

ULTIMATE UBACK! TOOLS

PRECISION BACK COUNTER SOLUTIONS



The Ultimate Back line brings together the innovative **UX** Tool-holders and **USPOT** & **UCHAMF** inserts to redefine machining precision. Featuring a patented hydraulic mechanism that ingeniously uses the machine's coolant liquid, this system delivers exceptional control over insert movement.

THE RESULT - Unparalleled accuracy, repeatability, and streamlined operations for back counterboring, back countersinking, and back spotfacing tasks.

ULTIMATE UBACK! TOOLS

PRECISION BACK COUNTER SOLUTIONS

NOGA MT's Ultimate Back series combines innovative **UX** Tool-holders with **USPOT** & **UCHAMF** inserts to deliver unparalleled precision in back spotfacing, back counterboring, and back countersinking operations. This system utilizes a registered patented hydraulic mechanism operated by the CNC machine's coolant, ensuring exceptional control over insert movement for accurate and repeatable machining which optimizes machining processes and reduces cycle times. Its advanced engineering ensures flawless results, making it the ultimate choice for professionals seeking precision and efficiency in their machining operations.

UBACK

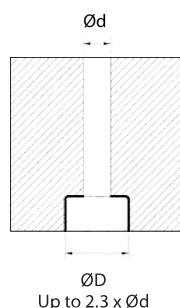
Tool Holders Support Pilot Hole Diameters $\varnothing d$
Ranging from 8.0-25.0mm (0.315-0.984")

USPOT Inserts



Through-hole Back Counterboring or Spotfacing

Spotface Diameters from 8.5-57.5mm (0.335-2.264")
Semi-Standard or Tailor-made Inserts

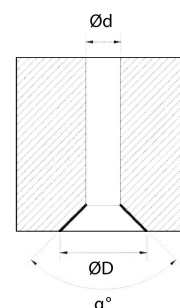


UCHAMF Inserts



Through-hole Back Chamfering

Countersink Diameters from 8.5-46.0mm (0.335-1.811")
Available with Standard 82° and 90° Countersink Inserts



ULTIMATE UBACK! TOOLS

UBACK MAIN BENEFITS

OPERATIONAL

- Single-pass operation without workpiece rotation.
- Superior chip management.
- Streamlined insert replacement.
- Protected pilot hole integrity.

PRODUCTION

- **SolidCAM Ready:** The UBACK tool-holders are included in SolidCAM libraries, providing quick access to specifications and applications for seamless integration. This simplifies programming, reduces cycle times and enhances overall efficiency.



- Automation-compatible design for optimizing efficiency.
- Cost-effective for all production volumes.

INDUSTRIAL APPLICATIONS

- Aerospace
- Automotive
- Medical
- Electronics

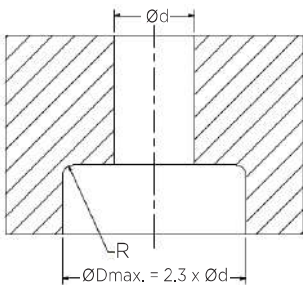


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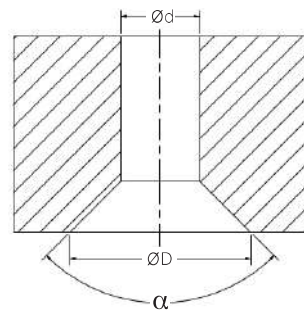
MAIN BENEFITS

Our patented hydraulic mechanism harnesses your machine's coolant liquid to deliver precise control over insert movement, ensuring exceptional accuracy and repeatability in:

BACK COUNTERBORING AND SPOTFACING



BACK COUNTERSINKING AND CHAMFERING



UBACK TOOL-HOLDERS FEATURES

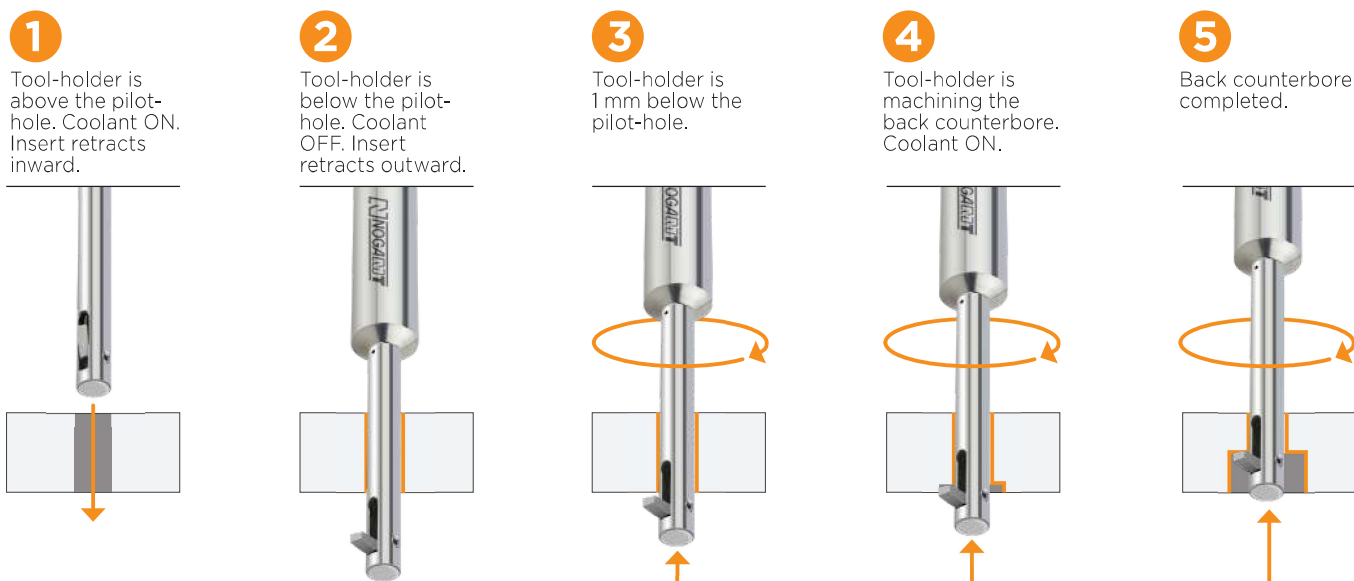
- Innovative hydraulic coolant-powered precision control mechanism for controlling the insert retraction into the tool-holder body.
- Minimum pressure requirement: 20 bar / 300 PSI.
- Compatible to work with air, emulsion or MQL.
- Diameter range: $\varnothing 8$ mm to $\varnothing 25$ mm (0.315 - 0.984") with increments of 1 mm (0.039").
- Superior chip-control with coolant directed to the cutting edge.
- Compatible for both USPOT or UCHAMF inserts.

USPOT & UCHAMF INSERTS FEATURES

- High accuracy and reparability due to advanced production process.
- The USPOT inserts can reach up to 2.3 from the pilot-hole diameter.
- Specialized designs for specific machining operations.
- Easy single-screw replacement.
- Various coating options available.
- Customizable chip-formers and corner radii.
- Protective pilot hole design preventing scratches.

UBACK

HOW DOES UBACK WORK?



COMPARATIVE ANALYSIS

FEATURE	UBACK by NOGAMT	COMPETITOR "X"
TECHNOLOGY	Hydraulic mechanism for precise control	Mechanical and hydraulic mechanism
APPLICATIONS	Back spotfacing, counterboring, countersinking, including interrupted cut applications	Back spotfacing, counterboring, with limited interrupted cut applications
MATERIAL SUITABILITY	Compatible with all materials; offers advanced coatings and chip-formers (e.g. hardened steel, composites).	Limited materials; fewer coatings and chip-formers
AUTOMATION READINESS	Fully compatible with CNC and robotic systems	Limited CNC integration
INSERT RETRACTION	Precise hydraulic actuation	Controlled with hydraulic actuation
INSERT EXTENSION	Precise hydraulic actuation	Uses centrifugal force
COOLANT SYSTEM	Same tool-holder works for air, emulsion or MQL	Requires a different tool-holder system
SPEED & EFFICIENCY	Delivers faster cycle times and high repeatability	Standard operational speed
CHIP CONTROL	Advanced chip-formers and optimized coating for better control	Basic chip evacuation system
INSERT REPLACEMENT	Easy replacement with a single screw, no additional tools needed	Requires replacement pins and special mounting devices

VALUE PROPOSITION

The **UBACK** by NOGAMT redefines back machining with its combination of precision engineering and operational efficiency. Its innovative design enhances machining processes, ensuring consistent, high-quality results, while minimizing operational costs and maximizing productivity. This makes it the ideal solution for advanced manufacturing, excelling in precision, speed and material versatility.

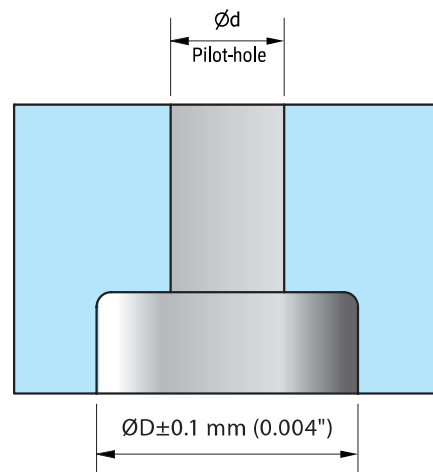
UBACK USPOT INSERT

SERIES AND RANGE

The **UBACK** line is divided into series or groups, with each series optimized for a specific pilot-hole range and determined by the type of insert family.

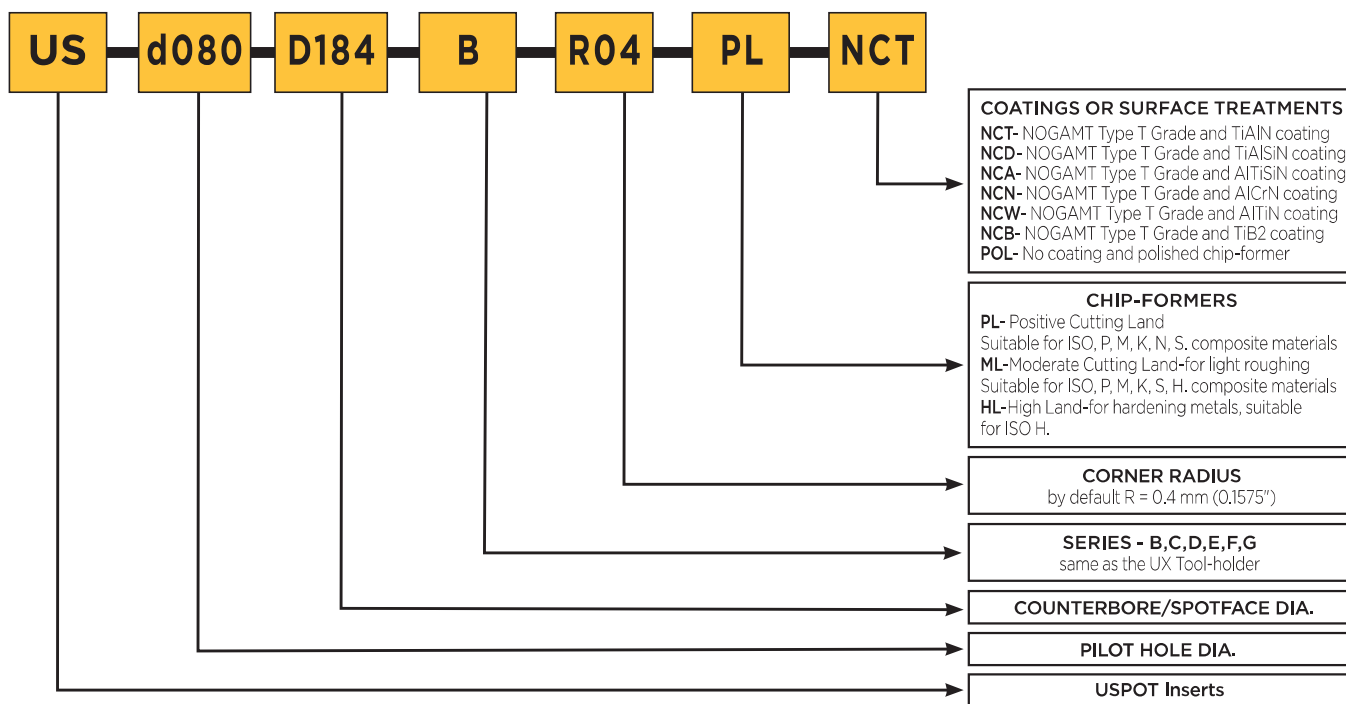
For **USPOT** inserts:

SERIES	Ød PILOT-HOLE RANGE mm / Inch	ØD COUNTERBORE RANGE mm / Inch
B	8.0 -10.0 / 0.315 - 0.394	8.5 -23.0 / 0.335 - 0.906
C	11.0 -13.0 / 0.433 - 0.512	11.5 - 30.0 / 0.453 - 1.181
D	14.0 -16.0 / 0.551 - 0.630	14.5 -37.0 / 0.571 - 1.457
E	17.0 -19.0 / 0.669 - 0.748	17.5 -44.0 / 0.689 - 1.732
F	20.0 -22.0 / 0.787 - 0.866	20.5 -50.5 / 0.807 - 1.988
G	23.0 -25.0 / 0.906 - 0.984	23.5 -57.5 / 0.925 - 2.264



The **USPOT inserts** are offered as semi-standard solutions tailored to meet customer-specific applications. It is mandatory to match the tool-holder series with the corresponding insert series.

■ USPOT INSERTS CODING SYSTEM SPECIFICATIONS AND IDENTIFICATION:



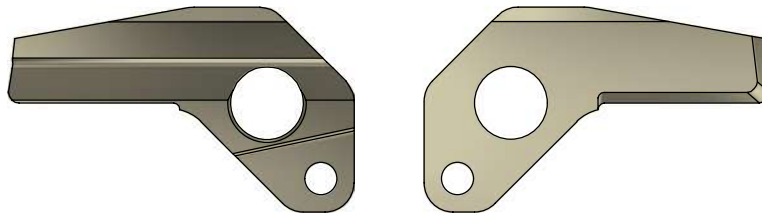
NOTES:

- Coating:** Our top recommendation is the NCT grade, featuring the versatile TiAlN PVD coating. It offers excellent thermal stability, oxidation resistance, and is compatible with a wide range of materials, including mild steels, stainless steel, and Inconel. For additional options, refer to the list of available coatings on page 37.
- Tool-holders and inserts** are sold separately.

UBACK USPOT INSERT

HOW TO ORDER A USPOT INSERT TO MATCH YOUR APPLICATION

The **USPOT** inserts are available only as semi-standard solutions tailored to customer applications.



- **CHOOSE THE APPROPRIATE TOOL-HOLDER BASED ON THE PILOT HOLE DIAMETER.**
For instance, if the pilot hole diameter is 8.5 mm, select the **UX2080**, which supports a minimum diameter ($\varnothing_{\text{dmin}}$) of 8 mm.
- **SPECIFY THE REQUIRED PARAMETERS FOR THE USPOT INSERT**, including the pilot-hole diameter, counter-bore or spotface diameter, corner radius, chip-former and coating according to coding system page 26.
- **FILL IN THE RELEVANT DETAILS FOR THE USPOT INSERT** description as outlined in the coding system below.
- **ENSURE COMPATIBILITY BETWEEN THE USPOT INSERT SERIES AND THE CORRESPONDING UX TOOL-HOLDER.** The series of the insert must match the series of the **UX** tool-holder.

USPOT - EXAMPLE FOR ORDERING SEMI-STANDARD INSERT:

Here is an example of coding a semi-standard **USPOT** insert for the application shown below:

1. $\varnothing d = 8.7\text{mm}$ (0.343")
2. $\varnothing D = 17.6\text{mm}$ (0.693")
3. $R = 0.2\text{mm}$ (0.032")
4. **Material:** AISI 4340 / 34CrNiMo6 (1.6582) / SNCM439, tempered to 42 HR

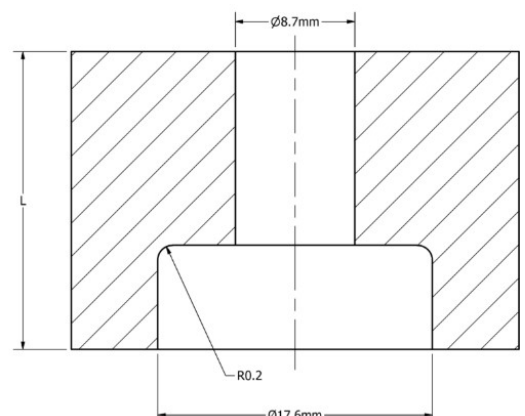
The recommended tool-holder is **UX2080 / UX-d080-B-C16-H62-L115**.

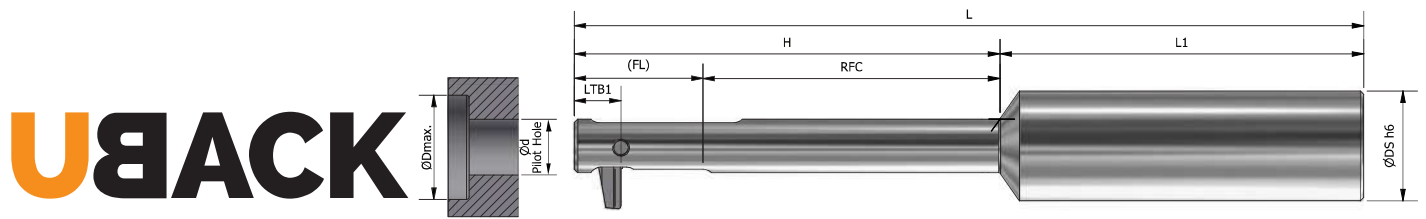
The corresponding insert is **US-d087-D176-B-R02-ML-NCT**

IMPORTANT NOTES:

Ensure that the pilot-hole length (L) is less than or equal to the RFC (Relief For Cutting) $L \leq \text{RFC}$, as specified in the UBACK tool-holders table pages 28-29.

If you need further assistance, please don't hesitate to contact us:
Providing an application drawing or sketch, the raw material specifications, and any other relevant information will help us assist you more effectively.





STANDARD TOOL-HOLDERS WITH USPOT INSERTS (mm)

Ød min. PILOT HOLE	SKU TOOL- HOLDER	DESCRIPTION TOOL-HOLDER	ØDS h6	FL ⁽¹⁾	RFC ⁽²⁾	H	L	L1	LTB1 ⁽³⁾ USPOT	ØD ⁽⁴⁾ max.	INSERTING CLAMPING SCREW MxPxL (mm)	SERIES ⁽⁵⁾
8	UX2080	UX-d080-B-C16-H62-L115	16	17	43	62	115	53	6.8	18.5	UX0005/ M2.5x0.35x7B	B
9	UX2090	UX-d090-B-C16-H62-L115	16	17.8	43	62	115	53	6.8	21		B
10	UX2100	UX-d100-B-C16-H62-L115	16	18.8	43	62	115	53	6.8	23		B
11	UX3110	UX-d110-C-C16-H80-L133	16	27	52	80	133	53	11.4	26	UX0006/ M3x0.35x10C	C
12	UX3120	UX-d120-C-C16-H80-L133	16	27.3	52	80	133	53	11.4	28		C
13	UX3130	UX-d130-C-C16-H80-L133	16	28	52	80	133	53	11.4	30		C
14	UX4140	UX-d140-D-C20-H105-L158	20	32.5	72.5	105	158	53	13.5	32.5	UX0007/ M3x0.35x13D	D
15	UX4150	UX-d150-D-C20-H105-L158	20	32.5	72.5	105	158	53	13.5	34.5		D
16	UX4160	UX-d160-D-C20-H105-L158	20	32.5	72.5	105	158	53	13.5	37		D
17	UX5170	UX-d170-E-C20-H115-L170	20	38.5	76.5	115	170	55	16	39.5	UX0008/ M3x0.35x16E	E
18	UX5180	UX-d180-E-C20-H115-L170	20	38.5	76.5	115	170	55	16	41.5		E
19	UX5190	UX-d190-E-C20-H115-L170	20	38.5	76.5	115	170	55	16	44		E
20	UX6200	UX-d200-F-C25-H120-L175	25	43.5	76.5	120	175	55	17.8	46	UX0009/ M4x0.5x19F	F
21	UX6210	UX-d210-F-C25-H120-L175	25	43.5	76.5	120	175	55	17.8	48.5		F
22	UX6220	UX-d220-F-C25-H120-L175	25	43.5	76.5	120	175	55	17.8	50.5		F
23	UX7230	UX-d230-G-C25-H120-L175	25	48	72	120	175	55	20	53	UX0010/ M4x0.5x21G	G
24	UX7240	UX-d240-G-C25-H120-L175	25	48	72	120	175	55	20	55.5		G
25	UX7250	UX-d250-G-C25-H120-L175	25	48	72	120	175	55	20	57.5		G

(1) FL - Folding Length.

(2) RFC - Relief For Cutting.

(3) LTB (Length to bottom) parameter varies between **USPOT** and **UCHAMF** inserts.

(4) The achieved tolerance for the counterbore or spotface diameter ØD is ± 0.1 mm (0.004").

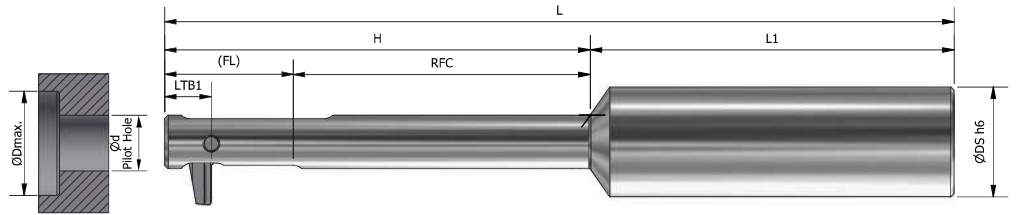
(5) The insert series must match the series of the tool-holder.

NOTE Tool-holders and inserts are sold separately.

UX Tool-holder Spare Parts:

-  Hex L-Key - SP0105 0.050" 1 + 1/16 /1 + 9/16
-  Insert Clamping Screw - according to the table above.
-  Pin - UX0003

U BACK



STANDARD TOOL-HOLDERS WITH USPOT INSERTS (Inch)

Ød min. PILOT HOLE	SKU TOOL- HOLDER	DESCRIPTION TOOL-HOLDER	ØDS h6	FL ⁽¹⁾	RFC ⁽²⁾	H	L	L1	LTB1 ⁽³⁾ USPOT	ØD ⁽⁴⁾ max.	INSERTING CLAMPING SCREW MxPxL (mm)	SERIES ⁽⁵⁾
0.315	UX2080	UX-d080-B-C16-H62-L115	0.630	0.669	1.693	2.441	4.528	2.087	0.268	0.728	UX0005/ M2.5x0.35x7B	B
0.354	UX2090	UX-d090-B-C16-H62-L115	0.630	0.701	1.693	2.441	4.528	2.087	0.268	0.827		B
0.394	UX2100	UX-d100-B-C16-H62-L115	0.630	0.740	1.693	2.441	4.528	2.087	0.268	0.906		B
0.433	UX3110	UX-d110-C-C16-H80-L133	0.630	1.063	2.047	3.150	5.236	2.087	0.449	1.024	UX0006/ M3x0.35x10C	C
0.472	UX3120	UX-d120-C-C16-H80-L133	0.630	1.075	2.047	3.150	5.236	2.087	0.449	1.102		C
0.512	UX3130	UX-d130-C-C16-H80-L133	0.630	1.102	2.047	3.150	5.236	2.087	0.449	1.181		C
0.551	UX4140	UX-d140-D-C20-H105-L158	0.787	1.280	2.854	4.134	6.220	2.087	0.531	1.280	UX0007/ M3x0.35x13D	D
0.591	UX4150	UX-d150-D-C20-H105-L158	0.787	1.280	2.854	4.134	6.220	2.087	0.531	1.358		D
0.630	UX4160	UX-d160-D-C20-H105-L158	0.787	1.280	2.854	4.134	6.220	2.087	0.531	1.457		D
0.669	UX5170	UX-d170-E-C20-H115-L170	0.787	1.516	3.012	4.528	6.693	2.165	0.630	1.555	UX0008/ M3x0.35x16E	E
0.709	UX5180	UX-d180-E-C20-H115-L170	0.787	1.516	3.012	4.528	6.693	2.165	0.630	1.634		E
0.748	UX5190	UX-d190-E-C20-H115-L170	0.787	1.516	3.012	4.528	6.693	2.165	0.630	1.732		E
0.787	UX6200	UX-d200-F-C25-H120-L175	0.984	1.713	3.012	4.724	6.890	2.165	0.701	1.811	UX0009/ M4x0.5x19F	F
0.827	UX6210	UX-d210-F-C25-H120-L175	0.984	1.713	3.012	4.724	6.890	2.165	0.701	1.909		F
0.866	UX6220	UX-d220-F-C25-H120-L175	0.984	1.713	3.012	4.724	6.890	2.165	0.701	1.988		F
0.906	UX7230	UX-d230-G-C25-H120-L175	0.984	1.890	2.835	4.724	6.890	2.165	0.787	2.087	UX0010/ M4x0.5x21G	G
0.945	UX7240	UX-d240-G-C25-H120-L175	0.984	1.890	2.835	4.724	6.890	2.165	0.787	2.185		G
0.984	UX7250	UX-d250-G-C25-H120-L175	0.984	1.890	2.835	4.724	6.890	2.165	0.787	2.264		G

(1) FL – Folding Length.

(2) RFC – Relief For Cutting.

(3) LTB (Length to bottom) parameter varies between **USPOT** and **UCHAMF** inserts.

(4) The achieved tolerance for the counterbore or spotface diameter ØD is ±0.1 mm (0.004").

(5) The insert series must match the series of the tool-holder.

NOTE Tool-holders and inserts are sold separately.

UX Tool-holder Spare Parts:

-  Hex L-Key - SP0105 0.050" 1 + 1/16 /1 + 9/16
-  Insert Clamping Screw - according to the table above.
-  Pin - UX0003

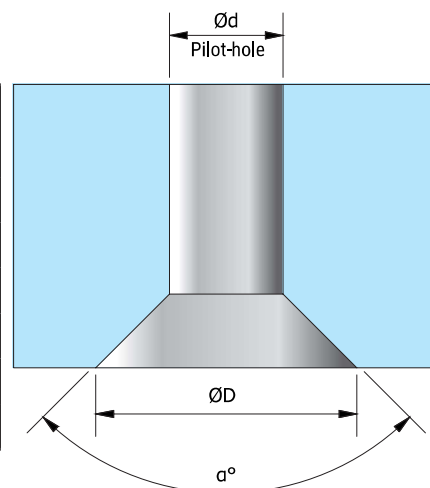
UBACK UCHAMF INSERT

SERIES AND RANGE

The **UBACK** line is divided into series or groups, with each series optimized for a specific pilot-hole range and determined by the type of insert family.

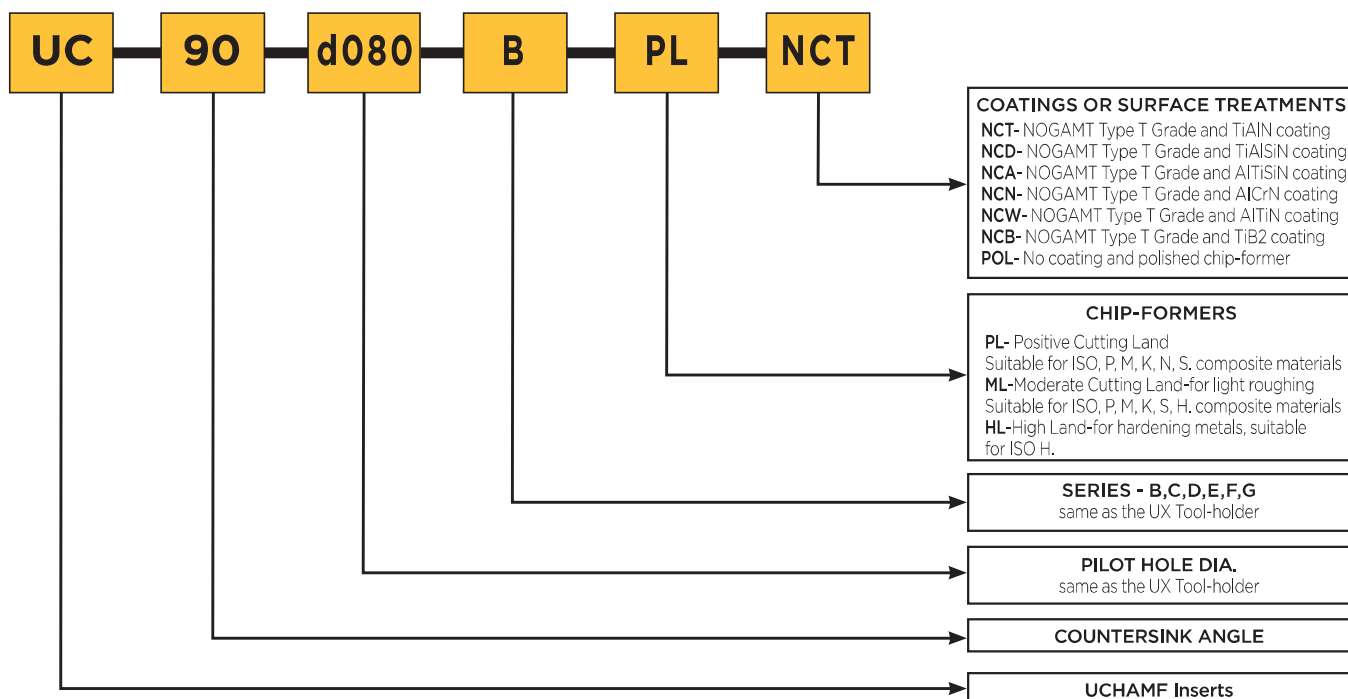
For **UCHAMF** inserts:

SERIES	Ød PILOT-HOLE RANGE mm / Inch	ØD COUNTERSINK RANGE for 82° mm / Inch	ØD COUNTERSINK RANGE for 90° mm / Inch
B	8.0-10.0 / 0.315-0.394	8.5-20.0 / 0.335 - 0.787	8.5-19.0 / 0.335 - 0.748
C	11.0-13.0 / 0.433-0.512	11.5-28.0 / 0.453-1.102	11.5-26.0 / 0.453-1.024
D	14.0-16.0 / 0.551-0.630	14.5-34.0 / 0.571-1.339	14.5-31.0 / 0.571-1.220
E	17.0-19.0 / 0.669-0.748	17.5-40.0 / 0.689-1.575	17.5-37.0 / 0.689-1.457
F	20.0-22.0 / 0.787-0.866	20.5-43.0 / 0.807-1.693	20.5-40.0 / 0.807-1.575
G	23.0-25.0 / 0.906-0.984	23.5-46.0 / 0.925-1.811	23.5-43.0 / 0.925-1.693



■ The **UCHAMF inserts** are offered as standard (82°, 90° countersink angles) or semi-standard solutions tailored to meet customer-specific applications. It is mandatory to match the tool-holder series with the corresponding insert series.

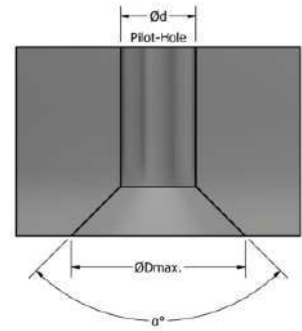
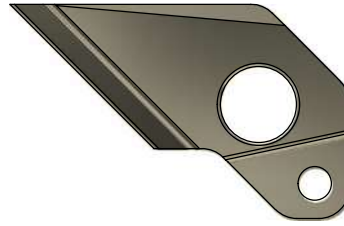
UCHAMF INSERTS CODING SYSTEM SPECIFICATIONS AND IDENTIFICATION:



NOTES:

1. Coating: Our top recommendation is the NCT grade, featuring the versatile TiAlN PVD coating. It offers excellent thermal stability, oxidation resistance and is compatible with a wide range of materials, including mild steels, stainless steel, and Inconel. For additional options, refer to the list of available coatings on page 37.

2. Tool-holders and inserts are sold separately.



UCHAMF 82° and 90° STANDARD INSERTS (mm/Inch)

Ødmin. PILOT HOLE mm /Inch	COUNTERSINK ANGLE $\alpha = 82^\circ$			COUNTERSINK ANGLE $\alpha = 90^\circ$			SERIES
	SKU	DESCRIPTION	Ø D MAX. mm /Inch	SKU	DESCRIPTION	Ø D MAX. mm /Inch	
8/0.315	UC2101	UC-82-d080-B-PL-NCT	18/0.709	UC2201	UC-90-d080-B-PL-NCT	17/0.669	B
9/0.354	UC2102	UC-82-d090-B-PL-NCT	19/0.748	UC2202	UC-90-d090-B-PL-NCT	18/0.709	
10/0.394	UC2103	UC-82-d100-B-PL-NCT	20/0.787	UC2203	UC-90-d100-B-PL-NCT	19/0.748	
11/0.433	UC3101	UC-82-d110-C-PL-NCT	26/1.024	UC3201	UC-90-d110-C-PL-NCT	24/0.945	C
12/0.472	UC3102	UC-82-d120-C-PL-NCT	27/1.063	UC3202	UC-90-d120-C-PL-NCT	25/0.948	
13/0.512	UC3103	UC-82-d130-C-PL-NCT	28/1.102	UC3203	UC-90-d130-C-PL-NCT	26/1.024	
14/0.551	UC4101	UC-82-d140-D-PL-NCT	31/1.220	UC4201	UC-90-d140-D-PL-NCT	28/1.102	D
15/0.591	UC4102	UC-82-d150-D-PL-NCT	32/1.260	UC4202	UC-90-d150-D-PL-NCT	29/1.142	
16/0.630	UC4103	UC-82-d160-D-PL-NCT	34/1.339	UC4203	UC-90-d160-D-PL-NCT	31/1.220	
17/0.669	UC5101	UC-82-d170-E-PL-NCT	37/1.457	UC5201	UC-90-d170-E-PL-NCT	34/1.339	E
18/0.709	UC5102	UC-82-d180-E-PL-NCT	38/1.496	UC5202	UC-90-d180-E-PL-NCT	35/1.378	
19/0.748	UC5103	UC-82-d190-E-PL-NCT	40/1.575	UC5203	UC-90-d190-E-PL-NCT	37/1.457	
20/0.787	UC6101	UC-82-d200-F-PL-NCT	41/1.614	UC6201	UC-90-d200-F-PL-NCT	38/1.496	F
21/0.827	UC6102	UC-82-d210-F-PL-NCT	42/1.654	UC6202	UC-90-d210-F-PL-NCT	39/1.535	
22/0.866	UC6103	UC-82-d220-F-PL-NCT	43/1.693	UC6203	UC-90-d220-F-PL-NCT	40/1.575	
23/0.906	UC7101	UC-82-d230-G-PL-NCT	44/1.732	UC7201	UC-90-d230-G-PL-NCT	41/1.614	G
24/0.945	UC7102	UC-82-d240-G-PL-NCT	45/1.772	UC7202	UC-90-d240-G-PL-NCT	42/1.654	
25/0.984	UC7103	UC-82-d250-G-PL-NCT	46/1.811	UC7203	UC-90-d250-G-PL-NCT	43/1.693	

UCHAMF - EXAMPLE FOR ORDERING SEMI-STANDARD INSERT:

Here is an example of coding a special **UCHAMF** insert for the application shown below:

1. **Ød** = 8.7mm (0.343").
2. **Countersink Angle** = 110°.
3. **Material:** AISI / EN AW / JIS - 7075.

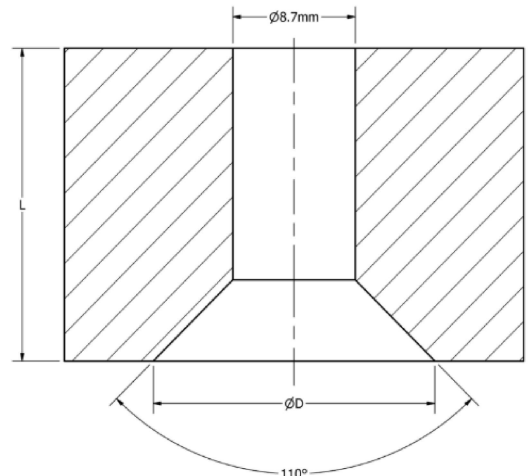
The recommended tool-holder is **UX2080 / UX-d080-B-C16-H62-L115** with **Ød_{min}** = 8mm (0.315").

The corresponding insert is **UC-110-d080-B-PL-NCT**.

IMPORTANT NOTES:

1. Ensure that the pilot-hole length (L) is less than or equal to the RFC (Relief For Cutting): $L \leq \text{RFC}$, as specified in the UBACK tool-holders table below.
2. Ensure that the countersink diameter **ØD** is less than or equal to the maximum allowable diameter: $\text{ØD} \leq \text{ØD}_{\text{max}}$, as specified in the UBACK tool-holders table pages 32-33.

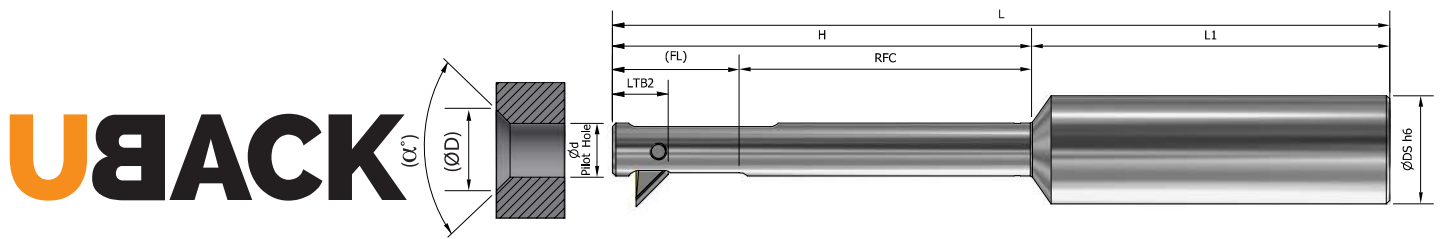
If you need further assistance, please don't hesitate to contact us:
Providing an application drawing or sketch, the raw material specifications,
and any other relevant information will help us assist you more effectively.





- (1) **FL** – Folding Length.
- (2) **RFC** – Relief For Cutting.
- (3) **LTB (Length to bottom)** parameter varies between **USPOT** and **UCHAMF** inserts.
- (4) The insert series must match the series of the tool-holder.

-  Hex L-Key - SP0105 0.050" 1 + 1 /16 /1 + 9/16
-  Insert Clamping Screw- according to the table above.
-  Pin - UX0003



STANDARD TOOL-HOLDERS WITH UCHAMF INSERTS (Inch)

Ød min. PILOT HOLE	SKU TOOL-HOLDER	DESCRIPTION TOOL-HOLDER	ØDS h6	FL ⁽¹⁾	RFC ⁽²⁾	H	L	L1	LTB2 ⁽³⁾ UCHAMF	INSERTING CLAMPING SCREW MxPxL (mm)	SERIES ⁽⁴⁾
0.315	UX2080	UX-d080-B-C16-H62-L115	0.630	0.669	1.693	2.441	4.528	2.087	0.325	UX0005/ M2.5x0.35x7B	B
0.354	UX2090	UX-d090-B-C16-H62-L115	0.630	0.701	1.693	2.441	4.528	2.087	0.325		B
0.394	UX2100	UX-d100-B-C16-H62-L115	0.630	0.740	1.693	2.441	4.528	2.087	0.325		B
0.433	UX3110	UX-d110-C-C16-H80-L133	0.630	1.063	2.047	3.150	5.236	2.087	0.535	UX0006/ M3x0.35x10C	C
0.472	UX3120	UX-d120-C-C16-H80-L133	0.630	1.075	2.047	3.150	5.236	2.087	0.535		C
0.512	UX3130	UX-d130-C-C16-H80-L133	0.630	1.102	2.047	3.150	5.236	2.087	0.535		C
0.551	UX4140	UX-d140-D-C20-H105-L158	0.787	1.280	2.854	4.134	6.220	2.087	0.602	UX0007/ M3x0.35x13D	D
0.591	UX4150	UX-d150-D-C20-H105-L158	0.787	1.280	2.854	4.134	6.220	2.087	0.602		D
0.630	UX4160	UX-d160-D-C20-H105-L158	0.787	1.280	2.854	4.134	6.220	2.087	0.602		D
0.669	UX5170	UX-d170-E-C20-H115-L170	0.787	1.516	3.012	4.528	6.693	2.165	0.709	UX0008/ M3x0.35x16E	E
0.709	UX5180	UX-d180-E-C20-H115-L170	0.787	1.516	3.012	4.528	6.693	2.165	0.709		E
0.748	UX5190	UX-d190-E-C20-H115-L170	0.787	1.516	3.012	4.528	6.693	2.165	0.709		E
0.787	UX6200	UX-d200-F-C25-H120-L175	0.984	1.713	3.012	4.724	6.890	2.165	0.787	UX0009/ M4x0.5x19F	F
0.827	UX6210	UX-d210-F-C25-H120-L175	0.984	1.713	3.012	4.724	6.890	2.165	0.787		F
0.866	UX6220	UX-d220-F-C25-H120-L175	0.984	1.713	3.012	4.724	6.890	2.165	0.787		F
0.906	UX7230	UX-d230-G-C25-H120-L175	0.984	1.890	2.835	4.724	6.890	2.165	0.866	UX0010/ M4x0.5x21G	G
0.945	UX7240	UX-d240-G-C25-H120-L175	0.984	1.890	2.835	4.724	6.890	2.165	0.866		G
0.984	UX7250	UX-d250-G-C25-H120-L175	0.984	1.890	2.835	4.724	6.890	2.165	0.866		G

(1) FL - Folding Length.

(2) RFC - Relief For Cutting.

(3) LTB (Length to bottom) parameter varies between **USPOT** and **UCHAMF** inserts.

(4) The insert series must match the series of the tool-holder.

NOTE Tool-holders and inserts are sold separately.

UX Tool-holder Spare Parts:

-  Hex L-Key - SP0105 0.050" 1 + 1/16 /1 + 9/16
-  Insert Clamping Screw- according to the table above.
-  Pin - UX0003