooting:	C-1
Feed Speeds:	C-3

Brad Point Drills

Thru-Bore Drills



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PRECISION CNC MACHINE TOOLS

Brad Point, Dowel Type Drills - Tungsten Carbide Tipped

70mm Overall Length

- 35mm Length of Cut
- 10mm Diameter Shank

Part Number Right Hand	Part Number Left Hand	Drill Diameter	
0400-RH70	0400-LH70	4.00mm	(5/32")
0476-RH70	0455-LH70	4.76mm	(3/16")
0500-RH70	0500-LH70	5.00mm	
0520-RH70	0520-LH70	5.20mm	
0550-RH70	0550-LH70	5.50mm	
0600-RH70	0600-LH70	6.00mm	
0635-RH70	0635-LH70	6.35mm	(1/4")
0650-RH70	0650-LH70	6.50mm	
0670-RH70	0670-LH70	6.70mm	
0700-RH70	0700-LH70	7.00mm	
0714-RH70	0714-LH70	7.14mm	(9/32")
0750-RH70	0750-LH70	7.50mm	
0800-RH70	0800-LH70	8.00mm	
0820-RH70	0820-LH70	8.20mm	
0873-RH70	0873-LH70	8.73mm	(11/32")
0900-RH70	0900-LH70	9.00mm	
0952-RH70	0952-LH70	9.52mm	(3/8")
1000-RH70	1000-LH70	10.00mm	
1040-RH70	1040-LH70	10.40mm	
1100-RH70	1100-LH70	11.00mm	
1110-RH70	1110-LH70	11.10mm	(7/16")
1200-RH70	1200-LH70	12.00mm	
1270-RH70	1270-LH70	12.70mm	(1/2")
1300-RH70	1300-LH70	13.00mm	
1400-RH70	1400-LH70	14.00mm	
1429-RH70	1429-LH70	14.29mm	
1600-RH70	1600-LH70	16.00mm	
1700-RH70	1700-LH70	17.00mm	

- Courmatt's Brad Point drills are designed for **continuous use on high speed** CNC machines, point to point machines and line boring machines.
- The Brad Point drill design provides a **perfect top edge finish** and proper chip evacuation when drilling partway through a variety of materials.
- Courmatt's Brad Point drill design ensures **excellent chip evacuation**, which prevents chips from packing in the drill hole, promotes faster feed speeds and prevents premature tool wear.
- Additional sizes in right and left hand rotation are available from stock or can be custom manufactured.
- Drill modifications include:
 - Larger/smaller shank diameter
 - Drill tip angle modifications
 - Custom drill diameters
 - Step drill configurations
 - Fractional inch and metric sizes from standard drill sizes.
 - Counter bore / Counter sink
- **Custom drills** can be manufactured to a variety of cut lengths, shank diameters, drill tip diameters and overall lengths. A six piece minimum order is required for custom drills.



Custom Drills

Additional Information:

PCD Tools:	A-1
Tool Holders:	B-1
Solid Carbide Tools:	C-1
Insert Tools:	E-1
57mm Thru-Bore:	D-1
70mm Thru-Bore:	D-1
77mm Thru-Bore:	D-2
Countersink, 2mm:	D-2
Solid Carbide, 2mm:	D-3
57mm Brad Point:	D-4
Hinge Bit Drill:	D-6
Solid Carbide, 5mm:	D-7
Trouble Shooting:	C-1
Feed Speeds:	C-3

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PRECISION CNC MACHINE TOOLS

Hinge Bit (Fostner Bit) Drills - Tungsten Carbide Tipped

▪ Courmatt's hinge bit drills are available in various diameters and are designed for **continuous use on high speed** CNC machines, point to point machines, and line boring machines.

▪ The hinge bit drill design provides a **perfect top edge finish** and proper chip evacuation when drilling partway through a variety of materials.

▪ Courmatt's hinge bit drill design ensures **excellent chip evacuation**, which prevents chips from packing in the drill hole, **promotes feed speeds** and **prevents premature tool wear**.

▪ Hinge bit drills are manufactured with a **special grade of carbide** for longer tool life and exacting tolerances.

▪ Additional sizes in right and left hand rotation are available from stock or can be custom manufactured.

▪ Drill modifications include:

- Larger/smaller shank diameter
- Drill tip angle modifications
- Custom drill diameters
- Step drill configurations
- Fractional inch sizes from standard drill sizes.

57mm Overall Length

- 10mm Diameter Shank

Part Number Right Hand	Part Number Left Hand	Drill Diameter
15HB-RH57	15HB-LH57	15.00mm
16HB-RH57	16HB-LH57	16.00mm
1650HB-RH57 *	1650HB-LH57 *	16.50mm
18HB-RH57	18HB-LH57	18.00mm
19HB-RH57	19HB-LH57	19.00mm (3/4")
1970HB-RH57	1970HB-LH57	19.70mm
20HB-RH57	20HB-LH57	20.00mm
22HB-RH57	22HB-LH57	22.00mm
24HB-RH57	24HB-LH57	24.00mm
25HB-RH57	25HB-LH57	25.00mm (.984")
26HB-RH57	26HB-LH57	26.00mm
2700-RH57	27HB-LH57	27.00mm
28HB-RH57	28HB-LH57	28.00mm
30HB-RH57	30HB-LH57	30.00mm
32HB-RH57	32HB-LH57	32.00mm
35HB-RH57	35HB-LH57	35.00mm
38HB-RH57	38HB-LH57	38.00mm (1-1/2")
40HB-RH57	40HB-LH57	40.00mm

* For the Timberline Lock assembly.

70mm Overall Length

- 10mm Diameter Shank

Part Number Right Hand	Part Number Left Hand	Drill Diameter
1473HB-RH70	1473HB-LH70	14.73mm (9/16")
15HB-RH70	15HB-LH70	15.00mm
16HB-RH70	16HB-LH70	16.00mm
17HB-RH70	17HB-LH70	17.00mm
19HB-RH70	19HB-LH70	19.00mm
20HB-RH70	20HB-LH70	20.00mm
25HB-RH70	25HB-LH70	25.00mm
26HB-RH70	26HB-LH70	26.00mm
2860HB-RH70	2860HB-LH70	28.60mm (1-1/8")
30HB-RH70	30HB-LH70	30.00mm
35HB-RH70	35HB-LH70	35.00mm
38HB-RH70	38HB-LH70	38.00mm (1-1/2")
40HB-RH70	40HB-LH70	40.00mm
44HB-RH70	44HB-LH70	44.00mm
45HB-RH70	45HB-LH70	45.00mm

Additional Information:

PCD Tools:	A-1
Tool Holders:	B-1
Solid Carbide Tools:	C-1
Insert Tools:	E-1
57mm Thru-Bore:	D-1
70mm Thru-Bore:	D-1
77mm Thru-Bore:	D-2
Countersink, 2mm:	D-2
Solid Carbide, 2mm:	D-3
57mm Brad Point:	D-4
77mm Brad Point:	D-5
Solid Carbide Drills and Adapters:	D-7
Trouble Shooting:	C-1
Feed Speeds:	C-3

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PRECISION CNC MACHINE TOOLS

Hinge Bit Drill - Insert Knife Design Threaded Drill Adapters - 8mm and 10mm Brad Point, Dowel Type Solid Carbide Drills

Hinge Bit Drill, Insert Knife Design

- 35mm Drill Diameter
- 10mm Diameter Shank

Part Number <u>Right Hand</u>	Part Number <u>Left Hand</u>	<u>Drill Diameter</u>
35IN-RH57	35IN-LH57	35.00mm
35IN-RH70	35IN-LH70	35.00mm
35RH-INCA	35LH-INCA	Insert knives
INCA-SPUR	----	Spur knives
PD-24	----	Drill

- Other sizes made to specifications.

Threaded Drill Adapter

- Drill adapters for point to point, CNC and boring machines with threaded mounting base requirements.
- For use with 10mm drill shanks.

Part Number <u>Right Hand</u>	Part Number <u>Left Hand</u>	<u>Thread Size</u>
APT-810-R	APT-810-L	8mm x
APT-10F-R	APT-10F-L	10mm x
APT-10B-R	APT-10B-L	10mm x

- Drill adapters are also available with shank mounting for machines with drill chuck or collect systems.
- Quick change connector systems are available for use with threaded drill adapters in production machinery.

Solid Carbide Brad Point Drills

- 57mm Overall Length
- 25mm Length of Cut
- 10mm Diameter Shank

Part Number <u>Right Hand</u>	Part Number <u>Left Hand</u>	<u>Drill Diameter</u>
0300-RH57SC	0300-LH57SC	3.00mm
0320-RH57SC	0320-LH57SC	3.20mm
0400-RH57SC	0400-RH57SC	4.00mm
0500-RH57SC	0500-LH57SC	5.00mm
0600-RH57SC	0600-RH57SC	6.00mm
0800-RH57SC	0800-LH57SC	8.00mm
1000-RH57SC	1000-LH57SC	10.00mm
1200-RH57SC	1200-LH57SC	12.00mm

- The **hinge bit drill insert knife tool** body is the tool of choice for high volume production applications. The replaceable solid carbide insert knives provide:

- **Consistent tool diameters**
- **Longer tool life than carbide tipped and high speed steel tools.**

- **Solid carbide** Brad Point drills eliminate problems with broken drill tips and last minimum **40 times** longer than high speed steel drills and **10 times** longer than carbide tipped drills.

- Additional sizes in right and left hand rotation are available from stock or can be custom manufactured.

- The Brad Point drill design provides a **perfect top edge finish** and **proper chip** evacuation in a variety of materials.

- Drill modifications include:

- **Larger/smaller shank diameter**
- **Drill tip angle modifications**
- **Custom drill diameters**
- **Step drill configurations**
- **Fractional inch sizes from standard drill sizes.**
- **Counter bore / Counter sink**

Additional Information:

PCD Tools: A-1
Tool Holders: B-1
Solid Carbide Tools: C-1
Insert Tools: E-1

57mm Thru-Bore: D-1
70mm Thru-Bore: D-1
77mm Thru-Bore: D-2
Countersink, 2mm: D-2
Solid Carbide, 2mm: D-3
57mm Brad Point: D-4
77mm Brad Point: D-5
Hinge Bit Drill: D-6

Trouble Shooting: C-1
Feed Speeds: C-3

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PRECISION CNC MACHINE TOOLS

Solid Carbide Brad Point and Thru-Bore Drills

- **Solid carbide** drills eliminate problems with broken drill tips and last minimum **40 times longer** than high speed steel drills and **10 times longer** than carbide tipped drills.
- Courmatt's solid carbide drills are designed for **continuous use on high speed** CNC machines, point to point and line boring machines.
- The Brad Point drill design provides a **perfect top edge finish** and proper chip evacuation when drilling partway through a variety of materials.
- Courmatt's Brad Point drill design ensures **excellent** chip evacuation, which prevents chips from packing in the drill hole, promotes **feed speeds** and prevents **premature tool wear**.
- The thru-bore drill design provides a **perfect edge finish** on both the top and bottom of the drill hole when drilling through a variety of materials.
- Courmatt's thru-bore drills will not chip the top edge of the cut or blow out the bottom of the cut.
- Brad Point and thru-bore drills are manufactured with a **special grade of carbide** for **longer** tool life, **greater** strength and **exacting** tolerances.
- Additional sizes in right and left hand rotation are available from stock or can be custom manufactured.

Solid Carbide Brad Point Drills

- 70mm Overall Length
- 35mm Length of Cut
- 10mm Diameter Shank

Part Number Right Hand	Part Number Left Hand	Drill Diameter
0400-RH70SC	0400-LH70SC	4.00mm
0500-RH70SC	0500-LH70SC	5.00mm
0600-RH70SC	0600-LH70SC	6.00mm
0800-RH70SC	0800-LH70SC	8.00mm
1000-RH70SC	1000-LH70SC	10.00mm
1200-RH70SV	1200-LH70SC	12.00mm

Solid Carbide Thru-Bore Drills

- 57mm Overall Length
- 25mm Length of Cut
- 10mm Diameter Shank

Part Number Right Hand	Part Number Left Hand	Drill Diameter
0400-RH58SC	0400-LH58SC	4.00mm
0500-RH58SC	0500-LH58SC	5.00mm
0600-RH58SC	0600-LH58SC	6.00mm
0800-RH58SC	0800-LH58SC	8.00mm
1000-RH58SC	1000-LH58SC	10.00mm

Solid Carbide Thru-Bore Drills

- 70mm Overall Length
- 35mm Length of Cut
- 10mm Diameter Shank

Part Number Right Hand	Part Number Left Hand	Drill Diameter
0400-RH71SC	0400-LH71SC	4.00mm
0500-RH71SC	0500-LH71SC	5.00mm
0600-RH71SC	0600-LH71SC	6.00mm
0700-RH71SC	0700-LH71SC	7.00mm
0800-RH71SC	0800-LH71SC	8.00mm
1000-RH71SC	1000-LH71SC	10.00mm
1200-RH71SC	1200-LH71SC	12.00mm

Additional Information:

PCD Tools:	A-1
Tool Holders:	B-1
Solid Carbide Tools:	C-1
Insert Tools:	E-1
57/70mm Thru-Bore:	D-1
77mm Thru-Bore:	D-2
Solid Carbide, 2mm:	D-3
57mm Brad Point:	D-4
77mm Brad Point:	D-5
Hinge Bit Drill:	D-6

Custom Tooling, Technical Information or Quantity Discounts contact us **TOLL FREE** at **1-800-722-4222**

Courmatt International, Inc. · 2117 South 48th Street · Suite 104 · Tempe, AZ 85282 · **Phone:** 602-438-8662
Fax: 602-438-8864 · **Internet:** www.courmatt.com · **Email:** sales@courmatt.com · technical@courmatt.com