

Cutting Tools General Catalog

Vol.3



Icon Guide



Tungsten Carbide



Micro Grain Carbide



FCS Coating (TiAlN)



TiAlN Coating



118°



120°



135°



140°



X Thinning



Helix Angle 25°



Helix Angle 26°-32°



Helix Angle 30°



Helix Angle 30°-40°



Short Flute Length



Regular Flute Length



Semi Long Flute Length



Long Flute Length

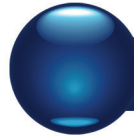


3mm Shank



Cutting Dia. = Shank Dia.

INDEX



Simplified Table



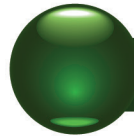
ATOM Micro Drills
(US Stock Items)

3mm Shank Drills

Straight Shank Drills

NC Pointing Drills

Sweep Cut Drills



Drilling Conditions

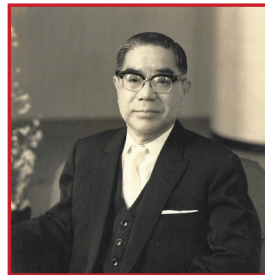


Data

ABOUT ATOM

Company Introduction

ATOM Precision of America, Inc. (ATOM) is a leading manufacturer of micro drills. Since its founding in 1934, ATOM has continuously developed high-quality micro drills, alongside advancements in the manufacturing industry. Today, ATOM has a global reputation as one of the world's most reliable brands, indispensable for use in a variety of industries, including medical, aerospace, automotive, electronics, and mold manufacturing.



Tomejiro Saito, Founder of ATOM

ATOM offers over 4,600 micro drills with a wide variety of diameters and flute lengths. Our extensive product line makes it possible to serve customers quickly. ATOM can provide micro drills with diameters starting from $\varnothing 0.0008"$ (0.02mm), with larger sizes available in 0.0001" (0.01mm) increments. With different flute lengths and drills with specialized coatings, ATOM has responded to the ever-changing needs of manufacturers in the micro-precision machining arena.

Mission Statement

ATOM strives to contribute to the society in which it operates through the philosophy of "Made in Japan" quality. For ATOM, this takes the form of utilizing micro-precision grinding technology in the development, manufacturing, and sales of high-quality micro drills and related services. ATOM is determined to grow by devoting all our energy to the advancement of manufacturing industries worldwide. Through continuous research and development, ATOM aims to provide its users with innovative micro-drilling solutions as well as the peace of mind that comes with knowing they are using quality ATOM micro drills in their machining processes.

"We value for all through creativity"

ATOM has pursued this core philosophy since its establishment in 1934. It is intended to guide the company's interactions not only with the customers and their experience in mind but also with the company's employees, their families, suppliers, distributors, and the community at large.





1934

- Began manufacturing and sales of hand hacksaw in Tokyo, Japan

1954

- Began manufacturing and sales of carbide bites

1955

- Began manufacturing and sales of carbide end mills, reamers, and custom cutting tools

1964

- Established Tokyo factory

1974

- Increased capital to 20 million yen

1976

- Began manufacturing and sales of standard straight shank drills

1978

- Established Kakuda factory in Miyagi, Japan

1982

- Increased capital to 40 million yen

1984

- Expanded Kakuda factory

1989

- First overseas subsidiary, ATOM Precision of America, Inc. opened in the USA
- Rebuilt Kakuda factory

1994

- Began manufacturing and sales of standard 3mm shank drills

2007

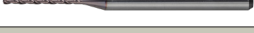
- Expanded Kakuda factory

2019

- Expanded Kakuda factory



New Kakuda factory in Miyagi, Japan

Application	Description	Model	Appearance	Diameter	Page	
3mm Shank Drills						
Micro Drill	Short Flute Length	ADRS		Ø0.1~ Ø3.0	p.30	
	Regular Flute Length	ADR		Ø0.02~ Ø3.0	p.34	
	Semi Long Flute Length	ADRS�		Ø0.03~ Ø3.0	p.38	
	Long Flute Length	ADRL		Ø0.03~ Ø3.0	p.40	
	"SV" Series, Short Flute Length 	ADRS-SV		Ø0.1~ Ø3.0	p.44	
	"SV" Series, Regular Flute Length 	ADR-SV		Ø0.03~ Ø3.0	p.48	
	"SV" Series, Semi Long Flute Length 	ADRS�-SV		Ø0.03~ Ø3.0	p.52	
	"SV" Series, Long Flute Length 	ADRL-SV		Ø0.03~ Ø3.0	p.54	
	For Hard-to-Cut Materials 	ADR-SUS		Ø0.1~ Ø3.0	p.58	
	For Hard-to-Cut Materials, Long Flute Length 	ADRL-SUS		Ø0.1~ Ø3.0	p.62	
Straight Shank Drills						
Straight Shank Drill	Regular Flute Length	ADS		Ø0.3~ Ø13	p.66	
	Semi Long Flute Length	ADSL		Ø0.3~ Ø13	p.70	
	Long Flute Length	ADL		Ø0.3~ Ø13	p.71	
	Extra Long Flute Length	ADLL		Ø0.3~ Ø13	p.72	
	Coated Regular Flute Length 	V-ADS		Ø0.3~ Ø6	p.73	
NC Pointing Drills						
Guide Hole Drill	For Ferrous Materials	ADPF30		Ø0.03~ Ø3.0	p.78	
	For Non-Ferrous Materials	ADPN30		Ø0.03~ Ø3.0	p.79	
Sweep Cut Drills						
Special Application	3mm Shank	ASWR		Ø0.1~ Ø3.0	p.80	
	Straight Shank	ASWD		Ø1.0~ Ø6.0	p.81	

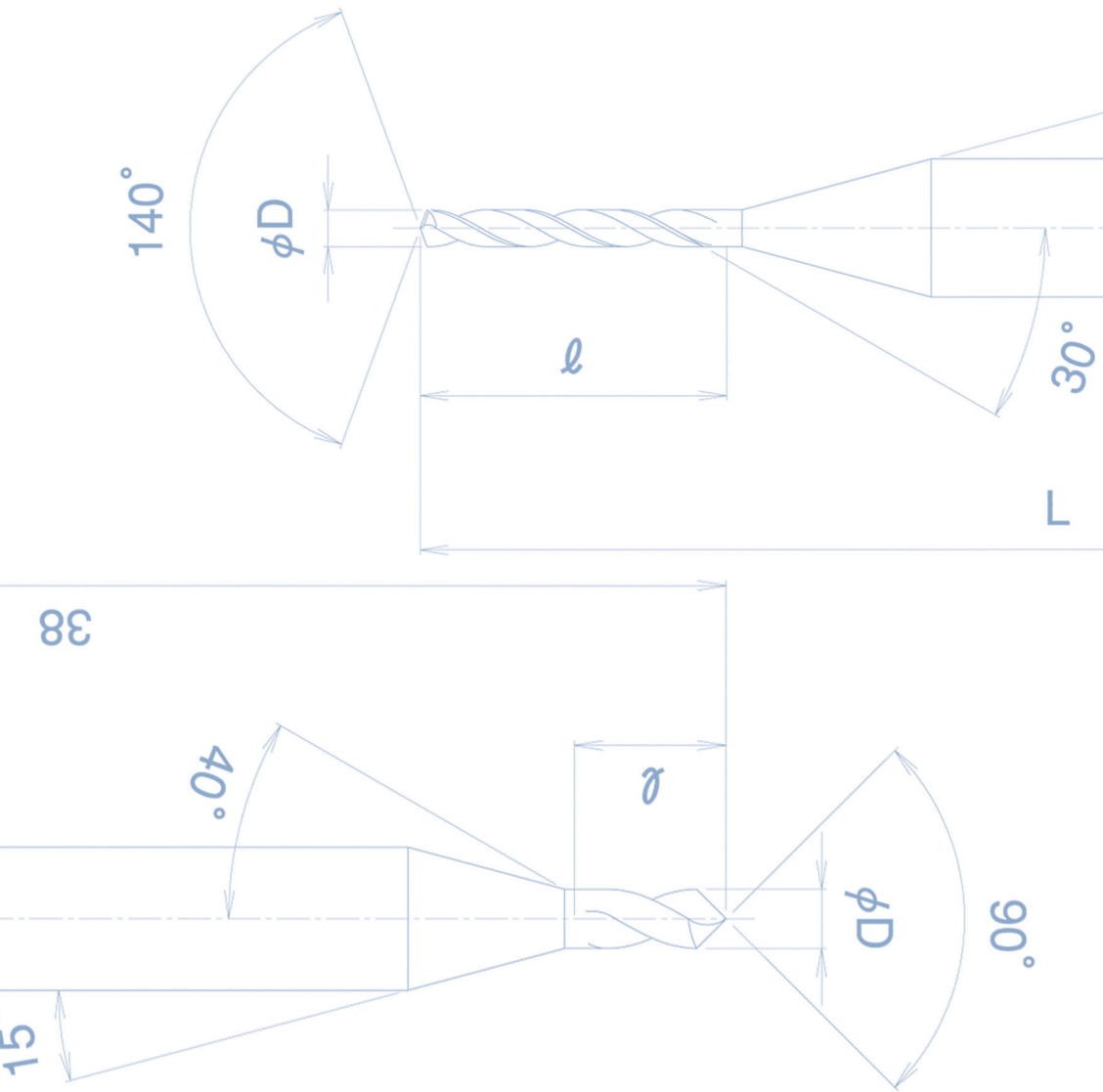
Unit: mm

	Steel			Stainless Steel			Cast Iron	Non Ferrous		Titanium Alloy	Nickel Alloy		Hardened Steel ~50 HRC	Resin Engineering Plastic
	Carbon Steel	Alloy Steel	Tool Steel 30~38 HRC	300SS	400SS	17-4PH		Aluminum Alloy	Copper Alloy		Inconel/Hasterty	Kovar		
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	⊙	⊙	⊙	⊙	○	⊙	⊙			⊙	○	○	⊙	
	⊙	⊙	⊙	⊙	○	⊙	⊙			⊙	○	○	⊙	
	⊙	⊙	⊙	⊙	○	⊙	⊙			⊙	○	○	⊙	
	⊙	⊙	⊙	⊙	○	⊙	⊙			⊙	○	○	⊙	
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								⊙	⊙					⊙
								⊙	⊙					⊙
								⊙	⊙					⊙

⊙ Best ○ Good △ Possible

INDEX

MEMO



Simplified Table

3mm & Straight Shank (★) Drills

Unit: mm

3mm & Straight Shank Drills

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADR	0.02	0.0008	0.2	38	34
ADR & ADR-SV			0.3		34 & 48
ADRS & ADRSL-SV	0.03	0.0012	0.5	38	38 & 52
ADRL & ADRL-SV			0.6		40 & 54
ADR & ADR-SV			0.4		34 & 48
ADRS & ADRSL-SV	0.04	0.0016	0.6	38	38 & 52
ADRL & ADRL-SV			0.8		40 & 54
ADR & ADR-SV			0.5		34 & 48
ADRS & ADRSL-SV	0.05	0.0020	0.8	38	38 & 52
ADRL & ADRL-SV			1.1		40 & 54
ADR & ADR-SV			0.6		34 & 48
ADRS & ADRSL-SV	0.06	0.0024	0.8	38	38 & 52
ADRL & ADRL-SV			1.2		40 & 54
ADR & ADR-SV			0.7		34 & 48
ADRS & ADRSL-SV	0.07	0.0028	1.1	38	38 & 52
ADRL & ADRL-SV			1.4		40 & 54
ADR & ADR-SV			0.8		34 & 48
ADRS & ADRSL-SV	0.08	0.0031	1.2	38	38 & 52
ADRL & ADRL-SV			1.6		40 & 54
ADR & ADR-SV			0.9		34 & 48
ADRS & ADRSL-SV	0.09	0.0035	1.2	38	38 & 52
ADRL & ADRL-SV			1.8		40 & 54
ADRS & ADRS-SV			0.6		30 & 44
ADR & ADR-SV			1.2		34 & 48
ADRS & ADRSL-SV			1.9		38 & 52
ADRL & ADRL-SV	0.10	0.0039	2.5	38	40 & 54
ADR-SUS			1		58
ADRL-SUS			1.5		62
ASWR			1.2		80
ADRS & ADRS-SV			0.6		30 & 44
ADR & ADR-SV			1.2		34 & 48
ADRS & ADRSL-SV			1.9		38 & 52
ADRL & ADRL-SV	0.11	0.0043	2.5	38	40 & 54
ADR-SUS			1.1		58
ADRL-SUS			1.7		62
ASWR			1.2		80
ADRS & ADRS-SV			0.6		30 & 44
ADR & ADR-SV			1.4		34 & 48
ADRS & ADRSL-SV			2.2		38 & 52
ADRL & ADRL-SV	0.12	0.0047	3	38	40 & 54
ADR-SUS			1.2		58
ADRL-SUS			1.8		62
ASWR			1.4		80
ADRS & ADRS-SV			0.6		30 & 44
ADR & ADR-SV			1.4		34 & 48
ADRS & ADRSL-SV			2.2		38 & 52
ADRL & ADRL-SV	0.13	0.0051	3	38	40 & 54
ADR-SUS			1.3		58

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRL-SUS	0.13	0.0051	2		62
ASWR			1.4	38	80
ADRS & ADRS-SV			0.6		30 & 44
ADR & ADR-SV			1.4		34 & 48
ADRS & ADRSL-SV			2.2		38 & 52
ADRL & ADRL-SV	0.14	0.0055	3	38	40 & 54
ADR-SUS			1.4		58
ADRL-SUS			2		62
ASWR			1.4		80
ADRS & ADRS-SV			0.8		30 & 44
ADR & ADR-SV			1.8		34 & 48
ADRS & ADRSL-SV			2.9		38 & 52
ADRL & ADRL-SV	0.15	0.0059	4	38	40 & 54
ADR-SUS			1.5		58
ADRL-SUS			2.3		62
ASWR			1.8		80
ADRS & ADRS-SV			0.8		30 & 44
ADR & ADR-SV			1.8		34 & 48
ADRS & ADRSL-SV			2.9		38 & 52
ADRL & ADRL-SV	0.16	0.0063	4	38	40 & 54
ADR-SUS			1.5		58
ADRL-SUS			2.3		62
ASWR			1.8		80
ADRS & ADRS-SV			0.8		30 & 44
ADR & ADR-SV			1.8		34 & 48
ADRS & ADRSL-SV			3.2		38 & 52
ADRL & ADRL-SV	0.17	0.0067	4.5	38	40 & 54
ADR-SUS			1.5		58
ADRL-SUS			2.3		62
ASWR			1.8		80
ADRS & ADRS-SV			1		30 & 44
ADR & ADR-SV			2.1		34 & 48
ADRS & ADRSL-SV			3.3		38 & 52
ADRL & ADRL-SV	0.18	0.0071	4.5	38	40 & 54
ADR-SUS			1.8		58
ADRL-SUS			2.7		62
ASWR			2.1		80
ADRS & ADRS-SV			1		30 & 44
ADR & ADR-SV			2.1		34 & 48
ADRS & ADRSL-SV			3.3		38 & 52
ADRL & ADRL-SV	0.19	0.0075	4.5	38	40 & 54
ADR-SUS			1.8		58
ADRL-SUS			2.7		62
ASWR			2.1		80
ADRS & ADRS-SV			1		30 & 44
ADR & ADR-SV			2.4		34 & 48
ADRS & ADRSL-SV			4	38	38 & 52
ADRL & ADRL-SV	0.20	0.0079	6		40 & 54

Unit: mm

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADR-SUS	0.20	0.0079	2	38	58
ADRL-SUS			3		62
ASWR			2.4		80
ADRS & ADRS-SV	0.21	0.0083	1	38	30 & 44
ADR & ADR-SV			2.4		34 & 48
ADRSL & ADRSL-SV			4		38 & 52
ADRL & ADRL-SV			6		40 & 54
ADR-SUS			2		58
ADRL-SUS			3		62
ASWR			2.4		80
ADRS & ADRS-SV	0.22	0.0087	1.2	38	30 & 44
ADR & ADR-SV			2.6		34 & 48
ADRSL & ADRSL-SV			4.3		38 & 52
ADRL & ADRL-SV			6		40 & 54
ADR-SUS			2		58
ADRL-SUS			3		62
ASWR			2.6		80
ADRS & ADRS-SV	0.23	0.0091	1.2	38	30 & 44
ADR & ADR-SV			2.6		34 & 48
ADRSL & ADRSL-SV			4.3		38 & 52
ADRL & ADRL-SV			6		40 & 54
ADR-SUS			2.3		58
ADRL-SUS			3.5		62
ASWR			2.6		80
ADRS & ADRS-SV	0.24	0.0094	1.2	38	30 & 44
ADR & ADR-SV			2.6		34 & 48
ADRSL & ADRSL-SV			4.3		38 & 52
ADRL & ADRL-SV			6		40 & 54
ADR-SUS			2.3		58
ADRL-SUS			3.5		62
ASWR			2.6		80
ADRS & ADRS-SV	0.25	0.0098	1.5	38	30 & 44
ADR & ADR-SV			3		34 & 48
ADRSL & ADRSL-SV			5		38 & 52
ADRL & ADRL-SV			7		40 & 54
ADR-SUS			2.5		58
ADRL-SUS			3.8		62
ASWR			3		80
ADRS & ADRS-SV	0.26	0.0102	1.5	38	30 & 44
ADR & ADR-SV			3		34 & 48
ADRSL & ADRSL-SV			5		38 & 52
ADRL & ADRL-SV			7		40 & 54
ADR-SUS			2.5		58
ADRL-SUS			3.8		62
ASWR			3		80
ADRS & ADRS-SV	0.27	0.0106	1.5	38	30 & 44
ADR & ADR-SV			3.3		34 & 48
ADRSL & ADRSL-SV			5.2		38 & 52
ADRL & ADRL-SV			7		40 & 54
ADR-SUS			2.8		58
ADRL-SUS	0.28	0.0110	4.2	38	62
ASWR			3.3		80
ADRS & ADRS-SV			1.5		30 & 44
ADR & ADR-SV			3.3		34 & 48
ADRSL & ADRSL-SV			5.2		38 & 52
ADRL & ADRL-SV	0.29	0.0114	7	38	40 & 54
ADR-SUS			2.8		58
ADRL-SUS			4.2		62
ASWR			3.3		80
ADRS & ADRS-SV	0.30	0.0118	2.5	38	30 & 44
ADR & ADR-SV			5		34 & 48
ADRSL & ADRSL-SV			7		38 & 52
ADRL & ADRL-SV			9		40 & 54
ADR-SUS			3		58
ADRL-SUS			4.5		62
ASWR			5		80
ADS & V-ADS★			4	30	66 & 73
ADSL★			8	40	70
ADL★			10	60	71
ADLL★			15	75	72
ADRS & ADRS-SV	0.31	0.0122	2.5	38	30 & 44
ADR & ADR-SV			5		34 & 48
ADRSL & ADRSL-SV			7		38 & 52
ADRL & ADRL-SV			9	45	40 & 54
ADR-SUS			3	38	58
ADRL-SUS			4.5		62
ADS & V-ADS★	0.31-0.34	0.0122-0.0134	4	30	66 & 73
ADRS & ADRS-SV	0.32	0.0126	2.5	38	30 & 44
ADR & ADR-SV			5		34 & 48
ADRSL & ADRSL-SV			7		38 & 52
ADRL & ADRL-SV			9	45	40 & 54
ADR-SUS			3	38	58
ADRL-SUS			4.5		62
ADRS & ADRS-SV	0.33	0.0130	2.5	38	30 & 44
ADR & ADR-SV			5		34 & 48
ADRSL & ADRSL-SV			7		38 & 52
ADRL & ADRL-SV			9	45	40 & 54
ADR-SUS			3.3	38	58
ADRL-SUS			5		62

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRL & ADRL-SV	0.27	0.0106	7	38	40 & 54
ADR-SUS			2.5		58
ADRL-SUS			3.8		62
ASWR	0.28	0.0110	3	38	80
ADRS & ADRS-SV			1.5		30 & 44
ADR & ADR-SV			3.3		34 & 48
ADRSL & ADRSL-SV			5.2		38 & 52
ADRL & ADRL-SV			7		40 & 54
ADR-SUS	0.29	0.0114	2.8	38	58
ADRL-SUS			4.2		62
ASWR			3.3		80
ADRS & ADRS-SV			1.5		30 & 44
ADR & ADR-SV			3.3		34 & 48
ADRSL & ADRSL-SV	0.30	0.0118	5.2	38	38 & 52
ADRL & ADRL-SV			7		40 & 54
ADR-SUS			2.8		58
ADRL-SUS			4.2		62
ASWR			3.3		80
ADRS & ADRS-SV	0.31	0.0122	2.5	38	30 & 44
ADR & ADR-SV			5		34 & 48
ADRSL & ADRSL-SV			7		38 & 52
ADRL & ADRL-SV			9		40 & 54
ADR-SUS			3		58
ADRL-SUS			4.5		62
ASWR			5		80
ADS & V-ADS★			4	30	66 & 73
ADSL★			8	40	70
ADL★			10	60	71
ADLL★			15	75	72
ADRS & ADRS-SV	0.32	0.0126	2.5	38	30 & 44
ADR & ADR-SV			5		34 & 48
ADRSL & ADRSL-SV			7		38 & 52
ADRL & ADRL-SV			9	45	40 & 54
ADR-SUS			3	38	58
ADRL-SUS			4.5		62
ADRS & ADRS-SV	0.33	0.0130	2.5	38	30 & 44
ADR & ADR-SV			5		34 & 48
ADRSL & ADRSL-SV			7		38 & 52
ADRL & ADRL-SV			9	45	40 & 54
ADR-SUS			3.3	38	58
ADRL-SUS			5		62

3mm & Straight Shank Drills

3mm & Straight Shank (★) Drills

Unit: mm

3mm & Straight Shank Drills

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRS & ADRS-SV	0.34	0.0134	2.5		30 & 44
ADR & ADR-SV			5	38	34 & 48
ADRSℓ & ADRSℓ-SV			7		38 & 52
ADRL & ADRL-SV			9	45	40 & 54
ADR-SUS			3.3		58
ADRL-SUS	0.35	0.0138	5	38	62
ADRS & ADRS-SV			2.5		30 & 44
ADR & ADR-SV			5	38	34 & 48
ADRSℓ & ADRSℓ-SV			7		38 & 52
ADRL & ADRL-SV			10	45	40 & 54
ADR-SUS			3.5		58
ADRL-SUS			5.3	38	62
ASWR			5		80
ADS & V-ADS ★			4	30	66 & 73
ADSL ★			8	40	70
ADL ★			10	60	71
ADLL ★			15	75	72
ADRS & ADRS-SV			2.5		30 & 44
ADR & ADR-SV			5	38	34 & 48
ADRSℓ & ADRSℓ-SV			7		38 & 52
ADRL & ADRL-SV			10	45	40 & 54
ADR-SUS	0.36	0.0142	3.5		58
ADRL-SUS			5.3	38	62
ADS & V-ADS ★			0.36~0.39	0.0142~0.0154	4
ADRS & ADRS-SV			2.5		30 & 44
ADR & ADR-SV			5	38	34 & 48
ADRSℓ & ADRSℓ-SV	0.37	0.0146	7		38 & 52
ADRL & ADRL-SV			10	45	40 & 54
ADR-SUS			3.5		58
ADRL-SUS			5.3	38	62
ADRS & ADRS-SV			2.5		30 & 44
ADR & ADR-SV			5	38	34 & 48
ADRSℓ & ADRSℓ-SV			7		38 & 52
ADRL & ADRL-SV			10	45	40 & 54
ADR-SUS	0.38	0.0150	3.8		58
ADRL-SUS			5.7	38	62
ADRS & ADRS-SV			2.5		30 & 44
ADR & ADR-SV			5	38	34 & 48
ADRSℓ & ADRSℓ-SV			7		38 & 52
ADRL & ADRL-SV	0.39	0.0154	10	45	40 & 54
ADR-SUS			3.8		58
ADRL-SUS			5.7	38	62
ADRS & ADRS-SV			2.5		30 & 44
ADR & ADR-SV			5	38	34 & 48
ADRSℓ & ADRSℓ-SV	0.40	0.0157	7		38 & 52
ADRL & ADRL-SV			12	45	40 & 54
ADR-SUS			4		58
ADRL-SUS			6	38	62

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ASWR	0.40	0.0157	6	38	80
ADS & V-ADS ★			5	30	66 & 73
ADSL ★			8	40	70
ADL ★			10	60	71
ADLL ★			15	75	72
ADRS & ADRS-SV	0.41	0.0161	3		30 & 44
ADR & ADR-SV			6	38	34 & 48
ADRSℓ & ADRSℓ-SV			9		38 & 52
ADRL & ADRL-SV			12	45	40 & 54
ADR-SUS			4		58
ADRL-SUS	0.41~0.44	0.0161~0.0173	6	38	62
ADS & V-ADS ★			5	30	66 & 73
ADRS & ADRS-SV			3		30 & 44
ADR & ADR-SV			6	38	34 & 48
ADRSℓ & ADRSℓ-SV			9		38 & 52
ADRL & ADRL-SV	0.42	0.0165	12	45	40 & 54
ADR-SUS			4		58
ADRL-SUS			6	38	62
ADRS & ADRS-SV			3		30 & 44
ADR & ADR-SV			6	38	34 & 48
ADRSℓ & ADRSℓ-SV	0.43	0.0169	9		38 & 52
ADRL & ADRL-SV			12	45	40 & 54
ADR-SUS			4		58
ADRL-SUS			6	38	62
ADRS & ADRS-SV			3		30 & 44
ADR & ADR-SV	0.44	0.0173	6	38	34 & 48
ADRSℓ & ADRSℓ-SV			9		38 & 52
ADRL & ADRL-SV			12	45	40 & 54
ADR-SUS			4		58
ADRL-SUS			6	38	62
ADRS & ADRS-SV	0.45	0.0177	3		30 & 44
ADR & ADR-SV			6	38	34 & 48
ADRSℓ & ADRSℓ-SV			9		38 & 52
ADRL & ADRL-SV			12	45	40 & 54
ADR-SUS			4.5		58
ADRL-SUS	0.46	0.0181	7	38	62
ASWR			6		80
ADS & V-ADS ★			5	30	66 & 73
ADSL ★			8	40	70
ADL ★			10	60	71
ADLL ★	0.46~0.49	0.0181~0.0193	15	75	72
ADRS & ADRS-SV			3		30 & 44
ADR & ADR-SV			6	38	34 & 48
ADRSℓ & ADRSℓ-SV			9		38 & 52
ADRL & ADRL-SV			12	45	40 & 54
ADR-SUS	0.46~0.49	0.0181~0.0193	4.5		58
ADRL-SUS			7	38	62
ADS & V-ADS ★			5	30	66 & 73

Unit: mm

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRS & ADRS-SV	0.47	0.0185	3		30 & 44
ADR & ADR-SV			6	38	34 & 48
ADRSL & ADRSL-SV			9		38 & 52
ADRL & ADRL-SV			12	45	40 & 54
ADR-SUS			4.5	38	58
ADRL-SUS			7		62
ADRS & ADRS-SV	0.48	0.0189	3		30 & 44
ADR & ADR-SV			6	38	34 & 48
ADRSL & ADRSL-SV			9		38 & 52
ADRL & ADRL-SV			12	45	40 & 54
ADR-SUS			4.5	38	58
ADRL-SUS			7		62
ADRS & ADRS-SV	0.49	0.0193	3		30 & 44
ADR & ADR-SV			6	38	34 & 48
ADRSL & ADRSL-SV			9		38 & 52
ADRL & ADRL-SV			12	45	40 & 54
ADR-SUS			4.5	38	58
ADRL-SUS			7		62
ADRS & ADRS-SV	0.50	0.0197	3		30 & 44
ADR & ADR-SV			6	38	34 & 48
ADRSL & ADRSL-SV			9		38 & 52
ADRL & ADRL-SV			12	45	40 & 54
ADR-SUS			5		58
ADRL-SUS			7.5	38	62
ASWR			6		80
ADS & V-ADS ★			6	30	66 & 73
ADSL ★			8	40	70
ADL ★			10	60	71
ADLL ★			15	75	72
ADRS & ADRS-SV	0.51	0.0201	3		30 & 44
ADR & ADR-SV			6	38	34 & 48
ADRSL & ADRSL-SV			9		38 & 52
ADRL & ADRL-SV			12	45	40 & 54
ADR-SUS			5	38	58
ADRL-SUS			7.5		62
ADS & V-ADS ★	0.51~0.54	0.0201~0.0213	6	30	66 & 73
ADRS & ADRS-SV	0.52	0.0205	3		30 & 44
ADR & ADR-SV			6	38	34 & 48
ADRSL & ADRSL-SV			9		38 & 52
ADRL & ADRL-SV			12	45	40 & 54
ADR-SUS			5	38	58
ADRL-SUS			7.5		62
ADRS & ADRS-SV	0.53	0.0209	3		30 & 44
ADR & ADR-SV			6	38	34 & 48
ADRSL & ADRSL-SV			9		38 & 52
ADRL & ADRL-SV			12	45	40 & 54
ADR-SUS			5	38	58
ADRL-SUS			7.5		62

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRS & ADRS-SV	0.54	0.0213	3		30 & 44
ADR & ADR-SV			6	38	34 & 48
ADRSL & ADRSL-SV			9		38 & 52
ADRL & ADRL-SV			12	45	40 & 54
ADR-SUS			5	38	58
ADRL-SUS			7.5		62
ADRS & ADRS-SV	0.55	0.0217	3		30 & 44
ADR & ADR-SV			6	38	34 & 48
ADRSL & ADRSL-SV			9		38 & 52
ADRL & ADRL-SV			12	45	40 & 54
ADR-SUS			5.5		58
ADRL-SUS			8.5	38	62
ASWR			6		80
ADS & V-ADS ★			6	30	66 & 73
ADSL ★			8	40	70
ADL ★			15	65	71
ADLL ★			20	90	72
ADRS & ADRS-SV	0.56	0.0220	3		30 & 44
ADR & ADR-SV			6	38	34 & 48
ADRSL & ADRSL-SV			9		38 & 52
ADRL & ADRL-SV			12	45	40 & 54
ADR-SUS			5.5	38	58
ADRL-SUS			8.5		62
ADS & V-ADS ★	0.56~0.59	0.0220~0.0232	6	30	66 & 73
ADRS & ADRS-SV	0.57	0.0224	3		30 & 44
ADR & ADR-SV			6	38	34 & 48
ADRSL & ADRSL-SV			9		38 & 52
ADRL & ADRL-SV			12	45	40 & 54
ADR-SUS			5.5	38	58
ADRL-SUS			8.5		62
ADRS & ADRS-SV	0.58	0.0228	3		30 & 44
ADR & ADR-SV			6	38	34 & 48
ADRSL & ADRSL-SV			9		38 & 52
ADRL & ADRL-SV			12	45	40 & 54
ADR-SUS			5.5	38	58
ADRL-SUS			8.5		62
ADRS & ADRS-SV	0.59	0.0232	3		30 & 44
ADR & ADR-SV			6	38	34 & 48
ADRSL & ADRSL-SV			9		38 & 52
ADRL & ADRL-SV			12	45	40 & 54
ADR-SUS			5.5	38	58
ADRL-SUS			8.5		62
ADRS & ADRS-SV	0.60	0.0236	3		30 & 44
ADR & ADR-SV			7	38	34 & 48
ADRSL & ADRSL-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			6	38	58
ADRL-SUS			9		62

3mm & Straight Shank (★) Drills

Unit: mm

3mm & Straight Shank Drills

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ASWR	0.60	0.0236	7	38	80
ADS & V-ADS ★			6	30	66 & 73
ADSL ★			8	40	70
ADL ★			15	65	71
ADLL ★			20	90	72
ADRS & ADRS-SV	0.61	0.0240	3		30 & 44
ADR & ADR-SV			7	38	34 & 48
ADRSℓ & ADRSℓ-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			6		58
ADRL-SUS			9	38	62
ADS & V-ADS ★	0.61~0.64	0.0240~0.0252	6	30	66 & 73
ADRS & ADRS-SV	0.62	0.0244	3		30 & 44
ADR & ADR-SV			7	38	34 & 48
ADRSℓ & ADRSℓ-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			6		58
ADRL-SUS			9	38	62
ADRS & ADRS-SV	0.63	0.0248	3		30 & 44
ADR & ADR-SV			7	38	34 & 48
ADRSℓ & ADRSℓ-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			6		58
ADRL-SUS			9	38	62
ADRS & ADRS-SV	0.64	0.0252	3		30 & 44
ADR & ADR-SV			7	38	34 & 48
ADRSℓ & ADRSℓ-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			6		58
ADRL-SV			9	38	62
ADRS & ADRS-SV	0.65	0.0256	3		30 & 44
ADR & ADR-SV			7	38	34 & 48
ADRSℓ & ADRSℓ-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			6.5		58
ADRL-SUS			10	38	62
ASWR	0.66~0.69	0.0260~0.0272	7		80
ADS & V-ADS ★			6	30	66 & 73
ADSL ★			8	40	70
ADL ★			15	65	71
ADLL ★			20	90	72
ADRS & ADRS-SV			3		30 & 44
ADR & ADR-SV	0.66	0.0260	7	38	34 & 48
ADRSℓ & ADRSℓ-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			6.5		58
ADRL-SUS			10	38	62
ADS & V-ADS ★			6	30	66 & 73

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRS & ADRS-SV	0.67	0.0264	3		30 & 44
ADR & ADR-SV			7	38	34 & 48
ADRSℓ & ADRSℓ-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			6.5		58
ADRL-SUS	0.68	0.0268	10	38	62
ADRS & ADRS-SV			3		30 & 44
ADR & ADR-SV			7	38	34 & 48
ADRSℓ & ADRSℓ-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			6.5		58
ADRL-SUS			10	38	62
ADRS & ADRS-SV	0.69	0.0272	3		30 & 44
ADR & ADR-SV			7	38	34 & 48
ADRSℓ & ADRSℓ-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			6.5		58
ADRL-SUS			10	38	62
ADRS & ADRS-SV	0.70	0.0276	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRSℓ & ADRSℓ-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			7		58
ADRL-SUS			10.5	38	62
ASWR			8		80
ADS & V-ADS ★			12	40	66 & 73
ADSL ★			15	50	70
ADL ★			15	65	71
ADLL ★			20	90	72
ADRS & ADRS-SV	0.71	0.0280	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRSℓ & ADRSℓ-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			7		58
ADRL-SUS			10.5	38	62
ADS & V-ADS ★	0.71~0.74	0.0280~0.0291	12	40	66 & 73
ADRS & ADRS-SV	0.72	0.0283	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRSℓ & ADRSℓ-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			7		58
ADRL-SUS			10.5	38	62
ADRS & ADRS-SV	0.73	0.0287	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRSℓ & ADRSℓ-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			7		58
ADRL-SUS			10.5	38	62

Unit: mm

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRS & ADRS-SV	0.74	0.0291	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRS & ADRS-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			7		58
ADRL-SUS	0.75	0.0295	10.5	38	62
ADRS & ADRS-SV			4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRS & ADRS-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			7.5		58
ADRL-SUS			11.5	38	62
ASWR			8		80
ADS & V-ADS ★			12	40	66 & 73
ADSL ★			15	50	70
ADL ★			15	65	71
ADLL ★			20	90	72
ADRS & ADRS-SV	0.76	0.0299	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRS & ADRS-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			7.5		58
ADRL-SUS	0.76-0.79	0.0299-0.0311	11.5	38	62
ADS & V-ADS ★			12	40	66 & 73
ADRS & ADRS-SV	0.77	0.0303	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRS & ADRS-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			7.5		58
ADRL-SUS	0.78	0.0307	11.5	38	62
ADRS & ADRS-SV			4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRS & ADRS-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			7.5		58
ADRL-SUS			11.5	38	62
ADRS & ADRS-SV			4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRS & ADRS-SV			11		38 & 52
ADRL & ADRL-SV	0.79	0.0311	15	45	40 & 54
ADR-SUS			7.5		58
ADRL-SUS			11.5	38	62
ADRS & ADRS-SV	0.80	0.0315	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRS & ADRS-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			8	38	58
ADRL-SUS			12.5	45	62

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ASWR	0.80	0.0315	8	38	80
ADS & V-ADS ★			12	40	66 & 73
ADSL ★			15	50	70
ADL ★			20	75	71
ADLL ★			25	100	72
ADRS & ADRS-SV	0.81	0.0319	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRS & ADRS-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			8	38	58
ADRL-SUS	0.81-0.84	0.0319-0.0331	12.5	45	62
ADS & V-ADS ★			12	40	66 & 73
ADRS & ADRS-SV	0.82	0.0323	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRS & ADRS-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			8	38	58
ADRL-SUS	0.83	0.0327	12.5	45	62
ADRS & ADRS-SV			4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRS & ADRS-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS	0.84	0.0331	8	38	58
ADRL-SUS			12.5	45	62
ADRS & ADRS-SV			4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRS & ADRS-SV			11		38 & 52
ADRL & ADRL-SV	0.85	0.0335	15	45	40 & 54
ADR-SUS			8	38	58
ADRL-SUS			12.5	45	62
ADRS & ADRS-SV			4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRS & ADRS-SV	0.86	0.0339	11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			8	38	58
ADRL-SUS			12.5	45	62
ADS & V-ADS ★			12	40	66 & 73

3mm & Straight Shank (★) Drills

Unit: mm

3mm & Straight Shank Drills

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRS & ADRS-SV	0.87	0.0343	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRSL & ADRSL-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			8	38	58
ADRL-SUS			12.5	45	62
ADRS & ADRS-SV	0.88	0.0346	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRSL & ADRSL-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			8	38	58
ADRL-SUS			12.5	45	62
ADRS & ADRS-SV	0.89	0.0350	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRSL & ADRSL-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			8	38	58
ADRL-SUS			12.5	45	62
ADRS & ADRS-SV	0.90	0.0354	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRSL & ADRSL-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			9	38	58
ADRL-SUS			14	45	62
ASWR			8	38	80
ADS & V-ADS★			12	40	66 & 73
ADSL★			15	50	70
ADL★			20	75	71
ADLL★			25	100	72
ADRS & ADRS-SV			4		30 & 44
ADR & ADR-SV	0.91	0.0358	8	38	34 & 48
ADRSL & ADRSL-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			9	38	58
ADRL-SUS			14	45	62
ADS & V-ADS★			12	40	66 & 73
ADRS & ADRS-SV	0.92	0.0362	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRSL & ADRSL-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			9	38	58
ADRL-SUS			14	45	62
ADRS & ADRS-SV	0.93	0.0366	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRSL & ADRSL-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			9	38	58
ADRL-SUS			14	45	62

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRS & ADRS-SV	0.94	0.0370	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRSL & ADRSL-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			9	38	58
ADRL-SUS			14	45	62
ADRS & ADRS-SV	0.95	0.0374	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRSL & ADRSL-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			9	38	58
ADRL-SUS			14	45	62
ASWR			8	38	80
ADS & V-ADS★			12	40	66 & 73
ADSL★			15	50	70
ADL★			20	75	71
ADLL★			25	100	72
ADRS & ADRS-SV			4		30 & 44
ADR & ADR-SV	0.96	0.0378	8	38	34 & 48
ADRSL & ADRSL-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			9	38	58
ADRL-SUS			14	45	62
ADS & V-ADS★			12	40	66 & 73
ADRS & ADRS-SV	0.97	0.0382	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRSL & ADRSL-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			9	38	58
ADRL-SUS			14	45	62
ADRS & ADRS-SV	0.98	0.0386	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRSL & ADRSL-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			9	38	58
ADRL-SUS			14	45	62
ADRS & ADRS-SV	0.99	0.0390	4		30 & 44
ADR & ADR-SV			8	38	34 & 48
ADRSL & ADRSL-SV			11		38 & 52
ADRL & ADRL-SV			15	45	40 & 54
ADR-SUS			9	38	58
ADRL-SUS			14	45	62
ADRS & ADRS-SV	1.00	0.0394	5	38	30 & 44
ADR & ADR-SV			10		34 & 48
ADRSL & ADRSL-SV			15	45	38 & 52
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			15	45	62

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ASWR	1.00	0.0394	10	38	80
ADS & V-ADS ★			15	40	66 & 73
ADSL ★			16	50	70
ADL ★			25	75	71
ADLL ★			30	100	72
ASWD ★	1.01	0.0398	16	50	81
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS			10	38	58
ADRL-SUS	1.01~1.04	0.0398~0.0409	15	45	62
ADS & V-ADS ★			15	40	66 & 73
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS	1.02	0.0402	10	38	58
ADRL-SUS			15	45	62
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS	1.03	0.0406	10	38	58
ADRL-SUS			15	45	62
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS	1.04	0.0409	10	38	58
ADRL-SUS			15	45	62
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS	1.05	0.0413	10	38	58
ADRL-SUS			15	45	62
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS	1.06	0.0417	10	38	58
ADRL-SUS			15	45	62
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS	1.07	0.0421	10	38	58
ADRL-SUS			15	45	62
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRS & ADRS-SV	1.08	0.0425	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			15	45	62
ADRS & ADRS-SV	1.09	0.0429	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			15	45	62
ADRS & ADRS-SV	1.10	0.0433	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			15	45	38 & 52
ADR-SUS			20	50	40 & 54
ADRL-SUS			10	38	58
ASWR	1.11	0.0437	15	45	62
ADS & V-ADS ★			10	38	80
ADSL ★			15	40	66 & 73
ADL ★			16	50	70
ADLL ★			25	75	71
ASWD ★	1.12	0.0441	30	100	72
ADRS & ADRS-SV			16	50	81
ADR & ADR-SV			5	38	30 & 44
ADRL & ADRL-SV			10	38	34 & 48
ADR-SUS			20	50	40 & 54
ADRL-SUS	1.13	0.0445	10	38	58
ADS & V-ADS ★			15	45	62
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS	1.14	0.0449	10	38	58
ADRL-SUS			15	45	62
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS	1.15	0.0453	10	38	58
ADRL-SUS			15	45	62
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			15	45	38 & 52
ADR-SUS			20	50	40 & 54

3mm & Straight Shank (★) Drills

Unit: mm

3mm & Straight Shank Drills

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRL-SUS	1.15	0.0453	15	45	62
ADS & V-ADS ★			15	40	66 & 73
ADSL ★			16	50	70
ADL ★			25	75	71
ADLL ★			30	100	72
ADRS & ADRS-SV	1.16	0.0457	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			15	45	62
ADS & V-ADS ★	1.16~1.19	0.0457~0.0469	15	40	66 & 73
ADRS & ADRS-SV	1.17	0.0461	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			15	45	62
ADRS & ADRS-SV	1.18	0.0465	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			15	45	62
ADRS & ADRS-SV	1.19	0.0469	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			15	45	62
ADRS & ADRS-SV	1.20	0.0472	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRS & ADRS-SV			15	45	38 & 52
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			15	45	62
ASWR			10	38	80
ADS & V-ADS ★			15	40	66 & 73
ADSL ★			18	50	70
ADL ★			25	75	71
ADLL ★			35	100	72
ASWD ★			18	50	81
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			15	45	62
ADS & V-ADS ★	1.21~1.24	0.0476~0.0488	15	40	66 & 73
ADRS & ADRS-SV	1.21	0.0476	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			15	45	62
ADS & V-ADS ★	1.22	0.0480	15	40	66 & 73
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS			10	38	58

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRL-SUS	1.22	0.0480	15	45	62
ADRS & ADRS-SV	1.23	0.0484	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			15	45	62
ADRS & ADRS-SV	1.24	0.0488	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			15	45	62
ADRS & ADRS-SV	1.25	0.0492	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRS & ADRS-SV			15	45	38 & 52
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			15	45	62
ADS & V-ADS ★			15	40	66 & 73
ADSL ★			18	50	70
ADL ★			25	75	71
ADLL ★			35	100	72
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			15	45	62
ADS & V-ADS ★	1.26~1.29	0.0496~0.0508	15	40	66 & 73
ADRS & ADRS-SV	1.27	0.0500	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			10	50	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			15	45	62
ADRS & ADRS-SV	1.28	0.0504	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			15	45	62
ADRS & ADRS-SV	1.29	0.0508	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			20	50	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			15	45	62
ADRS & ADRS-SV	1.30	0.0512	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRS & ADRS-SV			18	45	38 & 52
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			17	45	62

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ASWR	1.30	0.0512	10	38	80
ADS & V-ADS ★			16	40	66 & 73
ADSL ★			18	50	70
ADL ★			25	75	71
ADLL ★			35	100	72
ASWD ★	1.31	0.0516	18	50	81
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58
ADRL-SUS	1.31-1.34	0.0516-0.0528	17	45	62
ADS & V-ADS ★			16	40	66 & 73
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS	1.32	0.0520	10	38	58
ADRL-SUS			17	45	62
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS	1.33	0.0524	10	38	58
ADRL-SUS			17	45	62
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS	1.34	0.0528	10	38	58
ADRL-SUS			17	45	62
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS	1.35	0.0531	10	38	58
ADRL-SUS			17	45	62
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS	1.36	0.0535	10	38	58
ADRL-SUS			17	45	62
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS	1.36-1.39	0.0535-0.0547	10	38	58
ADRL-SUS			17	45	62
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS	1.37	0.0539	10	38	58
ADRL-SUS			17	45	62

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRS & ADRS-SV	1.38	0.0543	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			17	45	62
ADRS & ADRS-SV	1.39	0.0547	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			17	45	62
ADRS & ADRS-SV	1.40	0.0551	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			17	45	62
ASWR	1.41	0.0555	10	38	80
ADS & V-ADS ★			16	40	66 & 73
ADSL ★			18	50	70
ADL ★			30	75	71
ADLL ★			40	100	72
ASWD ★	1.41-1.44	0.0555-0.0570	18	50	81
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58
ADRL-SUS	1.42	0.0559	17	45	62
ADS & V-ADS ★			16	40	66 & 73
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS	1.43	0.0563	10	38	58
ADRL-SUS			17	45	62
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS	1.44	0.0567	10	38	58
ADRL-SUS			17	45	62
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS	1.45	0.0571	10	38	58
ADRL-SUS			17	45	62
ADRS & ADRS-SV			5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58

3mm & Straight Shank (★) Drills

Unit: mm

3mm & Straight Shank Drills

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRL-SUS	1.45	0.0571	17	45	62
ADS & V-ADS ★			16	40	66 & 73
ADSL ★			18	50	70
ADL ★			30	75	71
ADLL ★			40	100	72
ADRS & ADRS-SV	1.46	0.0575	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			17	45	62
ADS & V-ADS ★	1.46~1.49	0.0595~0.0587	16	40	66 & 73
ADRS & ADRS-SV	1.47	0.0579	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			17	45	62
ADRS & ADRS-SV	1.48	0.0583	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			17	45	62
ADRS & ADRS-SV	1.49	0.0587	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			17	45	62
ADRS & ADRS-SV	1.50	0.0591	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRSℓ & ADRSℓ-SV			18	45	38 & 52
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			17	45	62
ASWR			15		80
ADS & V-ADS ★			16	40	66 & 73
ADSL ★			24	50	70
ADL ★			30	75	71
ADLL ★			40	100	72
ASWD ★			24	55	81
ADRS & ADRS-SV	1.51	0.0594	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			17	45	62
ADS & V-ADS ★	1.51~1.54	0.0594~0.0606	16	40	66 & 73
ADRS & ADRS-SV	1.52	0.0598	5	38	30 & 44
ADR & ADR-SV			10	38	34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRL-SUS	1.52	0.0598	17	45	62
ADRS & ADRS-SV	1.53	0.0602	5	38	30 & 44
ADR & ADR-SV			10		34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			17	45	62
ADRS & ADRS-SV	1.54	0.0606	5	38	30 & 44
ADR & ADR-SV			10		34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			17	45	62
ADRS & ADRS-SV	1.55	0.0610	5	38	30 & 44
ADR & ADR-SV			10		34 & 48
ADRSℓ & ADRSℓ-SV			18	45	38 & 52
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			17	45	62
ADS & V-ADS ★			16	40	66 & 73
ADSL ★			24	50	70
ADL ★			30	75	71
ADLL ★			40	100	72
ADRS & ADRS-SV	1.56	0.0614	5	38	30 & 44
ADR & ADR-SV			10		34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			17	45	62
ADS & V-ADS ★	1.56~1.59	0.0614~0.0626	16	40	66 & 73
ADRS & ADRS-SV	1.57	0.0618	5	38	30 & 44
ADR & ADR-SV			10		34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			17	45	62
ADRS & ADRS-SV	1.58	0.0622	5	38	30 & 44
ADR & ADR-SV			10		34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			17	45	62
ADRS & ADRS-SV	1.59	0.0626	5	38	30 & 44
ADR & ADR-SV			10		34 & 48
ADRL & ADRL-SV			25	60	40 & 54
ADR-SUS			10	38	58
ADRL-SUS			17	45	62
ADRS & ADRS-SV	1.60	0.0630	10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRSℓ & ADRSℓ-SV			27		38 & 52
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58

Unit: mm

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRL-SUS	1.60	0.0630	20	50	62
ASWR			15	45	80
ADS & V-ADS ★			18	40	66 & 73
ADSL ★			24	55	70
ADL ★			30	75	71
ADLL ★			40	100	72
ASWD ★			24	55	81
ADRS & ADRS-SV	1.61	0.0634	10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADS & V-ADS ★	1.61~1.64	0.0634~0.0646	18	40	66 & 73
ADRS & ADRS-SV	1.62	0.0638	10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV	1.63	0.0642	10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV	1.64	0.0646	10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV	1.65	0.0650	10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADS & V-ADS ★	1.66	0.0654	18	40	66 & 73
ADSL ★			24	55	70
ADL ★			30	75	71
ADLL ★			40	100	72
ASWD ★			24	55	81
ADRS & ADRS-SV			10	38	30 & 44
ADR	1.67	0.0657	22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR	1.68	0.0661	22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR	1.69	0.0665	22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR	1.70	0.0669	22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ASWR			15	45	80
ADS & V-ADS ★	1.71	0.0673	18	40	66 & 73
ADSL ★			24	55	70
ADL ★			30	75	71
ADLL ★			40	100	72
ASWD ★			24	55	81
ADRS & ADRS-SV			10	38	30 & 44
ADR	1.72	0.0677	22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR	1.73	0.0681	22	50	34

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRL-SUS	1.66	0.0654	20	50	62
ADS & V-ADS ★	1.66~1.69	0.0654~0.0665	18	40	66 & 73
ADRS & ADRS-SV	1.67	0.0657	10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV	1.68	0.0661	10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV	1.69	0.0665	10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV	1.70	0.0669	10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ASWR	1.71	0.0673	15	45	80
ADS & V-ADS ★			18	40	66 & 73
ADSL ★			24	55	70
ADL ★			30	75	71
ADLL ★			40	100	72
ASWD ★			24	55	81
ADRS & ADRS-SV	1.72	0.0677	10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADS & V-ADS ★	1.71~1.74	0.0673~0.0677	18	40	66 & 73
ADRS & ADRS-SV	1.72	0.0677	10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV	1.73	0.0681	10	38	30 & 44
ADR			22	50	34

3mm & Straight Shank Drills

3mm & Straight Shank (★) Drills

Unit: mm

3mm & Straight Shank Drills

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADR-SV	1.73	0.0681	16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV	1.74	0.0685	10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	1.75	0.0689	20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRS & ADRL-SV			27	60	38 & 52
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADS & V-ADS★			18	40	66 & 73
ADSL★			24	55	70
ADL★	1.76	0.0693	30	75	71
ADLL★			40	100	72
ADRS & ADRS-SV			10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADS & V-ADS★	1.76~1.79	0.0693~0.0705	18	40	66 & 73
ADRS & ADRS-SV			10	38	30 & 44
ADR	1.77	0.0697	22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	1.78	0.0701	20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	1.79	0.0705	12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV	1.80	0.0709	32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV	1.80	0.0709	10	38	30 & 44
ADR			22	50	34

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADR-SV	1.80	0.0709	16	45	48
ADRS & ADRL-SV			27	60	38 & 52
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ASWR			15	45	80
ADS & V-ADS★	1.81	0.0713	18	40	66 & 73
ADSL★			24	55	70
ADL★			30	75	71
ADLL★			40	100	72
ASWD★			24	55	81
ADRS & ADRS-SV	1.81	0.0713	10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	1.81~1.84	0.0713~0.0724	20	50	62
ADS & V-ADS★			18	40	66 & 73
ADRS & ADRS-SV			10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV	1.82	0.0717	32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR	1.83	0.0720	22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV	1.84	0.0724	10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	1.85	0.0728	20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRS & ADRL-SV			27	60	38 & 52
ADRL & ADRL-SV	1.85	0.0728	32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADS & V-ADS★			18	40	66 & 73
ADSL★			24	55	70
ADL★	1.86	0.0732	30	75	71
ADLL★			40	100	72
ADRS & ADRS-SV			10	38	30 & 44

Unit: mm

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADR	1.86	0.0732	22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADS & V-ADS★	1.86~1.89	0.0732~0.0744	18	40	66 & 73
ADRS & ADRS-SV	1.87	0.0736	10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	1.88	0.0740	20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	1.89	0.0744	12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV	1.90	0.0748	32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ASWR			15	45	80
ADS & V-ADS★			18	40	66 & 73
ADSL★	1.91	0.0752	24	55	70
ADL★			30	75	71
ADLL★			40	100	72
ASWD★			24	55	81
ADRS & ADRS-SV			10	38	30 & 44
ADR	1.92	0.0756	22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADS & V-ADS★	1.91~1.94	0.0752~0.0764	18	40	66 & 73
ADRS & ADRS-SV	1.92	0.0756	10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADR-SUS	1.92	0.0756	12	45	58
ADRL-SUS	1.93	0.0760	20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	1.94	0.0764	12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV	1.95	0.0768	32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADS & V-ADS★			18	40	66 & 73
ADSL★			24	55	70
ADL★	1.96	0.0772	30	75	71
ADLL★			40	100	72
ADRS & ADRS-SV			10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV	1.97	0.0776	32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADS & V-ADS★			18	40	66 & 73
ADRS & ADRS-SV			10	38	30 & 44
ADR	1.98	0.0780	22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV	1.99	0.0783	10	38	30 & 44
ADR			22	50	34
ADR-SV			16	45	48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58

3mm & Straight Shank (★) Drills

Unit: mm

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADR-SUS	1.99	0.0783	12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV	2.00	0.0787	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			27	60	38 & 52
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ASWR			22	50	80
ADS & V-ADS ★			18	40	66 & 73
ADSL ★			24	55	70
ADL ★			30	75	71
ADLL ★			40	100	72
ASWD ★			24	55	81
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV	2.01	0.0791	32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	2.01~2.04	0.0791~0.0795	20	50	62
ADS & V-ADS ★			18	40	66 & 73
ADRS & ADRS-SV	2.02	0.0795	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV	2.03	0.0799	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	2.04	0.0803	20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	2.05	0.0807	20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADS & V-ADS ★			18	40	66 & 73
ADSL ★			24	55	70
ADL ★			30	75	71
ADLL ★			40	100	72
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRL-SUS	2.06	0.0811	20	50	62
ADS & V-ADS ★	2.06~2.09	0.0811~0.0823	18	40	66 & 73
ADRS & ADRS-SV	2.07	0.0815	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	2.08	0.0819	20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.09	0.0823	12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV	2.10	0.0827	32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ASWR			22	55	80
ADS & V-ADS ★			20	40(45)	66 & 73
ADSL ★			24	55	70
ADL ★	2.11	0.0831	30	75	71
ADLL ★			40	100	72
ASWD ★			24	50	81
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV	2.12	0.0835	22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADS & V-ADS ★	2.13	0.0839	20	40(45)	66 & 73
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.14	0.0843	12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV	2.14	0.0843	32	60	40 & 54
ADR-SUS			12	45	58

* Overall length is being changed to figures in parentheses.

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRL-SUS	2.14	0.0843	20	50	62
ADRS & ADRS-SV	2.15	0.0846	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			20	50	62
ADS & V-ADS★			20	40(45)	66 & 73
ADSL★			24	55	70
ADL★			30	75	71
ADLL★			40	100	72
ADRS & ADRS-SV	2.16	0.0850	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	2.16~2.19	0.0850~0.0862	20	50	62
ADS & V-ADS★			20	40(45)	66 & 73
ADRS & ADRS-SV	2.17	0.0854	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	2.18	0.0858	20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.19	0.0862	12	45	58
ADRL-SUS			20	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV	2.20	0.0866	32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			22	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV	2.21	0.0870	22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			22	50	62
ADS & V-ADS★	2.21~2.24	0.0870~0.0881	20	40(45)	66 & 73

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRS & ADRS-SV	2.22	0.0874	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	2.23	0.0878	22	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.24	0.0882	12	45	58
ADRL-SUS			22	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV	2.25	0.0886	32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			22	50	62
ADS & V-ADS★			20	40(45)	66 & 73
ADSL★	2.26	0.0890	26	58(65)	70
ADL★			30	75	71
ADLL★			40	100	72
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV	2.27	0.0894	22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			22	50	62
ADRS & ADRS-SV	2.28	0.0898	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	2.29	0.0902	22	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.30	0.0906	12	45	58
ADRL-SUS			22	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV	2.30	0.0906	32	60	40 & 54
ADR-SUS			12	45	58

* Overall length is being changed to figures in parentheses.

3mm & Straight Shank (★) Drills

Unit: mm

3mm & Straight Shank Drills

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADR-SUS	2.30	0.0906	12	45	58
ADRL-SUS			22	50	62
ASWR			22	50	80
ADS & V-ADS ★			20	40(45)	66 & 73
ADSL ★			26	58(65)	70
ADL ★			30	75	71
ADLL ★			40	100	72
ASWD ★			26	58(65)	81
ADRS & ADRS-SV	2.31	0.0909	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	2.31	0.0909	22	50	62
ADS & V-ADS ★			20	40(45)	66 & 73
ADRS & ADRS-SV	2.32	0.0913	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.32	0.0913	12	45	58
ADRL-SUS			22	50	62
ADRS & ADRS-SV	2.33	0.0917	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	2.33	0.0917	22	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV	2.34	0.0921	22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	2.34	0.0921	22	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV	2.35	0.0925	22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	2.35	0.0925	22	50	62
ADS & V-ADS ★			20	40(45)	66 & 73
ADSL ★	2.35	0.0925	26	58(65)	70
ADL ★			30	75	71
ADLL ★	2.35	0.0925	40	100	72
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV	2.36	0.0929	22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	2.36	0.0929	22	50	62
ADS & V-ADS ★			20	40(45)	66 & 73
ADRS & ADRS-SV	2.36	0.0929	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.37	0.0933	12	45	58
ADRL-SUS			22	45	58

* Overall length is being changed to figures in parentheses.

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRL-SUS	2.37	0.0933	22	50	62
ADRS & ADRS-SV	2.38	0.0937	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	2.39	0.0941	22	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.39	0.0941	12	45	58
ADRL-SUS			22	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV	2.40	0.0945	32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			22	50	62
ASWR			22	50	80
ADS & V-ADS ★	2.40	0.0945	20	40(45)	66 & 73
ADSL ★			26	61(65)	70
ADL ★			35	100	71
ADLL ★			50	150	72
ASWD ★	2.40	0.0945	26	61(65)	81
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.41	0.0949	12	45	58
ADRL-SUS			22	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV	2.42	0.0953	32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			22	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV	2.43	0.0957	22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			22	50	62
ADRS & ADRS-SV	2.44	0.0961	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	2.45	0.0965	22	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.45	0.0965	12	45	58
ADRL-SUS			22	50	62

Unit: mm

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADS & V-ADS ★	2.45	0.0965	20	40(45)	66 & 73
ADSL ★			26	61(65)	70
ADL ★			35	100	71
ADLL ★			50	150	72
ADRS & ADRS-SV	2.46	0.0969	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	2.46~2.49	0.0969~0.0980	22	50	62
ADS & V-ADS ★			20	40(45)	66 & 73
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV	2.47	0.0972	32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			22	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV	2.48	0.0976	22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			22	50	62
ADRS & ADRS-SV	2.48	0.0976	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	2.49	0.0980	22	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.49	0.0980	12	45	58
ADRL-SUS			22	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRS & ADRS-SV	2.50	0.0984	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRS & ADRS-SV			27	60	38 & 52
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.50	0.0984	12	45	58
ADRL-SUS			22	50	62
ASWR			22	50	80
ADS & V-ADS ★			20	40(45)	66 & 73
ADSL ★	2.51	0.0988	26	61(65)	70
ADL ★			35	100	71
ADLL ★			50	150	72
ASWD ★			26	61(65)	81
ADRS & ADRS-SV	2.51	0.0988	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	2.51~2.54	0.0988~0.1	22	50	62
ADS & V-ADS ★			20	40(45)	66 & 73
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV	2.52	0.0992	32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			22	50	62

* Overall length is being changed to figures in parentheses.

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRS & ADRS-SV	2.53	0.0996	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	2.54	0.1000	22	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.54	0.1000	12	45	58
ADRL-SUS			22	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV	2.55	0.1004	32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			22	50	62
ADS & V-ADS ★			20	40(45)	66 & 73
ADSL ★	2.56	0.1008	26	61(65)	70
ADL ★			35	100	71
ADLL ★			50	150	72
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV	2.56	0.1008	22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			22	50	62
ADS & V-ADS ★	2.56~2.59	0.1008~0.1020	20	40(45)	66 & 73
ADRS & ADRS-SV	2.57	0.1012	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS	2.57	0.1012	22	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.58	0.1016	12	45	58
ADRL-SUS			22	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV	2.59	0.1020	32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			22	50	62
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV	2.60	0.1024	22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			22	50	62
ASWR	2.60	0.1024	22	50	80
ADS & V-ADS ★			20	45	66 & 73
ADSL ★			28	64(65)	70

3mm & Straight Shank (★) Drills

Unit: mm

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADL★	2.60	0.1024	35	100	71
ADLL★			50	150	72
ASWD★			28	64(65)	81
ADRS & ADRS-SV	2.61	0.1028	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.61	0.1028	12	45	58
ADRL-SUS			22	50	62
ADS & V-ADS★	2.61~2.64	0.1028~0.1039	20	45	66 & 73
ADRS & ADRS-SV	2.62	0.1031	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.62	0.1031	12	45	58
ADRL-SUS			22	50	62
ADRS & ADRS-SV	2.63	0.1035	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.63	0.1035	12	45	58
ADRL-SUS			22	50	62
ADRS & ADRS-SV	2.64	0.1039	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.64	0.1039	12	45	58
ADRL-SUS			22	50	62
ADRS & ADRS-SV	2.65	0.1043	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.65	0.1043	12	45	58
ADRL-SUS			22	50	62
ADS & V-ADS★	2.65~2.67	0.1047~0.1051	20	45	66 & 73
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV	2.66	0.1047	32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			22	50	62
ADS & V-ADS★	2.66~2.67	0.1047~0.1051	20	45	66 & 73
ADRS & ADRS-SV			10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV	2.67	0.1051	32	60	40 & 54
ADR-SUS			12	45	58
ADRL-SUS			22	50	62
ADRS & ADRS-SV	2.68	0.1055	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.68	0.1055	12	45	58

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRL-SUS	2.68	0.1055	22	50	62
ADRS & ADRS-SV	2.69	0.1059	10	38	30 & 44
ADR & ADR-SV			22	50	34 & 48
ADRL & ADRL-SV			32	60	40 & 54
ADR-SUS	2.69	0.1059	12	45	58
ADRL-SUS			22	50	62
ADRS & ADRS-SV	2.70	0.1063	12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS	2.70	0.1063	15	45	58
ADRL-SUS			25	60	62
ASWR			25	50	80
ADS & V-ADS★	2.70	0.1063	20	45	66 & 73
ADSL★			28	64(65)	70
ADL★			35	100	71
ADLL★	2.71	0.1067	50	150	72
ASWD★			28	64(65)	81
ADRS & ADRS-SV			12	38	30 & 44
ADR & ADR-SV	2.71	0.1067	25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS	2.71	0.1067	25	60	62
ADS & V-ADS★			20	45	66 & 73
ADRS & ADRS-SV			12	38	30 & 44
ADR & ADR-SV	2.72	0.1071	25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS	2.72	0.1071	25	60	62
ADRS & ADRS-SV			12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV	2.73	0.1075	40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS			25	60	62
ADRS & ADRS-SV	2.74	0.1079	12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS	2.74	0.1079	15	45	58
ADRL-SUS			25	60	62
ADRS & ADRS-SV	2.75	0.1083	12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS	2.75	0.1083	15	45	58
ADRL-SUS			25	60	62
ADS & V-ADS★			20	45	66 & 73
ADSL★	2.75	0.1083	28	64(65)	70
ADL★			35	100	71
ADLL★			50	150	72
ADRS & ADRS-SV	2.76	0.1087	12	38	30 & 44

* Overall length is being changed to figures in parentheses.

Unit: mm

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADR & ADR-SV	2.76	0.1087	25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS			25	60	62
ADS & V-ADS★	2.76~2.79	0.1087~0.1099	20	45	66 & 73
ADRS & ADRS-SV	2.77	0.1091	12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS			25	60	62
ADRS & ADRS-SV	2.78	0.1094	12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS	2.79	0.1098	25	60	62
ADRS & ADRS-SV			12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS	2.80	0.1102	25	60	62
ADRS & ADRS-SV			12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS			25	60	62
ASWR			25	50	80
ADS & V-ADS★			20	45	66 & 73
ADSL★			30	67(75)	70
ADL★			35	100	71
ADLL★			50	150	72
ASWD★	2.81	0.1106	30	67(75)	81
ADRS & ADRS-SV			12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS	2.81~2.84	0.1106~0.1118	25	60	62
ADS & V-ADS★			20	45	66 & 73
ADRS & ADRS-SV			12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV	2.82	0.1110	40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS			25	60	62
ADRS & ADRS-SV			12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV	2.83	0.1114	40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS			25	60	62
ADRS & ADRS-SV	2.84	0.1118	12	38	30 & 44

* Overall length is being changed to figures in parentheses.

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADR & ADR-SV	2.84	0.1118	25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS			25	60	62
ADRS & ADRS-SV	2.85	0.1122	12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS			25	60	62
ADS & V-ADS★			20	45	66 & 73
ADSL★			30	67(75)	70
ADL★			35	100	71
ADLL★	2.86	0.1126	50	150	72
ADRS & ADRS-SV			12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS	2.86~2.89	0.1126~0.1138	15	45	58
ADRL-SUS			25	60	62
ADS & V-ADS★			20	45	66 & 73
ADRS & ADRS-SV			12	38	30 & 44
ADR & ADR-SV	2.87	0.1130	25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS			25	60	62
ADRS & ADRS-SV	2.88	0.1134	12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS	2.89	0.1138	25	60	62
ADRS & ADRS-SV			12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS	2.90	0.1142	15	45	58
ADRL-SUS			25	60	62
ADRS & ADRS-SV			12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS			25	60	62
ASWR			25	50	80
ADS & V-ADS★	2.91	0.1146	20	45	66 & 73
ADSL★			30	71(75)	70
ADL★			35	100	71
ADLL★			50	150	72
ASWD★			30	71(75)	81
ADRS & ADRS-SV	2.91	0.1146	12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54

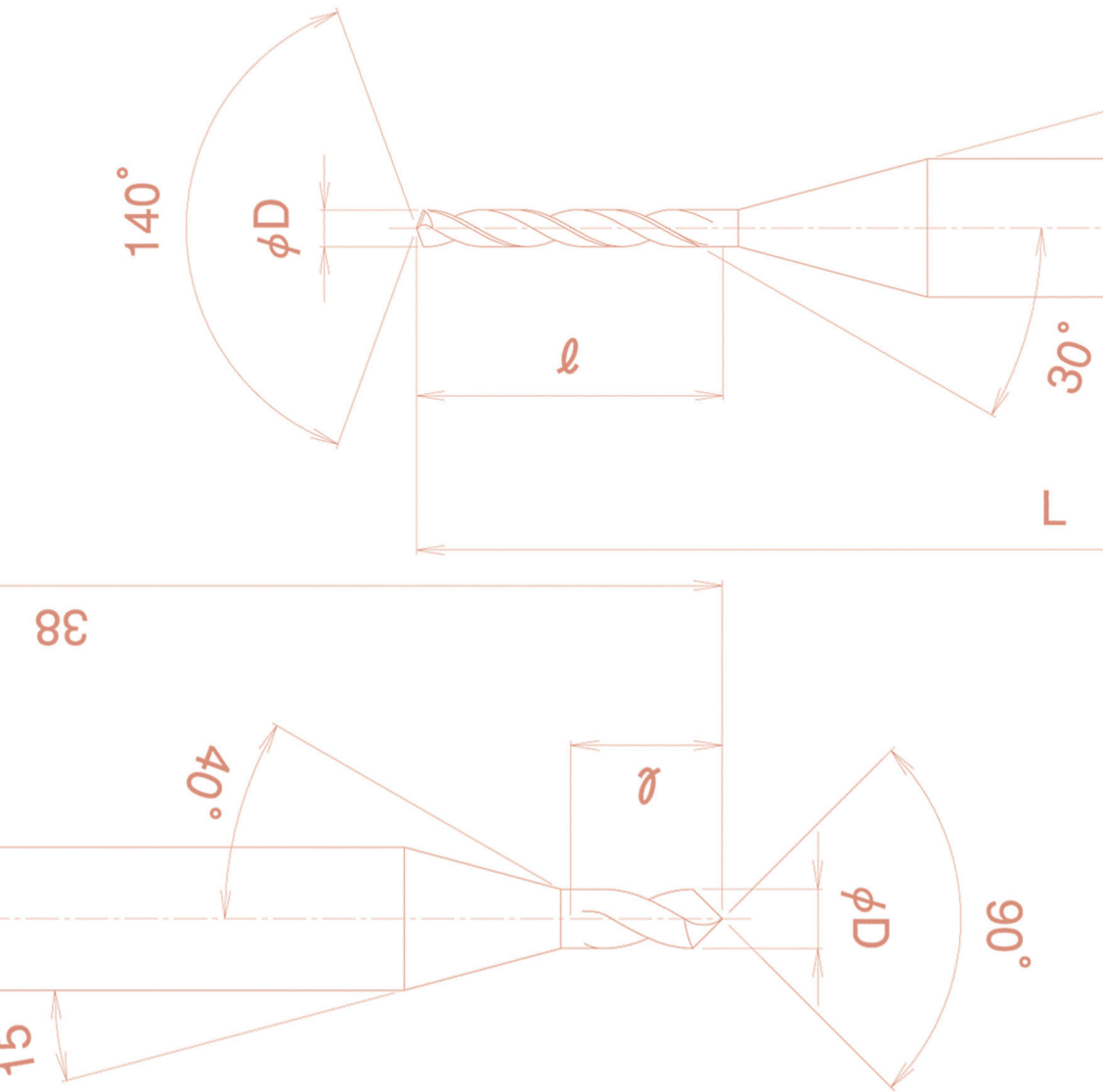
3mm & Straight Shank (★) Drills

Unit: mm

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADR-SUS	2.91	0.1146	15	45	58
ADRL-SUS			25	60	62
ADS & V-ADS ★	2.91~2.94	0.1146~0.1157	20	45	66 & 73
ADRS & ADRS-SV	2.92	0.1150	12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS	2.93	0.1154	25	60	62
ADRS & ADRS-SV			12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS	2.94	0.1157	15	45	58
ADRL-SUS			25	60	62
ADRS & ADRS-SV			12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV	2.95	0.1161	40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS			25	60	62
ADRS & ADRS-SV			12	38	30 & 44
ADR & ADR-SV	2.96	0.1165	25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS			25	60	62
ADS & V-ADS ★	2.96~2.99	0.1165~0.1177	20	45	66 & 73
ADRS & ADRS-SV	2.97	0.1169	12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS	2.98	0.1173	25	60	62
ADRS & ADRS-SV			12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS	2.99	0.1177	15	45	58
ADRL-SUS			25	60	62
ADRS & ADRS-SV			12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48

CODE NUMBER	ØD mm	ØD inch	F.L. ℓ	O.A.L L	Page No.
ADRS & ADRS-SV	3.00	0.1181	12	38	30 & 44
ADR & ADR-SV			25	50	34 & 48
ADRS & ADRS-SV			33	60	38 & 52
ADRL & ADRL-SV			40	65	40 & 54
ADR-SUS			15	45	58
ADRL-SUS			25	60	62
ASWR			25	50	80
ADS & V-ADS ★			20	45	66 & 73
ADSL ★			30	71(75)	70
ADL ★			50	100	71
ADLL ★			65	150	72
ASWD ★			30	71(75)	81

* Overall length is being changed to figures in parentheses.



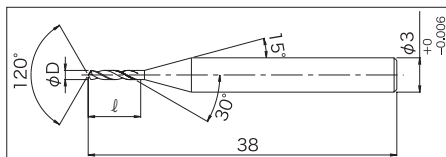
Micro Drills

Micro Drill, Short Flute Length

ADRS



- Precision drilling for short micro holes
- High performance with non-ferrous materials, including aluminum and copper alloys and resin



ØD Tolerance: +0~-0.005

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRS-0010	0.10	0.0039	0.6	38	3	65.10
ADRS-0011	0.11	0.0043	0.6	38	3	60.30
ADRS-0012	0.12	0.0047	0.6	38	3	60.30
ADRS-0013	0.13	0.0051	0.6	38	3	60.30
ADRS-0014	0.14	0.0055	0.6	38	3	60.30
ADRS-0015	0.15	0.0059	0.8	38	3	55.20
ADRS-0016	0.16	0.0063	0.8	38	3	55.20
ADRS-0017	0.17	0.0067	0.8	38	3	55.20
ADRS-0018	0.18	0.0071	1.0	38	3	55.20
ADRS-0019	0.19	0.0075	1.0	38	3	55.20
ADRS-0020	0.20	0.0079	1.0	38	3	55.20
ADRS-0021	0.21	0.0083	1.0	38	3	53.60
ADRS-0022	0.22	0.0087	1.2	38	3	53.60
ADRS-0023	0.23	0.0091	1.2	38	3	53.60
ADRS-0024	0.24	0.0094	1.2	38	3	53.60
ADRS-0025	0.25	0.0098	1.5	38	3	53.60
ADRS-0026	0.26	0.0102	1.5	38	3	53.60
ADRS-0027	0.27	0.0106	1.5	38	3	53.60
ADRS-0028	0.28	0.0110	1.5	38	3	53.60
ADRS-0029	0.29	0.0114	1.5	38	3	53.60
ADRS-0030	0.30	0.0118	2.5	38	3	39.30
ADRS-0031	0.31	0.0122	2.5	38	3	43.10
ADRS-0032	0.32	0.0126	2.5	38	3	43.10
ADRS-0033	0.33	0.0130	2.5	38	3	43.10
ADRS-0034	0.34	0.0134	2.5	38	3	43.10
ADRS-0035	0.35	0.0138	2.5	38	3	43.10
ADRS-0036	0.36	0.0142	2.5	38	3	43.10
ADRS-0037	0.37	0.0146	2.5	38	3	43.10
ADRS-0038	0.38	0.0150	2.5	38	3	43.10
ADRS-0039	0.39	0.0154	2.5	38	3	43.10
ADRS-0040	0.40	0.0157	3	38	3	39.30



Unit: mm

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRS-0041	0.41	0.0161	3	38	3	43.10
ADRS-0042	0.42	0.0165	3	38	3	43.10
ADRS-0043	0.43	0.0169	3	38	3	43.10
ADRS-0044	0.44	0.0173	3	38	3	43.10
ADRS-0045	0.45	0.0177	3	38	3	43.10
ADRS-0046	0.46	0.0181	3	38	3	43.10
ADRS-0047	0.47	0.0185	3	38	3	43.10
ADRS-0048	0.48	0.0189	3	38	3	43.10
ADRS-0049	0.49	0.0193	3	38	3	43.10
ADRS-0050	0.50	0.0197	3	38	3	39.30
ADRS-0051	0.51	0.0201	3	38	3	43.10
ADRS-0052	0.52	0.0205	3	38	3	43.10
ADRS-0053	0.53	0.0209	3	38	3	43.10
ADRS-0054	0.54	0.0213	3	38	3	43.10
ADRS-0055	0.55	0.0217	3	38	3	43.10
ADRS-0056	0.56	0.0220	3	38	3	43.10
ADRS-0057	0.57	0.0224	3	38	3	43.10
ADRS-0058	0.58	0.0228	3	38	3	43.10
ADRS-0059	0.59	0.0232	3	38	3	43.10
ADRS-0060	0.60	0.0236	3	38	3	39.30
ADRS-0061	0.61	0.0240	3	38	3	43.10
ADRS-0062	0.62	0.0244	3	38	3	43.10
ADRS-0063	0.63	0.0248	3	38	3	43.10
ADRS-0064	0.64	0.0252	3	38	3	43.10
ADRS-0065	0.65	0.0256	3	38	3	43.10
ADRS-0066	0.66	0.0260	3	38	3	43.10
ADRS-0067	0.67	0.0264	3	38	3	43.10
ADRS-0068	0.68	0.0268	3	38	3	43.10
ADRS-0069	0.69	0.0272	3	38	3	43.10
ADRS-0070	0.70	0.0276	4	38	3	39.30
ADRS-0071	0.71	0.0280	4	38	3	43.10

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRS-0072	0.72	0.0283	4	38	3	43.10
ADRS-0073	0.73	0.0287	4	38	3	43.10
ADRS-0074	0.74	0.0291	4	38	3	43.10
ADRS-0075	0.75	0.0295	4	38	3	43.10
ADRS-0076	0.76	0.0299	4	38	3	43.10
ADRS-0077	0.77	0.0303	4	38	3	43.10
ADRS-0078	0.78	0.0307	4	38	3	43.10
ADRS-0079	0.79	0.0311	4	38	3	43.10
ADRS-0080	0.80	0.0315	4	38	3	39.30
ADRS-0081	0.81	0.0319	4	38	3	43.10
ADRS-0082	0.82	0.0323	4	38	3	43.10
ADRS-0083	0.83	0.0327	4	38	3	43.10
ADRS-0084	0.84	0.0331	4	38	3	43.10
ADRS-0085	0.85	0.0335	4	38	3	43.10
ADRS-0086	0.86	0.0339	4	38	3	43.10
ADRS-0087	0.87	0.0343	4	38	3	43.10
ADRS-0088	0.88	0.0346	4	38	3	43.10
ADRS-0089	0.89	0.0350	4	38	3	43.10
ADRS-0090	0.90	0.0354	4	38	3	39.30
ADRS-0091	0.91	0.0358	4	38	3	43.10
ADRS-0092	0.92	0.0362	4	38	3	43.10
ADRS-0093	0.93	0.0366	4	38	3	43.10
ADRS-0094	0.94	0.0370	4	38	3	43.10
ADRS-0095	0.95	0.0374	4	38	3	43.10
ADRS-0096	0.96	0.0378	4	38	3	43.10
ADRS-0097	0.97	0.0382	4	38	3	43.10
ADRS-0098	0.98	0.0386	4	38	3	43.10
ADRS-0099	0.99	0.0390	4	38	3	43.10
ADRS-0100	1.00	0.0394	5	38	3	39.30
ADRS-0101	1.01	0.0398	5	38	3	43.10
ADRS-0102	1.02	0.0402	5	38	3	43.10
ADRS-0103	1.03	0.0406	5	38	3	43.10
ADRS-0104	1.04	0.0409	5	38	3	43.10
ADRS-0105	1.05	0.0413	5	38	3	43.10
ADRS-0106	1.06	0.0417	5	38	3	43.10
ADRS-0107	1.07	0.0421	5	38	3	43.10
ADRS-0108	1.08	0.0425	5	38	3	43.10
ADRS-0109	1.09	0.0429	5	38	3	43.10
ADRS-0110	1.10	0.0433	5	38	3	39.30
ADRS-0111	1.11	0.0437	5	38	3	43.10
ADRS-0112	1.12	0.0441	5	38	3	43.10
ADRS-0113	1.13	0.0445	5	38	3	43.10
ADRS-0114	1.14	0.0449	5	38	3	43.10
ADRS-0115	1.15	0.0453	5	38	3	43.10
ADRS-0116	1.16	0.0457	5	38	3	43.10
ADRS-0117	1.17	0.0461	5	38	3	43.10
ADRS-0118	1.18	0.0465	5	38	3	43.10
ADRS-0119	1.19	0.0469	5	38	3	43.10
ADRS-0120	1.20	0.0472	5	38	3	39.30
ADRS-0121	1.21	0.0476	5	38	3	43.10

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRS-0122	1.22	0.0480	5	38	3	43.10
ADRS-0123	1.23	0.0484	5	38	3	43.10
ADRS-0124	1.24	0.0488	5	38	3	43.10
ADRS-0125	1.25	0.0492	5	38	3	43.10
ADRS-0126	1.26	0.0496	5	38	3	43.10
ADRS-0127	1.27	0.0500	5	38	3	43.10
ADRS-0128	1.28	0.0504	5	38	3	43.10
ADRS-0129	1.29	0.0508	5	38	3	43.10
ADRS-0130	1.30	0.0512	5	38	3	39.30
ADRS-0131	1.31	0.0516	5	38	3	43.10
ADRS-0132	1.32	0.0520	5	38	3	43.10
ADRS-0133	1.33	0.0524	5	38	3	43.10
ADRS-0134	1.34	0.0528	5	38	3	43.10
ADRS-0135	1.35	0.0531	5	38	3	43.10
ADRS-0136	1.36	0.0535	5	38	3	43.10
ADRS-0137	1.37	0.0539	5	38	3	43.10
ADRS-0138	1.38	0.0543	5	38	3	43.10
ADRS-0139	1.39	0.0547	5	38	3	43.10
ADRS-0140	1.40	0.0551	5	38	3	39.30
ADRS-0141	1.41	0.0555	5	38	3	43.10
ADRS-0142	1.42	0.0559	5	38	3	43.10
ADRS-0143	1.43	0.0563	5	38	3	43.10
ADRS-0144	1.44	0.0567	5	38	3	43.10
ADRS-0145	1.45	0.0571	5	38	3	43.10
ADRS-0146	1.46	0.0575	5	38	3	43.10
ADRS-0147	1.47	0.0579	5	38	3	43.10
ADRS-0148	1.48	0.0583	5	38	3	43.10
ADRS-0149	1.49	0.0587	5	38	3	43.10
ADRS-0150	1.50	0.0591	5	38	3	39.30
ADRS-0151	1.51	0.0594	5	38	3	43.10
ADRS-0152	1.52	0.0598	5	38	3	43.10
ADRS-0153	1.53	0.0602	5	38	3	43.10
ADRS-0154	1.54	0.0606	5	38	3	43.10
ADRS-0155	1.55	0.0610	5	38	3	43.10
ADRS-0156	1.56	0.0614	5	38	3	43.10
ADRS-0157	1.57	0.0618	5	38	3	43.10
ADRS-0158	1.58	0.0622	5	38	3	43.10
ADRS-0159	1.59	0.0626	5	38	3	43.10
ADRS-0160	1.60	0.0630	10	38	3	39.30
ADRS-0161	1.61	0.0634	10	38	3	43.10
ADRS-0162	1.62	0.0638	10	38	3	43.10
ADRS-0163	1.63	0.0642	10	38	3	43.10
ADRS-0164	1.64	0.0646	10	38	3	43.10
ADRS-0165	1.65	0.0650	10	38	3	43.10
ADRS-0166	1.66	0.0654	10	38	3	43.10
ADRS-0167	1.67	0.0657	10	38	3	43.10
ADRS-0168	1.68	0.0661	10	38	3	43.10
ADRS-0169	1.69	0.0665	10	38	3	43.10
ADRS-0170	1.70	0.0669	10	38	3	39.30
ADRS-0171	1.71	0.0673	10	38	3	43.10

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRS-0172	1.72	0.0677	10	38	3	43.10
ADRS-0173	1.73	0.0681	10	38	3	43.10
ADRS-0174	1.74	0.0685	10	38	3	43.10
ADRS-0175	1.75	0.0689	10	38	3	43.10
ADRS-0176	1.76	0.0693	10	38	3	43.10
ADRS-0177	1.77	0.0697	10	38	3	43.10
ADRS-0178	1.78	0.0701	10	38	3	43.10
ADRS-0179	1.79	0.0705	10	38	3	43.10
ADRS-0180	1.80	0.0709	10	38	3	39.30
ADRS-0181	1.81	0.0713	10	38	3	43.10
ADRS-0182	1.82	0.0717	10	38	3	43.10
ADRS-0183	1.83	0.0720	10	38	3	43.10
ADRS-0184	1.84	0.0724	10	38	3	43.10
ADRS-0185	1.85	0.0728	10	38	3	43.10
ADRS-0186	1.86	0.0732	10	38	3	43.10
ADRS-0187	1.87	0.0736	10	38	3	43.10
ADRS-0188	1.88	0.0740	10	38	3	43.10
ADRS-0189	1.89	0.0744	10	38	3	43.10
ADRS-0190	1.90	0.0748	10	38	3	39.30
ADRS-0191	1.91	0.0752	10	38	3	43.10
ADRS-0192	1.92	0.0756	10	38	3	43.10
ADRS-0193	1.93	0.0760	10	38	3	43.10
ADRS-0194	1.94	0.0764	10	38	3	43.10
ADRS-0195	1.95	0.0768	10	38	3	43.10
ADRS-0196	1.96	0.0772	10	38	3	43.10
ADRS-0197	1.97	0.0776	10	38	3	43.10
ADRS-0198	1.98	0.0780	10	38	3	43.10
ADRS-0199	1.99	0.0783	10	38	3	43.10
ADRS-0200	2.00	0.0787	10	38	3	39.30
ADRS-0201	2.01	0.0791	10	38	3	43.10
ADRS-0202	2.02	0.0795	10	38	3	43.10
ADRS-0203	2.03	0.0799	10	38	3	43.10
ADRS-0204	2.04	0.0803	10	38	3	43.10
ADRS-0205	2.05	0.0807	10	38	3	43.10
ADRS-0206	2.06	0.0811	10	38	3	43.10
ADRS-0207	2.07	0.0815	10	38	3	43.10
ADRS-0208	2.08	0.0819	10	38	3	43.10
ADRS-0209	2.09	0.0823	10	38	3	43.10
ADRS-0210	2.10	0.0827	10	38	3	39.30
ADRS-0211	2.11	0.0831	10	38	3	43.10
ADRS-0212	2.12	0.0835	10	38	3	43.10
ADRS-0213	2.13	0.0839	10	38	3	43.10
ADRS-0214	2.14	0.0843	10	38	3	43.10
ADRS-0215	2.15	0.0846	10	38	3	43.10
ADRS-0216	2.16	0.0850	10	38	3	43.10
ADRS-0217	2.17	0.0854	10	38	3	43.10
ADRS-0218	2.18	0.0858	10	38	3	43.10
ADRS-0219	2.19	0.0862	10	38	3	43.10
ADRS-0220	2.20	0.0866	10	38	3	39.30
ADRS-0221	2.21	0.0870	10	38	3	43.10

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRS-0222	2.22	0.0874	10	38	3	43.10
ADRS-0223	2.23	0.0878	10	38	3	43.10
ADRS-0224	2.24	0.0882	10	38	3	43.10
ADRS-0225	2.25	0.0886	10	38	3	43.10
ADRS-0226	2.26	0.0890	10	38	3	43.10
ADRS-0227	2.27	0.0894	10	38	3	43.10
ADRS-0228	2.28	0.0898	10	38	3	43.10
ADRS-0229	2.29	0.0902	10	38	3	43.10
ADRS-0230	2.30	0.0906	10	38	3	39.30
ADRS-0231	2.31	0.0909	10	38	3	43.10
ADRS-0232	2.32	0.0913	10	38	3	43.10
ADRS-0233	2.33	0.0917	10	38	3	43.10
ADRS-0234	2.34	0.0921	10	38	3	43.10
ADRS-0235	2.35	0.0925	10	38	3	43.10
ADRS-0236	2.36	0.0929	10	38	3	43.10
ADRS-0237	2.37	0.0933	10	38	3	43.10
ADRS-0238	2.38	0.0937	10	38	3	43.10
ADRS-0239	2.39	0.0941	10	38	3	43.10
ADRS-0240	2.40	0.0945	10	38	3	39.30
ADRS-0241	2.41	0.0949	10	38	3	43.10
ADRS-0242	2.42	0.0953	10	38	3	43.10
ADRS-0243	2.43	0.0957	10	38	3	43.10
ADRS-0244	2.44	0.0961	10	38	3	43.10
ADRS-0245	2.45	0.0965	10	38	3	43.10
ADRS-0246	2.46	0.0969	10	38	3	43.10
ADRS-0247	2.47	0.0972	10	38	3	43.10
ADRS-0248	2.48	0.0976	10	38	3	43.10
ADRS-0249	2.49	0.0980	10	38	3	43.10
ADRS-0250	2.50	0.0984	10	38	3	39.30
ADRS-0251	2.51	0.0988	10	38	3	43.10
ADRS-0252	2.52	0.0992	10	38	3	43.10
ADRS-0253	2.53	0.0996	10	38	3	43.10
ADRS-0254	2.54	0.1000	10	38	3	43.10
ADRS-0255	2.55	0.1004	10	38	3	43.10
ADRS-0256	2.56	0.1008	10	38	3	43.10
ADRS-0257	2.57	0.1012	10	38	3	43.10
ADRS-0258	2.58	0.1016	10	38	3	43.10
ADRS-0259	2.59	0.1020	10	38	3	43.10
ADRS-0260	2.60	0.1024	10	38	3	39.30
ADRS-0261	2.61	0.1028	10	38	3	43.10
ADRS-0262	2.62	0.1031	10	38	3	43.10
ADRS-0263	2.63	0.1035	10	38	3	43.10
ADRS-0264	2.64	0.1039	10	38	3	43.10
ADRS-0265	2.65	0.1043	10	38	3	43.10
ADRS-0266	2.66	0.1047	10	38	3	43.10
ADRS-0267	2.67	0.1051	10	38	3	43.10
ADRS-0268	2.68	0.1055	10	38	3	43.10
ADRS-0269	2.69	0.1059	10	38	3	43.10
ADRS-0270	2.70	0.1063	12	38	3	39.30
ADRS-0271	2.71	0.1067	12	38	3	43.10

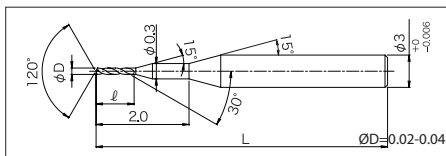
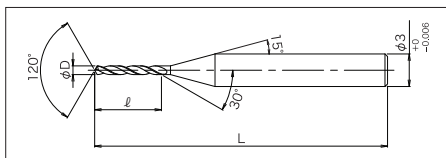
PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRS-0272	2.72	0.1071	12	38	3	43.10
ADRS-0273	2.73	0.1075	12	38	3	43.10
ADRS-0274	2.74	0.1079	12	38	3	43.10
ADRS-0275	2.75	0.1083	12	38	3	43.10
ADRS-0276	2.76	0.1087	12	38	3	43.10
ADRS-0277	2.77	0.1091	12	38	3	43.10
ADRS-0278	2.78	0.1094	12	38	3	43.10
ADRS-0279	2.79	0.1098	12	38	3	43.10
ADRS-0280	2.80	0.1102	12	38	3	39.30
ADRS-0281	2.81	0.1106	12	38	3	43.10
ADRS-0282	2.82	0.1110	12	38	3	43.10
ADRS-0283	2.83	0.1114	12	38	3	43.10
ADRS-0284	2.84	0.1118	12	38	3	43.10
ADRS-0285	2.85	0.1122	12	38	3	43.10
ADRS-0286	2.86	0.1126	12	38	3	43.10
ADRS-0287	2.87	0.1130	12	38	3	43.10
ADRS-0288	2.88	0.1134	12	38	3	43.10
ADRS-0289	2.89	0.1138	12	38	3	43.10
ADRS-0290	2.90	0.1142	12	38	3	39.30
ADRS-0291	2.91	0.1146	12	38	3	43.10
ADRS-0292	2.92	0.1150	12	38	3	43.10
ADRS-0293	2.93	0.1154	12	38	3	43.10
ADRS-0294	2.94	0.1157	12	38	3	43.10
ADRS-0295	2.95	0.1161	12	38	3	43.10
ADRS-0296	2.96	0.1165	12	38	3	43.10
ADRS-0297	2.97	0.1169	12	38	3	43.10
ADRS-0298	2.98	0.1173	12	38	3	43.10
ADRS-0299	2.99	0.1177	12	38	3	43.10
ADRS-0300	3.00	0.1181	12	38	3	39.30

Micro Drill, Regular Flute Length

ADR



- Precision drilling for micro holes (smallest diameter offering: $\varnothing 0.02\text{mm}$)
- High performance with non-ferrous materials, including aluminum and copper alloys and resin



Unit: mm

$\varnothing D$ Tolerance: +0~ -0.005

PRODUCT NUMBER	$\varnothing D$ mm	$\varnothing D$ inch	ℓ	L	d	Price USD
ADR-0002	0.02	0.0008	0.2	38	3	321.50
ADR-0003	0.03	0.0012	0.3	38	3	230.60
ADR-0004	0.04	0.0016	0.4	38	3	161.70
ADR-0005	0.05	0.0020	0.5	38	3	136.50
ADR-0006	0.06	0.0024	0.6	38	3	125.00
ADR-0007	0.07	0.0028	0.7	38	3	113.60
ADR-0008	0.08	0.0031	0.8	38	3	96.40
ADR-0009	0.09	0.0035	0.9	38	3	84.90
ADR-0010	0.10	0.0039	1.2	38	3	65.10
ADR-0011	0.11	0.0043	1.2	38	3	60.30
ADR-0012	0.12	0.0047	1.4	38	3	60.30
ADR-0013	0.13	0.0051	1.4	38	3	60.30
ADR-0014	0.14	0.0055	1.4	38	3	60.30
ADR-0015	0.15	0.0059	1.8	38	3	55.20
ADR-0016	0.16	0.0063	1.8	38	3	55.20
ADR-0017	0.17	0.0067	1.8	38	3	55.20
ADR-0018	0.18	0.0071	2.1	38	3	55.20
ADR-0019	0.19	0.0075	2.1	38	3	55.20
ADR-0020	0.20	0.0079	2.4	38	3	55.20
ADR-0021	0.21	0.0083	2.4	38	3	53.60
ADR-0022	0.22	0.0087	2.6	38	3	53.60
ADR-0023	0.23	0.0091	2.6	38	3	53.60
ADR-0024	0.24	0.0094	2.6	38	3	53.60
ADR-0025	0.25	0.0098	3	38	3	53.60
ADR-0026	0.26	0.0102	3	38	3	53.60
ADR-0027	0.27	0.0106	3	38	3	53.60
ADR-0028	0.28	0.0110	3.3	38	3	53.60
ADR-0029	0.29	0.0114	3.3	38	3	53.60
ADR-0030	0.30	0.0118	5	38	3	39.30
ADR-0031	0.31	0.0122	5	38	3	43.10
ADR-0032	0.32	0.0126	5	38	3	43.10

PRODUCT NUMBER	$\varnothing D$ mm	$\varnothing D$ inch	ℓ	L	d	Price USD
ADR-0033	0.33	0.0130	5	38	3	43.10
ADR-0034	0.34	0.0134	5	38	3	43.10
ADR-0035	0.35	0.0138	5	38	3	43.10
ADR-0036	0.36	0.0142	5	38	3	43.10
ADR-0037	0.37	0.0146	5	38	3	43.10
ADR-0038	0.38	0.0150	5	38	3	43.10
ADR-0039	0.39	0.0154	5	38	3	43.10
ADR-0040	0.40	0.0157	6	38	3	39.30
ADR-0041	0.41	0.0161	6	38	3	43.10
ADR-0042	0.42	0.0165	6	38	3	43.10
ADR-0043	0.43	0.0169	6	38	3	43.10
ADR-0044	0.44	0.0173	6	38	3	43.10
ADR-0045	0.45	0.0177	6	38	3	43.10
ADR-0046	0.46	0.0181	6	38	3	43.10
ADR-0047	0.47	0.0185	6	38	3	43.10
ADR-0048	0.48	0.0189	6	38	3	43.10
ADR-0049	0.49	0.0193	6	38	3	43.10
ADR-0050	0.50	0.0197	6	38	3	39.30
ADR-0051	0.51	0.0201	6	38	3	43.10
ADR-0052	0.52	0.0205	6	38	3	43.10
ADR-0053	0.53	0.0209	6	38	3	43.10
ADR-0054	0.54	0.0213	6	38	3	43.10
ADR-0055	0.55	0.0217	6	38	3	43.10
ADR-0056	0.56	0.0220	6	38	3	43.10
ADR-0057	0.57	0.0224	6	38	3	43.10
ADR-0058	0.58	0.0228	6	38	3	43.10
ADR-0059	0.59	0.0232	6	38	3	43.10
ADR-0060	0.60	0.0236	7	38	3	39.30
ADR-0061	0.61	0.0240	7	38	3	43.10
ADR-0062	0.62	0.0244	7	38	3	43.10
ADR-0063	0.63	0.0248	7	38	3	43.10

Unit: mm

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADR-0064	0.64	0.0252	7	38	3	43.10
ADR-0065	0.65	0.0256	7	38	3	43.10
ADR-0066	0.66	0.0260	7	38	3	43.10
ADR-0067	0.67	0.0264	7	38	3	43.10
ADR-0068	0.68	0.0268	7	38	3	43.10
ADR-0069	0.69	0.0272	7	38	3	43.10
ADR-0070	0.70	0.0276	8	38	3	39.30
ADR-0071	0.71	0.0280	8	38	3	43.10
ADR-0072	0.72	0.0283	8	38	3	43.10
ADR-0073	0.73	0.0287	8	38	3	43.10
ADR-0074	0.74	0.0291	8	38	3	43.10
ADR-0075	0.75	0.0295	8	38	3	43.10
ADR-0076	0.76	0.0299	8	38	3	43.10
ADR-0077	0.77	0.0303	8	38	3	43.10
ADR-0078	0.78	0.0307	8	38	3	43.10
ADR-0079	0.79	0.0311	8	38	3	43.10
ADR-0080	0.80	0.0315	8	38	3	39.30
ADR-0081	0.81	0.0319	8	38	3	43.10
ADR-0082	0.82	0.0323	8	38	3	43.10
ADR-0083	0.83	0.0327	8	38	3	43.10
ADR-0084	0.84	0.0331	8	38	3	43.10
ADR-0085	0.85	0.0335	8	38	3	43.10
ADR-0086	0.86	0.0339	8	38	3	43.10
ADR-0087	0.87	0.0343	8	38	3	43.10
ADR-0088	0.88	0.0346	8	38	3	43.10
ADR-0089	0.89	0.0350	8	38	3	43.10
ADR-0090	0.90	0.0354	8	38	3	39.30
ADR-0091	0.91	0.0358	8	38	3	43.10
ADR-0092	0.92	0.0362	8	38	3	43.10
ADR-0093	0.93	0.0366	8	38	3	43.10
ADR-0094	0.94	0.0370	8	38	3	43.10
ADR-0095	0.95	0.0374	8	38	3	43.10
ADR-0096	0.96	0.0378	8	38	3	43.10
ADR-0097	0.97	0.0382	8	38	3	43.10
ADR-0098	0.98	0.0386	8	38	3	43.10
ADR-0099	0.99	0.0390	8	38	3	43.10
ADR-0100	1.00	0.0394	10	38	3	39.30
ADR-0101	1.01	0.0398	10	38	3	43.10
ADR-0102	1.02	0.0402	10	38	3	43.10
ADR-0103	1.03	0.0406	10	38	3	43.10
ADR-0104	1.04	0.0409	10	38	3	43.10
ADR-0105	1.05	0.0413	10	38	3	43.10
ADR-0106	1.06	0.0417	10	38	3	43.10
ADR-0107	1.07	0.0421	10	38	3	43.10
ADR-0108	1.08	0.0425	10	38	3	43.10
ADR-0109	1.09	0.0429	10	38	3	43.10
ADR-0110	1.10	0.0433	10	38	3	39.30
ADR-0111	1.11	0.0437	10	38	3	43.10
ADR-0112	1.12	0.0441	10	38	3	43.10
ADR-0113	1.13	0.0445	10	38	3	43.10

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADR-0114	1.14	0.0449	10	38	3	43.10
ADR-0115	1.15	0.0453	10	38	3	43.10
ADR-0116	1.16	0.0457	10	38	3	43.10
ADR-0117	1.17	0.0461	10	38	3	43.10
ADR-0118	1.18	0.0465	10	38	3	43.10
ADR-0119	1.19	0.0469	10	38	3	43.10
ADR-0120	1.20	0.0472	10	38	3	39.30
ADR-0121	1.21	0.0476	10	38	3	43.10
ADR-0122	1.22	0.0480	10	38	3	43.10
ADR-0123	1.23	0.0484	10	38	3	43.10
ADR-0124	1.24	0.0488	10	38	3	43.10
ADR-0125	1.25	0.0492	10	38	3	43.10
ADR-0126	1.26	0.0496	10	38	3	43.10
ADR-0127	1.27	0.0500	10	38	3	43.10
ADR-0128	1.28	0.0504	10	38	3	43.10
ADR-0129	1.29	0.0508	10	38	3	43.10
ADR-0130	1.30	0.0512	10	38	3	39.30
ADR-0131	1.31	0.0516	10	38	3	43.10
ADR-0132	1.32	0.0520	10	38	3	43.10
ADR-0133	1.33	0.0524	10	38	3	43.10
ADR-0134	1.34	0.0528	10	38	3	43.10
ADR-0135	1.35	0.0531	10	38	3	43.10
ADR-0136	1.36	0.0535	10	38	3	43.10
ADR-0137	1.37	0.0539	10	38	3	43.10
ADR-0138	1.38	0.0543	10	38	3	43.10
ADR-0139	1.39	0.0547	10	38	3	43.10
ADR-0140	1.40	0.0551	10	38	3	39.30
ADR-0141	1.41	0.0555	10	38	3	43.10
ADR-0142	1.42	0.0559	10	38	3	43.10
ADR-0143	1.43	0.0563	10	38	3	43.10
ADR-0144	1.44	0.0567	10	38	3	43.10
ADR-0145	1.45	0.0571	10	38	3	43.10
ADR-0146	1.46	0.0575	10	38	3	43.10
ADR-0147	1.47	0.0579	10	38	3	43.10
ADR-0148	1.48	0.0583	10	38	3	43.10
ADR-0149	1.49	0.0587	10	38	3	43.10
ADR-0150	1.50	0.0591	10	38	3	39.30
ADR-0151	1.51	0.0594	10	38	3	43.10
ADR-0152	1.52	0.0598	10	38	3	43.10
ADR-0153	1.53	0.0602	10	38	3	43.10
ADR-0154	1.54	0.0606	10	38	3	43.10
ADR-0155	1.55	0.0610	10	38	3	43.10
ADR-0156	1.56	0.0614	10	38	3	43.10
ADR-0157	1.57	0.0618	10	38	3	43.10
ADR-0158	1.58	0.0622	10	38	3	43.10
ADR-0159	1.59	0.0626	10	38	3	43.10
ADR-0160	1.60	0.0630	22	50	3	39.30
ADR-0161	1.61	0.0634	22	50	3	43.10
ADR-0162	1.62	0.0638	22	50	3	43.10
ADR-0163	1.63	0.0642	22	50	3	43.10

Next Page ▶

Cutting Conditions P84

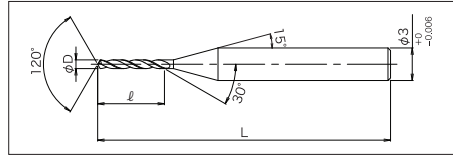
PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADR-0164	1.64	0.0646	22	50	3	43.10
ADR-0165	1.65	0.0650	22	50	3	43.10
ADR-0166	1.66	0.0654	22	50	3	43.10
ADR-0167	1.67	0.0657	22	50	3	43.10
ADR-0168	1.68	0.0661	22	50	3	43.10
ADR-0169	1.69	0.0665	22	50	3	43.10
ADR-0170	1.70	0.0669	22	50	3	39.30
ADR-0171	1.71	0.0673	22	50	3	43.10
ADR-0172	1.72	0.0677	22	50	3	43.10
ADR-0173	1.73	0.0681	22	50	3	43.10
ADR-0174	1.74	0.0685	22	50	3	43.10
ADR-0175	1.75	0.0689	22	50	3	43.10
ADR-0176	1.76	0.0693	22	50	3	43.10
ADR-0177	1.77	0.0697	22	50	3	43.10
ADR-0178	1.78	0.0701	22	50	3	43.10
ADR-0179	1.79	0.0705	22	50	3	43.10
ADR-0180	1.80	0.0709	22	50	3	39.30
ADR-0181	1.81	0.0713	22	50	3	43.10
ADR-0182	1.82	0.0717	22	50	3	43.10
ADR-0183	1.83	0.0720	22	50	3	43.10
ADR-0184	1.84	0.0724	22	50	3	43.10
ADR-0185	1.85	0.0728	22	50	3	43.10
ADR-0186	1.86	0.0732	22	50	3	43.10
ADR-0187	1.87	0.0736	22	50	3	43.10
ADR-0188	1.88	0.0740	22	50	3	43.10
ADR-0189	1.89	0.0744	22	50	3	43.10
ADR-0190	1.90	0.0748	22	50	3	39.30
ADR-0191	1.91	0.0752	22	50	3	43.10
ADR-0192	1.92	0.0756	22	50	3	43.10
ADR-0193	1.93	0.0760	22	50	3	43.10
ADR-0194	1.94	0.0764	22	50	3	43.10
ADR-0195	1.95	0.0768	22	50	3	43.10
ADR-0196	1.96	0.0772	22	50	3	43.10
ADR-0197	1.97	0.0776	22	50	3	43.10
ADR-0198	1.98	0.0780	22	50	3	43.10
ADR-0199	1.99	0.0783	22	50	3	43.10
ADR-0200	2.00	0.0787	22	50	3	39.30
ADR-0201	2.01	0.0791	22	50	3	43.10
ADR-0202	2.02	0.0795	22	50	3	43.10
ADR-0203	2.03	0.0799	22	50	3	43.10
ADR-0204	2.04	0.0803	22	50	3	43.10
ADR-0205	2.05	0.0807	22	50	3	43.10
ADR-0206	2.06	0.0811	22	50	3	43.10
ADR-0207	2.07	0.0815	22	50	3	43.10
ADR-0208	2.08	0.0819	22	50	3	43.10
ADR-0209	2.09	0.0823	22	50	3	43.10
ADR-0210	2.10	0.0827	22	50	3	39.30
ADR-0211	2.11	0.0831	22	50	3	43.10
ADR-0212	2.12	0.0835	22	50	3	43.10
ADR-0213	2.13	0.0839	22	50	3	43.10

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADR-0214	2.14	0.0843	22	50	3	43.10
ADR-0215	2.15	0.0846	22	50	3	43.10
ADR-0216	2.16	0.0850	22	50	3	43.10
ADR-0217	2.17	0.0854	22	50	3	43.10
ADR-0218	2.18	0.0858	22	50	3	43.10
ADR-0219	2.19	0.0862	22	50	3	43.10
ADR-0220	2.20	0.0866	22	50	3	39.30
ADR-0221	2.21	0.0870	22	50	3	43.10
ADR-0222	2.22	0.0874	22	50	3	43.10
ADR-0223	2.23	0.0878	22	50	3	43.10
ADR-0224	2.24	0.0882	22	50	3	43.10
ADR-0225	2.25	0.0886	22	50	3	43.10
ADR-0226	2.26	0.0890	22	50	3	43.10
ADR-0227	2.27	0.0894	22	50	3	43.10
ADR-0228	2.28	0.0898	22	50	3	43.10
ADR-0229	2.29	0.0902	22	50	3	43.10
ADR-0230	2.30	0.0906	22	50	3	39.30
ADR-0231	2.31	0.0909	22	50	3	43.10
ADR-0232	2.32	0.0913	22	50	3	43.10
ADR-0233	2.33	0.0917	22	50	3	43.10
ADR-0234	2.34	0.0921	22	50	3	43.10
ADR-0235	2.35	0.0925	22	50	3	43.10
ADR-0236	2.36	0.0929	22	50	3	43.10
ADR-0237	2.37	0.0933	22	50	3	43.10
ADR-0238	2.38	0.0937	22	50	3	43.10
ADR-0239	2.39	0.0941	22	50	3	43.10
ADR-0240	2.40	0.0945	22	50	3	39.30
ADR-0241	2.41	0.0949	22	50	3	43.10
ADR-0242	2.42	0.0953	22	50	3	43.10
ADR-0243	2.43	0.0957	22	50	3	43.10
ADR-0244	2.44	0.0961	22	50	3	43.10
ADR-0245	2.45	0.0965	22	50	3	43.10
ADR-0246	2.46	0.0969	22	50	3	43.10
ADR-0247	2.47	0.0972	22	50	3	43.10
ADR-0248	2.48	0.0976	22	50	3	43.10
ADR-0249	2.49	0.0980	22	50	3	43.10
ADR-0250	2.50	0.0984	22	50	3	39.30
ADR-0251	2.51	0.0988	22	50	3	43.10
ADR-0252	2.52	0.0992	22	50	3	43.10
ADR-0253	2.53	0.0996	22	50	3	43.10
ADR-0254	2.54	0.1000	22	50	3	43.10
ADR-0255	2.55	0.1004	22	50	3	43.10
ADR-0256	2.56	0.1008	22	50	3	43.10
ADR-0257	2.57	0.1012	22	50	3	43.10
ADR-0258	2.58	0.1016	22	50	3	43.10
ADR-0259	2.59	0.1020	22	50	3	43.10
ADR-0260	2.60	0.1024	22	50	3	39.30
ADR-0261	2.61	0.1028	22	50	3	43.10
ADR-0262	2.62	0.1031	22	50	3	43.10
ADR-0263	2.63	0.1035	22	50	3	43.10

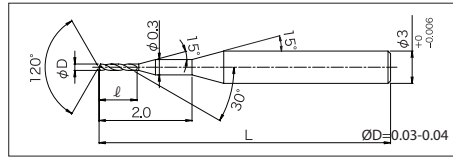
PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADR-0264	2.64	0.1039	22	50	3	43.10
ADR-0265	2.65	0.1043	22	50	3	43.10
ADR-0266	2.66	0.1047	22	50	3	43.10
ADR-0267	2.67	0.1051	22	50	3	43.10
ADR-0268	2.68	0.1055	22	50	3	43.10
ADR-0269	2.69	0.1059	22	50	3	43.10
ADR-0270	2.70	0.1063	25	50	3	39.30
ADR-0271	2.71	0.1067	25	50	3	43.10
ADR-0272	2.72	0.1071	25	50	3	43.10
ADR-0273	2.73	0.1075	25	50	3	43.10
ADR-0274	2.74	0.1079	25	50	3	43.10
ADR-0275	2.75	0.1083	25	50	3	43.10
ADR-0276	2.76	0.1087	25	50	3	43.10
ADR-0277	2.77	0.1091	25	50	3	43.10
ADR-0278	2.78	0.1094	25	50	3	43.10
ADR-0279	2.79	0.1098	25	50	3	43.10
ADR-0280	2.80	0.1102	25	50	3	39.30
ADR-0281	2.81	0.1106	25	50	3	43.10
ADR-0282	2.82	0.1110	25	50	3	43.10
ADR-0283	2.83	0.1114	25	50	3	43.10
ADR-0284	2.84	0.1118	25	50	3	43.10
ADR-0285	2.85	0.1122	25	50	3	43.10
ADR-0286	2.86	0.1126	25	50	3	43.10
ADR-0287	2.87	0.1130	25	50	3	43.10
ADR-0288	2.88	0.1134	25	50	3	43.10
ADR-0289	2.89	0.1138	25	50	3	43.10
ADR-0290	2.90	0.1142	25	50	3	39.30
ADR-0291	2.91	0.1146	25	50	3	43.10
ADR-0292	2.92	0.1150	25	50	3	43.10
ADR-0293	2.93	0.1154	25	50	3	43.10
ADR-0294	2.94	0.1157	25	50	3	43.10
ADR-0295	2.95	0.1161	25	50	3	43.10
ADR-0296	2.96	0.1165	25	50	3	43.10
ADR-0297	2.97	0.1169	25	50	3	43.10
ADR-0298	2.98	0.1173	25	50	3	43.10
ADR-0299	2.99	0.1177	25	50	3	43.10
ADR-0300	3.00	0.1181	25	50	3	39.30

Micro Drill, Semi Long Flute Length

ADRSL



- Precision drilling for semi long micro holes (smallest diameter offering: $\phi 0.03\text{mm}$)
- High performance with non-ferrous materials, including aluminum and copper alloys and resin



ØD Tolerance: +0~ -0.005

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRSL-0003	0.03	0.0012	0.5	38	3	240.20
ADRSL-0004	0.04	0.0016	0.6	38	3	175.10
ADRSL-0005	0.05	0.0020	0.8	38	3	150.90
ADRSL-0006	0.06	0.0024	0.8	38	3	132.70
ADRSL-0007	0.07	0.0028	1.1	38	3	122.20
ADRSL-0008	0.08	0.0031	1.2	38	3	105.00
ADRSL-0009	0.09	0.0035	1.2	38	3	92.50
ADRSL-0010	0.10	0.0039	1.9	38	3	67.00
ADRSL-0011	0.11	0.0043	1.9	38	3	62.20
ADRSL-0012	0.12	0.0047	2.2	38	3	62.20
ADRSL-0013	0.13	0.0051	2.2	38	3	62.20
ADRSL-0014	0.14	0.0055	2.2	38	3	62.20
ADRSL-0015	0.15	0.0059	2.9	38	3	57.10
ADRSL-0016	0.16	0.0063	2.9	38	3	57.10
ADRSL-0017	0.17	0.0067	3.2	38	3	57.10
ADRSL-0018	0.18	0.0071	3.3	38	3	57.10
ADRSL-0019	0.19	0.0075	3.3	38	3	57.10
ADRSL-0020	0.20	0.0079	4	38	3	57.10
ADRSL-0021	0.21	0.0083	4	38	3	56.50
ADRSL-0022	0.22	0.0087	4.3	38	3	56.50
ADRSL-0023	0.23	0.0091	4.3	38	3	56.50
ADRSL-0024	0.24	0.0094	4.3	38	3	56.50
ADRSL-0025	0.25	0.0098	5	38	3	56.50
ADRSL-0026	0.26	0.0102	5	38	3	56.50
ADRSL-0027	0.27	0.0106	5	38	3	56.50
ADRSL-0028	0.28	0.0110	5.2	38	3	56.50
ADRSL-0029	0.29	0.0114	5.2	38	3	56.50
ADRSL-0030	0.30	0.0118	7	38	3	46.90
ADRSL-0031	0.31	0.0122	7	38	3	48.80
ADRSL-0032	0.32	0.0126	7	38	3	48.80
ADRSL-0033	0.33	0.0130	7	38	3	48.80



Unit: mm

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRSL-0034	0.34	0.0134	7	38	3	48.80
ADRSL-0035	0.35	0.0138	7	38	3	48.80
ADRSL-0036	0.36	0.0142	7	38	3	48.80
ADRSL-0037	0.37	0.0146	7	38	3	48.80
ADRSL-0038	0.38	0.0150	7	38	3	48.80
ADRSL-0039	0.39	0.0154	7	38	3	48.80
ADRSL-0040	0.40	0.0157	9	38	3	46.90
ADRSL-0041	0.41	0.0161	9	38	3	48.80
ADRSL-0042	0.42	0.0165	9	38	3	48.80
ADRSL-0043	0.43	0.0169	9	38	3	48.80
ADRSL-0044	0.44	0.0173	9	38	3	48.80
ADRSL-0045	0.45	0.0177	9	38	3	48.80
ADRSL-0046	0.46	0.0181	9	38	3	48.80
ADRSL-0047	0.47	0.0185	9	38	3	48.80
ADRSL-0048	0.48	0.0189	9	38	3	48.80
ADRSL-0049	0.49	0.0193	9	38	3	48.80
ADRSL-0050	0.50	0.0197	9	38	3	46.90
ADRSL-0051	0.51	0.0201	9	38	3	48.80
ADRSL-0052	0.52	0.0205	9	38	3	48.80
ADRSL-0053	0.53	0.0209	9	38	3	48.80
ADRSL-0054	0.54	0.0213	9	38	3	48.80
ADRSL-0055	0.55	0.0217	9	38	3	48.80
ADRSL-0056	0.56	0.0220	9	38	3	48.80
ADRSL-0057	0.57	0.0224	9	38	3	48.80
ADRSL-0058	0.58	0.0228	9	38	3	48.80
ADRSL-0059	0.59	0.0232	9	38	3	48.80
ADRSL-0060	0.60	0.0236	11	38	3	46.90
ADRSL-0061	0.61	0.0240	11	38	3	48.80
ADRSL-0062	0.62	0.0244	11	38	3	48.80
ADRSL-0063	0.63	0.0248	11	38	3	48.80
ADRSL-0064	0.64	0.0252	11	38	3	48.80

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRSL-0065	0.65	0.0256	11	38	3	48.80
ADRSL-0066	0.66	0.0260	11	38	3	48.80
ADRSL-0067	0.67	0.0264	11	38	3	48.80
ADRSL-0068	0.68	0.0268	11	38	3	48.80
ADRSL-0069	0.69	0.0272	11	38	3	48.80
ADRSL-0070	0.70	0.0276	11	38	3	46.90
ADRSL-0071	0.71	0.0280	11	38	3	48.80
ADRSL-0072	0.72	0.0283	11	38	3	48.80
ADRSL-0073	0.73	0.0287	11	38	3	48.80
ADRSL-0074	0.74	0.0291	11	38	3	48.80
ADRSL-0075	0.75	0.0295	11	38	3	48.80
ADRSL-0076	0.76	0.0299	11	38	3	48.80
ADRSL-0077	0.77	0.0303	11	38	3	48.80
ADRSL-0078	0.78	0.0307	11	38	3	48.80
ADRSL-0079	0.79	0.0311	11	38	3	48.80
ADRSL-0080	0.80	0.0315	11	38	3	46.90
ADRSL-0081	0.81	0.0319	11	38	3	48.80
ADRSL-0082	0.82	0.0323	11	38	3	48.80
ADRSL-0083	0.83	0.0327	11	38	3	48.80
ADRSL-0084	0.84	0.0331	11	38	3	48.80
ADRSL-0085	0.85	0.0335	11	38	3	48.80
ADRSL-0086	0.86	0.0339	11	38	3	48.80
ADRSL-0087	0.87	0.0343	11	38	3	48.80
ADRSL-0088	0.88	0.0346	11	38	3	48.80
ADRSL-0089	0.89	0.0350	11	38	3	48.80
ADRSL-0090	0.90	0.0354	11	38	3	46.90
ADRSL-0091	0.91	0.0358	11	38	3	48.80
ADRSL-0092	0.92	0.0362	11	38	3	48.80
ADRSL-0093	0.93	0.0366	11	38	3	48.80
ADRSL-0094	0.94	0.0370	11	38	3	48.80
ADRSL-0095	0.95	0.0374	11	38	3	48.80
ADRSL-0096	0.96	0.0378	11	38	3	48.80
ADRSL-0097	0.97	0.0382	11	38	3	48.80
ADRSL-0098	0.98	0.0386	11	38	3	48.80
ADRSL-0099	0.99	0.0390	11	38	3	48.80
ADRSL-0100	1.00	0.0394	15	45	3	46.90
ADRSL-0105	1.05	0.0413	15	45	3	48.80
ADRSL-0110	1.10	0.0433	15	45	3	46.90
ADRSL-0115	1.15	0.0453	15	45	3	48.80
ADRSL-0120	1.20	0.0472	15	45	3	46.90
ADRSL-0125	1.25	0.0492	15	45	3	48.80
ADRSL-0130	1.30	0.0512	18	45	3	46.90
ADRSL-0135	1.35	0.0531	18	45	3	48.80
ADRSL-0140	1.40	0.0551	18	45	3	46.90
ADRSL-0145	1.45	0.0571	18	45	3	48.80
ADRSL-0150	1.50	0.0591	18	45	3	46.90
ADRSL-0155	1.55	0.0610	18	45	3	48.80
ADRSL-0160	1.60	0.0630	27	60	3	52.30
ADRSL-0165	1.65	0.0650	27	60	3	54.30
ADRSL-0170	1.70	0.0669	27	60	3	52.30

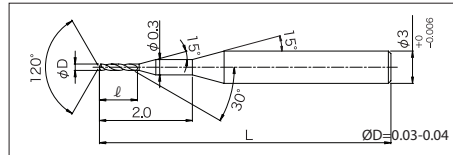
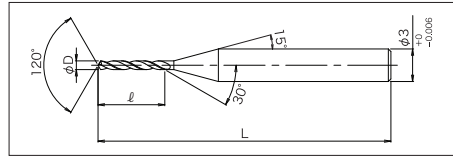
PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRSL-0175	1.75	0.0689	27	60	3	54.30
ADRSL-0180	1.80	0.0709	27	60	3	52.30
ADRSL-0185	1.85	0.0728	27	60	3	54.30
ADRSL-0190	1.90	0.0748	27	60	3	52.30
ADRSL-0195	1.95	0.0768	27	60	3	54.30
ADRSL-0200	2.00	0.0787	27	60	3	52.30
ADRSL-0250	2.50	0.0984	27	60	3	52.30
ADRSL-0300	3.00	0.1181	33	60	3	52.30

Micro Drill, Long Flute Length

ADRL



- Precision drilling for long micro holes (smallest diameter offering: $\varnothing 0.03\text{mm}$)
- High performance with non-ferrous materials, including aluminum and copper alloys and resin



Unit: mm

ØD Tolerance: +0~-0.005

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-0003	0.03	0.0012	0.6	38	3	249.70
ADRL-0004	0.04	0.0016	0.8	38	3	188.50
ADRL-0005	0.05	0.0020	1.0	38	3	165.20
ADRL-0006	0.06	0.0024	1.2	38	3	148.00
ADRL-0007	0.07	0.0028	1.4	38	3	130.80
ADRL-0008	0.08	0.0031	1.6	38	3	113.60
ADRL-0009	0.09	0.0035	1.8	38	3	107.80
ADRL-0010	0.10	0.0039	2.5	38	3	68.90
ADRL-0011	0.11	0.0043	2.5	38	3	64.10
ADRL-0012	0.12	0.0047	3	38	3	64.10
ADRL-0013	0.13	0.0051	3	38	3	64.10
ADRL-0014	0.14	0.0055	3	38	3	64.10
ADRL-0015	0.15	0.0059	4	38	3	59.00
ADRL-0016	0.16	0.0063	4	38	3	59.00
ADRL-0017	0.17	0.0067	4.5	38	3	59.00
ADRL-0018	0.18	0.0071	4.5	38	3	59.00
ADRL-0019	0.19	0.0075	4.5	38	3	59.00
ADRL-0020	0.20	0.0079	6	38	3	59.00
ADRL-0021	0.21	0.0083	6	38	3	59.00
ADRL-0022	0.22	0.0087	6	38	3	59.00
ADRL-0023	0.23	0.0091	6	38	3	59.00
ADRL-0024	0.24	0.0094	6	38	3	59.00
ADRL-0025	0.25	0.0098	7	38	3	59.00
ADRL-0026	0.26	0.0102	7	38	3	59.00
ADRL-0027	0.27	0.0106	7	38	3	59.00
ADRL-0028	0.28	0.0110	7	38	3	59.00
ADRL-0029	0.29	0.0114	7	38	3	59.00
ADRL-0030	0.30	0.0118	9	45	3	54.60
ADRL-0031	0.31	0.0122	9	45	3	54.60
ADRL-0032	0.32	0.0126	9	45	3	54.60
ADRL-0033	0.33	0.0130	9	45	3	54.60

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-0034	0.34	0.0134	9	45	3	54.60
ADRL-0035	0.35	0.0138	10	45	3	54.60
ADRL-0036	0.36	0.0142	10	45	3	54.60
ADRL-0037	0.37	0.0146	10	45	3	54.60
ADRL-0038	0.38	0.0150	10	45	3	54.60
ADRL-0039	0.39	0.0154	10	45	3	54.60
ADRL-0040	0.40	0.0157	12	45	3	54.60
ADRL-0041	0.41	0.0161	12	45	3	54.60
ADRL-0042	0.42	0.0165	12	45	3	54.60
ADRL-0043	0.43	0.0169	12	45	3	54.60
ADRL-0044	0.44	0.0173	12	45	3	54.60
ADRL-0045	0.45	0.0177	12	45	3	54.60
ADRL-0046	0.46	0.0181	12	45	3	54.60
ADRL-0047	0.47	0.0185	12	45	3	54.60
ADRL-0048	0.48	0.0189	12	45	3	54.60
ADRL-0049	0.49	0.0193	12	45	3	54.60
ADRL-0050	0.50	0.0197	12	45	3	54.60
ADRL-0051	0.51	0.0201	12	45	3	54.60
ADRL-0052	0.52	0.0205	12	45	3	54.60
ADRL-0053	0.53	0.0209	12	45	3	54.60
ADRL-0054	0.54	0.0213	12	45	3	54.60
ADRL-0055	0.55	0.0217	12	45	3	54.60
ADRL-0056	0.56	0.0220	12	45	3	54.60
ADRL-0057	0.57	0.0224	12	45	3	54.60
ADRL-0058	0.58	0.0228	12	45	3	54.60
ADRL-0059	0.59	0.0232	12	45	3	54.60
ADRL-0060	0.60	0.0236	15	45	3	54.60
ADRL-0061	0.61	0.0240	15	45	3	54.60
ADRL-0062	0.62	0.0244	15	45	3	54.60
ADRL-0063	0.63	0.0248	15	45	3	54.60
ADRL-0064	0.64	0.0252	15	45	3	54.60

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-0065	0.65	0.0256	15	45	3	54.60
ADRL-0066	0.66	0.0260	15	45	3	54.60
ADRL-0067	0.67	0.0264	15	45	3	54.60
ADRL-0068	0.68	0.0268	15	45	3	54.60
ADRL-0069	0.69	0.0272	15	45	3	54.60
ADRL-0070	0.70	0.0276	15	45	3	54.60
ADRL-0071	0.71	0.0280	15	45	3	54.60
ADRL-0072	0.72	0.0283	15	45	3	54.60
ADRL-0073	0.73	0.0287	15	45	3	54.60
ADRL-0074	0.74	0.0291	15	45	3	54.60
ADRL-0075	0.75	0.0295	15	45	3	54.60
ADRL-0076	0.76	0.0299	15	45	3	54.60
ADRL-0077	0.77	0.0303	15	45	3	54.60
ADRL-0078	0.78	0.0307	15	45	3	54.60
ADRL-0079	0.79	0.0311	15	45	3	54.60
ADRL-0080	0.80	0.0315	15	45	3	54.60
ADRL-0081	0.81	0.0319	15	45	3	54.60
ADRL-0082	0.82	0.0323	15	45	3	54.60
ADRL-0083	0.83	0.0327	15	45	3	54.60
ADRL-0084	0.84	0.0331	15	45	3	54.60
ADRL-0085	0.85	0.0335	15	45	3	54.60
ADRL-0086	0.86	0.0339	15	45	3	54.60
ADRL-0087	0.87	0.0343	15	45	3	54.60
ADRL-0088	0.88	0.0346	15	45	3	54.60
ADRL-0089	0.89	0.0350	15	45	3	54.60
ADRL-0090	0.90	0.0354	15	45	3	54.60
ADRL-0091	0.91	0.0358	15	45	3	54.60
ADRL-0092	0.92	0.0362	15	45	3	54.60
ADRL-0093	0.93	0.0366	15	45	3	54.60
ADRL-0094	0.94	0.0370	15	45	3	54.60
ADRL-0095	0.95	0.0374	15	45	3	54.60
ADRL-0096	0.96	0.0378	15	45	3	54.60
ADRL-0097	0.97	0.0382	15	45	3	54.60
ADRL-0098	0.98	0.0386	15	45	3	54.60
ADRL-0099	0.99	0.0390	15	45	3	54.60
ADRL-0100	1.00	0.0394	20	50	3	54.60
ADRL-0101	1.01	0.0398	20	50	3	54.60
ADRL-0102	1.02	0.0402	20	50	3	54.60
ADRL-0103	1.03	0.0406	20	50	3	54.60
ADRL-0104	1.04	0.0409	20	50	3	54.60
ADRL-0105	1.05	0.0413	20	50	3	54.60
ADRL-0106	1.06	0.0417	20	50	3	54.60
ADRL-0107	1.07	0.0421	20	50	3	54.60
ADRL-0108	1.08	0.0425	20	50	3	54.60
ADRL-0109	1.09	0.0429	20	50	3	54.60
ADRL-0110	1.10	0.0433	20	50	3	54.60
ADRL-0111	1.11	0.0437	20	50	3	54.60
ADRL-0112	1.12	0.0441	20	50	3	54.60
ADRL-0113	1.13	0.0445	20	50	3	54.60
ADRL-0114	1.14	0.0449	20	50	3	54.60

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-0115	1.15	0.0453	20	50	3	54.60
ADRL-0116	1.16	0.0457	20	50	3	54.60
ADRL-0117	1.17	0.0461	20	50	3	54.60
ADRL-0118	1.18	0.0465	20	50	3	54.60
ADRL-0119	1.19	0.0469	20	50	3	54.60
ADRL-0120	1.20	0.0472	20	50	3	54.60
ADRL-0121	1.21	0.0476	20	50	3	54.60
ADRL-0122	1.22	0.0480	20	50	3	54.60
ADRL-0123	1.23	0.0484	20	50	3	54.60
ADRL-0124	1.24	0.0488	20	50	3	54.60
ADRL-0125	1.25	0.0492	20	50	3	54.60
ADRL-0126	1.26	0.0496	20	50	3	54.60
ADRL-0127	1.27	0.0500	20	50	3	54.60
ADRL-0128	1.28	0.0504	20	50	3	54.60
ADRL-0129	1.29	0.0508	20	50	3	54.60
ADRL-0130	1.30	0.0512	25	60	3	54.90
ADRL-0131	1.31	0.0516	25	60	3	54.90
ADRL-0132	1.32	0.0520	25	60	3	54.90
ADRL-0133	1.33	0.0524	25	60	3	54.90
ADRL-0134	1.34	0.0528	25	60	3	54.90
ADRL-0135	1.35	0.0531	25	60	3	54.90
ADRL-0136	1.36	0.0535	25	60	3	54.90
ADRL-0137	1.37	0.0539	25	60	3	54.90
ADRL-0138	1.38	0.0543	25	60	3	54.90
ADRL-0139	1.39	0.0547	25	60	3	54.90
ADRL-0140	1.40	0.0551	25	60	3	54.90
ADRL-0141	1.41	0.0555	25	60	3	54.90
ADRL-0142	1.42	0.0559	25	60	3	54.90
ADRL-0143	1.43	0.0563	25	60	3	54.90
ADRL-0144	1.44	0.0567	25	60	3	54.90
ADRL-0145	1.45	0.0571	25	60	3	54.90
ADRL-0146	1.46	0.0575	25	60	3	54.90
ADRL-0147	1.47	0.0579	25	60	3	54.90
ADRL-0148	1.48	0.0583	25	60	3	54.90
ADRL-0149	1.49	0.0587	25	60	3	54.90
ADRL-0150	1.50	0.0591	25	60	3	54.90
ADRL-0151	1.51	0.0594	25	60	3	54.90
ADRL-0152	1.52	0.0598	25	60	3	54.90
ADRL-0153	1.53	0.0602	25	60	3	54.90
ADRL-0154	1.54	0.0606	25	60	3	54.90
ADRL-0155	1.55	0.0610	25	60	3	54.90
ADRL-0156	1.56	0.0614	25	60	3	54.90
ADRL-0157	1.57	0.0618	25	60	3	54.90
ADRL-0158	1.58	0.0622	25	60	3	54.90
ADRL-0159	1.59	0.0626	25	60	3	54.90
ADRL-0160	1.60	0.0630	32	60	3	64.80
ADRL-0161	1.61	0.0634	32	60	3	64.80
ADRL-0162	1.62	0.0638	32	60	3	64.80
ADRL-0163	1.63	0.0642	32	60	3	64.80
ADRL-0164	1.64	0.0646	32	60	3	64.80

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-0165	1.65	0.0650	32	60	3	64.80
ADRL-0166	1.66	0.0654	32	60	3	64.80
ADRL-0167	1.67	0.0657	32	60	3	64.80
ADRL-0168	1.68	0.0661	32	60	3	64.80
ADRL-0169	1.69	0.0665	32	60	3	64.80
ADRL-0170	1.70	0.0669	32	60	3	64.80
ADRL-0171	1.71	0.0673	32	60	3	64.80
ADRL-0172	1.72	0.0677	32	60	3	64.80
ADRL-0173	1.73	0.0681	32	60	3	64.80
ADRL-0174	1.74	0.0685	32	60	3	64.80
ADRL-0175	1.75	0.0689	32	60	3	64.80
ADRL-0176	1.76	0.0693	32	60	3	64.80
ADRL-0177	1.77	0.0697	32	60	3	64.80
ADRL-0178	1.78	0.0701	32	60	3	64.80
ADRL-0179	1.79	0.0705	32	60	3	64.80
ADRL-0180	1.80	0.0709	32	60	3	64.80
ADRL-0181	1.81	0.0713	32	60	3	64.80
ADRL-0182	1.82	0.0717	32	60	3	64.80
ADRL-0183	1.83	0.0720	32	60	3	64.80
ADRL-0184	1.84	0.0724	32	60	3	64.80
ADRL-0185	1.85	0.0728	32	60	3	64.80
ADRL-0186	1.86	0.0732	32	60	3	64.80
ADRL-0187	1.87	0.0736	32	60	3	64.80
ADRL-0188	1.88	0.0740	32	60	3	64.80
ADRL-0189	1.89	0.0744	32	60	3	64.80
ADRL-0190	1.90	0.0748	32	60	3	64.80
ADRL-0191	1.91	0.0752	32	60	3	64.80
ADRL-0192	1.92	0.0756	32	60	3	64.80
ADRL-0193	1.93	0.0760	32	60	3	64.80
ADRL-0194	1.94	0.0764	32	60	3	64.80
ADRL-0195	1.95	0.0768	32	60	3	64.80
ADRL-0196	1.96	0.0772	32	60	3	64.80
ADRL-0197	1.97	0.0776	32	60	3	64.80
ADRL-0198	1.98	0.0780	32	60	3	64.80
ADRL-0199	1.99	0.0783	32	60	3	64.80
ADRL-0200	2.00	0.0787	32	60	3	64.80
ADRL-0201	2.01	0.0791	32	60	3	64.80
ADRL-0202	2.02	0.0795	32	60	3	64.80
ADRL-0203	2.03	0.0799	32	60	3	64.80
ADRL-0204	2.04	0.0803	32	60	3	64.80
ADRL-0205	2.05	0.0807	32	60	3	64.80
ADRL-0206	2.06	0.0811	32	60	3	64.80
ADRL-0207	2.07	0.0815	32	60	3	64.80
ADRL-0208	2.08	0.0819	32	60	3	64.80
ADRL-0209	2.09	0.0823	32	60	3	64.80
ADRL-0210	2.10	0.0827	32	60	3	64.80
ADRL-0211	2.11	0.0831	32	60	3	64.80
ADRL-0212	2.12	0.0835	32	60	3	64.80
ADRL-0213	2.13	0.0839	32	60	3	64.80
ADRL-0214	2.14	0.0843	32	60	3	64.80

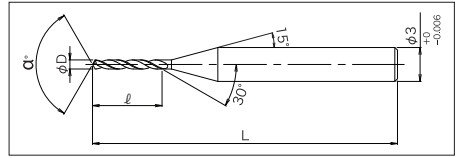
PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-0215	2.15	0.0846	32	60	3	64.80
ADRL-0216	2.16	0.0850	32	60	3	64.80
ADRL-0217	2.17	0.0854	32	60	3	64.80
ADRL-0218	2.18	0.0858	32	60	3	64.80
ADRL-0219	2.19	0.0862	32	60	3	64.80
ADRL-0220	2.20	0.0866	32	60	3	64.80
ADRL-0221	2.21	0.0870	32	60	3	64.80
ADRL-0222	2.22	0.0874	32	60	3	64.80
ADRL-0223	2.23	0.0878	32	60	3	64.80
ADRL-0224	2.24	0.0882	32	60	3	64.80
ADRL-0225	2.25	0.0886	32	60	3	64.80
ADRL-0226	2.26	0.0890	32	60	3	64.80
ADRL-0227	2.27	0.0894	32	60	3	64.80
ADRL-0228	2.28	0.0898	32	60	3	64.80
ADRL-0229	2.29	0.0902	32	60	3	64.80
ADRL-0230	2.30	0.0906	32	60	3	64.80
ADRL-0231	2.31	0.0909	32	60	3	64.80
ADRL-0232	2.32	0.0913	32	60	3	64.80
ADRL-0233	2.33	0.0917	32	60	3	64.80
ADRL-0234	2.34	0.0921	32	60	3	64.80
ADRL-0235	2.35	0.0925	32	60	3	64.80
ADRL-0236	2.36	0.0929	32	60	3	64.80
ADRL-0237	2.37	0.0933	32	60	3	64.80
ADRL-0238	2.38	0.0937	32	60	3	64.80
ADRL-0239	2.39	0.0941	32	60	3	64.80
ADRL-0240	2.40	0.0945	32	60	3	64.80
ADRL-0241	2.41	0.0949	32	60	3	64.80
ADRL-0242	2.42	0.0953	32	60	3	64.80
ADRL-0243	2.43	0.0957	32	60	3	64.80
ADRL-0244	2.44	0.0961	32	60	3	64.80
ADRL-0245	2.45	0.0965	32	60	3	64.80
ADRL-0246	2.46	0.0969	32	60	3	64.80
ADRL-0247	2.47	0.0972	32	60	3	64.80
ADRL-0248	2.48	0.0976	32	60	3	64.80
ADRL-0249	2.49	0.0980	32	60	3	64.80
ADRL-0250	2.50	0.0984	32	60	3	64.80
ADRL-0251	2.51	0.0988	32	60	3	64.80
ADRL-0252	2.52	0.0992	32	60	3	64.80
ADRL-0253	2.53	0.0996	32	60	3	64.80
ADRL-0254	2.54	0.1000	32	60	3	64.80
ADRL-0255	2.55	0.1004	32	60	3	64.80
ADRL-0256	2.56	0.1008	32	60	3	64.80
ADRL-0257	2.57	0.1012	32	60	3	64.80
ADRL-0258	2.58	0.1016	32	60	3	64.80
ADRL-0259	2.59	0.1020	32	60	3	64.80
ADRL-0260	2.60	0.1024	32	60	3	64.80
ADRL-0261	2.61	0.1028	32	60	3	64.80
ADRL-0262	2.62	0.1031	32	60	3	64.80
ADRL-0263	2.63	0.1035	32	60	3	64.80
ADRL-0264	2.64	0.1039	32	60	3	64.80

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-0265	2.65	0.1043	32	60	3	64.80
ADRL-0266	2.66	0.1047	32	60	3	64.80
ADRL-0267	2.67	0.1051	32	60	3	64.80
ADRL-0268	2.68	0.1055	32	60	3	64.80
ADRL-0269	2.69	0.1059	32	60	3	64.80
ADRL-0270	2.70	0.1063	40	65	3	64.80
ADRL-0271	2.71	0.1067	40	65	3	64.80
ADRL-0272	2.72	0.1071	40	65	3	64.80
ADRL-0273	2.73	0.1075	40	65	3	64.80
ADRL-0274	2.74	0.1079	40	65	3	64.80
ADRL-0275	2.75	0.1083	40	65	3	64.80
ADRL-0276	2.76	0.1087	40	65	3	64.80
ADRL-0277	2.77	0.1091	40	65	3	64.80
ADRL-0278	2.78	0.1094	40	65	3	64.80
ADRL-0279	2.79	0.1098	40	65	3	64.80
ADRL-0280	2.80	0.1102	40	65	3	64.80
ADRL-0281	2.81	0.1106	40	65	3	64.80
ADRL-0282	2.82	0.1110	40	65	3	64.80
ADRL-0283	2.83	0.1114	40	65	3	64.80
ADRL-0284	2.84	0.1118	40	65	3	64.80
ADRL-0285	2.85	0.1122	40	65	3	64.80
ADRL-0286	2.86	0.1126	40	65	3	64.80
ADRL-0287	2.87	0.1130	40	65	3	64.80
ADRL-0288	2.88	0.1134	40	65	3	64.80
ADRL-0289	2.89	0.1138	40	65	3	64.80
ADRL-0290	2.90	0.1142	40	65	3	64.80
ADRL-0291	2.91	0.1146	40	65	3	64.80
ADRL-0292	2.92	0.1150	40	65	3	64.80
ADRL-0293	2.93	0.1154	40	65	3	64.80
ADRL-0294	2.94	0.1157	40	65	3	64.80
ADRL-0295	2.95	0.1161	40	65	3	64.80
ADRL-0296	2.96	0.1165	40	65	3	64.80
ADRL-0297	2.97	0.1169	40	65	3	64.80
ADRL-0298	2.98	0.1173	40	65	3	64.80
ADRL-0299	2.99	0.1177	40	65	3	64.80
ADRL-0300	3.00	0.1181	40	65	3	57.10

Micro Drill "SV" Series, Short Flute Length

ADRS-SV

FCS Coating



ØD < 1.6: α = 120° ØD ≥ 1.6: α = 135°

- FCS coated for longer tool life
- High performance with a variety of materials, including carbon steels, stainless steels (300 series and PH stainless), titanium alloys, and hardened steels up to 50 HRC



ØD Tolerance: +0 ~ -0.005

Unit: mm

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRS-SV-0010	0.10	0.0039	0.6	38	3	71.80
ADRS-SV-0011	0.11	0.0043	0.6	38	3	68.30
ADRS-SV-0012	0.12	0.0047	0.6	38	3	68.30
ADRS-SV-0013	0.13	0.0051	0.6	38	3	68.30
ADRS-SV-0014	0.14	0.0055	0.6	38	3	68.30
ADRS-SV-0015	0.15	0.0059	0.8	38	3	68.30
ADRS-SV-0016	0.16	0.0063	0.8	38	3	68.30
ADRS-SV-0017	0.17	0.0067	0.8	38	3	71.80
ADRS-SV-0018	0.18	0.0071	1	38	3	64.80
ADRS-SV-0019	0.19	0.0075	1	38	3	64.80
ADRS-SV-0020	0.20	0.0079	1	38	3	64.80
ADRS-SV-0021	0.21	0.0083	1	38	3	61.90
ADRS-SV-0022	0.22	0.0087	1.2	38	3	61.90
ADRS-SV-0023	0.23	0.0091	1.2	38	3	61.90
ADRS-SV-0024	0.24	0.0094	1.2	38	3	61.90
ADRS-SV-0025	0.25	0.0098	1.5	38	3	61.90
ADRS-SV-0026	0.26	0.0102	1.5	38	3	61.90
ADRS-SV-0027	0.27	0.0106	1.5	38	3	61.90
ADRS-SV-0028	0.28	0.0110	1.5	38	3	61.90
ADRS-SV-0029	0.29	0.0114	1.5	38	3	61.90
ADRS-SV-0030	0.30	0.0118	2.5	38	3	58.70
ADRS-SV-0031	0.31	0.0122	2.5	38	3	51.40
ADRS-SV-0032	0.32	0.0126	2.5	38	3	51.40
ADRS-SV-0033	0.33	0.0130	2.5	38	3	51.40
ADRS-SV-0034	0.34	0.0134	2.5	38	3	51.40
ADRS-SV-0035	0.35	0.0138	2.5	38	3	51.40
ADRS-SV-0036	0.36	0.0142	2.5	38	3	51.40
ADRS-SV-0037	0.37	0.0146	2.5	38	3	51.40
ADRS-SV-0038	0.38	0.0150	2.5	38	3	51.40
ADRS-SV-0039	0.39	0.0154	2.5	38	3	51.40
ADRS-SV-0040	0.40	0.0157	3	38	3	46.90

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRS-SV-0041	0.41	0.0161	3	38	3	51.40
ADRS-SV-0042	0.42	0.0165	3	38	3	51.40
ADRS-SV-0043	0.43	0.0169	3	38	3	51.40
ADRS-SV-0044	0.44	0.0173	3	38	3	51.40
ADRS-SV-0045	0.45	0.0177	3	38	3	51.40
ADRS-SV-0046	0.46	0.0181	3	38	3	51.40
ADRS-SV-0047	0.47	0.0185	3	38	3	51.40
ADRS-SV-0048	0.48	0.0189	3	38	3	51.40
ADRS-SV-0049	0.49	0.0193	3	38	3	51.40
ADRS-SV-0050	0.50	0.0197	3	38	3	46.90
ADRS-SV-0051	0.51	0.0201	3	38	3	51.40
ADRS-SV-0052	0.52	0.0205	3	38	3	51.40
ADRS-SV-0053	0.53	0.0209	3	38	3	51.40
ADRS-SV-0054	0.54	0.0213	3	38	3	51.40
ADRS-SV-0055	0.55	0.0217	3	38	3	51.40
ADRS-SV-0056	0.56	0.0220	3	38	3	51.40
ADRS-SV-0057	0.57	0.0224	3	38	3	51.40
ADRS-SV-0058	0.58	0.0228	3	38	3	51.40
ADRS-SV-0059	0.59	0.0232	3	38	3	51.40
ADRS-SV-0060	0.60	0.0236	3	38	3	46.90
ADRS-SV-0061	0.61	0.0240	3	38	3	51.40
ADRS-SV-0062	0.62	0.0244	3	38	3	51.40
ADRS-SV-0063	0.63	0.0248	3	38	3	51.40
ADRS-SV-0064	0.64	0.0252	3	38	3	51.40
ADRS-SV-0065	0.65	0.0256	3	38	3	51.40
ADRS-SV-0066	0.66	0.0260	3	38	3	51.40
ADRS-SV-0067	0.67	0.0264	3	38	3	51.40
ADRS-SV-0068	0.68	0.0268	3	38	3	51.40
ADRS-SV-0069	0.69	0.0272	3	38	3	51.40
ADRS-SV-0070	0.70	0.0276	4	38	3	46.90
ADRS-SV-0071	0.71	0.0280	4	38	3	51.40

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRS-SV-0072	0.72	0.0283	4	38	3	51.40
ADRS-SV-0073	0.73	0.0287	4	38	3	51.40
ADRS-SV-0074	0.74	0.0291	4	38	3	51.40
ADRS-SV-0075	0.75	0.0295	4	38	3	51.40
ADRS-SV-0076	0.76	0.0299	4	38	3	51.40
ADRS-SV-0077	0.77	0.0303	4	38	3	51.40
ADRS-SV-0078	0.78	0.0307	4	38	3	51.40
ADRS-SV-0079	0.79	0.0311	4	38	3	51.40
ADRS-SV-0080	0.80	0.0315	4	38	3	46.90
ADRS-SV-0081	0.81	0.0319	4	38	3	51.40
ADRS-SV-0082	0.82	0.0323	4	38	3	51.40
ADRS-SV-0083	0.83	0.0327	4	38	3	51.40
ADRS-SV-0084	0.84	0.0331	4	38	3	51.40
ADRS-SV-0085	0.85	0.0335	4	38	3	51.40
ADRS-SV-0086	0.86	0.0339	4	38	3	51.40
ADRS-SV-0087	0.87	0.0343	4	38	3	51.40
ADRS-SV-0088	0.88	0.0346	4	38	3	51.40
ADRS-SV-0089	0.89	0.0350	4	38	3	51.40
ADRS-SV-0090	0.90	0.0354	4	38	3	46.90
ADRS-SV-0091	0.91	0.0358	4	38	3	51.40
ADRS-SV-0092	0.92	0.0362	4	38	3	51.40
ADRS-SV-0093	0.93	0.0366	4	38	3	51.40
ADRS-SV-0094	0.94	0.0370	4	38	3	51.40
ADRS-SV-0095	0.95	0.0374	4	38	3	51.40
ADRS-SV-0096	0.96	0.0378	4	38	3	51.40
ADRS-SV-0097	0.97	0.0382	4	38	3	51.40
ADRS-SV-0098	0.98	0.0386	4	38	3	51.40
ADRS-SV-0099	0.99	0.0390	4	38	3	51.40
ADRS-SV-0100	1.00	0.0394	5	38	3	46.90
ADRS-SV-0101	1.01	0.0398	5	38	3	51.40
ADRS-SV-0102	1.02	0.0402	5	38	3	51.40
ADRS-SV-0103	1.03	0.0406	5	38	3	51.40
ADRS-SV-0104	1.04	0.0409	5	38	3	51.40
ADRS-SV-0105	1.05	0.0413	5	38	3	51.40
ADRS-SV-0106	1.06	0.0417	5	38	3	51.40
ADRS-SV-0107	1.07	0.0421	5	38	3	51.40
ADRS-SV-0108	1.08	0.0425	5	38	3	51.40
ADRS-SV-0109	1.09	0.0429	5	38	3	51.40
ADRS-SV-0110	1.10	0.0433	5	38	3	46.90
ADRS-SV-0111	1.11	0.0437	5	38	3	51.40
ADRS-SV-0112	1.12	0.0441	5	38	3	51.40
ADRS-SV-0113	1.13	0.0445	5	38	3	51.40
ADRS-SV-0114	1.14	0.0449	5	38	3	51.40
ADRS-SV-0115	1.15	0.0453	5	38	3	51.40
ADRS-SV-0116	1.16	0.0457	5	38	3	51.40
ADRS-SV-0117	1.17	0.0461	5	38	3	51.40
ADRS-SV-0118	1.18	0.0465	5	38	3	51.40
ADRS-SV-0119	1.19	0.0469	5	38	3	51.40
ADRS-SV-0120	1.20	0.0472	5	38	3	46.90
ADRS-SV-0121	1.21	0.0476	5	38	3	51.40

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRS-SV-0122	1.22	0.0480	5	38	3	51.40
ADRS-SV-0123	1.23	0.0484	5	38	3	51.40
ADRS-SV-0124	1.24	0.0488	5	38	3	51.40
ADRS-SV-0125	1.25	0.0492	5	38	3	51.40
ADRS-SV-0126	1.26	0.0496	5	38	3	51.40
ADRS-SV-0127	1.27	0.0500	5	38	3	51.40
ADRS-SV-0128	1.28	0.0504	5	38	3	51.40
ADRS-SV-0129	1.29	0.0508	5	38	3	51.40
ADRS-SV-0130	1.30	0.0512	5	38	3	46.90
ADRS-SV-0131	1.31	0.0516	5	38	3	51.40
ADRS-SV-0132	1.32	0.0520	5	38	3	51.40
ADRS-SV-0133	1.33	0.0524	5	38	3	51.40
ADRS-SV-0134	1.34	0.0528	5	38	3	51.40
ADRS-SV-0135	1.35	0.0531	5	38	3	51.40
ADRS-SV-0136	1.36	0.0535	5	38	3	51.40
ADRS-SV-0137	1.37	0.0539	5	38	3	51.40
ADRS-SV-0138	1.38	0.0543	5	38	3	51.40
ADRS-SV-0139	1.39	0.0547	5	38	3	51.40
ADRS-SV-0140	1.40	0.0551	5	38	3	46.90
ADRS-SV-0141	1.41	0.0555	5	38	3	51.40
ADRS-SV-0142	1.42	0.0559	5	38	3	51.40
ADRS-SV-0143	1.43	0.0563	5	38	3	51.40
ADRS-SV-0144	1.44	0.0567	5	38	3	51.40
ADRS-SV-0145	1.45	0.0571	5	38	3	51.40
ADRS-SV-0146	1.46	0.0575	5	38	3	51.40
ADRS-SV-0147	1.47	0.0579	5	38	3	51.40
ADRS-SV-0148	1.48	0.0583	5	38	3	51.40
ADRS-SV-0149	1.49	0.0587	5	38	3	51.40
ADRS-SV-0150	1.50	0.0591	5	38	3	46.90
ADRS-SV-0151	1.51	0.0594	5	38	3	51.40
ADRS-SV-0152	1.52	0.0598	5	38	3	51.40
ADRS-SV-0153	1.53	0.0602	5	38	3	51.40
ADRS-SV-0154	1.54	0.0606	5	38	3	51.40
ADRS-SV-0155	1.55	0.0610	5	38	3	51.40
ADRS-SV-0156	1.56	0.0614	5	38	3	51.40
ADRS-SV-0157	1.57	0.0618	5	38	3	51.40
ADRS-SV-0158	1.58	0.0622	5	38	3	51.40
ADRS-SV-0159	1.59	0.0626	5	38	3	51.40
ADRS-SV-0160	1.60	0.0630	10	38	3	46.90
ADRS-SV-0161	1.61	0.0634	10	38	3	51.40
ADRS-SV-0162	1.62	0.0638	10	38	3	51.40
ADRS-SV-0163	1.63	0.0642	10	38	3	51.40
ADRS-SV-0164	1.64	0.0646	10	38	3	51.40
ADRS-SV-0165	1.65	0.0650	10	38	3	51.40
ADRS-SV-0166	1.66	0.0654	10	38	3	51.40
ADRS-SV-0167	1.67	0.0657	10	38	3	51.40
ADRS-SV-0168	1.68	0.0661	10	38	3	51.40
ADRS-SV-0169	1.69	0.0665	10	38	3	51.40
ADRS-SV-0170	1.70	0.0669	10	38	3	51.40
ADRS-SV-0171	1.71	0.0673	10	38	3	51.40

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRS-SV-0172	1.72	0.0677	10	38	3	51.40
ADRS-SV-0173	1.73	0.0681	10	38	3	51.40
ADRS-SV-0174	1.74	0.0685	10	38	3	51.40
ADRS-SV-0175	1.75	0.0689	10	38	3	51.40
ADRS-SV-0176	1.76	0.0693	10	38	3	51.40
ADRS-SV-0177	1.77	0.0697	10	38	3	51.40
ADRS-SV-0178	1.78	0.0701	10	38	3	51.40
ADRS-SV-0179	1.79	0.0705	10	38	3	51.40
ADRS-SV-0180	1.80	0.0709	10	38	3	51.40
ADRS-SV-0181	1.81	0.0713	10	38	3	51.40
ADRS-SV-0182	1.82	0.0717	10	38	3	51.40
ADRS-SV-0183	1.83	0.0720	10	38	3	51.40
ADRS-SV-0184	1.84	0.0724	10	38	3	51.40
ADRS-SV-0185	1.85	0.0728	10	38	3	51.40
ADRS-SV-0186	1.86	0.0732	10	38	3	51.40
ADRS-SV-0187	1.87	0.0736	10	38	3	51.40
ADRS-SV-0188	1.88	0.0740	10	38	3	51.40
ADRS-SV-0189	1.89	0.0744	10	38	3	51.40
ADRS-SV-0190	1.90	0.0748	10	38	3	51.40
ADRS-SV-0191	1.91	0.0752	10	38	3	51.40
ADRS-SV-0192	1.92	0.0756	10	38	3	51.40
ADRS-SV-0193	1.93	0.0760	10	38	3	51.40
ADRS-SV-0194	1.94	0.0764	10	38	3	51.40
ADRS-SV-0195	1.95	0.0768	10	38	3	51.40
ADRS-SV-0196	1.96	0.0772	10	38	3	51.40
ADRS-SV-0197	1.97	0.0776	10	38	3	51.40
ADRS-SV-0198	1.98	0.0780	10	38	3	51.40
ADRS-SV-0199	1.99	0.0783	10	38	3	51.40
ADRS-SV-0200	2.00	0.0787	10	38	3	51.40
ADRS-SV-0201	2.01	0.0791	10	38	3	51.40
ADRS-SV-0202	2.02	0.0795	10	38	3	51.40
ADRS-SV-0203	2.03	0.0799	10	38	3	51.40
ADRS-SV-0204	2.04	0.0803	10	38	3	51.40
ADRS-SV-0205	2.05	0.0807	10	38	3	51.40
ADRS-SV-0206	2.06	0.0811	10	38	3	51.40
ADRS-SV-0207	2.07	0.0815	10	38	3	51.40
ADRS-SV-0208	2.08	0.0819	10	38	3	51.40
ADRS-SV-0209	2.09	0.0823	10	38	3	51.40
ADRS-SV-0210	2.10	0.0827	10	38	3	51.40
ADRS-SV-0211	2.11	0.0831	10	38	3	51.40
ADRS-SV-0212	2.12	0.0835	10	38	3	51.40
ADRS-SV-0213	2.13	0.0839	10	38	3	51.40
ADRS-SV-0214	2.14	0.0843	10	38	3	51.40
ADRS-SV-0215	2.15	0.0846	10	38	3	51.40
ADRS-SV-0216	2.16	0.0850	10	38	3	51.40
ADRS-SV-0217	2.17	0.0854	10	38	3	51.40
ADRS-SV-0218	2.18	0.0858	10	38	3	51.40
ADRS-SV-0219	2.19	0.0862	10	38	3	51.40
ADRS-SV-0220	2.20	0.0866	10	38	3	54.30
ADRS-SV-0221	2.21	0.0870	10	38	3	54.30

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRS-SV-0222	2.22	0.0874	10	38	3	54.30
ADRS-SV-0223	2.23	0.0878	10	38	3	54.30
ADRS-SV-0224	2.24	0.0882	10	38	3	54.30
ADRS-SV-0225	2.25	0.0886	10	38	3	54.30
ADRS-SV-0226	2.26	0.0890	10	38	3	54.30
ADRS-SV-0227	2.27	0.0894	10	38	3	54.30
ADRS-SV-0228	2.28	0.0898	10	38	3	54.30
ADRS-SV-0229	2.29	0.0902	10	38	3	54.30
ADRS-SV-0230	2.30	0.0906	10	38	3	54.30
ADRS-SV-0231	2.31	0.0909	10	38	3	54.30
ADRS-SV-0232	2.32	0.0913	10	38	3	54.30
ADRS-SV-0233	2.33	0.0917	10	38	3	54.30
ADRS-SV-0234	2.34	0.0921	10	38	3	54.30
ADRS-SV-0235	2.35	0.0925	10	38	3	54.30
ADRS-SV-0236	2.36	0.0929	10	38	3	54.30
ADRS-SV-0237	2.37	0.0933	10	38	3	54.30
ADRS-SV-0238	2.38	0.0937	10	38	3	54.30
ADRS-SV-0239	2.39	0.0941	10	38	3	54.30
ADRS-SV-0240	2.40	0.0945	10	38	3	54.30
ADRS-SV-0241	2.41	0.0949	10	38	3	54.30
ADRS-SV-0242	2.42	0.0953	10	38	3	54.30
ADRS-SV-0243	2.43	0.0957	10	38	3	54.30
ADRS-SV-0244	2.44	0.0961	10	38	3	54.30
ADRS-SV-0245	2.45	0.0965	10	38	3	54.30
ADRS-SV-0246	2.46	0.0969	10	38	3	54.30
ADRS-SV-0247	2.47	0.0972	10	38	3	54.30
ADRS-SV-0248	2.48	0.0976	10	38	3	54.30
ADRS-SV-0249	2.49	0.0980	10	38	3	54.30
ADRS-SV-0250	2.50	0.0984	10	38	3	54.30
ADRS-SV-0251	2.51	0.0988	10	38	3	54.30
ADRS-SV-0252	2.52	0.0992	10	38	3	54.30
ADRS-SV-0253	2.53	0.0996	10	38	3	54.30
ADRS-SV-0254	2.54	0.1000	10	38	3	54.30
ADRS-SV-0255	2.55	0.1004	10	38	3	54.30
ADRS-SV-0256	2.56	0.1008	10	38	3	54.30
ADRS-SV-0257	2.57	0.1012	10	38	3	54.30
ADRS-SV-0258	2.58	0.1016	10	38	3	54.30
ADRS-SV-0259	2.59	0.1020	10	38	3	54.30
ADRS-SV-0260	2.60	0.1024	10	38	3	54.30
ADRS-SV-0261	2.61	0.1028	10	38	3	54.30
ADRS-SV-0262	2.62	0.1031	10	38	3	54.30
ADRS-SV-0263	2.63	0.1035	10	38	3	54.30
ADRS-SV-0264	2.64	0.1039	10	38	3	54.30
ADRS-SV-0265	2.65	0.1043	10	38	3	54.30
ADRS-SV-0266	2.66	0.1047	10	38	3	54.30
ADRS-SV-0267	2.67	0.1051	10	38	3	54.30
ADRS-SV-0268	2.68	0.1055	10	38	3	54.30
ADRS-SV-0269	2.69	0.1059	10	38	3	54.30
ADRS-SV-0270	2.70	0.1063	12	38	3	54.60
ADRS-SV-0271	2.71	0.1067	12	38	3	54.60

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRS-SV-0272	2.72	0.1071	12	38	3	54.60
ADRS-SV-0273	2.73	0.1075	12	38	3	54.60
ADRS-SV-0274	2.74	0.1079	12	38	3	54.60
ADRS-SV-0275	2.75	0.1083	12	38	3	54.60
ADRS-SV-0276	2.76	0.1087	12	38	3	54.60
ADRS-SV-0277	2.77	0.1091	12	38	3	54.60
ADRS-SV-0278	2.78	0.1094	12	38	3	54.60
ADRS-SV-0279	2.79	0.1098	12	38	3	54.60
ADRS-SV-0280	2.80	0.1102	12	38	3	54.60
ADRS-SV-0281	2.81	0.1106	12	38	3	54.60
ADRS-SV-0282	2.82	0.1110	12	38	3	54.60
ADRS-SV-0283	2.83	0.1114	12	38	3	54.60
ADRS-SV-0284	2.84	0.1118	12	38	3	54.60
ADRS-SV-0285	2.85	0.1122	12	38	3	54.60
ADRS-SV-0286	2.86	0.1126	12	38	3	54.60
ADRS-SV-0287	2.87	0.1130	12	38	3	54.60
ADRS-SV-0288	2.88	0.1134	12	38	3	54.60
ADRS-SV-0289	2.89	0.1138	12	38	3	54.60
ADRS-SV-0290	2.90	0.1142	12	38	3	54.60
ADRS-SV-0291	2.91	0.1146	12	38	3	54.60
ADRS-SV-0292	2.92	0.1150	12	38	3	54.60
ADRS-SV-0293	2.93	0.1154	12	38	3	54.60
ADRS-SV-0294	2.94	0.1157	12	38	3	54.60
ADRS-SV-0295	2.95	0.1161	12	38	3	54.60
ADRS-SV-0296	2.96	0.1165	12	38	3	54.60
ADRS-SV-0297	2.97	0.1169	12	38	3	54.60
ADRS-SV-0298	2.98	0.1173	12	38	3	54.60
ADRS-SV-0299	2.99	0.1177	12	38	3	54.60
ADRS-SV-0300	3.00	0.1181	12	38	3	54.60

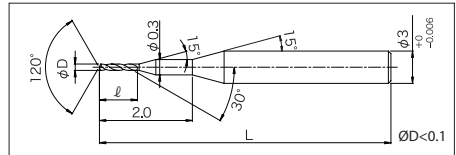
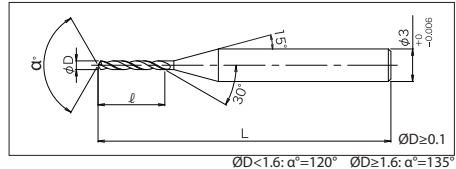
Micro Drill "SV" Series, Regular Flute Length

ADR-SV



- FCS coated for longer tool life
- High performance with a variety of materials, including carbon steels, stainless steels (300 series and PH stainless), titanium alloys, and hardened steels up to 50 HRC

FCS Coating



ØD Tolerance: +0 ~ -0.005

Unit: mm

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADR-SV-0003	0.03	0.0012	0.3	38	3	253.60
ADR-SV-0004	0.04	0.0016	0.4	38	3	177.70
ADR-SV-0005	0.05	0.0020	0.5	38	3	150.20
ADR-SV-0006	0.06	0.0024	0.6	38	3	137.20
ADR-SV-0007	0.07	0.0028	0.7	38	3	125.00
ADR-SV-0008	0.08	0.0031	0.8	38	3	105.90
ADR-SV-0009	0.09	0.0035	0.9	38	3	93.20
ADR-SV-0010	0.10	0.0039	1.2	38	3	71.80
ADR-SV-0011	0.11	0.0043	1.2	38	3	68.30
ADR-SV-0012	0.12	0.0047	1.4	38	3	68.30
ADR-SV-0013	0.13	0.0051	1.4	38	3	68.30
ADR-SV-0014	0.14	0.0055	1.4	38	3	68.30
ADR-SV-0015	0.15	0.0059	1.8	38	3	68.30
ADR-SV-0016	0.16	0.0063	1.8	38	3	68.30
ADR-SV-0017	0.17	0.0067	1.8	38	3	71.80
ADR-SV-0018	0.18	0.0071	2.1	38	3	64.80
ADR-SV-0019	0.19	0.0075	2.1	38	3	64.80
ADR-SV-0020	0.20	0.0079	2.4	38	3	64.80
ADR-SV-0021	0.21	0.0083	2.4	38	3	61.90
ADR-SV-0022	0.22	0.0087	2.6	38	3	61.90
ADR-SV-0023	0.23	0.0091	2.6	38	3	61.90
ADR-SV-0024	0.24	0.0094	2.6	38	3	61.90
ADR-SV-0025	0.25	0.0098	3	38	3	61.90
ADR-SV-0026	0.26	0.0102	3	38	3	61.90
ADR-SV-0027	0.27	0.0106	3	38	3	61.90
ADR-SV-0028	0.28	0.0110	3.3	38	3	61.90
ADR-SV-0029	0.29	0.0114	3.3	38	3	61.90
ADR-SV-0030	0.30	0.0118	5	38	3	58.70
ADR-SV-0031	0.31	0.0122	5	38	3	51.40
ADR-SV-0032	0.32	0.0126	5	38	3	51.40
ADR-SV-0033	0.33	0.0130	5	38	3	51.40

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADR-SV-0034	0.34	0.0134	5	38	3	51.40
ADR-SV-0035	0.35	0.0138	5	38	3	51.40
ADR-SV-0036	0.36	0.0142	5	38	3	51.40
ADR-SV-0037	0.37	0.0146	5	38	3	51.40
ADR-SV-0038	0.38	0.0150	5	38	3	51.40
ADR-SV-0039	0.39	0.0154	5	38	3	51.40
ADR-SV-0040	0.40	0.0157	6	38	3	46.90
ADR-SV-0041	0.41	0.0161	6	38	3	51.40
ADR-SV-0042	0.42	0.0165	6	38	3	51.40
ADR-SV-0043	0.43	0.0169	6	38	3	51.40
ADR-SV-0044	0.44	0.0173	6	38	3	51.40
ADR-SV-0045	0.45	0.0177	6	38	3	51.40
ADR-SV-0046	0.46	0.0181	6	38	3	51.40
ADR-SV-0047	0.47	0.0185	6	38	3	51.40
ADR-SV-0048	0.48	0.0189	6	38	3	51.40
ADR-SV-0049	0.49	0.0193	6	38	3	51.40
ADR-SV-0050	0.50	0.0197	6	38	3	46.90
ADR-SV-0051	0.51	0.0201	6	38	3	51.40
ADR-SV-0052	0.52	0.0205	6	38	3	51.40
ADR-SV-0053	0.53	0.0209	6	38	3	51.40
ADR-SV-0054	0.54	0.0213	6	38	3	51.40
ADR-SV-0055	0.55	0.0217	6	38	3	51.40
ADR-SV-0056	0.56	0.0220	6	38	3	51.40
ADR-SV-0057	0.57	0.0224	6	38	3	51.40
ADR-SV-0058	0.58	0.0228	6	38	3	51.40
ADR-SV-0059	0.59	0.0232	6	38	3	51.40
ADR-SV-0060	0.60	0.0236	7	38	3	46.90
ADR-SV-0061	0.61	0.0240	7	38	3	51.40
ADR-SV-0062	0.62	0.0244	7	38	3	51.40
ADR-SV-0063	0.63	0.0248	7	38	3	51.40
ADR-SV-0064	0.64	0.0252	7	38	3	51.40

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADR-SV-0065	0.65	0.0256	7	38	3	51.40
ADR-SV-0066	0.66	0.0260	7	38	3	51.40
ADR-SV-0067	0.67	0.0264	7	38	3	51.40
ADR-SV-0068	0.68	0.0268	7	38	3	51.40
ADR-SV-0069	0.69	0.0272	7	38	3	51.40
ADR-SV-0070	0.70	0.0276	8	38	3	46.90
ADR-SV-0071	0.71	0.0280	8	38	3	51.40
ADR-SV-0072	0.72	0.0283	8	38	3	51.40
ADR-SV-0073	0.73	0.0287	8	38	3	51.40
ADR-SV-0074	0.74	0.0291	8	38	3	51.40
ADR-SV-0075	0.75	0.0295	8	38	3	51.40
ADR-SV-0076	0.76	0.0299	8	38	3	51.40
ADR-SV-0077	0.77	0.0303	8	38	3	51.40
ADR-SV-0078	0.78	0.0307	8	38	3	51.40
ADR-SV-0079	0.79	0.0311	8	38	3	51.40
ADR-SV-0080	0.80	0.0315	8	38	3	46.90
ADR-SV-0081	0.81	0.0319	8	38	3	51.40
ADR-SV-0082	0.82	0.0323	8	38	3	51.40
ADR-SV-0083	0.83	0.0327	8	38	3	51.40
ADR-SV-0084	0.84	0.0331	8	38	3	51.40
ADR-SV-0085	0.85	0.0335	8	38	3	51.40
ADR-SV-0086	0.86	0.0339	8	38	3	51.40
ADR-SV-0087	0.87	0.0343	8	38	3	51.40
ADR-SV-0088	0.88	0.0346	8	38	3	51.40
ADR-SV-0089	0.89	0.0350	8	38	3	51.40
ADR-SV-0090	0.90	0.0354	8	38	3	46.90
ADR-SV-0091	0.91	0.0358	8	38	3	51.40
ADR-SV-0092	0.92	0.0362	8	38	3	51.40
ADR-SV-0093	0.93	0.0366	8	38	3	51.40
ADR-SV-0094	0.94	0.0370	8	38	3	51.40
ADR-SV-0095	0.95	0.0374	8	38	3	51.40
ADR-SV-0096	0.96	0.0378	8	38	3	51.40
ADR-SV-0097	0.97	0.0382	8	38	3	51.40
ADR-SV-0098	0.98	0.0386	8	38	3	51.40
ADR-SV-0099	0.99	0.0390	8	38	3	51.40
ADR-SV-0100	1.00	0.0394	10	38	3	46.90
ADR-SV-0101	1.01	0.0398	10	38	3	51.40
ADR-SV-0102	1.02	0.0402	10	38	3	51.40
ADR-SV-0103	1.03	0.0406	10	38	3	51.40
ADR-SV-0104	1.04	0.0409	10	38	3	51.40
ADR-SV-0105	1.05	0.0413	10	38	3	51.40
ADR-SV-0106	1.06	0.0417	10	38	3	51.40
ADR-SV-0107	1.07	0.0421	10	38	3	51.40
ADR-SV-0108	1.08	0.0425	10	38	3	51.40
ADR-SV-0109	1.09	0.0429	10	38	3	51.40
ADR-SV-0110	1.10	0.0433	10	38	3	46.90
ADR-SV-0111	1.11	0.0437	10	38	3	51.40
ADR-SV-0112	1.12	0.0441	10	38	3	51.40
ADR-SV-0113	1.13	0.0445	10	38	3	51.40
ADR-SV-0114	1.14	0.0449	10	38	3	51.40

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADR-SV-0115	1.15	0.0453	10	38	3	51.40
ADR-SV-0116	1.16	0.0457	10	38	3	51.40
ADR-SV-0117	1.17	0.0461	10	38	3	51.40
ADR-SV-0118	1.18	0.0465	10	38	3	51.40
ADR-SV-0119	1.19	0.0469	10	38	3	51.40
ADR-SV-0120	1.20	0.0472	10	38	3	46.90
ADR-SV-0121	1.21	0.0476	10	38	3	51.40
ADR-SV-0122	1.22	0.0480	10	38	3	51.40
ADR-SV-0123	1.23	0.0484	10	38	3	51.40
ADR-SV-0124	1.24	0.0488	10	38	3	51.40
ADR-SV-0125	1.25	0.0492	10	38	3	51.40
ADR-SV-0126	1.26	0.0496	10	38	3	51.40
ADR-SV-0127	1.27	0.0500	10	38	3	51.40
ADR-SV-0128	1.28	0.0504	10	38	3	51.40
ADR-SV-0129	1.29	0.0508	10	38	3	51.40
ADR-SV-0130	1.30	0.0512	10	38	3	46.90
ADR-SV-0131	1.31	0.0516	10	38	3	51.40
ADR-SV-0132	1.32	0.0520	10	38	3	51.40
ADR-SV-0133	1.33	0.0524	10	38	3	51.40
ADR-SV-0134	1.34	0.0528	10	38	3	51.40
ADR-SV-0135	1.35	0.0531	10	38	3	51.40
ADR-SV-0136	1.36	0.0535	10	38	3	51.40
ADR-SV-0137	1.37	0.0539	10	38	3	51.40
ADR-SV-0138	1.38	0.0543	10	38	3	51.40
ADR-SV-0139	1.39	0.0547	10	38	3	51.40
ADR-SV-0140	1.40	0.0551	10	38	3	46.90
ADR-SV-0141	1.41	0.0555	10	38	3	51.40
ADR-SV-0142	1.42	0.0559	10	38	3	51.40
ADR-SV-0143	1.43	0.0563	10	38	3	51.40
ADR-SV-0144	1.44	0.0567	10	38	3	51.40
ADR-SV-0145	1.45	0.0571	10	38	3	51.40
ADR-SV-0146	1.46	0.0575	10	38	3	51.40
ADR-SV-0147	1.47	0.0579	10	38	3	51.40
ADR-SV-0148	1.48	0.0583	10	38	3	51.40
ADR-SV-0149	1.49	0.0587	10	38	3	51.40
ADR-SV-0150	1.50	0.0591	10	38	3	46.90
ADR-SV-0151	1.51	0.0594	10	38	3	51.40
ADR-SV-0152	1.52	0.0598	10	38	3	51.40
ADR-SV-0153	1.53	0.0602	10	38	3	51.40
ADR-SV-0154	1.54	0.0606	10	38	3	51.40
ADR-SV-0155	1.55	0.0610	10	38	3	51.40
ADR-SV-0156	1.56	0.0614	10	38	3	51.40
ADR-SV-0157	1.57	0.0618	10	38	3	51.40
ADR-SV-0158	1.58	0.0622	10	38	3	51.40
ADR-SV-0159	1.59	0.0626	10	38	3	51.40
ADR-SV-0160	1.60	0.0630	16	45	3	46.90
ADR-SV-0161	1.61	0.0634	16	45	3	51.40
ADR-SV-0162	1.62	0.0638	16	45	3	51.40
ADR-SV-0163	1.63	0.0642	16	45	3	51.40
ADR-SV-0164	1.64	0.0646	16	45	3	51.40

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADR-SV-0165	1.65	0.0650	16	45	3	51.40
ADR-SV-0166	1.66	0.0654	16	45	3	51.40
ADR-SV-0167	1.67	0.0657	16	45	3	51.40
ADR-SV-0168	1.68	0.0661	16	45	3	51.40
ADR-SV-0169	1.69	0.0665	16	45	3	51.40
ADR-SV-0170	1.70	0.0669	16	45	3	51.40
ADR-SV-0171	1.71	0.0673	16	45	3	51.40
ADR-SV-0172	1.72	0.0677	16	45	3	51.40
ADR-SV-0173	1.73	0.0681	16	45	3	51.40
ADR-SV-0174	1.74	0.0685	16	45	3	51.40
ADR-SV-0175	1.75	0.0689	16	45	3	51.40
ADR-SV-0176	1.76	0.0693	16	45	3	51.40
ADR-SV-0177	1.77	0.0697	16	45	3	51.40
ADR-SV-0178	1.78	0.0701	16	45	3	51.40
ADR-SV-0179	1.79	0.0705	16	45	3	51.40
ADR-SV-0180	1.80	0.0709	16	45	3	51.40
ADR-SV-0181	1.81	0.0713	16	45	3	51.40
ADR-SV-0182	1.82	0.0717	16	45	3	51.40
ADR-SV-0183	1.83	0.0720	16	45	3	51.40
ADR-SV-0184	1.84	0.0724	16	45	3	51.40
ADR-SV-0185	1.85	0.0728	16	45	3	51.40
ADR-SV-0186	1.86	0.0732	16	45	3	51.40
ADR-SV-0187	1.87	0.0736	16	45	3	51.40
ADR-SV-0188	1.88	0.0740	16	45	3	51.40
ADR-SV-0189	1.89	0.0744	16	45	3	51.40
ADR-SV-0190	1.90	0.0748	16	45	3	51.40
ADR-SV-0191	1.91	0.0752	16	45	3	51.40
ADR-SV-0192	1.92	0.0756	16	45	3	51.40
ADR-SV-0193	1.93	0.0760	16	45	3	51.40
ADR-SV-0194	1.94	0.0764	16	45	3	51.40
ADR-SV-0195	1.95	0.0768	16	45	3	51.40
ADR-SV-0196	1.96	0.0772	16	45	3	51.40
ADR-SV-0197	1.97	0.0776	16	45	3	51.40
ADR-SV-0198	1.98	0.0780	16	45	3	51.40
ADR-SV-0199	1.99	0.0783	16	45	3	51.40
ADR-SV-0200	2.00	0.0787	22	50	3	51.40
ADR-SV-0201	2.01	0.0791	22	50	3	51.40
ADR-SV-0202	2.02	0.0795	22	50	3	51.40
ADR-SV-0203	2.03	0.0799	22	50	3	51.40
ADR-SV-0204	2.04	0.0803	22	50	3	51.40
ADR-SV-0205	2.05	0.0807	22	50	3	51.40
ADR-SV-0206	2.06	0.0811	22	50	3	51.40
ADR-SV-0207	2.07	0.0815	22	50	3	51.40
ADR-SV-0208	2.08	0.0819	22	50	3	51.40
ADR-SV-0209	2.09	0.0823	22	50	3	51.40
ADR-SV-0210	2.10	0.0827	22	50	3	51.40
ADR-SV-0211	2.11	0.0831	22	50	3	51.40
ADR-SV-0212	2.12	0.0835	22	50	3	51.40
ADR-SV-0213	2.13	0.0839	22	50	3	51.40
ADR-SV-0214	2.14	0.0843	22	50	3	51.40

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADR-SV-0215	2.15	0.0846	22	50	3	51.40
ADR-SV-0216	2.16	0.0850	22	50	3	51.40
ADR-SV-0217	2.17	0.0854	22	50	3	51.40
ADR-SV-0218	2.18	0.0858	22	50	3	51.40
ADR-SV-0219	2.19	0.0862	22	50	3	51.40
ADR-SV-0220	2.20	0.0866	22	50	3	54.30
ADR-SV-0221	2.21	0.0870	22	50	3	54.30
ADR-SV-0222	2.22	0.0874	22	50	3	54.30
ADR-SV-0223	2.23	0.0878	22	50	3	54.30
ADR-SV-0224	2.24	0.0882	22	50	3	54.30
ADR-SV-0225	2.25	0.0886	22	50	3	54.30
ADR-SV-0226	2.26	0.0890	22	50	3	54.30
ADR-SV-0227	2.27	0.0894	22	50	3	54.30
ADR-SV-0228	2.28	0.0898	22	50	3	54.30
ADR-SV-0229	2.29	0.0902	22	50	3	54.30
ADR-SV-0230	2.30	0.0906	22	50	3	54.30
ADR-SV-0231	2.31	0.0909	22	50	3	54.30
ADR-SV-0232	2.32	0.0913	22	50	3	54.30
ADR-SV-0233	2.33	0.0917	22	50	3	54.30
ADR-SV-0234	2.34	0.0921	22	50	3	54.30
ADR-SV-0235	2.35	0.0925	22	50	3	54.30
ADR-SV-0236	2.36	0.0929	22	50	3	54.30
ADR-SV-0237	2.37	0.0933	22	50	3	54.30
ADR-SV-0238	2.38	0.0937	22	50	3	54.30
ADR-SV-0239	2.39	0.0941	22	50	3	54.30
ADR-SV-0240	2.40	0.0945	22	50	3	54.30
ADR-SV-0241	2.41	0.0949	22	50	3	54.30
ADR-SV-0242	2.42	0.0953	22	50	3	54.30
ADR-SV-0243	2.43	0.0957	22	50	3	54.30
ADR-SV-0244	2.44	0.0961	22	50	3	54.30
ADR-SV-0245	2.45	0.0965	22	50	3	54.30
ADR-SV-0246	2.46	0.0969	22	50	3	54.30
ADR-SV-0247	2.47	0.0972	22	50	3	54.30
ADR-SV-0248	2.48	0.0976	22	50	3	54.30
ADR-SV-0249	2.49	0.0980	22	50	3	54.30
ADR-SV-0250	2.50	0.0984	22	50	3	54.30
ADR-SV-0251	2.51	0.0988	22	50	3	54.30
ADR-SV-0252	2.52	0.0992	22	50	3	54.30
ADR-SV-0253	2.53	0.0996	22	50	3	54.30
ADR-SV-0254	2.54	0.1000	22	50	3	54.30
ADR-SV-0255	2.55	0.1004	22	50	3	54.30
ADR-SV-0256	2.56	0.1008	22	50	3	54.30
ADR-SV-0257	2.57	0.1012	22	50	3	54.30
ADR-SV-0258	2.58	0.1016	22	50	3	54.30
ADR-SV-0259	2.59	0.1020	22	50	3	54.30
ADR-SV-0260	2.60	0.1024	22	50	3	54.30
ADR-SV-0261	2.61	0.1028	22	50	3	54.30
ADR-SV-0262	2.62	0.1031	22	50	3	54.30
ADR-SV-0263	2.63	0.1035	22	50	3	54.30
ADR-SV-0264	2.64	0.1039	22	50	3	54.30

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADR-SV-0265	2.65	0.1043	22	50	3	54.30
ADR-SV-0266	2.66	0.1047	22	50	3	54.30
ADR-SV-0267	2.67	0.1051	22	50	3	54.30
ADR-SV-0268	2.68	0.1055	22	50	3	54.30
ADR-SV-0269	2.69	0.1059	22	50	3	54.30
ADR-SV-0270	2.70	0.1063	25	50	3	54.60
ADR-SV-0271	2.71	0.1067	25	50	3	54.60
ADR-SV-0272	2.72	0.1071	25	50	3	54.60
ADR-SV-0273	2.73	0.1075	25	50	3	54.60
ADR-SV-0274	2.74	0.1079	25	50	3	54.60
ADR-SV-0275	2.75	0.1083	25	50	3	54.60
ADR-SV-0276	2.76	0.1087	25	50	3	54.60
ADR-SV-0277	2.77	0.1091	25	50	3	54.60
ADR-SV-0278	2.78	0.1094	25	50	3	54.60
ADR-SV-0279	2.79	0.1098	25	50	3	54.60
ADR-SV-0280	2.80	0.1102	25	50	3	54.60
ADR-SV-0281	2.81	0.1106	25	50	3	54.60
ADR-SV-0282	2.82	0.1110	25	50	3	54.60
ADR-SV-0283	2.83	0.1114	25	50	3	54.60
ADR-SV-0284	2.84	0.1118	25	50	3	54.60
ADR-SV-0285	2.85	0.1122	25	50	3	54.60
ADR-SV-0286	2.86	0.1126	25	50	3	54.60
ADR-SV-0287	2.87	0.1130	25	50	3	54.60
ADR-SV-0288	2.88	0.1134	25	50	3	54.60
ADR-SV-0289	2.89	0.1138	25	50	3	54.60
ADR-SV-0290	2.90	0.1142	25	50	3	54.60
ADR-SV-0291	2.91	0.1146	25	50	3	54.60
ADR-SV-0292	2.92	0.1150	25	50	3	54.60
ADR-SV-0293	2.93	0.1154	25	50	3	54.60
ADR-SV-0294	2.94	0.1157	25	50	3	54.60
ADR-SV-0295	2.95	0.1161	25	50	3	54.60
ADR-SV-0296	2.96	0.1165	25	50	3	54.60
ADR-SV-0297	2.97	0.1169	25	50	3	54.60
ADR-SV-0298	2.98	0.1173	25	50	3	54.60
ADR-SV-0299	2.99	0.1177	25	50	3	54.60
ADR-SV-0300	3.00	0.1181	25	50	3	54.60

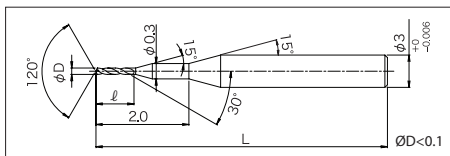
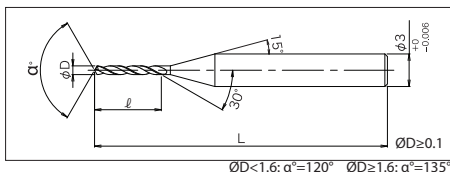
Micro Drill "SV" Series, Semi Long Flute Length

FCS Coating

ADRSL-SV



- FCS coated for longer tool life
- High performance with a variety of materials, including carbon steels, stainless steels (300 series and PH stainless), titanium alloys, and hardened steels up to 50 HRC



ØD Tolerance: +0~-0.005

Unit: mm

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRSL-SV-0003	0.03	0.0012	0.5	38	3	264.10
ADRSL-SV-0004	0.04	0.0016	0.6	38	3	192.70
ADRSL-SV-0005	0.05	0.0020	0.8	38	3	165.90
ADRSL-SV-0006	0.06	0.0024	0.8	38	3	145.50
ADRSL-SV-0007	0.07	0.0028	1.1	38	3	134.60
ADRSL-SV-0008	0.08	0.0031	1.2	38	3	115.50
ADRSL-SV-0009	0.09	0.0035	1.2	38	3	101.50
ADRSL-SV-0010	0.10	0.0039	1.9	38	3	75.60
ADRSL-SV-0011	0.11	0.0043	1.9	38	3	70.80
ADRSL-SV-0012	0.12	0.0047	2.2	38	3	70.80
ADRSL-SV-0013	0.13	0.0051	2.2	38	3	70.80
ADRSL-SV-0014	0.14	0.0055	2.2	38	3	70.80
ADRSL-SV-0015	0.15	0.0059	2.9	38	3	70.80
ADRSL-SV-0016	0.16	0.0063	2.9	38	3	70.80
ADRSL-SV-0017	0.17	0.0067	3.2	38	3	70.80
ADRSL-SV-0018	0.18	0.0071	3.3	38	3	66.40
ADRSL-SV-0019	0.19	0.0075	3.3	38	3	66.40
ADRSL-SV-0020	0.20	0.0079	4	38	3	66.40
ADRSL-SV-0021	0.21	0.0083	4	38	3	64.80
ADRSL-SV-0022	0.22	0.0087	4.3	38	3	64.80
ADRSL-SV-0023	0.23	0.0091	4.3	38	3	64.80
ADRSL-SV-0024	0.24	0.0094	4.3	38	3	64.80
ADRSL-SV-0025	0.25	0.0098	5	38	3	64.80
ADRSL-SV-0026	0.26	0.0102	5	38	3	64.80
ADRSL-SV-0027	0.27	0.0106	5	38	3	64.80
ADRSL-SV-0028	0.28	0.0110	5.2	38	3	64.80
ADRSL-SV-0029	0.29	0.0114	5.2	38	3	64.80
ADRSL-SV-0030	0.30	0.0118	7	38	3	60.60
ADRSL-SV-0031	0.31	0.0122	7	38	3	57.10
ADRSL-SV-0032	0.32	0.0126	7	38	3	57.10
ADRSL-SV-0033	0.33	0.0130	7	38	3	57.10

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRSL-SV-0034	0.34	0.0134	7	38	3	57.10
ADRSL-SV-0035	0.35	0.0138	7	38	3	57.10
ADRSL-SV-0036	0.36	0.0142	7	38	3	57.10
ADRSL-SV-0037	0.37	0.0146	7	38	3	57.10
ADRSL-SV-0038	0.38	0.0150	7	38	3	57.10
ADRSL-SV-0039	0.39	0.0154	7	38	3	57.10
ADRSL-SV-0040	0.40	0.0157	9	38	3	54.90
ADRSL-SV-0041	0.41	0.0161	9	38	3	57.10
ADRSL-SV-0042	0.42	0.0165	9	38	3	57.10
ADRSL-SV-0043	0.43	0.0169	9	38	3	57.10
ADRSL-SV-0044	0.44	0.0173	9	38	3	57.10
ADRSL-SV-0045	0.45	0.0177	9	38	3	57.10
ADRSL-SV-0046	0.46	0.0181	9	38	3	57.10
ADRSL-SV-0047	0.47	0.0185	9	38	3	57.10
ADRSL-SV-0048	0.48	0.0189	9	38	3	57.10
ADRSL-SV-0049	0.49	0.0193	9	38	3	57.10
ADRSL-SV-0050	0.50	0.0197	9	38	3	54.90
ADRSL-SV-0051	0.51	0.0201	9	38	3	57.10
ADRSL-SV-0052	0.52	0.0205	9	38	3	57.10
ADRSL-SV-0053	0.53	0.0209	9	38	3	57.10
ADRSL-SV-0054	0.54	0.0213	9	38	3	57.10
ADRSL-SV-0055	0.55	0.0217	9	38	3	57.10
ADRSL-SV-0056	0.56	0.0220	9	38	3	57.10
ADRSL-SV-0057	0.57	0.0224	9	38	3	57.10
ADRSL-SV-0058	0.58	0.0228	9	38	3	57.10
ADRSL-SV-0059	0.59	0.0232	9	38	3	57.10
ADRSL-SV-0060	0.60	0.0236	11	38	3	54.90
ADRSL-SV-0061	0.61	0.0240	11	38	3	57.10
ADRSL-SV-0062	0.62	0.0244	11	38	3	57.10
ADRSL-SV-0063	0.63	0.0248	11	38	3	57.10
ADRSL-SV-0064	0.64	0.0252	11	38	3	57.10

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRSL-SV-0065	0.65	0.0256	11	38	3	57.10
ADRSL-SV-0066	0.66	0.0260	11	38	3	57.10
ADRSL-SV-0067	0.67	0.0264	11	38	3	57.10
ADRSL-SV-0068	0.68	0.0268	11	38	3	57.10
ADRSL-SV-0069	0.69	0.0272	11	38	3	57.10
ADRSL-SV-0070	0.70	0.0276	11	38	3	54.90
ADRSL-SV-0071	0.71	0.0280	11	38	3	57.10
ADRSL-SV-0072	0.72	0.0283	11	38	3	57.10
ADRSL-SV-0073	0.73	0.0287	11	38	3	57.10
ADRSL-SV-0074	0.74	0.0291	11	38	3	57.10
ADRSL-SV-0075	0.75	0.0295	11	38	3	57.10
ADRSL-SV-0076	0.76	0.0299	11	38	3	57.10
ADRSL-SV-0077	0.77	0.0303	11	38	3	57.10
ADRSL-SV-0078	0.78	0.0307	11	38	3	57.10
ADRSL-SV-0079	0.79	0.0311	11	38	3	57.10
ADRSL-SV-0080	0.80	0.0315	11	38	3	54.90
ADRSL-SV-0081	0.81	0.0319	11	38	3	57.10
ADRSL-SV-0082	0.82	0.0323	11	38	3	57.10
ADRSL-SV-0083	0.83	0.0327	11	38	3	57.10
ADRSL-SV-0084	0.84	0.0331	11	38	3	57.10
ADRSL-SV-0085	0.85	0.0335	11	38	3	57.10
ADRSL-SV-0086	0.86	0.0339	11	38	3	57.10
ADRSL-SV-0087	0.87	0.0343	11	38	3	57.10
ADRSL-SV-0088	0.88	0.0346	11	38	3	57.10
ADRSL-SV-0089	0.89	0.0350	11	38	3	57.10
ADRSL-SV-0090	0.90	0.0354	11	38	3	54.90
ADRSL-SV-0091	0.91	0.0358	11	38	3	51.40
ADRSL-SV-0092	0.92	0.0362	11	38	3	51.40
ADRSL-SV-0093	0.93	0.0366	11	38	3	51.40
ADRSL-SV-0094	0.94	0.0370	11	38	3	51.40
ADRSL-SV-0095	0.95	0.0374	11	38	3	51.40
ADRSL-SV-0096	0.96	0.0378	11	38	3	51.40
ADRSL-SV-0097	0.97	0.0382	11	38	3	51.40
ADRSL-SV-0098	0.98	0.0386	11	38	3	46.90
ADRSL-SV-0099	0.99	0.0390	11	38	3	51.40
ADRSL-SV-0100	1.00	0.0394	15	45	3	54.90
ADRSL-SV-0105	1.05	0.0413	15	45	3	57.10
ADRSL-SV-0110	1.10	0.0433	15	45	3	54.90
ADRSL-SV-0115	1.15	0.0453	15	45	3	57.10
ADRSL-SV-0120	1.20	0.0472	15	45	3	54.90
ADRSL-SV-0125	1.25	0.0492	15	45	3	57.10
ADRSL-SV-0130	1.30	0.0512	18	45	3	54.90
ADRSL-SV-0135	1.35	0.0531	18	45	3	57.10
ADRSL-SV-0140	1.40	0.0551	18	45	3	54.90
ADRSL-SV-0145	1.45	0.0571	18	45	3	57.10
ADRSL-SV-0150	1.50	0.0591	18	45	3	54.90
ADRSL-SV-0155	1.55	0.0610	18	45	3	57.10
ADRSL-SV-0160	1.60	0.0630	27	60	3	62.90
ADRSL-SV-0165	1.65	0.0650	27	60	3	62.90
ADRSL-SV-0170	1.70	0.0669	27	60	3	62.90

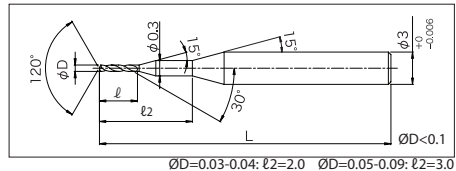
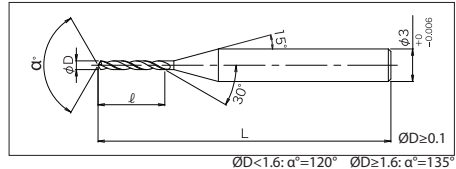
PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRSL-SV-0175	1.75	0.0689	27	60	3	62.90
ADRSL-SV-0180	1.80	0.0709	27	60	3	62.90
ADRSL-SV-0185	1.85	0.0728	27	60	3	62.90
ADRSL-SV-0190	1.90	0.0748	27	60	3	62.90
ADRSL-SV-0195	1.95	0.0768	27	60	3	62.90
ADRSL-SV-0200	2.00	0.0787	27	60	3	62.90
ADRSL-SV-0250	2.50	0.0984	27	60	3	62.90
ADRSL-SV-0300	3.00	0.1181	33	60	3	62.90

Micro Drill "SV" Series, Long Flute Length

ADRL-SV



- FCS coated for longer tool life
- High performance with a variety of materials, including carbon steels, stainless steels (300 series and PH stainless), titanium alloys, and hardened steels up to 50 HRC



ØD Tolerance: +0 ~ -0.005

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-SV-0003	0.03	0.0012	0.6	38	3	274.60
ADRL-SV-0004	0.04	0.0016	0.8	38	3	207.30
ADRL-SV-0005	0.05	0.0020	1.1	38	3	181.50
ADRL-SV-0006	0.06	0.0024	1.2	38	3	162.70
ADRL-SV-0007	0.07	0.0028	1.4	38	3	143.50
ADRL-SV-0008	0.08	0.0031	1.6	38	3	125.00
ADRL-SV-0009	0.09	0.0035	1.8	38	3	118.40
ADRL-SV-0010	0.10	0.0039	2.5	38	3	79.50
ADRL-SV-0011	0.11	0.0043	2.5	38	3	73.70
ADRL-SV-0012	0.12	0.0047	3	38	3	73.70
ADRL-SV-0013	0.13	0.0051	3	38	3	73.70
ADRL-SV-0014	0.14	0.0055	3	38	3	73.70
ADRL-SV-0015	0.15	0.0059	4	38	3	74.00
ADRL-SV-0016	0.16	0.0063	4	38	3	74.00
ADRL-SV-0017	0.17	0.0067	4.5	38	3	74.00
ADRL-SV-0018	0.18	0.0071	4.5	38	3	68.00
ADRL-SV-0019	0.19	0.0075	4.5	38	3	68.00
ADRL-SV-0020	0.20	0.0079	6	38	3	68.00
ADRL-SV-0021	0.21	0.0083	6	38	3	68.00
ADRL-SV-0022	0.22	0.0087	6	38	3	68.00
ADRL-SV-0023	0.23	0.0091	6	38	3	68.00
ADRL-SV-0024	0.24	0.0094	6	38	3	68.00
ADRL-SV-0025	0.25	0.0098	7	38	3	68.00
ADRL-SV-0026	0.26	0.0102	7	38	3	68.00
ADRL-SV-0027	0.27	0.0106	7	38	3	68.00
ADRL-SV-0028	0.28	0.0110	7	38	3	68.00
ADRL-SV-0029	0.29	0.0114	7	38	3	68.00
ADRL-SV-0030	0.30	0.0118	9	45	3	62.50
ADRL-SV-0031	0.31	0.0122	9	45	3	62.50
ADRL-SV-0032	0.32	0.0126	9	45	3	62.50
ADRL-SV-0033	0.33	0.0130	9	45	3	62.50

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-SV-0034	0.34	0.0134	9	45	3	62.50
ADRL-SV-0035	0.35	0.0138	10	45	3	62.50
ADRL-SV-0036	0.36	0.0142	10	45	3	62.50
ADRL-SV-0037	0.37	0.0146	10	45	3	62.50
ADRL-SV-0038	0.38	0.0150	10	45	3	62.50
ADRL-SV-0039	0.39	0.0154	10	45	3	62.50
ADRL-SV-0040	0.40	0.0157	12	45	3	62.50
ADRL-SV-0041	0.41	0.0161	12	45	3	62.50
ADRL-SV-0042	0.42	0.0165	12	45	3	62.50
ADRL-SV-0043	0.43	0.0169	12	45	3	62.50
ADRL-SV-0044	0.44	0.0173	12	45	3	62.50
ADRL-SV-0045	0.45	0.0177	12	45	3	62.50
ADRL-SV-0046	0.46	0.0181	12	45	3	62.50
ADRL-SV-0047	0.47	0.0185	12	45	3	62.50
ADRL-SV-0048	0.48	0.0189	12	45	3	62.50
ADRL-SV-0049	0.49	0.0193	12	45	3	62.50
ADRL-SV-0050	0.50	0.0197	12	45	3	62.50
ADRL-SV-0051	0.51	0.0201	12	45	3	62.50
ADRL-SV-0052	0.52	0.0205	12	45	3	62.50
ADRL-SV-0053	0.53	0.0209	12	45	3	62.50
ADRL-SV-0054	0.54	0.0213	12	45	3	62.50
ADRL-SV-0055	0.55	0.0217	12	45	3	62.50
ADRL-SV-0056	0.56	0.0220	12	45	3	62.50
ADRL-SV-0057	0.57	0.0224	12	45	3	62.50
ADRL-SV-0058	0.58	0.0228	12	45	3	62.50
ADRL-SV-0059	0.59	0.0232	12	45	3	62.50
ADRL-SV-0060	0.60	0.0236	15	45	3	62.50
ADRL-SV-0061	0.61	0.0240	15	45	3	62.50
ADRL-SV-0062	0.62	0.0244	15	45	3	62.50
ADRL-SV-0063	0.63	0.0248	15	45	3	62.50
ADRL-SV-0064	0.64	0.0252	15	45	3	62.50

Unit: mm

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-SV-0065	0.65	0.0256	15	45	3	62.50
ADRL-SV-0066	0.66	0.0260	15	45	3	62.50
ADRL-SV-0067	0.67	0.0264	15	45	3	62.50
ADRL-SV-0068	0.68	0.0268	15	45	3	62.50
ADRL-SV-0069	0.69	0.0272	15	45	3	62.50
ADRL-SV-0070	0.70	0.0276	15	45	3	62.50
ADRL-SV-0071	0.71	0.0280	15	45	3	62.50
ADRL-SV-0072	0.72	0.0283	15	45	3	62.50
ADRL-SV-0073	0.73	0.0287	15	45	3	62.50
ADRL-SV-0074	0.74	0.0291	15	45	3	62.50
ADRL-SV-0075	0.75	0.0295	15	45	3	62.50
ADRL-SV-0076	0.76	0.0299	15	45	3	62.50
ADRL-SV-0077	0.77	0.0303	15	45	3	62.50
ADRL-SV-0078	0.78	0.0307	15	45	3	62.50
ADRL-SV-0079	0.79	0.0311	15	45	3	62.50
ADRL-SV-0080	0.80	0.0315	15	45	3	62.50
ADRL-SV-0081	0.81	0.0319	15	45	3	62.50
ADRL-SV-0082	0.82	0.0323	15	45	3	62.50
ADRL-SV-0083	0.83	0.0327	15	45	3	62.50
ADRL-SV-0084	0.84	0.0331	15	45	3	62.50
ADRL-SV-0085	0.85	0.0335	15	45	3	62.50
ADRL-SV-0086	0.86	0.0339	15	45	3	62.50
ADRL-SV-0087	0.87	0.0343	15	45	3	62.50
ADRL-SV-0088	0.88	0.0346	15	45	3	62.50
ADRL-SV-0089	0.89	0.0350	15	45	3	62.50
ADRL-SV-0090	0.90	0.0354	15	45	3	62.50
ADRL-SV-0091	0.91	0.0358	15	45	3	62.50
ADRL-SV-0092	0.92	0.0362	15	45	3	62.50
ADRL-SV-0093	0.93	0.0366	15	45	3	62.50
ADRL-SV-0094	0.94	0.0370	15	45	3	62.50
ADRL-SV-0095	0.95	0.0374	15	45	3	62.50
ADRL-SV-0096	0.96	0.0378	15	45	3	62.50
ADRL-SV-0097	0.97	0.0382	15	45	3	62.50
ADRL-SV-0098	0.98	0.0386	15	45	3	62.50
ADRL-SV-0099	0.99	0.0390	15	45	3	62.50
ADRL-SV-0100	1.00	0.0394	20	50	3	62.50
ADRL-SV-0101	1.01	0.0398	20	50	3	62.50
ADRL-SV-0102	1.02	0.0402	20	50	3	62.50
ADRL-SV-0103	1.03	0.0406	20	50	3	62.50
ADRL-SV-0104	1.04	0.0409	20	50	3	62.50
ADRL-SV-0105	1.05	0.0413	20	50	3	62.50
ADRL-SV-0106	1.06	0.0417	20	50	3	62.50
ADRL-SV-0107	1.07	0.0421	20	50	3	62.50
ADRL-SV-0108	1.08	0.0425	20	50	3	62.50
ADRL-SV-0109	1.09	0.0429	20	50	3	62.50
ADRL-SV-0110	1.10	0.0433	20	50	3	62.50
ADRL-SV-0111	1.11	0.0437	20	50	3	62.50
ADRL-SV-0112	1.12	0.0441	20	50	3	62.50
ADRL-SV-0113	1.13	0.0445	20	50	3	62.50
ADRL-SV-0114	1.14	0.0449	20	50	3	62.50

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-SV-0115	1.15	0.0453	20	50	3	62.50
ADRL-SV-0116	1.16	0.0457	20	50	3	62.50
ADRL-SV-0117	1.17	0.0461	20	50	3	62.50
ADRL-SV-0118	1.18	0.0465	20	50	3	62.50
ADRL-SV-0119	1.19	0.0469	20	50	3	62.50
ADRL-SV-0120	1.20	0.0472	20	50	3	62.50
ADRL-SV-0121	1.21	0.0476	20	50	3	62.50
ADRL-SV-0122	1.22	0.0480	20	50	3	62.50
ADRL-SV-0123	1.23	0.0484	20	50	3	62.50
ADRL-SV-0124	1.24	0.0488	20	50	3	62.50
ADRL-SV-0125	1.25	0.0492	20	50	3	62.50
ADRL-SV-0126	1.26	0.0496	20	50	3	62.50
ADRL-SV-0127	1.27	0.0500	20	50	3	62.50
ADRL-SV-0128	1.28	0.0504	20	50	3	62.50
ADRL-SV-0129	1.29	0.0508	20	50	3	62.50
ADRL-SV-0130	1.30	0.0512	25	60	3	63.20
ADRL-SV-0131	1.31	0.0516	25	60	3	63.20
ADRL-SV-0132	1.32	0.0520	25	60	3	63.20
ADRL-SV-0133	1.33	0.0524	25	60	3	63.20
ADRL-SV-0134	1.34	0.0528	25	60	3	63.20
ADRL-SV-0135	1.35	0.0531	25	60	3	63.20
ADRL-SV-0136	1.36	0.0535	25	60	3	63.20
ADRL-SV-0137	1.37	0.0539	25	60	3	63.20
ADRL-SV-0138	1.38	0.0543	25	60	3	63.20
ADRL-SV-0139	1.39	0.0547	25	60	3	63.20
ADRL-SV-0140	1.40	0.0551	25	60	3	63.20
ADRL-SV-0141	1.41	0.0555	25	60	3	63.20
ADRL-SV-0142	1.42	0.0559	25	60	3	63.20
ADRL-SV-0143	1.43	0.0563	25	60	3	63.20
ADRL-SV-0144	1.44	0.0567	25	60	3	63.20
ADRL-SV-0145	1.45	0.0571	25	60	3	63.20
ADRL-SV-0146	1.46	0.0575	25	60	3	63.20
ADRL-SV-0147	1.47	0.0579	25	60	3	63.20
ADRL-SV-0148	1.48	0.0583	25	60	3	63.20
ADRL-SV-0149	1.49	0.0587	25	60	3	63.20
ADRL-SV-0150	1.50	0.0591	25	60	3	63.20
ADRL-SV-0151	1.51	0.0594	25	60	3	63.20
ADRL-SV-0152	1.52	0.0598	25	60	3	63.20
ADRL-SV-0153	1.53	0.0602	25	60	3	63.20
ADRL-SV-0154	1.54	0.0606	25	60	3	63.20
ADRL-SV-0155	1.55	0.0610	25	60	3	63.20
ADRL-SV-0156	1.56	0.0614	25	60	3	63.20
ADRL-SV-0157	1.57	0.0618	25	60	3	63.20
ADRL-SV-0158	1.58	0.0622	25	60	3	63.20
ADRL-SV-0159	1.59	0.0626	25	60	3	63.20
ADRL-SV-0160	1.60	0.0630	32	60	3	74.70
ADRL-SV-0161	1.61	0.0634	32	60	3	74.70
ADRL-SV-0162	1.62	0.0638	32	60	3	74.70
ADRL-SV-0163	1.63	0.0642	32	60	3	74.70
ADRL-SV-0164	1.64	0.0646	32	60	3	74.70

ADRL-SV

Unit: mm

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-SV-0165	1.65	0.0650	32	60	3	74.70
ADRL-SV-0166	1.66	0.0654	32	60	3	74.70
ADRL-SV-0167	1.67	0.0657	32	60	3	74.70
ADRL-SV-0168	1.68	0.0661	32	60	3	74.70
ADRL-SV-0169	1.69	0.0665	32	60	3	74.70
ADRL-SV-0170	1.70	0.0669	32	60	3	74.70
ADRL-SV-0171	1.71	0.0673	32	60	3	74.70
ADRL-SV-0172	1.72	0.0677	32	60	3	74.70
ADRL-SV-0173	1.73	0.0681	32	60	3	74.70
ADRL-SV-0174	1.74	0.0685	32	60	3	74.70
ADRL-SV-0175	1.75	0.0689	32	60	3	74.70
ADRL-SV-0176	1.76	0.0693	32	60	3	74.70
ADRL-SV-0177	1.77	0.0697	32	60	3	74.70
ADRL-SV-0178	1.78	0.0701	32	60	3	74.70
ADRL-SV-0179	1.79	0.0705	32	60	3	74.70
ADRL-SV-0180	1.80	0.0709	32	60	3	74.70
ADRL-SV-0181	1.81	0.0713	32	60	3	74.70
ADRL-SV-0182	1.82	0.0717	32	60	3	74.70
ADRL-SV-0183	1.83	0.0720	32	60	3	74.70
ADRL-SV-0184	1.84	0.0724	32	60	3	74.70
ADRL-SV-0185	1.85	0.0728	32	60	3	74.70
ADRL-SV-0186	1.86	0.0732	32	60	3	74.70
ADRL-SV-0187	1.87	0.0736	32	60	3	74.70
ADRL-SV-0188	1.88	0.0740	32	60	3	74.70
ADRL-SV-0189	1.89	0.0744	32	60	3	74.70
ADRL-SV-0190	1.90	0.0748	32	60	3	74.70
ADRL-SV-0191	1.91	0.0752	32	60	3	74.70
ADRL-SV-0192	1.92	0.0756	32	60	3	74.70
ADRL-SV-0193	1.93	0.0760	32	60	3	74.70
ADRL-SV-0194	1.94	0.0764	32	60	3	74.70
ADRL-SV-0195	1.95	0.0768	32	60	3	74.70
ADRL-SV-0196	1.96	0.0772	32	60	3	74.70
ADRL-SV-0197	1.97	0.0776	32	60	3	74.70
ADRL-SV-0198	1.98	0.0780	32	60	3	74.70
ADRL-SV-0199	1.99	0.0783	32	60	3	74.70
ADRL-SV-0200	2.00	0.0787	32	60	3	74.70
ADRL-SV-0201	2.01	0.0791	32	60	3	74.70
ADRL-SV-0202	2.02	0.0795	32	60	3	74.70
ADRL-SV-0203	2.03	0.0799	32	60	3	74.70
ADRL-SV-0204	2.04	0.0803	32	60	3	74.70
ADRL-SV-0205	2.05	0.0807	32	60	3	74.70
ADRL-SV-0206	2.06	0.0811	32	60	3	74.70
ADRL-SV-0207	2.07	0.0815	32	60	3	74.70
ADRL-SV-0208	2.08	0.0819	32	60	3	74.70
ADRL-SV-0209	2.09	0.0823	32	60	3	74.70
ADRL-SV-0210	2.10	0.0827	32	60	3	74.70
ADRL-SV-0211	2.11	0.0831	32	60	3	74.70
ADRL-SV-0212	2.12	0.0835	32	60	3	74.70
ADRL-SV-0213	2.13	0.0839	32	60	3	74.70
ADRL-SV-0214	2.14	0.0843	32	60	3	74.70

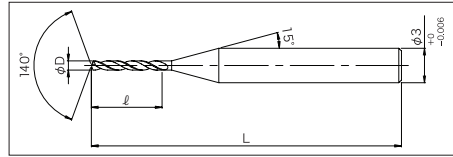
PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-SV-0215	2.15	0.0846	32	60	3	74.70
ADRL-SV-0216	2.16	0.0850	32	60	3	74.70
ADRL-SV-0217	2.17	0.0854	32	60	3	74.70
ADRL-SV-0218	2.18	0.0858	32	60	3	74.70
ADRL-SV-0219	2.19	0.0862	32	60	3	74.70
ADRL-SV-0220	2.20	0.0866	32	60	3	74.70
ADRL-SV-0221	2.21	0.0870	32	60	3	74.70
ADRL-SV-0222	2.22	0.0874	32	60	3	74.70
ADRL-SV-0223	2.23	0.0878	32	60	3	74.70
ADRL-SV-0224	2.24	0.0882	32	60	3	74.70
ADRL-SV-0225	2.25	0.0886	32	60	3	74.70
ADRL-SV-0226	2.26	0.0890	32	60	3	74.70
ADRL-SV-0227	2.27	0.0894	32	60	3	74.70
ADRL-SV-0228	2.28	0.0898	32	60	3	74.70
ADRL-SV-0229	2.29	0.0902	32	60	3	74.70
ADRL-SV-0230	2.30	0.0906	32	60	3	74.70
ADRL-SV-0231	2.31	0.0909	32	60	3	74.70
ADRL-SV-0232	2.32	0.0913	32	60	3	74.70
ADRL-SV-0233	2.33	0.0917	32	60	3	74.70
ADRL-SV-0234	2.34	0.0921	32	60	3	74.70
ADRL-SV-0235	2.35	0.0925	32	60	3	74.70
ADRL-SV-0236	2.36	0.0929	32	60	3	74.70
ADRL-SV-0237	2.37	0.0933	32	60	3	74.70
ADRL-SV-0238	2.38	0.0937	32	60	3	74.70
ADRL-SV-0239	2.39	0.0941	32	60	3	74.70
ADRL-SV-0240	2.40	0.0945	32	60	3	74.70
ADRL-SV-0241	2.41	0.0949	32	60	3	74.70
ADRL-SV-0242	2.42	0.0953	32	60	3	74.70
ADRL-SV-0243	2.43	0.0957	32	60	3	74.70
ADRL-SV-0244	2.44	0.0961	32	60	3	74.70
ADRL-SV-0245	2.45	0.0965	32	60	3	74.70
ADRL-SV-0246	2.46	0.0969	32	60	3	74.70
ADRL-SV-0247	2.47	0.0972	32	60	3	74.70
ADRL-SV-0248	2.48	0.0976	32	60	3	74.70
ADRL-SV-0249	2.49	0.0980	32	60	3	74.70
ADRL-SV-0250	2.50	0.0984	32	60	3	74.70
ADRL-SV-0251	2.51	0.0988	32	60	3	74.70
ADRL-SV-0252	2.52	0.0992	32	60	3	74.70
ADRL-SV-0253	2.53	0.0996	32	60	3	74.70
ADRL-SV-0254	2.54	0.1000	32	60	3	74.70
ADRL-SV-0255	2.55	0.1004	32	60	3	74.70
ADRL-SV-0256	2.56	0.1008	32	60	3	74.70
ADRL-SV-0257	2.57	0.1012	32	60	3	74.70
ADRL-SV-0258	2.58	0.1016	32	60	3	74.70
ADRL-SV-0259	2.59	0.1020	32	60	3	74.70
ADRL-SV-0260	2.60	0.1024	32	60	3	74.70
ADRL-SV-0261	2.61	0.1028	32	60	3	74.70
ADRL-SV-0262	2.62	0.1031	32	60	3	74.70
ADRL-SV-0263	2.63	0.1035	32	60	3	74.70
ADRL-SV-0264	2.64	0.1039	32	60	3	74.70

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-SV-0265	2.65	0.1043	32	60	3	74.70
ADRL-SV-0266	2.66	0.1047	32	60	3	74.70
ADRL-SV-0267	2.67	0.1051	32	60	3	74.70
ADRL-SV-0268	2.68	0.1055	32	60	3	74.70
ADRL-SV-0269	2.69	0.1059	32	60	3	74.70
ADRL-SV-0270	2.70	0.1063	40	65	3	74.70
ADRL-SV-0271	2.71	0.1067	40	65	3	74.70
ADRL-SV-0272	2.72	0.1071	40	65	3	74.70
ADRL-SV-0273	2.73	0.1075	40	65	3	74.70
ADRL-SV-0274	2.74	0.1079	40	65	3	74.70
ADRL-SV-0275	2.75	0.1083	40	65	3	74.70
ADRL-SV-0276	2.76	0.1087	40	65	3	74.70
ADRL-SV-0277	2.77	0.1091	40	65	3	74.70
ADRL-SV-0278	2.78	0.1094	40	65	3	74.70
ADRL-SV-0279	2.79	0.1098	40	65	3	74.70
ADRL-SV-0280	2.80	0.1102	40	65	3	74.70
ADRL-SV-0281	2.81	0.1106	40	65	3	74.70
ADRL-SV-0282	2.82	0.1110	40	65	3	74.70
ADRL-SV-0283	2.83	0.1114	40	65	3	74.70
ADRL-SV-0284	2.84	0.1118	40	65	3	74.70
ADRL-SV-0285	2.85	0.1122	40	65	3	74.70
ADRL-SV-0286	2.86	0.1126	40	65	3	74.70
ADRL-SV-0287	2.87	0.1130	40	65	3	74.70
ADRL-SV-0288	2.88	0.1134	40	65	3	74.70
ADRL-SV-0289	2.89	0.1138	40	65	3	74.70
ADRL-SV-0290	2.90	0.1142	40	65	3	74.70
ADRL-SV-0291	2.91	0.1146	40	65	3	74.70
ADRL-SV-0292	2.92	0.1150	40	65	3	74.70
ADRL-SV-0293	2.93	0.1154	40	65	3	74.70
ADRL-SV-0294	2.94	0.1157	40	65	3	74.70
ADRL-SV-0295	2.95	0.1161	40	65	3	74.70
ADRL-SV-0296	2.96	0.1165	40	65	3	74.70
ADRL-SV-0297	2.97	0.1169	40	65	3	74.70
ADRL-SV-0298	2.98	0.1173	40	65	3	74.70
ADRL-SV-0299	2.99	0.1177	40	65	3	74.70
ADRL-SV-0300	3.00	0.1181	40	65	3	74.70

Micro Drill for Hard-to-Cut Materials

ADR-SUS

FCS Coating



- High stiffness design for minimizing tool breakage
- High performance with hard-to-cut materials, including stainless steels (400 series), nickel alloys, and hardened steels up to 50 HRC



ØD ≥ 0.3



ØD Tolerance: +0 ~ -0.01

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADR-SUS-0010	0.10	0.0039	1	38	3	70.80
ADR-SUS-0011	0.11	0.0043	1.1	38	3	70.80
ADR-SUS-0012	0.12	0.0047	1.2	38	3	70.80
ADR-SUS-0013	0.13	0.0051	1.3	38	3	70.80
ADR-SUS-0014	0.14	0.0055	1.4	38	3	70.80
ADR-SUS-0015	0.15	0.0059	1.5	38	3	65.10
ADR-SUS-0016	0.16	0.0063	1.5	38	3	65.10
ADR-SUS-0017	0.17	0.0067	1.5	38	3	65.10
ADR-SUS-0018	0.18	0.0071	1.8	38	3	65.10
ADR-SUS-0019	0.19	0.0075	1.8	38	3	65.10
ADR-SUS-0020	0.20	0.0079	2	38	3	61.30
ADR-SUS-0021	0.21	0.0083	2	38	3	61.30
ADR-SUS-0022	0.22	0.0087	2	38	3	61.30
ADR-SUS-0023	0.23	0.0091	2.3	38	3	61.30
ADR-SUS-0024	0.24	0.0094	2.3	38	3	61.30
ADR-SUS-0025	0.25	0.0098	2.5	38	3	61.30
ADR-SUS-0026	0.26	0.0102	2.5	38	3	61.30
ADR-SUS-0027	0.27	0.0106	2.5	38	3	61.30
ADR-SUS-0028	0.28	0.0110	2.8	38	3	61.30
ADR-SUS-0029	0.29	0.0114	2.8	38	3	61.30
ADR-SUS-0030	0.30	0.0118	3	38	3	54.30
ADR-SUS-0031	0.31	0.0122	3	38	3	58.10
ADR-SUS-0032	0.32	0.0126	3	38	3	58.10
ADR-SUS-0033	0.33	0.0130	3.3	38	3	58.10
ADR-SUS-0034	0.34	0.0134	3.3	38	3	58.10
ADR-SUS-0035	0.35	0.0138	3.5	38	3	58.10
ADR-SUS-0036	0.36	0.0142	3.5	38	3	58.10
ADR-SUS-0037	0.37	0.0146	3.5	38	3	58.10
ADR-SUS-0038	0.38	0.0150	3.8	38	3	58.10
ADR-SUS-0039	0.39	0.0154	3.8	38	3	58.10
ADR-SUS-0040	0.40	0.0157	4	38	3	54.30

Unit: mm

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADR-SUS-0041	0.41	0.0161	4	38	3	58.10
ADR-SUS-0042	0.42	0.0165	4	38	3	58.10
ADR-SUS-0043	0.43	0.0169	4	38	3	58.10
ADR-SUS-0044	0.44	0.0173	4	38	3	58.10
ADR-SUS-0045	0.45	0.0177	4.5	38	3	58.10
ADR-SUS-0046	0.46	0.0181	4.5	38	3	58.10
ADR-SUS-0047	0.47	0.0185	4.5	38	3	58.10
ADR-SUS-0048	0.48	0.0189	4.5	38	3	58.10
ADR-SUS-0049	0.49	0.0193	4.5	38	3	58.10
ADR-SUS-0050	0.50	0.0197	5	38	3	54.30
ADR-SUS-0051	0.51	0.0201	5	38	3	58.10
ADR-SUS-0052	0.52	0.0205	5	38	3	58.10
ADR-SUS-0053	0.53	0.0209	5	38	3	58.10
ADR-SUS-0054	0.54	0.0213	5	38	3	58.10
ADR-SUS-0055	0.55	0.0217	5.5	38	3	58.10
ADR-SUS-0056	0.56	0.0220	5.5	38	3	58.10
ADR-SUS-0057	0.57	0.0224	5.5	38	3	58.10
ADR-SUS-0058	0.58	0.0228	5.5	38	3	58.10
ADR-SUS-0059	0.59	0.0232	5.5	38	3	58.10
ADR-SUS-0060	0.60	0.0236	6	38	3	54.30
ADR-SUS-0061	0.61	0.0240	6	38	3	58.10
ADR-SUS-0062	0.62	0.0244	6	38	3	58.10
ADR-SUS-0063	0.63	0.0248	6	38	3	58.10
ADR-SUS-0064	0.64	0.0252	6	38	3	58.10
ADR-SUS-0065	0.65	0.0256	6.5	38	3	58.10
ADR-SUS-0066	0.66	0.0260	6.5	38	3	58.10
ADR-SUS-0067	0.67	0.0264	6.5	38	3	58.10
ADR-SUS-0068	0.68	0.0268	6.5	38	3	58.10
ADR-SUS-0069	0.69	0.0272	6.5	38	3	58.10
ADR-SUS-0070	0.70	0.0276	7	38	3	54.30
ADR-SUS-0071	0.71	0.0280	7	38	3	58.10

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADR-SUS-0072	0.72	0.0283	7	38	3	58.10
ADR-SUS-0073	0.73	0.0287	7	38	3	58.10
ADR-SUS-0074	0.74	0.0291	7	38	3	58.10
ADR-SUS-0075	0.75	0.0295	7.5	38	3	58.10
ADR-SUS-0076	0.76	0.0299	7.5	38	3	58.10
ADR-SUS-0077	0.77	0.0303	7.5	38	3	58.10
ADR-SUS-0078	0.78	0.0307	7.5	38	3	58.10
ADR-SUS-0079	0.79	0.0311	7.5	38	3	58.10
ADR-SUS-0080	0.80	0.0315	8	38	3	54.30
ADR-SUS-0081	0.81	0.0319	8	38	3	58.10
ADR-SUS-0082	0.82	0.0323	8	38	3	58.10
ADR-SUS-0083	0.83	0.0327	8	38	3	58.10
ADR-SUS-0084	0.84	0.0331	8	38	3	58.10
ADR-SUS-0085	0.85	0.0335	8	38	3	58.10
ADR-SUS-0086	0.86	0.0339	8	38	3	58.10
ADR-SUS-0087	0.87	0.0343	8	38	3	58.10
ADR-SUS-0088	0.88	0.0346	8	38	3	58.10
ADR-SUS-0089	0.89	0.0350	8	38	3	58.10
ADR-SUS-0090	0.90	0.0354	9	38	3	54.30
ADR-SUS-0091	0.91	0.0358	9	38	3	58.10
ADR-SUS-0092	0.92	0.0362	9	38	3	58.10
ADR-SUS-0093	0.93	0.0366	9	38	3	58.10
ADR-SUS-0094	0.94	0.0370	9	38	3	58.10
ADR-SUS-0095	0.95	0.0374	9	38	3	58.10
ADR-SUS-0096	0.96	0.0378	9	38	3	58.10
ADR-SUS-0097	0.97	0.0382	9	38	3	58.10
ADR-SUS-0098	0.98	0.0386	9	38	3	58.10
ADR-SUS-0099	0.99	0.0390	9	38	3	58.10
ADR-SUS-0100	1.00	0.0394	10	38	3	50.40
ADR-SUS-0101	1.01	0.0398	10	38	3	54.30
ADR-SUS-0102	1.02	0.0402	10	38	3	54.30
ADR-SUS-0103	1.03	0.0406	10	38	3	54.30
ADR-SUS-0104	1.04	0.0409	10	38	3	54.30
ADR-SUS-0105	1.05	0.0413	10	38	3	54.30
ADR-SUS-0106	1.06	0.0417	10	38	3	54.30
ADR-SUS-0107	1.07	0.0421	10	38	3	54.30
ADR-SUS-0108	1.08	0.0425	10	38	3	54.30
ADR-SUS-0109	1.09	0.0429	10	38	3	54.30
ADR-SUS-0110	1.10	0.0433	10	38	3	50.40
ADR-SUS-0111	1.11	0.0437	10	38	3	54.30
ADR-SUS-0112	1.12	0.0441	10	38	3	54.30
ADR-SUS-0113	1.13	0.0445	10	38	3	54.30
ADR-SUS-0114	1.14	0.0449	10	38	3	54.30
ADR-SUS-0115	1.15	0.0453	10	38	3	54.30
ADR-SUS-0116	1.16	0.0457	10	38	3	54.30
ADR-SUS-0117	1.17	0.0461	10	38	3	54.30
ADR-SUS-0118	1.18	0.0465	10	38	3	54.30
ADR-SUS-0119	1.19	0.0469	10	38	3	54.30
ADR-SUS-0120	1.20	0.0472	10	38	3	50.40
ADR-SUS-0121	1.21	0.0476	10	38	3	54.30

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADR-SUS-0122	1.22	0.0480	10	38	3	54.30
ADR-SUS-0123	1.23	0.0484	10	38	3	54.30
ADR-SUS-0124	1.24	0.0488	10	38	3	54.30
ADR-SUS-0125	1.25	0.0492	10	38	3	54.30
ADR-SUS-0126	1.26	0.0496	10	38	3	54.30
ADR-SUS-0127	1.27	0.0500	10	38	3	54.30
ADR-SUS-0128	1.28	0.0504	10	38	3	54.30
ADR-SUS-0129	1.29	0.0508	10	38	3	54.30
ADR-SUS-0130	1.30	0.0512	10	38	3	50.40
ADR-SUS-0131	1.31	0.0516	10	38	3	54.30
ADR-SUS-0132	1.32	0.0520	10	38	3	54.30
ADR-SUS-0133	1.33	0.0524	10	38	3	54.30
ADR-SUS-0134	1.34	0.0528	10	38	3	54.30
ADR-SUS-0135	1.35	0.0531	10	38	3	54.30
ADR-SUS-0136	1.36	0.0535	10	38	3	54.30
ADR-SUS-0137	1.37	0.0539	10	38	3	54.30
ADR-SUS-0138	1.38	0.0543	10	38	3	54.30
ADR-SUS-0139	1.39	0.0547	10	38	3	54.30
ADR-SUS-0140	1.40	0.0551	10	38	3	50.40
ADR-SUS-0141	1.41	0.0555	10	38	3	54.30
ADR-SUS-0142	1.42	0.0559	10	38	3	54.30
ADR-SUS-0143	1.43	0.0563	10	38	3	54.30
ADR-SUS-0144	1.44	0.0567	10	38	3	54.30
ADR-SUS-0145	1.45	0.0571	10	38	3	54.30
ADR-SUS-0146	1.46	0.0575	10	38	3	54.30
ADR-SUS-0147	1.47	0.0579	10	38	3	54.30
ADR-SUS-0148	1.48	0.0583	10	38	3	54.30
ADR-SUS-0149	1.49	0.0587	10	38	3	54.30
ADR-SUS-0150	1.50	0.0591	10	38	3	50.40
ADR-SUS-0151	1.51	0.0594	10	38	3	54.30
ADR-SUS-0152	1.52	0.0598	10	38	3	54.30
ADR-SUS-0153	1.53	0.0602	10	38	3	54.30
ADR-SUS-0154	1.54	0.0606	10	38	3	54.30
ADR-SUS-0155	1.55	0.0610	10	38	3	54.30
ADR-SUS-0156	1.56	0.0614	10	38	3	54.30
ADR-SUS-0157	1.57	0.0618	10	38	3	54.30
ADR-SUS-0158	1.58	0.0622	10	38	3	54.30
ADR-SUS-0159	1.59	0.0626	10	38	3	54.30
ADR-SUS-0160	1.60	0.0630	12	45	3	50.80
ADR-SUS-0161	1.61	0.0634	12	45	3	54.60
ADR-SUS-0162	1.62	0.0638	12	45	3	54.60
ADR-SUS-0163	1.63	0.0642	12	45	3	54.60
ADR-SUS-0164	1.64	0.0646	12	45	3	54.60
ADR-SUS-0165	1.65	0.0650	12	45	3	54.60
ADR-SUS-0166	1.66	0.0654	12	45	3	54.60
ADR-SUS-0167	1.67	0.0657	12	45	3	54.60
ADR-SUS-0168	1.68	0.0661	12	45	3	54.60
ADR-SUS-0169	1.69	0.0665	12	45	3	54.60
ADR-SUS-0170	1.70	0.0669	12	45	3	50.80
ADR-SUS-0171	1.71	0.0673	12	45	3	54.60

ADR-SUS

Unit: mm

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADR-SUS-0172	1.72	0.0677	12	45	3	54.60
ADR-SUS-0173	1.73	0.0681	12	45	3	54.60
ADR-SUS-0174	1.74	0.0685	12	45	3	54.60
ADR-SUS-0175	1.75	0.0689	12	45	3	54.60
ADR-SUS-0176	1.76	0.0693	12	45	3	54.60
ADR-SUS-0177	1.77	0.0697	12	45	3	54.60
ADR-SUS-0178	1.78	0.0701	12	45	3	54.60
ADR-SUS-0179	1.79	0.0705	12	45	3	54.60
ADR-SUS-0180	1.80	0.0709	12	45	3	50.80
ADR-SUS-0181	1.81	0.0713	12	45	3	54.60
ADR-SUS-0182	1.82	0.0717	12	45	3	54.60
ADR-SUS-0183	1.83	0.0720	12	45	3	54.60
ADR-SUS-0184	1.84	0.0724	12	45	3	54.60
ADR-SUS-0185	1.85	0.0728	12	45	3	54.60
ADR-SUS-0186	1.86	0.0732	12	45	3	54.60
ADR-SUS-0187	1.87	0.0736	12	45	3	54.60
ADR-SUS-0188	1.88	0.0740	12	45	3	54.60
ADR-SUS-0189	1.89	0.0744	12	45	3	54.60
ADR-SUS-0190	1.90	0.0748	12	45	3	50.80
ADR-SUS-0191	1.91	0.0752	12	45	3	54.60
ADR-SUS-0192	1.92	0.0756	12	45	3	54.60
ADR-SUS-0193	1.93	0.0760	12	45	3	54.60
ADR-SUS-0194	1.94	0.0764	12	45	3	54.60
ADR-SUS-0195	1.95	0.0768	12	45	3	54.60
ADR-SUS-0196	1.96	0.0772	12	45	3	54.60
ADR-SUS-0197	1.97	0.0776	12	45	3	54.60
ADR-SUS-0198	1.98	0.0780	12	45	3	54.60
ADR-SUS-0199	1.99	0.0783	12	45	3	54.60
ADR-SUS-0200	2.00	0.0787	12	45	3	50.80
ADR-SUS-0201	2.01	0.0791	12	45	3	54.60
ADR-SUS-0202	2.02	0.0795	12	45	3	54.60
ADR-SUS-0203	2.03	0.0799	12	45	3	54.60
ADR-SUS-0204	2.04	0.0803	12	45	3	54.60
ADR-SUS-0205	2.05	0.0807	12	45	3	54.60
ADR-SUS-0206	2.06	0.0811	12	45	3	54.60
ADR-SUS-0207	2.07	0.0815	12	45	3	54.60
ADR-SUS-0208	2.08	0.0819	12	45	3	54.60
ADR-SUS-0209	2.09	0.0823	12	45	3	54.60
ADR-SUS-0210	2.10	0.0827	12	45	3	50.80
ADR-SUS-0211	2.11	0.0831	12	45	3	54.60
ADR-SUS-0212	2.12	0.0835	12	45	3	54.60
ADR-SUS-0213	2.13	0.0839	12	45	3	54.60
ADR-SUS-0214	2.14	0.0843	12	45	3	54.60
ADR-SUS-0215	2.15	0.0846	12	45	3	54.60
ADR-SUS-0216	2.16	0.0850	12	45	3	54.60
ADR-SUS-0217	2.17	0.0854	12	45	3	54.60
ADR-SUS-0218	2.18	0.0858	12	45	3	54.60
ADR-SUS-0219	2.19	0.0862	12	45	3	54.60
ADR-SUS-0220	2.20	0.0866	12	45	3	50.80
ADR-SUS-0221	2.21	0.0870	12	45	3	54.60

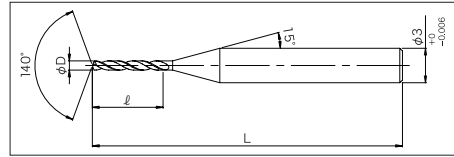
PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADR-SUS-0222	2.22	0.0874	12	45	3	54.60
ADR-SUS-0223	2.23	0.0878	12	45	3	54.60
ADR-SUS-0224	2.24	0.0882	12	45	3	54.60
ADR-SUS-0225	2.25	0.0886	12	45	3	54.60
ADR-SUS-0226	2.26	0.0890	12	45	3	54.60
ADR-SUS-0227	2.27	0.0894	12	45	3	54.60
ADR-SUS-0228	2.28	0.0898	12	45	3	54.60
ADR-SUS-0229	2.29	0.0902	12	45	3	54.60
ADR-SUS-0230	2.30	0.0906	12	45	3	50.80
ADR-SUS-0231	2.31	0.0909	12	45	3	54.60
ADR-SUS-0232	2.32	0.0913	12	45	3	54.60
ADR-SUS-0233	2.33	0.0917	12	45	3	54.60
ADR-SUS-0234	2.34	0.0921	12	45	3	54.60
ADR-SUS-0235	2.35	0.0925	12	45	3	54.60
ADR-SUS-0236	2.36	0.0929	12	45	3	54.60
ADR-SUS-0237	2.37	0.0933	12	45	3	54.60
ADR-SUS-0238	2.38	0.0937	12	45	3	54.60
ADR-SUS-0239	2.39	0.0941	12	45	3	54.60
ADR-SUS-0240	2.40	0.0945	12	45	3	50.80
ADR-SUS-0241	2.41	0.0949	12	45	3	54.60
ADR-SUS-0242	2.42	0.0953	12	45	3	54.60
ADR-SUS-0243	2.43	0.0957	12	45	3	54.60
ADR-SUS-0244	2.44	0.0961	12	45	3	54.60
ADR-SUS-0245	2.45	0.0965	12	45	3	54.60
ADR-SUS-0246	2.46	0.0969	12	45	3	54.60
ADR-SUS-0247	2.47	0.0972	12	45	3	54.60
ADR-SUS-0248	2.48	0.0976	12	45	3	54.60
ADR-SUS-0249	2.49	0.0980	12	45	3	54.60
ADR-SUS-0250	2.50	0.0984	12	45	3	50.80
ADR-SUS-0251	2.51	0.0988	12	45	3	54.60
ADR-SUS-0252	2.52	0.0992	12	45	3	54.60
ADR-SUS-0253	2.53	0.0996	12	45	3	54.60
ADR-SUS-0254	2.54	0.1000	12	45	3	54.60
ADR-SUS-0255	2.55	0.1004	12	45	3	54.60
ADR-SUS-0256	2.56	0.1008	12	45	3	54.60
ADR-SUS-0257	2.57	0.1012	12	45	3	54.60
ADR-SUS-0258	2.58	0.1016	12	45	3	54.60
ADR-SUS-0259	2.59	0.1020	12	45	3	54.60
ADR-SUS-0260	2.60	0.1024	12	45	3	50.80
ADR-SUS-0261	2.61	0.1028	12	45	3	54.60
ADR-SUS-0262	2.62	0.1031	12	45	3	54.60
ADR-SUS-0263	2.63	0.1035	12	45	3	54.60
ADR-SUS-0264	2.64	0.1039	12	45	3	54.60
ADR-SUS-0265	2.65	0.1043	12	45	3	54.60
ADR-SUS-0266	2.66	0.1047	12	45	3	54.60
ADR-SUS-0267	2.67	0.1051	12	45	3	54.60
ADR-SUS-0268	2.68	0.1055	12	45	3	54.60
ADR-SUS-0269	2.69	0.1059	12	45	3	54.60
ADR-SUS-0270	2.70	0.1063	15	45	3	50.80
ADR-SUS-0271	2.71	0.1067	15	45	3	54.60

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADR-SUS-0272	2.72	0.1071	15	45	3	54.60
ADR-SUS-0273	2.73	0.1075	15	45	3	54.60
ADR-SUS-0274	2.74	0.1079	15	45	3	54.60
ADR-SUS-0275	2.75	0.1083	15	45	3	54.60
ADR-SUS-0276	2.76	0.1087	15	45	3	54.60
ADR-SUS-0277	2.77	0.1091	15	45	3	54.60
ADR-SUS-0278	2.78	0.1094	15	45	3	54.60
ADR-SUS-0279	2.79	0.1098	15	45	3	54.60
ADR-SUS-0280	2.80	0.1102	15	45	3	50.80
ADR-SUS-0281	2.81	0.1106	15	45	3	54.60
ADR-SUS-0282	2.82	0.1110	15	45	3	54.60
ADR-SUS-0283	2.83	0.1114	15	45	3	54.60
ADR-SUS-0284	2.84	0.1118	15	45	3	54.60
ADR-SUS-0285	2.85	0.1122	15	45	3	54.60
ADR-SUS-0286	2.86	0.1126	15	45	3	54.60
ADR-SUS-0287	2.87	0.1130	15	45	3	54.60
ADR-SUS-0288	2.88	0.1134	15	45	3	54.60
ADR-SUS-0289	2.89	0.1138	15	45	3	54.60
ADR-SUS-0290	2.90	0.1142	15	45	3	50.80
ADR-SUS-0291	2.91	0.1146	15	45	3	54.60
ADR-SUS-0292	2.92	0.1150	15	45	3	54.60
ADR-SUS-0293	2.93	0.1154	15	45	3	54.60
ADR-SUS-0294	2.94	0.1157	15	45	3	54.60
ADR-SUS-0295	2.95	0.1161	15	45	3	54.60
ADR-SUS-0296	2.96	0.1165	15	45	3	54.60
ADR-SUS-0297	2.97	0.1169	15	45	3	54.60
ADR-SUS-0298	2.98	0.1173	15	45	3	54.60
ADR-SUS-0299	2.99	0.1177	15	45	3	54.60
ADR-SUS-0300	3.00	0.1181	15	45	3	50.80

Micro Drill for Hard-to-Cut Materials, Long Flute Length

FCS Coating

ADRL-SUS



- High stiffness design for minimizing tool breakage
- High performance with hard-to-cut materials, including stainless steels (400 series), nickel alloys, and hardened steels up to 50 HRC



ØD Tolerance: +0~-0.01

Unit: mm

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-SUS-0010	0.10	0.0039	1.5	38	3	78.50
ADRL-SUS-0011	0.11	0.0043	1.7	38	3	78.50
ADRL-SUS-0012	0.12	0.0047	1.8	38	3	78.50
ADRL-SUS-0013	0.13	0.0051	2	38	3	78.50
ADRL-SUS-0014	0.14	0.0055	2	38	3	78.50
ADRL-SUS-0015	0.15	0.0059	2.3	38	3	74.00
ADRL-SUS-0016	0.16	0.0063	2.3	38	3	74.00
ADRL-SUS-0017	0.17	0.0067	2.3	38	3	74.00
ADRL-SUS-0018	0.18	0.0071	2.7	38	3	74.00
ADRL-SUS-0019	0.19	0.0075	2.7	38	3	74.00
ADRL-SUS-0020	0.20	0.0079	3	38	3	68.90
ADRL-SUS-0021	0.21	0.0083	3	38	3	70.50
ADRL-SUS-0022	0.22	0.0087	3	38	3	70.50
ADRL-SUS-0023	0.23	0.0091	3.5	38	3	70.50
ADRL-SUS-0024	0.24	0.0094	3.5	38	3	70.50
ADRL-SUS-0025	0.25	0.0098	3.8	38	3	70.50
ADRL-SUS-0026	0.26	0.0102	3.8	38	3	70.50
ADRL-SUS-0027	0.27	0.0106	3.8	38	3	70.50
ADRL-SUS-0028	0.28	0.0110	4.2	38	3	70.50
ADRL-SUS-0029	0.29	0.0114	4.2	38	3	70.50
ADRL-SUS-0030	0.30	0.0118	4.5	38	3	66.70
ADRL-SUS-0031	0.31	0.0122	4.5	38	3	68.60
ADRL-SUS-0032	0.32	0.0126	4.5	38	3	68.60
ADRL-SUS-0033	0.33	0.0130	5	38	3	68.60
ADRL-SUS-0034	0.34	0.0134	5	38	3	68.60
ADRL-SUS-0035	0.35	0.0138	5.3	38	3	68.60
ADRL-SUS-0036	0.36	0.0142	5.3	38	3	68.60
ADRL-SUS-0037	0.37	0.0146	5.3	38	3	68.60
ADRL-SUS-0038	0.38	0.0150	5.7	38	3	68.60
ADRL-SUS-0039	0.39	0.0154	5.7	38	3	68.60
ADRL-SUS-0040	0.40	0.0157	6	38	3	64.80

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-SUS-0041	0.41	0.0161	6	38	3	68.60
ADRL-SUS-0042	0.42	0.0165	6	38	3	68.60
ADRL-SUS-0043	0.43	0.0169	6	38	3	68.60
ADRL-SUS-0044	0.44	0.0173	6	38	3	68.60
ADRL-SUS-0045	0.45	0.0177	7	38	3	68.60
ADRL-SUS-0046	0.46	0.0181	7	38	3	68.60
ADRL-SUS-0047	0.47	0.0185	7	38	3	68.60
ADRL-SUS-0048	0.48	0.0189	7	38	3	68.60
ADRL-SUS-0049	0.49	0.0193	7	38	3	68.60
ADRL-SUS-0050	0.50	0.0197	7.5	38	3	64.80
ADRL-SUS-0051	0.51	0.0201	7.5	38	3	68.60
ADRL-SUS-0052	0.52	0.0205	7.5	38	3	68.60
ADRL-SUS-0053	0.53	0.0209	7.5	38	3	68.60
ADRL-SUS-0054	0.54	0.0213	7.5	38	3	68.60
ADRL-SUS-0055	0.55	0.0217	8.5	38	3	68.60
ADRL-SUS-0056	0.56	0.0220	8.5	38	3	68.60
ADRL-SUS-0057	0.57	0.0224	8.5	38	3	68.60
ADRL-SUS-0058	0.58	0.0228	8.5	38	3	68.60
ADRL-SUS-0059	0.59	0.0232	8.5	38	3	68.60
ADRL-SUS-0060	0.60	0.0236	9	38	3	64.80
ADRL-SUS-0061	0.61	0.0240	9	38	3	68.60
ADRL-SUS-0062	0.62	0.0244	9	38	3	68.60
ADRL-SUS-0063	0.63	0.0248	9	38	3	68.60
ADRL-SUS-0064	0.64	0.0252	9	38	3	68.60
ADRL-SUS-0065	0.65	0.0256	10	38	3	68.60
ADRL-SUS-0066	0.66	0.0260	10	38	3	68.60
ADRL-SUS-0067	0.67	0.0264	10	38	3	68.60
ADRL-SUS-0068	0.68	0.0268	10	38	3	68.60
ADRL-SUS-0069	0.69	0.0272	10	38	3	68.60
ADRL-SUS-0070	0.70	0.0276	10.5	38	3	64.80
ADRL-SUS-0071	0.71	0.0280	10.5	38	3	68.60

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-SUS-0072	0.72	0.0283	10.5	38	3	68.60
ADRL-SUS-0073	0.73	0.0287	10.5	38	3	68.60
ADRL-SUS-0074	0.74	0.0291	10.5	38	3	68.60
ADRL-SUS-0075	0.75	0.0295	11.5	38	3	68.60
ADRL-SUS-0076	0.76	0.0299	11.5	38	3	68.60
ADRL-SUS-0077	0.77	0.0303	11.5	38	3	68.60
ADRL-SUS-0078	0.78	0.0307	11.5	38	3	68.60
ADRL-SUS-0079	0.79	0.0311	11.5	38	3	68.60
ADRL-SUS-0080	0.80	0.0315	12.5	45	3	64.80
ADRL-SUS-0081	0.81	0.0319	12.5	45	3	68.60
ADRL-SUS-0082	0.82	0.0323	12.5	45	3	68.60
ADRL-SUS-0083	0.83	0.0327	12.5	45	3	68.60
ADRL-SUS-0084	0.84	0.0331	12.5	45	3	68.60
ADRL-SUS-0085	0.85	0.0335	12.5	45	3	68.60
ADRL-SUS-0086	0.86	0.0339	12.5	45	3	68.60
ADRL-SUS-0087	0.87	0.0343	12.5	45	3	68.60
ADRL-SUS-0088	0.88	0.0346	12.5	45	3	68.60
ADRL-SUS-0089	0.89	0.0350	12.5	45	3	68.60
ADRL-SUS-0090	0.90	0.0354	14	45	3	64.80
ADRL-SUS-0091	0.91	0.0358	14	45	3	68.60
ADRL-SUS-0092	0.92	0.0362	14	45	3	68.60
ADRL-SUS-0093	0.93	0.0366	14	45	3	68.60
ADRL-SUS-0094	0.94	0.0370	14	45	3	68.60
ADRL-SUS-0095	0.95	0.0374	14	45	3	68.60
ADRL-SUS-0096	0.96	0.0378	14	45	3	68.60
ADRL-SUS-0097	0.97	0.0382	14	45	3	68.60
ADRL-SUS-0098	0.98	0.0386	14	45	3	68.60
ADRL-SUS-0099	0.99	0.0390	14	45	3	68.60
ADRL-SUS-0100	1.00	0.0394	15	45	3	62.50
ADRL-SUS-0101	1.01	0.0398	15	45	3	66.40
ADRL-SUS-0102	1.02	0.0402	15	45	3	66.40
ADRL-SUS-0103	1.03	0.0406	15	45	3	66.40
ADRL-SUS-0104	1.04	0.0409	15	45	3	66.40
ADRL-SUS-0105	1.05	0.0413	15	45	3	66.40
ADRL-SUS-0106	1.06	0.0417	15	45	3	66.40
ADRL-SUS-0107	1.07	0.0421	15	45	3	66.40
ADRL-SUS-0108	1.08	0.0425	15	45	3	66.40
ADRL-SUS-0109	1.09	0.0429	15	45	3	66.40
ADRL-SUS-0110	1.10	0.0433	15	45	3	62.50
ADRL-SUS-0111	1.11	0.0437	15	45	3	66.40
ADRL-SUS-0112	1.12	0.0441	15	45	3	66.40
ADRL-SUS-0113	1.13	0.0445	15	45	3	66.40
ADRL-SUS-0114	1.14	0.0449	15	45	3	66.40
ADRL-SUS-0115	1.15	0.0453	15	45	3	66.40
ADRL-SUS-0116	1.16	0.0457	15	45	3	66.40
ADRL-SUS-0117	1.17	0.0461	15	45	3	66.40
ADRL-SUS-0118	1.18	0.0465	15	45	3	66.40
ADRL-SUS-0119	1.19	0.0469	15	45	3	66.40
ADRL-SUS-0120	1.20	0.0472	15	45	3	62.50
ADRL-SUS-0121	1.21	0.0476	15	45	3	66.40

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-SUS-0122	1.22	0.0480	15	45	3	66.40
ADRL-SUS-0123	1.23	0.0484	15	45	3	66.40
ADRL-SUS-0124	1.24	0.0488	15	45	3	66.40
ADRL-SUS-0125	1.25	0.0492	15	45	3	66.40
ADRL-SUS-0126	1.26	0.0496	15	45	3	66.40
ADRL-SUS-0127	1.27	0.0500	15	45	3	66.40
ADRL-SUS-0128	1.28	0.0504	15	45	3	66.40
ADRL-SUS-0129	1.29	0.0508	15	45	3	66.40
ADRL-SUS-0130	1.30	0.0512	17	45	3	62.50
ADRL-SUS-0131	1.31	0.0516	17	45	3	66.40
ADRL-SUS-0132	1.32	0.0520	17	45	3	66.40
ADRL-SUS-0133	1.33	0.0524	17	45	3	66.40
ADRL-SUS-0134	1.34	0.0528	17	45	3	66.40
ADRL-SUS-0135	1.35	0.0531	17	45	3	66.40
ADRL-SUS-0136	1.36	0.0535	17	45	3	66.40
ADRL-SUS-0137	1.37	0.0539	17	45	3	66.40
ADRL-SUS-0138	1.38	0.0543	17	45	3	66.40
ADRL-SUS-0139	1.39	0.0547	17	45	3	66.40
ADRL-SUS-0140	1.40	0.0551	17	45	3	62.50
ADRL-SUS-0141	1.41	0.0555	17	45	3	66.40
ADRL-SUS-0142	1.42	0.0559	17	45	3	66.40
ADRL-SUS-0143	1.43	0.0563	17	45	3	66.40
ADRL-SUS-0144	1.44	0.0567	17	45	3	66.40
ADRL-SUS-0145	1.45	0.0571	17	45	3	66.40
ADRL-SUS-0146	1.46	0.0575	17	45	3	66.40
ADRL-SUS-0147	1.47	0.0579	17	45	3	66.40
ADRL-SUS-0148	1.48	0.0583	17	45	3	66.40
ADRL-SUS-0149	1.49	0.0587	17	45	3	66.40
ADRL-SUS-0150	1.50	0.0591	17	45	3	62.50
ADRL-SUS-0151	1.51	0.0594	17	45	3	66.40
ADRL-SUS-0152	1.52	0.0598	17	45	3	66.40
ADRL-SUS-0153	1.53	0.0602	17	45	3	66.40
ADRL-SUS-0154	1.54	0.0606	17	45	3	66.40
ADRL-SUS-0155	1.55	0.0610	17	45	3	66.40
ADRL-SUS-0156	1.56	0.0614	17	45	3	66.40
ADRL-SUS-0157	1.57	0.0618	17	45	3	66.40
ADRL-SUS-0158	1.58	0.0622	17	45	3	66.40
ADRL-SUS-0159	1.59	0.0626	17	45	3	66.40
ADRL-SUS-0160	1.60	0.0630	20	50	3	63.20
ADRL-SUS-0161	1.61	0.0634	20	50	3	67.00
ADRL-SUS-0162	1.62	0.0638	20	50	3	67.00
ADRL-SUS-0163	1.63	0.0642	20	50	3	67.00
ADRL-SUS-0164	1.64	0.0646	20	50	3	67.00
ADRL-SUS-0165	1.65	0.0650	20	50	3	67.00
ADRL-SUS-0166	1.66	0.0654	20	50	3	67.00
ADRL-SUS-0167	1.67	0.0657	20	50	3	67.00
ADRL-SUS-0168	1.68	0.0661	20	50	3	67.00
ADRL-SUS-0169	1.69	0.0665	20	50	3	67.00
ADRL-SUS-0170	1.70	0.0669	20	50	3	63.20
ADRL-SUS-0171	1.71	0.0673	20	50	3	67.00

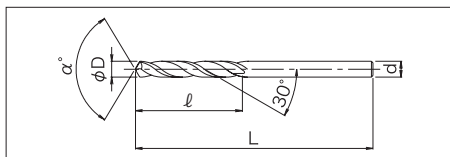
PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-SUS-0172	1.72	0.0677	20	50	3	67.00
ADRL-SUS-0173	1.73	0.0681	20	50	3	67.00
ADRL-SUS-0174	1.74	0.0685	20	50	3	67.00
ADRL-SUS-0175	1.75	0.0689	20	50	3	67.00
ADRL-SUS-0176	1.76	0.0693	20	50	3	67.00
ADRL-SUS-0177	1.77	0.0697	20	50	3	67.00
ADRL-SUS-0178	1.78	0.0701	20	50	3	67.00
ADRL-SUS-0179	1.79	0.0705	20	50	3	67.00
ADRL-SUS-0180	1.80	0.0709	20	50	3	63.20
ADRL-SUS-0181	1.81	0.0713	20	50	3	67.00
ADRL-SUS-0182	1.82	0.0717	20	50	3	67.00
ADRL-SUS-0183	1.83	0.0720	20	50	3	67.00
ADRL-SUS-0184	1.84	0.0724	20	50	3	67.00
ADRL-SUS-0185	1.85	0.0728	20	50	3	67.00
ADRL-SUS-0186	1.86	0.0732	20	50	3	67.00
ADRL-SUS-0187	1.87	0.0736	20	50	3	67.00
ADRL-SUS-0188	1.88	0.0740	20	50	3	67.00
ADRL-SUS-0189	1.89	0.0744	20	50	3	67.00
ADRL-SUS-0190	1.90	0.0748	20	50	3	63.20
ADRL-SUS-0191	1.91	0.0752	20	50	3	67.00
ADRL-SUS-0192	1.92	0.0756	20	50	3	67.00
ADRL-SUS-0193	1.93	0.0760	20	50	3	67.00
ADRL-SUS-0194	1.94	0.0764	20	50	3	67.00
ADRL-SUS-0195	1.95	0.0768	20	50	3	67.00
ADRL-SUS-0196	1.96	0.0772	20	50	3	67.00
ADRL-SUS-0197	1.97	0.0776	20	50	3	67.00
ADRL-SUS-0198	1.98	0.0780	20	50	3	67.00
ADRL-SUS-0199	1.99	0.0783	20	50	3	67.00
ADRL-SUS-0200	2.00	0.0787	20	50	3	63.20
ADRL-SUS-0201	2.01	0.0791	20	50	3	67.00
ADRL-SUS-0202	2.02	0.0795	20	50	3	67.00
ADRL-SUS-0203	2.03	0.0799	20	50	3	67.00
ADRL-SUS-0204	2.04	0.0803	20	50	3	67.00
ADRL-SUS-0205	2.05	0.0807	20	50	3	67.00
ADRL-SUS-0206	2.06	0.0811	20	50	3	67.00
ADRL-SUS-0207	2.07	0.0815	20	50	3	67.00
ADRL-SUS-0208	2.08	0.0819	20	50	3	67.00
ADRL-SUS-0209	2.09	0.0823	20	50	3	67.00
ADRL-SUS-0210	2.10	0.0827	20	50	3	63.20
ADRL-SUS-0211	2.11	0.0831	20	50	3	67.00
ADRL-SUS-0212	2.12	0.0835	20	50	3	67.00
ADRL-SUS-0213	2.13	0.0839	20	50	3	67.00
ADRL-SUS-0214	2.14	0.0843	20	50	3	67.00
ADRL-SUS-0215	2.15	0.0846	20	50	3	67.00
ADRL-SUS-0216	2.16	0.0850	20	50	3	67.00
ADRL-SUS-0217	2.17	0.0854	20	50	3	67.00
ADRL-SUS-0218	2.18	0.0858	20	50	3	67.00
ADRL-SUS-0219	2.19	0.0862	20	50	3	67.00
ADRL-SUS-0220	2.20	0.0866	22	50	3	63.20
ADRL-SUS-0221	2.21	0.0870	22	50	3	67.00

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-SUS-0222	2.22	0.0874	22	50	3	67.00
ADRL-SUS-0223	2.23	0.0878	22	50	3	67.00
ADRL-SUS-0224	2.24	0.0882	22	50	3	67.00
ADRL-SUS-0225	2.25	0.0886	22	50	3	67.00
ADRL-SUS-0226	2.26	0.0890	22	50	3	67.00
ADRL-SUS-0227	2.27	0.0894	22	50	3	67.00
ADRL-SUS-0228	2.28	0.0898	22	50	3	67.00
ADRL-SUS-0229	2.29	0.0902	22	50	3	67.00
ADRL-SUS-0230	2.30	0.0906	22	50	3	63.20
ADRL-SUS-0231	2.31	0.0909	22	50	3	67.00
ADRL-SUS-0232	2.32	0.0913	22	50	3	67.00
ADRL-SUS-0233	2.33	0.0917	22	50	3	67.00
ADRL-SUS-0234	2.34	0.0921	22	50	3	67.00
ADRL-SUS-0235	2.35	0.0925	22	50	3	67.00
ADRL-SUS-0236	2.36	0.0929	22	50	3	67.00
ADRL-SUS-0237	2.37	0.0933	22	50	3	67.00
ADRL-SUS-0238	2.38	0.0937	22	50	3	67.00
ADRL-SUS-0239	2.39	0.0941	22	50	3	67.00
ADRL-SUS-0240	2.40	0.0945	22	50	3	63.20
ADRL-SUS-0241	2.41	0.0949	22	50	3	67.00
ADRL-SUS-0242	2.42	0.0953	22	50	3	67.00
ADRL-SUS-0243	2.43	0.0957	22	50	3	67.00
ADRL-SUS-0244	2.44	0.0961	22	50	3	67.00
ADRL-SUS-0245	2.45	0.0965	22	50	3	67.00
ADRL-SUS-0246	2.46	0.0969	22	50	3	67.00
ADRL-SUS-0247	2.47	0.0972	22	50	3	67.00
ADRL-SUS-0248	2.48	0.0976	22	50	3	67.00
ADRL-SUS-0249	2.49	0.0980	22	50	3	67.00
ADRL-SUS-0250	2.50	0.0984	22	50	3	63.20
ADRL-SUS-0251	2.51	0.0988	22	50	3	67.00
ADRL-SUS-0252	2.52	0.0992	22	50	3	67.00
ADRL-SUS-0253	2.53	0.0996	22	50	3	67.00
ADRL-SUS-0254	2.54	0.1000	22	50	3	67.00
ADRL-SUS-0255	2.55	0.1004	22	50	3	67.00
ADRL-SUS-0256	2.56	0.1008	22	50	3	67.00
ADRL-SUS-0257	2.57	0.1012	22	50	3	67.00
ADRL-SUS-0258	2.58	0.1016	22	50	3	67.00
ADRL-SUS-0259	2.59	0.1020	22	50	3	67.00
ADRL-SUS-0260	2.60	0.1024	22	50	3	63.20
ADRL-SUS-0261	2.61	0.1028	22	50	3	67.00
ADRL-SUS-0262	2.62	0.1031	22	50	3	67.00
ADRL-SUS-0263	2.63	0.1035	22	50	3	67.00
ADRL-SUS-0264	2.64	0.1039	22	50	3	67.00
ADRL-SUS-0265	2.65	0.1043	22	50	3	67.00
ADRL-SUS-0266	2.66	0.1047	22	50	3	67.00
ADRL-SUS-0267	2.67	0.1051	22	50	3	67.00
ADRL-SUS-0268	2.68	0.1055	22	50	3	67.00
ADRL-SUS-0269	2.69	0.1059	22	50	3	67.00
ADRL-SUS-0270	2.70	0.1063	25	60	3	63.20
ADRL-SUS-0271	2.71	0.1067	25	60	3	67.00

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADRL-SUS-0272	2.72	0.1071	25	60	3	67.00
ADRL-SUS-0273	2.73	0.1075	25	60	3	67.00
ADRL-SUS-0274	2.74	0.1079	25	60	3	67.00
ADRL-SUS-0275	2.75	0.1083	25	60	3	67.00
ADRL-SUS-0276	2.76	0.1087	25	60	3	67.00
ADRL-SUS-0277	2.77	0.1091	25	60	3	67.00
ADRL-SUS-0278	2.78	0.1094	25	60	3	67.00
ADRL-SUS-0279	2.79	0.1098	25	60	3	67.00
ADRL-SUS-0280	2.80	0.1102	25	60	3	63.20
ADRL-SUS-0281	2.81	0.1106	25	60	3	67.00
ADRL-SUS-0282	2.82	0.1110	25	60	3	67.00
ADRL-SUS-0283	2.83	0.1114	25	60	3	67.00
ADRL-SUS-0284	2.84	0.1118	25	60	3	67.00
ADRL-SUS-0285	2.85	0.1122	25	60	3	67.00
ADRL-SUS-0286	2.86	0.1126	25	60	3	67.00
ADRL-SUS-0287	2.87	0.1130	25	60	3	67.00
ADRL-SUS-0288	2.88	0.1134	25	60	3	67.00
ADRL-SUS-0289	2.89	0.1138	25	60	3	67.00
ADRL-SUS-0290	2.90	0.1142	25	60	3	63.20
ADRL-SUS-0291	2.91	0.1146	25	60	3	67.00
ADRL-SUS-0292	2.92	0.1150	25	60	3	67.00
ADRL-SUS-0293	2.93	0.1154	25	60	3	67.00
ADRL-SUS-0294	2.94	0.1157	25	60	3	67.00
ADRL-SUS-0295	2.95	0.1161	25	60	3	67.00
ADRL-SUS-0296	2.96	0.1165	25	60	3	67.00
ADRL-SUS-0297	2.97	0.1169	25	60	3	67.00
ADRL-SUS-0298	2.98	0.1173	25	60	3	67.00
ADRL-SUS-0299	2.99	0.1177	25	60	3	67.00
ADRL-SUS-0300	3.00	0.1181	25	60	3	63.20

Straight Shank Drill, Regular Flute Length

ADS



$\phi D < 2.1: \alpha^\circ = 118^\circ$ $\phi D \geq 2.1: \alpha^\circ = 135^\circ$

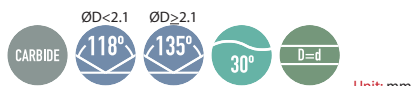
■ General purpose drilling for micro holes

■ Designed for non-ferrous materials,
including aluminum and copper alloys and resin

ØD Tolerance:

ØD0.X: +0~-0.01

ØD0.0X: +0~-0.005



Unit: mm

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	Price USD
ADS-0030	0.30	0.0118	4	30	24.30
ADS-0031	0.31	0.0122	4	30	28.70
ADS-0032	0.32	0.0126	4	30	28.70
ADS-0033	0.33	0.0130	4	30	28.70
ADS-0034	0.34	0.0134	4	30	28.70
ADS-0035	0.35	0.0138	4	30	28.70
ADS-0036	0.36	0.0142	4	30	28.70
ADS-0037	0.37	0.0146	4	30	28.70
ADS-0038	0.38	0.0150	4	30	28.70
ADS-0039	0.39	0.0154	4	30	28.70
ADS-0040	0.40	0.0157	5	30	24.30
ADS-0041	0.41	0.0161	5	30	28.70
ADS-0042	0.42	0.0165	5	30	28.70
ADS-0043	0.43	0.0169	5	30	28.70
ADS-0044	0.44	0.0173	5	30	28.70
ADS-0045	0.45	0.0177	5	30	28.70
ADS-0046	0.46	0.0181	5	30	28.70
ADS-0047	0.47	0.0185	5	30	28.70
ADS-0048	0.48	0.0189	5	30	28.70
ADS-0049	0.49	0.0193	5	30	28.70
ADS-0050	0.50	0.0197	6	30	24.30
ADS-0051	0.51	0.0201	6	30	28.70
ADS-0052	0.52	0.0205	6	30	28.70
ADS-0053	0.53	0.0209	6	30	28.70
ADS-0054	0.54	0.0213	6	30	28.70
ADS-0055	0.55	0.0217	6	30	28.70
ADS-0056	0.56	0.0220	6	30	28.70
ADS-0057	0.57	0.0224	6	30	28.70
ADS-0058	0.58	0.0228	6	30	28.70
ADS-0059	0.59	0.0232	6	30	28.70
ADS-0060	0.60	0.0236	6	30	24.30

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	Price USD
ADS-0061	0.61	0.0240	6	30	28.70
ADS-0062	0.62	0.0244	6	30	28.70
ADS-0063	0.63	0.0248	6	30	28.70
ADS-0064	0.64	0.0252	6	30	28.70
ADS-0065	0.65	0.0256	6	30	28.70
ADS-0066	0.66	0.0260	6	30	28.70
ADS-0067	0.67	0.0264	6	30	28.70
ADS-0068	0.68	0.0268	6	30	28.70
ADS-0069	0.69	0.0272	6	30	28.70
ADS-0070	0.70	0.0276	12	40	20.80
ADS-0071	0.71	0.0280	12	40	24.60
ADS-0072	0.72	0.0283	12	40	24.60
ADS-0073	0.73	0.0287	12	40	24.60
ADS-0074	0.74	0.0291	12	40	24.60
ADS-0075	0.75	0.0295	12	40	24.60
ADS-0076	0.76	0.0299	12	40	24.60
ADS-0077	0.77	0.0303	12	40	24.60
ADS-0078	0.78	0.0307	12	40	24.60
ADS-0079	0.79	0.0311	12	40	24.60
ADS-0080	0.80	0.0315	12	40	20.50
ADS-0081	0.81	0.0319	12	40	24.30
ADS-0082	0.82	0.0323	12	40	24.30
ADS-0083	0.83	0.0327	12	40	24.30
ADS-0084	0.84	0.0331	12	40	24.30
ADS-0085	0.85	0.0335	12	40	24.30
ADS-0086	0.86	0.0339	12	40	24.30
ADS-0087	0.87	0.0343	12	40	24.30
ADS-0088	0.88	0.0346	12	40	24.30
ADS-0089	0.89	0.0350	12	40	24.30
ADS-0090	0.90	0.0354	12	40	20.50
ADS-0091	0.91	0.0358	12	40	24.30

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	Price USD
ADS-0092	0.92	0.0362	12	40	24.30
ADS-0093	0.93	0.0366	12	40	24.30
ADS-0094	0.94	0.0370	12	40	24.30
ADS-0095	0.95	0.0374	12	40	24.30
ADS-0096	0.96	0.0378	12	40	24.30
ADS-0097	0.97	0.0382	12	40	24.30
ADS-0098	0.98	0.0386	12	40	24.30
ADS-0099	0.99	0.0390	12	40	24.30
ADS-0100	1.00	0.0394	15	40	19.80
ADS-0101	1.01	0.0398	15	40	23.60
ADS-0102	1.02	0.0402	15	40	23.60
ADS-0103	1.03	0.0406	15	40	23.60
ADS-0104	1.04	0.0409	15	40	23.60
ADS-0105	1.05	0.0413	15	40	23.60
ADS-0106	1.06	0.0417	15	40	23.60
ADS-0107	1.07	0.0421	15	40	23.60
ADS-0108	1.08	0.0425	15	40	23.60
ADS-0109	1.09	0.0429	15	40	23.60
ADS-0110	1.10	0.0433	15	40	19.80
ADS-0111	1.11	0.0437	15	40	23.60
ADS-0112	1.12	0.0441	15	40	23.60
ADS-0113	1.13	0.0445	15	40	23.60
ADS-0114	1.14	0.0449	15	40	23.60
ADS-0115	1.15	0.0453	15	40	23.60
ADS-0116	1.16	0.0457	15	40	23.60
ADS-0117	1.17	0.0461	15	40	23.60
ADS-0118	1.18	0.0465	15	40	23.60
ADS-0119	1.19	0.0469	15	40	23.60
ADS-0120	1.20	0.0472	15	40	19.80
ADS-0121	1.21	0.0476	15	40	23.60
ADS-0122	1.22	0.0480	15	40	23.60
ADS-0123	1.23	0.0484	15	40	23.60
ADS-0124	1.24	0.0488	15	40	23.60
ADS-0125	1.25	0.0492	15	40	23.60
ADS-0126	1.26	0.0496	15	40	23.60
ADS-0127	1.27	0.0500	15	40	23.60
ADS-0128	1.28	0.0504	15	40	23.60
ADS-0129	1.29	0.0508	15	40	23.60
ADS-0130	1.3	0.0512	16	40	19.80
ADS-0131	1.31	0.0516	16	40	23.60
ADS-0132	1.32	0.0520	16	40	23.60
ADS-0133	1.33	0.0524	16	40	23.60
ADS-0134	1.34	0.0528	16	40	23.60
ADS-0135	1.35	0.0531	16	40	23.60
ADS-0136	1.36	0.0535	16	40	23.60
ADS-0137	1.37	0.0539	16	40	23.60
ADS-0138	1.38	0.0543	16	40	23.60
ADS-0139	1.39	0.0547	16	40	23.60
ADS-0140	1.40	0.0551	16	40	19.80
ADS-0141	1.41	0.0555	16	40	23.60

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	Price USD
ADS-0142	1.42	0.0559	16	40	23.60
ADS-0143	1.43	0.0563	16	40	23.60
ADS-0144	1.44	0.0567	16	40	23.60
ADS-0145	1.45	0.0571	16	40	23.60
ADS-0146	1.46	0.0575	16	40	23.60
ADS-0147	1.47	0.0579	16	40	23.60
ADS-0148	1.48	0.0583	16	40	23.60
ADS-0149	1.49	0.0587	16	40	23.60
ADS-0150	1.50	0.0591	16	40	19.80
ADS-0151	1.51	0.0594	16	40	23.60
ADS-0152	1.52	0.0598	16	40	23.60
ADS-0153	1.53	0.0602	16	40	23.60
ADS-0154	1.54	0.0606	16	40	23.60
ADS-0155	1.55	0.0610	16	40	23.60
ADS-0156	1.56	0.0614	16	40	23.60
ADS-0157	1.57	0.0618	16	40	23.60
ADS-0158	1.58	0.0622	16	40	23.60
ADS-0159	1.59	0.0626	16	40	23.60
ADS-0160	1.60	0.0630	18	40	22.70
ADS-0161	1.61	0.0634	18	40	27.50
ADS-0162	1.62	0.0638	18	40	27.50
ADS-0163	1.63	0.0642	18	40	27.50
ADS-0164	1.64	0.0646	18	40	27.50
ADS-0165	1.65	0.0650	18	40	27.50
ADS-0166	1.66	0.0654	18	40	27.50
ADS-0167	1.67	0.0657	18	40	27.50
ADS-0168	1.68	0.0661	18	40	27.50
ADS-0169	1.69	0.0665	18	40	27.50
ADS-0170	1.70	0.0669	18	40	22.70
ADS-0171	1.71	0.0673	18	40	27.50
ADS-0172	1.72	0.0677	18	40	27.50
ADS-0173	1.73	0.0681	18	40	27.50
ADS-0174	1.74	0.0685	18	40	27.50
ADS-0175	1.75	0.0689	18	40	27.50
ADS-0176	1.76	0.0693	18	40	27.50
ADS-0177	1.77	0.0697	18	40	27.50
ADS-0178	1.78	0.0701	18	40	27.50
ADS-0179	1.79	0.0705	18	40	27.50
ADS-0180	1.80	0.0709	18	40	22.70
ADS-0181	1.81	0.0713	18	40	27.50
ADS-0182	1.82	0.0717	18	40	27.50
ADS-0183	1.83	0.0720	18	40	27.50
ADS-0184	1.84	0.0724	18	40	27.50
ADS-0185	1.85	0.0728	18	40	27.50
ADS-0186	1.86	0.0732	18	40	27.50
ADS-0187	1.87	0.0736	18	40	27.50
ADS-0188	1.88	0.0740	18	40	27.50
ADS-0189	1.89	0.0744	18	40	27.50
ADS-0190	1.90	0.0748	18	40	27.50
ADS-0191	1.91	0.0752	18	40	32.60

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	Price USD
ADS-0192	1.92	0.0756	18	40	32.60
ADS-0193	1.93	0.0760	18	40	32.60
ADS-0194	1.94	0.0764	18	40	32.60
ADS-0195	1.95	0.0768	18	40	32.60
ADS-0196	1.96	0.0772	18	40	32.60
ADS-0197	1.97	0.0776	18	40	32.60
ADS-0198	1.98	0.0780	18	40	32.60
ADS-0199	1.99	0.0783	18	40	32.60
ADS-0200	2.00	0.0787	18	40	27.50
ADS-0201	2.01	0.0791	18	40	32.60
ADS-0202	2.02	0.0795	18	40	32.60
ADS-0203	2.03	0.0799	18	40	32.60
ADS-0204	2.04	0.0803	18	40	32.60
ADS-0205	2.05	0.0807	18	40	32.60
ADS-0206	2.06	0.0811	18	40	32.60
ADS-0207	2.07	0.0815	18	40	32.60
ADS-0208	2.08	0.0819	18	40	32.60
ADS-0209	2.09	0.0823	18	40	32.60
ADS-0210	2.10	0.0827	20	40(45)	30.30
ADS-0211	2.11	0.0831	20	40(45)	35.10
ADS-0212	2.12	0.0835	20	40(45)	35.10
ADS-0213	2.13	0.0839	20	40(45)	35.10
ADS-0214	2.14	0.0843	20	40(45)	35.10
ADS-0215	2.15	0.0846	20	40(45)	35.10
ADS-0216	2.16	0.0850	20	40(45)	35.10
ADS-0217	2.17	0.0854	20	40(45)	35.10
ADS-0218	2.18	0.0858	20	40(45)	35.10
ADS-0219	2.19	0.0862	20	40(45)	35.10
ADS-0220	2.20	0.0866	20	40(45)	30.30
ADS-0221	2.21	0.0870	20	40(45)	35.10
ADS-0222	2.22	0.0874	20	40(45)	35.10
ADS-0223	2.23	0.0878	20	40(45)	35.10
ADS-0224	2.24	0.0882	20	40(45)	35.10
ADS-0225	2.25	0.0886	20	40(45)	35.10
ADS-0226	2.26	0.0890	20	40(45)	35.10
ADS-0227	2.27	0.0894	20	40(45)	35.10
ADS-0228	2.28	0.0898	20	40(45)	35.10
ADS-0229	2.29	0.0902	20	40(45)	35.10
ADS-0230	2.30	0.0906	20	40(45)	30.30
ADS-0231	2.31	0.0909	20	40(45)	35.10
ADS-0232	2.32	0.0913	20	40(45)	35.10
ADS-0233	2.33	0.0917	20	40(45)	35.10
ADS-0234	2.34	0.0921	20	40(45)	35.10
ADS-0235	2.35	0.0925	20	40(45)	35.10
ADS-0236	2.36	0.0929	20	40(45)	35.10
ADS-0237	2.37	0.0933	20	40(45)	35.10
ADS-0238	2.38	0.0937	20	40(45)	35.10
ADS-0239	2.39	0.0941	20	40(45)	35.10
ADS-0240	2.40	0.0945	20	40(45)	30.70
ADS-0241	2.41	0.0949	20	40(45)	35.80

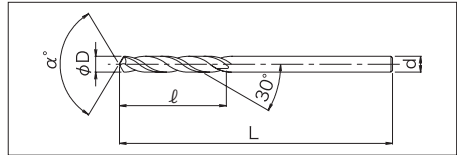
PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	Price USD
ADS-0242	2.42	0.0953	20	40(45)	35.80
ADS-0243	2.43	0.0957	20	40(45)	35.80
ADS-0244	2.44	0.0961	20	40(45)	35.80
ADS-0245	2.45	0.0965	20	40(45)	35.80
ADS-0246	2.46	0.0969	20	40(45)	35.80
ADS-0247	2.47	0.0972	20	40(45)	35.80
ADS-0248	2.48	0.0976	20	40(45)	35.80
ADS-0249	2.49	0.0980	20	40(45)	35.80
ADS-0250	2.50	0.0984	20	40(45)	30.70
ADS-0251	2.51	0.0988	20	40(45)	36.10
ADS-0252	2.52	0.0992	20	40(45)	36.10
ADS-0253	2.53	0.0996	20	40(45)	36.10
ADS-0254	2.54	0.1000	20	40(45)	36.10
ADS-0255	2.55	0.1004	20	40(45)	36.10
ADS-0256	2.56	0.1008	20	40(45)	36.10
ADS-0257	2.57	0.1012	20	40(45)	36.10
ADS-0258	2.58	0.1016	20	40(45)	36.10
ADS-0259	2.59	0.1020	20	40(45)	36.10
ADS-0260	2.60	0.1024	20	45	31.60
ADS-0261	2.61	0.1028	20	45	36.40
ADS-0262	2.62	0.1031	20	45	36.40
ADS-0263	2.63	0.1035	20	45	36.40
ADS-0264	2.64	0.1039	20	45	36.40
ADS-0265	2.65	0.1043	20	45	36.40
ADS-0266	2.66	0.1047	20	45	36.40
ADS-0267	2.67	0.1051	20	45	36.40
ADS-0268	2.68	0.1055	20	45	36.40
ADS-0269	2.69	0.1059	20	45	36.40
ADS-0270	2.70	0.1063	20	45	32.30
ADS-0271	2.71	0.1067	20	45	39.00
ADS-0272	2.72	0.1071	20	45	39.00
ADS-0273	2.73	0.1075	20	45	39.00
ADS-0274	2.74	0.1079	20	45	39.00
ADS-0275	2.75	0.1083	20	45	39.00
ADS-0276	2.76	0.1087	20	45	39.00
ADS-0277	2.77	0.1091	20	45	39.00
ADS-0278	2.78	0.1094	20	45	39.00
ADS-0279	2.79	0.1098	20	45	39.00
ADS-0280	2.80	0.1102	20	45	32.30
ADS-0281	2.81	0.1106	20	45	39.00
ADS-0282	2.82	0.1110	20	45	39.00
ADS-0283	2.83	0.1114	20	45	39.00
ADS-0284	2.84	0.1118	20	45	39.00
ADS-0285	2.85	0.1122	20	45	39.00
ADS-0286	2.86	0.1126	20	45	39.00
ADS-0287	2.87	0.1130	20	45	39.00
ADS-0288	2.88	0.1134	20	45	39.00
ADS-0289	2.89	0.1138	20	45	39.00
ADS-0290	2.90	0.1142	20	45	32.30
ADS-0291	2.91	0.1146	20	45	39.00

* Overall length is being changed to figures in parentheses.

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	Price USD
ADS-0292	2.92	0.1150	20	45	39.00
ADS-0293	2.93	0.1154	20	45	39.00
ADS-0294	2.94	0.1157	20	45	39.00
ADS-0295	2.95	0.1161	20	45	39.00
ADS-0296	2.96	0.1165	20	45	39.00
ADS-0297	2.97	0.1169	20	45	39.00
ADS-0298	2.98	0.1173	20	45	39.00
ADS-0299	2.99	0.1177	20	45	39.00
ADS-0300	3.00	0.1181	20	45	33.50

Straight Shank Drill, Semi Long Flute Length

ADSL



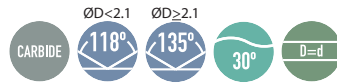
$\phi D < 2.1$: $\alpha^\circ = 118^\circ$ $\phi D \geq 2.1$: $\alpha^\circ = 135^\circ$

■ General purpose drilling for semi long micro holes

■ Designed for non-ferrous materials,
including aluminum and copper alloys and resin

ϕD Tolerance: $+0 \sim -0.01$

PRODUCT NUMBER	ϕD mm	ϕD inch	ℓ	L	Price USD
ADSL-0030	0.30	0.0118	8	40	28.70
ADSL-0035	0.35	0.0138	8	40	31.60
ADSL-0040	0.40	0.0157	8	40	28.70
ADSL-0045	0.45	0.0177	8	40	31.60
ADSL-0050	0.50	0.0197	8	40	25.90
ADSL-0055	0.55	0.0217	8	40	28.10
ADSL-0060	0.60	0.0236	8	40	25.60
ADSL-0065	0.65	0.0256	8	40	27.80
ADSL-0070	0.70	0.0276	15	50	25.60
ADSL-0075	0.75	0.0295	15	50	27.80
ADSL-0080	0.80	0.0315	15	50	25.60
ADSL-0085	0.85	0.0335	15	50	27.80
ADSL-0090	0.90	0.0354	15	50	25.60
ADSL-0095	0.95	0.0374	15	50	27.80
ADSL-0100	1.00	0.0394	16	50	24.00
ADSL-0105	1.05	0.0413	16	50	26.20
ADSL-0110	1.10	0.0433	16	50	24.00
ADSL-0115	1.15	0.0453	16	50	26.20
ADSL-0120	1.20	0.0472	18	50	24.00
ADSL-0125	1.25	0.0492	18	50	26.20
ADSL-0130	1.30	0.0512	18	50	24.00
ADSL-0135	1.35	0.0531	18	50	26.20
ADSL-0140	1.40	0.0551	18	50	24.00
ADSL-0145	1.45	0.0571	18	50	26.20
ADSL-0150	1.50	0.0591	24	50	24.00
ADSL-0155	1.55	0.0610	24	50	26.20
ADSL-0160	1.60	0.0630	24	55	27.50
ADSL-0165	1.65	0.0650	24	55	30.00
ADSL-0170	1.70	0.0669	24	55	27.50
ADSL-0175	1.75	0.0689	24	55	30.00
ADSL-0180	1.8	0.0709	24	55	27.50



Unit: mm

PRODUCT NUMBER	ϕD mm	ϕD inch	ℓ	L	Price USD
ADSL-0185	1.85	0.0728	24	55	30.00
ADSL-0190	1.90	0.0748	24	55	27.50
ADSL-0195	1.95	0.0768	24	55	30.00
ADSL-0200	2.00	0.0787	24	55	29.40
ADSL-0205	2.05	0.0807	24	55	31.90
ADSL-0210	2.10	0.0827	24	55	29.40
ADSL-0215	2.15	0.0846	24	55	31.90
ADSL-0220	2.20	0.0866	26	58(65)	29.40
ADSL-0225	2.25	0.0886	26	58(65)	31.90
ADSL-0230	2.30	0.0906	26	58(65)	29.40
ADSL-0235	2.35	0.0925	26	58(65)	31.90
ADSL-0240	2.40	0.0945	26	61(65)	33.90
ADSL-0245	2.45	0.0965	26	61(65)	37.40
ADSL-0250	2.50	0.0984	26	61(65)	33.90
ADSL-0255	2.55	0.1004	26	61(65)	37.40
ADSL-0260	2.60	0.1024	28	64(65)	35.40
ADSL-0265	2.65	0.1043	28	64(65)	39.00
ADSL-0270	2.70	0.1063	28	64(65)	35.40
ADSL-0275	2.75	0.1083	28	64(65)	39.00
ADSL-0280	2.80	0.1102	30	67(75)	35.40
ADSL-0285	2.85	0.1122	30	67(75)	39.00
ADSL-0290	2.90	0.1142	30	71(75)	35.40
ADSL-0295	2.95	0.1161	30	71(75)	39.00
ADSL-0300	3.00	0.1181	30	71(75)	41.20

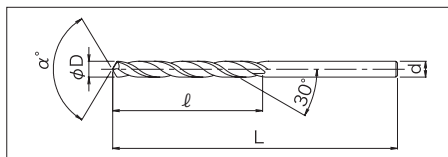
* Overall length is being changed to figures in parentheses.

Straight Shank Drill, Long Flute Length

ADL



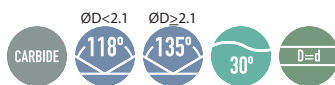
Long flute length type of ADS



ØD<2.1: α°=118° ØD≥2.1: α°=135°

ØD Tolerance: +0~-0.01

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	Price USD
ADL-0030	0.30	0.0118	10	60	48.80
ADL-0035	0.35	0.0138	10	60	48.80
ADL-0040	0.40	0.0157	10	60	48.80
ADL-0045	0.45	0.0177	10	60	48.80
ADL-0050	0.50	0.0197	10	60	43.10
ADL-0055	0.55	0.0217	15	65	43.40
ADL-0060	0.60	0.0236	15	65	43.40
ADL-0065	0.65	0.0256	15	65	43.40
ADL-0070	0.70	0.0276	15	65	43.40
ADL-0075	0.75	0.0295	15	65	43.40
ADL-0080	0.80	0.0315	20	75	40.90
ADL-0085	0.85	0.0335	20	75	40.90
ADL-0090	0.90	0.0354	20	75	40.90
ADL-0095	0.95	0.0374	20	75	40.90
ADL-0100	1.00	0.0394	25	75	31.90
ADL-0105	1.05	0.0413	25	75	35.10
ADL-0110	1.10	0.0433	25	75	31.90
ADL-0115	1.15	0.0453	25	75	35.10
ADL-0120	1.20	0.0472	25	75	31.90
ADL-0125	1.25	0.0492	25	75	35.10
ADL-0130	1.30	0.0512	25	75	31.90
ADL-0135	1.35	0.0531	25	75	35.10
ADL-0140	1.40	0.0551	30	75	31.90
ADL-0145	1.45	0.0571	30	75	35.10
ADL-0150	1.50	0.0591	30	75	31.90
ADL-0155	1.55	0.0610	30	75	35.10
ADL-0160	1.60	0.0630	30	75	35.40
ADL-0165	1.65	0.0650	30	75	39.00
ADL-0170	1.70	0.0669	30	75	35.40
ADL-0175	1.75	0.0689	30	75	39.00
ADL-0180	1.80	0.0709	30	75	35.40



Unit: mm

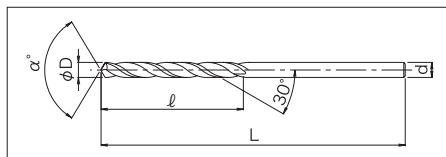
PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	Price USD
ADL-0185	1.85	0.0728	30	75	39.00
ADL-0190	1.90	0.0748	30	75	35.40
ADL-0195	1.95	0.0768	30	75	39.00
ADL-0200	2.00	0.0787	30	75	50.80
ADL-0205	2.05	0.0807	30	75	55.50
ADL-0210	2.10	0.0827	30	75	50.80
ADL-0215	2.15	0.0846	30	75	55.50
ADL-0220	2.20	0.0866	30	75	50.80
ADL-0225	2.25	0.0886	30	75	55.50
ADL-0230	2.30	0.0906	30	75	50.80
ADL-0235	2.35	0.0925	30	75	55.50
ADL-0240	2.40	0.0945	35	100	64.80
ADL-0245	2.45	0.0965	35	100	71.50
ADL-0250	2.50	0.0984	35	100	64.80
ADL-0255	2.55	0.1004	35	100	71.50
ADL-0260	2.60	0.1024	35	100	64.80
ADL-0265	2.65	0.1043	35	100	71.50
ADL-0270	2.70	0.1063	35	100	64.80
ADL-0275	2.75	0.1083	35	100	71.50
ADL-0280	2.80	0.1102	35	100	66.70
ADL-0285	2.85	0.1122	35	100	73.40
ADL-0290	2.90	0.1142	35	100	66.70
ADL-0295	2.95	0.1161	35	100	73.40
ADL-0300	3.00	0.1181	50	100	73.70

Straight Shank Drill, Extra Long Flute Length

ADLL



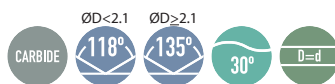
■ Extra Long Flute Length type of ADS



ØD<2.1: α°=118° ØD≥2.1: α°=135°

ØD Tolerance: +0~-0.01

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	Price USD
ADLL-0030	0.30	0.0118	15	75	61.90
ADLL-0035	0.35	0.0138	15	75	61.90
ADLL-0040	0.40	0.0157	15	75	61.90
ADLL-0045	0.45	0.0177	15	75	61.90
ADLL-0050	0.50	0.0197	15	75	49.50
ADLL-0055	0.55	0.0217	20	90	49.80
ADLL-0060	0.60	0.0236	20	90	50.40
ADLL-0065	0.65	0.0256	20	90	50.40
ADLL-0070	0.70	0.0276	20	90	49.80
ADLL-0075	0.75	0.0295	20	90	49.80
ADLL-0080	0.80	0.0315	25	100	46.90
ADLL-0085	0.85	0.0335	25	100	46.90
ADLL-0090	0.90	0.0354	25	100	46.90
ADLL-0095	0.95	0.0374	25	100	46.90
ADLL-0100	1.00	0.0394	30	100	37.00
ADLL-0105	1.05	0.0413	30	100	40.20
ADLL-0110	1.10	0.0433	30	100	37.00
ADLL-0115	1.15	0.0453	30	100	40.20
ADLL-0120	1.20	0.0472	35	100	37.00
ADLL-0125	1.25	0.0492	35	100	40.20
ADLL-0130	1.30	0.0512	35	100	37.00
ADLL-0135	1.35	0.0531	35	100	40.20
ADLL-0140	1.40	0.0551	40	100	42.10
ADLL-0145	1.45	0.0571	40	100	46.60
ADLL-0150	1.50	0.0591	40	100	42.10
ADLL-0155	1.55	0.0610	40	100	46.90
ADLL-0160	1.60	0.0630	40	100	42.80
ADLL-0165	1.65	0.0650	40	100	46.90
ADLL-0170	1.70	0.0669	40	100	42.80
ADLL-0175	1.75	0.0689	40	100	46.90
ADLL-0180	1.80	0.0709	40	100	42.80



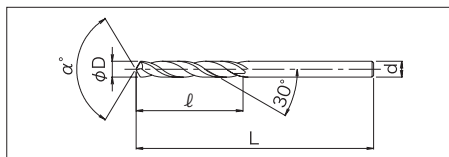
Unit: mm

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	Price USD
ADLL-0185	1.85	0.0728	40	100	46.90
ADLL-0190	1.90	0.0748	40	100	42.80
ADLL-0195	1.95	0.0768	40	100	46.90
ADLL-0200	2.00	0.0787	40	100	63.20
ADLL-0205	2.05	0.0807	40	100	69.60
ADLL-0210	2.10	0.0827	40	100	63.20
ADLL-0215	2.15	0.0846	40	100	69.60
ADLL-0220	2.20	0.0866	40	100	63.20
ADLL-0225	2.25	0.0886	40	100	69.60
ADLL-0230	2.30	0.0906	40	100	63.20
ADLL-0235	2.35	0.0925	40	100	69.60
ADLL-0240	2.40	0.0945	50	150	79.50
ADLL-0245	2.45	0.0965	50	150	87.10
ADLL-0250	2.50	0.0984	50	150	79.50
ADLL-0255	2.55	0.1004	50	150	87.10
ADLL-0260	2.60	0.1024	50	150	103.40
ADLL-0265	2.65	0.1043	50	150	113.90
ADLL-0270	2.70	0.1063	50	150	103.40
ADLL-0275	2.75	0.1083	50	150	113.90
ADLL-0280	2.80	0.1102	50	150	103.40
ADLL-0285	2.85	0.1122	50	150	113.90
ADLL-0290	2.90	0.1142	50	150	103.40
ADLL-0295	2.95	0.1161	50	150	114.50
ADLL-0300	3.00	0.1181	65	150	112.90

Straight Shank Drill, Coated Regular Flute Length

TiAIN

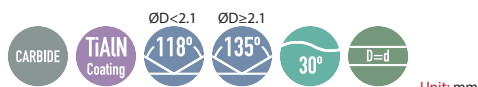
V-ADS



$\phi D < 2.1: \alpha^\circ = 118^\circ$ $\phi D \geq 2.1: \alpha^\circ = 135^\circ$

■ TiAIN coated for longer tool life

■ Designed for a wide variety of materials,
including carbon steels, stainless steels, titanium alloys,
and hardened steels up to 50 HRC



Unit: mm

ϕD Tolerance: +0 ~ -0.01

PRODUCT NUMBER	ϕD mm	ϕD inch	ℓ	L	Price USD
V-ADS-0030	0.30	0.0118	4	30	36.40
V-ADS-0031	0.31	0.0122	4	30	41.20
V-ADS-0032	0.32	0.0126	4	30	41.20
V-ADS-0033	0.33	0.0130	4	30	41.20
V-ADS-0034	0.34	0.0134	4	30	41.20
V-ADS-0035	0.35	0.0138	4	30	41.20
V-ADS-0036	0.36	0.0142	4	30	41.20
V-ADS-0037	0.37	0.0146	4	30	41.20
V-ADS-0038	0.38	0.0150	4	30	41.20
V-ADS-0039	0.39	0.0154	4	30	41.20
V-ADS-0040	0.40	0.0157	5	30	35.10
V-ADS-0041	0.41	0.0161	5	30	40.90
V-ADS-0042	0.42	0.0165	5	30	40.90
V-ADS-0043	0.43	0.0169	5	30	40.90
V-ADS-0044	0.44	0.0173	5	30	40.90
V-ADS-0045	0.45	0.0177	5	30	40.90
V-ADS-0046	0.46	0.0181	5	30	40.90
V-ADS-0047	0.47	0.0185	5	30	40.90
V-ADS-0048	0.48	0.0189	5	30	40.90
V-ADS-0049	0.49	0.0193	5	30	40.90
V-ADS-0050	0.50	0.0197	6	30	29.40
V-ADS-0051	0.51	0.0201	6	30	36.10
V-ADS-0052	0.52	0.0205	6	30	36.10
V-ADS-0053	0.53	0.0209	6	30	36.10
V-ADS-0054	0.54	0.0213	6	30	36.10
V-ADS-0055	0.55	0.0217	6	30	36.10
V-ADS-0056	0.56	0.0220	6	30	36.10
V-ADS-0057	0.57	0.0224	6	30	36.10
V-ADS-0058	0.58	0.0228	6	30	36.10
V-ADS-0059	0.59	0.0232	6	30	36.10
V-ADS-0060	0.60	0.0236	6	30	32.30

PRODUCT NUMBER	ϕD mm	ϕD inch	ℓ	L	Price USD
V-ADS-0061	0.61	0.0240	6	30	36.10
V-ADS-0062	0.62	0.0244	6	30	36.10
V-ADS-0063	0.63	0.0248	6	30	36.10
V-ADS-0064	0.64	0.0252	6	30	36.10
V-ADS-0065	0.65	0.0256	6	30	36.10
V-ADS-0066	0.66	0.0260	6	30	36.10
V-ADS-0067	0.67	0.0264	6	30	36.10
V-ADS-0068	0.68	0.0268	6	30	36.10
V-ADS-0069	0.69	0.0272	6	30	36.10
V-ADS-0070	0.70	0.0276	12	40	32.30
V-ADS-0071	0.71	0.0280	12	40	35.80
V-ADS-0072	0.72	0.0283	12	40	35.80
V-ADS-0073	0.73	0.0287	12	40	35.80
V-ADS-0074	0.74	0.0291	12	40	35.80
V-ADS-0075	0.75	0.0295	12	40	35.80
V-ADS-0076	0.76	0.0299	12	40	35.80
V-ADS-0077	0.77	0.0303	12	40	35.80
V-ADS-0078	0.78	0.0307	12	40	35.80
V-ADS-0079	0.79	0.0311	12	40	35.80
V-ADS-0080	0.80	0.0315	12	40	32.60
V-ADS-0081	0.81	0.0319	12	40	35.40
V-ADS-0082	0.82	0.0323	12	40	35.40
V-ADS-0083	0.83	0.0327	12	40	35.40
V-ADS-0084	0.84	0.0331	12	40	35.40
V-ADS-0085	0.85	0.0335	12	40	35.40
V-ADS-0086	0.86	0.0339	12	40	35.40
V-ADS-0087	0.87	0.0343	12	40	35.40
V-ADS-0088	0.88	0.0346	12	40	35.40
V-ADS-0089	0.89	0.0350	12	40	35.40
V-ADS-0090	0.90	0.0354	12	40	31.90
V-ADS-0091	0.91	0.0358	12	40	35.40

Next Page ▶

Cutting Conditions P.89

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	Price USD
V-ADS-0092	0.92	0.0362	12	40	35.40
V-ADS-0093	0.93	0.0366	12	40	35.40
V-ADS-0094	0.94	0.0370	12	40	35.40
V-ADS-0095	0.95	0.0374	12	40	35.40
V-ADS-0096	0.96	0.0378	12	40	35.40
V-ADS-0097	0.97	0.0382	12	40	35.40
V-ADS-0098	0.98	0.0386	12	40	35.40
V-ADS-0099	0.99	0.0390	12	40	35.40
V-ADS-0100	1.00	0.0394	15	40	28.10
V-ADS-0101	1.01	0.0398	15	40	31.90
V-ADS-0102	1.02	0.0402	15	40	31.90
V-ADS-0103	1.03	0.0406	15	40	31.90
V-ADS-0104	1.04	0.0409	15	40	31.90
V-ADS-0105	1.05	0.0413	15	40	31.90
V-ADS-0106	1.06	0.0417	15	40	31.90
V-ADS-0107	1.07	0.0421	15	40	31.90
V-ADS-0108	1.08	0.0425	15	40	31.90
V-ADS-0109	1.09	0.0429	15	40	31.90
V-ADS-0110	1.10	0.0433	15	40	28.10
V-ADS-0111	1.11	0.0437	15	40	31.90
V-ADS-0112	1.12	0.0441	15	40	31.90
V-ADS-0113	1.13	0.0445	15	40	31.90
V-ADS-0114	1.14	0.0449	15	40	31.90
V-ADS-0115	1.15	0.0453	15	40	31.90
V-ADS-0116	1.16	0.0457	15	40	31.90
V-ADS-0117	1.17	0.0461	15	40	31.90
V-ADS-0118	1.18	0.0465	15	40	31.90
V-ADS-0119	1.19	0.0469	15	40	31.90
V-ADS-0120	1.20	0.0472	15	40	28.10
V-ADS-0121	1.21	0.0476	15	40	31.90
V-ADS-0122	1.22	0.0480	15	40	31.90
V-ADS-0123	1.23	0.0484	15	40	31.90
V-ADS-0124	1.24	0.0488	15	40	31.90
V-ADS-0125	1.25	0.0492	15	40	31.90
V-ADS-0126	1.26	0.0496	15	40	31.90
V-ADS-0127	1.27	0.0500	15	40	31.90
V-ADS-0128	1.28	0.0504	15	40	31.90
V-ADS-0129	1.29	0.0508	15	40	31.90
V-ADS-0130	1.30	0.0512	16	40	28.10
V-ADS-0131	1.31	0.0516	16	40	31.90
V-ADS-0132	1.32	0.0520	16	40	31.90
V-ADS-0133	1.33	0.0524	16	40	31.90
V-ADS-0134	1.34	0.0528	16	40	31.90
V-ADS-0135	1.35	0.0531	16	40	31.90
V-ADS-0136	1.36	0.0535	16	40	31.90
V-ADS-0137	1.37	0.0539	16	40	31.90
V-ADS-0138	1.38	0.0543	16	40	31.90
V-ADS-0139	1.39	0.0547	16	40	31.90
V-ADS-0140	1.40	0.0551	16	40	28.10
V-ADS-0141	1.41	0.0555	16	40	31.90

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	Price USD
V-ADS-0142	1.42	0.0559	16	40	31.90
V-ADS-0143	1.43	0.0563	16	40	31.90
V-ADS-0144	1.44	0.0567	16	40	31.90
V-ADS-0145	1.45	0.0571	16	40	31.90
V-ADS-0146	1.46	0.0575	16	40	31.90
V-ADS-0147	1.47	0.0579	16	40	31.90
V-ADS-0148	1.48	0.0583	16	40	31.90
V-ADS-0149	1.49	0.0587	16	40	31.90
V-ADS-0150	1.50	0.0591	16	40	28.10
V-ADS-0151	1.51	0.0594	16	40	34.50
V-ADS-0152	1.52	0.0598	16	40	34.50
V-ADS-0153	1.53	0.0602	16	40	34.50
V-ADS-0154	1.54	0.0606	16	40	34.50
V-ADS-0155	1.55	0.0610	16	40	34.50
V-ADS-0156	1.56	0.0614	16	40	34.50
V-ADS-0157	1.57	0.0618	16	40	34.50
V-ADS-0158	1.58	0.0622	16	40	34.50
V-ADS-0159	1.59	0.0626	16	40	34.50
V-ADS-0160	1.60	0.0630	18	40	31.30
V-ADS-0161	1.61	0.0634	18	40	35.80
V-ADS-0162	1.62	0.0638	18	40	35.80
V-ADS-0163	1.63	0.0642	18	40	35.80
V-ADS-0164	1.64	0.0646	18	40	35.80
V-ADS-0165	1.65	0.0650	18	40	35.80
V-ADS-0166	1.66	0.0654	18	40	35.80
V-ADS-0167	1.67	0.0657	18	40	35.80
V-ADS-0168	1.68	0.0661	18	40	35.80
V-ADS-0169	1.69	0.0665	18	40	35.80
V-ADS-0170	1.70	0.0669	18	40	31.30
V-ADS-0171	1.71	0.0673	18	40	36.40
V-ADS-0172	1.72	0.0677	18	40	36.40
V-ADS-0173	1.73	0.0681	18	40	36.40
V-ADS-0174	1.74	0.0685	18	40	36.40
V-ADS-0175	1.75	0.0689	18	40	36.40
V-ADS-0176	1.76	0.0693	18	40	36.40
V-ADS-0177	1.77	0.0697	18	40	36.40
V-ADS-0178	1.78	0.0701	18	40	36.40
V-ADS-0179	1.79	0.0705	18	40	36.40
V-ADS-0180	1.80	0.0709	18	40	31.30
V-ADS-0181	1.81	0.0713	18	40	36.40
V-ADS-0182	1.82	0.0717	18	40	36.40
V-ADS-0183	1.83	0.0720	18	40	36.40
V-ADS-0184	1.84	0.0724	18	40	36.40
V-ADS-0185	1.85	0.0728	18	40	36.40
V-ADS-0186	1.86	0.0732	18	40	36.40
V-ADS-0187	1.87	0.0736	18	40	36.40
V-ADS-0188	1.88	0.0740	18	40	36.40
V-ADS-0189	1.89	0.0744	18	40	36.40
V-ADS-0190	1.90	0.0748	18	40	35.80
V-ADS-0191	1.91	0.0752	18	40	39.60

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	Price USD
V-ADS-0192	1.92	0.0756	18	40	39.60
V-ADS-0193	1.93	0.0760	18	40	39.60
V-ADS-0194	1.94	0.0764	18	40	39.60
V-ADS-0195	1.95	0.0768	18	40	39.60
V-ADS-0196	1.96	0.0772	18	40	39.60
V-ADS-0197	1.97	0.0776	18	40	39.60
V-ADS-0198	1.98	0.0780	18	40	39.60
V-ADS-0199	1.99	0.0783	18	40	39.60
V-ADS-0200	2.00	0.0787	18	40	37.00
V-ADS-0201	2.01	0.0791	18	40	42.10
V-ADS-0202	2.02	0.0795	18	40	42.10
V-ADS-0203	2.03	0.0799	18	40	42.10
V-ADS-0204	2.04	0.0803	18	40	42.10
V-ADS-0205	2.05	0.0807	18	40	42.10
V-ADS-0206	2.06	0.0811	18	40	42.10
V-ADS-0207	2.07	0.0815	18	40	42.10
V-ADS-0208	2.08	0.0819	18	40	42.10
V-ADS-0209	2.09	0.0823	18	40	42.10
V-ADS-0210	2.10	0.0827	20	40(45)	39.90
V-ADS-0211	2.11	0.0831	20	40(45)	44.70
V-ADS-0212	2.12	0.0835	20	40(45)	44.70
V-ADS-0213	2.13	0.0839	20	40(45)	44.70
V-ADS-0214	2.14	0.0843	20	40(45)	44.70
V-ADS-0215	2.15	0.0846	20	40(45)	44.70
V-ADS-0216	2.16	0.0850	20	40(45)	44.70
V-ADS-0217	2.17	0.0854	20	40(45)	44.70
V-ADS-0218	2.18	0.0858	20	40(45)	44.70
V-ADS-0219	2.19	0.0862	20	40(45)	44.70
V-ADS-0220	2.20	0.0866	20	40(45)	39.90
V-ADS-0221	2.21	0.0870	20	40(45)	44.70
V-ADS-0222	2.22	0.0874	20	40(45)	44.70
V-ADS-0223	2.23	0.0878	20	40(45)	44.70
V-ADS-0224	2.24	0.0882	20	40(45)	44.70
V-ADS-0225	2.25	0.0886	20	40(45)	44.70
V-ADS-0226	2.26	0.0890	20	40(45)	44.70
V-ADS-0227	2.27	0.0894	20	40(45)	44.70
V-ADS-0228	2.28	0.0898	20	40(45)	44.70
V-ADS-0229	2.29	0.0902	20	40(45)	44.70
V-ADS-0230	2.30	0.0906	20	40(45)	39.90
V-ADS-0231	2.31	0.0909	20	40(45)	44.70
V-ADS-0232	2.32	0.0913	20	40(45)	44.70
V-ADS-0233	2.33	0.0917	20	40(45)	44.70
V-ADS-0234	2.34	0.0921	20	40(45)	44.70
V-ADS-0235	2.35	0.0925	20	40(45)	44.70
V-ADS-0236	2.36	0.0929	20	40(45)	44.70
V-ADS-0237	2.37	0.0933	20	40(45)	44.70
V-ADS-0238	2.38	0.0937	20	40(45)	44.70
V-ADS-0239	2.39	0.0941	20	40(45)	44.70
V-ADS-0240	2.40	0.0945	20	40(45)	40.20
V-ADS-0241	2.41	0.0949	20	40(45)	45.30

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	Price USD
V-ADS-0242	2.42	0.0953	20	40(45)	45.30
V-ADS-0243	2.43	0.0957	20	40(45)	45.30
V-ADS-0244	2.44	0.0961	20	40(45)	45.30
V-ADS-0245	2.45	0.0965	20	40(45)	45.30
V-ADS-0246	2.46	0.0969	20	40(45)	45.30
V-ADS-0247	2.47	0.0972	20	40(45)	45.30
V-ADS-0248	2.48	0.0976	20	40(45)	45.30
V-ADS-0249	2.49	0.0980	20	40(45)	45.30
V-ADS-0250	2.50	0.0984	20	40(45)	40.20
V-ADS-0251	2.51	0.0988	20	40(45)	45.30
V-ADS-0252	2.52	0.0992	20	40(45)	45.30
V-ADS-0253	2.53	0.0996	20	40(45)	45.30
V-ADS-0254	2.54	0.1000	20	40(45)	45.30
V-ADS-0255	2.55	0.1004	20	40(45)	45.60
V-ADS-0256	2.56	0.1008	20	40(45)	45.60
V-ADS-0257	2.57	0.1012	20	40(45)	45.60
V-ADS-0258	2.58	0.1016	20	40(45)	45.60
V-ADS-0259	2.59	0.1020	20	40(45)	45.60
V-ADS-0260	2.60	0.1024	20	45	41.20
V-ADS-0261	2.61	0.1028	20	45	46.00
V-ADS-0262	2.62	0.1031	20	45	46.00
V-ADS-0263	2.63	0.1035	20	45	46.00
V-ADS-0264	2.64	0.1039	20	45	46.00
V-ADS-0265	2.65	0.1043	20	45	46.00
V-ADS-0266	2.66	0.1047	20	45	46.00
V-ADS-0267	2.67	0.1051	20	45	46.00
V-ADS-0268	2.68	0.1055	20	45	46.00
V-ADS-0269	2.69	0.1059	20	45	46.00
V-ADS-0270	2.70	0.1063	20	45	41.80
V-ADS-0271	2.71	0.1067	20	45	48.50
V-ADS-0272	2.72	0.1071	20	45	48.50
V-ADS-0273	2.73	0.1075	20	45	48.50
V-ADS-0274	2.74	0.1079	20	45	48.50
V-ADS-0275	2.75	0.1083	20	45	48.50
V-ADS-0276	2.76	0.1087	20	45	48.50
V-ADS-0277	2.77	0.1091	20	45	48.50
V-ADS-0278	2.78	0.1094	20	45	48.50
V-ADS-0279	2.79	0.1098	20	45	48.50
V-ADS-0280	2.80	0.1102	20	45	41.80
V-ADS-0281	2.81	0.1106	20	45	48.50
V-ADS-0282	2.82	0.1110	20	45	48.50
V-ADS-0283	2.83	0.1114	20	45	48.50
V-ADS-0284	2.84	0.1118	20	45	48.50
V-ADS-0285	2.85	0.1122	20	45	48.50
V-ADS-0286	2.86	0.1126	20	45	48.50
V-ADS-0287	2.87	0.1130	20	45	48.50
V-ADS-0288	2.88	0.1134	20	45	48.50
V-ADS-0289	2.89	0.1138	20	45	48.50
V-ADS-0290	2.90	0.1142	20	45	41.80
V-ADS-0291	2.91	0.1146	20	45	48.50

* Overall length is being changed to figures in parentheses.

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	Price USD
V-ADS-0292	2.92	0.1150	20	45	48.50
V-ADS-0293	2.93	0.1154	20	45	48.50
V-ADS-0294	2.94	0.1157	20	45	48.50
V-ADS-0295	2.95	0.1161	20	45	48.50
V-ADS-0296	2.96	0.1165	20	45	48.50
V-ADS-0297	2.97	0.1169	20	45	48.50
V-ADS-0298	2.98	0.1173	20	45	48.50
V-ADS-0299	2.99	0.1177	20	45	48.50
V-ADS-0300	3.00	0.1181	20	45	44.70

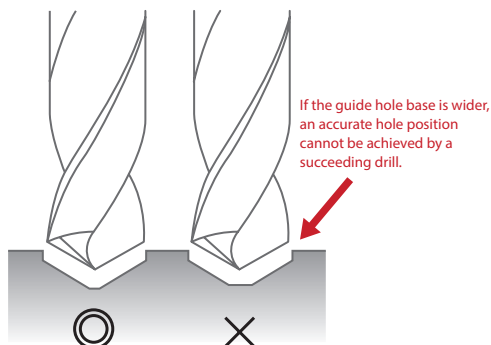
Guide Hole Drill

ADPF30/ADPN30



Features

- ADP series have specialized drill point geometry for making microdiameter guide holes.
- Thinning on these drills from $\varnothing 0.3\text{mm}$ to 0.95mm ensures greater positioning accuracy.
- The small chisel edge width over $\varnothing 1\text{mm}$ achieves a narrower guide hole base than the core thickness of a succeeding drill.



Uses & Advantages

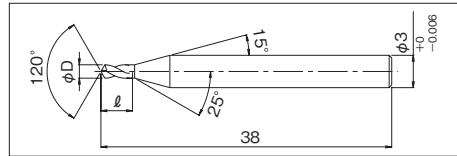
- These drills can be used for drilling workpieces that require a precise hole position and hole diameter tolerance.
- These drills are suitable for drilling microdiameter perforation holes with strict pitch accuracy.
- Accurate guide holes not only prevent off-angle holes by a succeeding drill but also prevent a succeeding drill from damaging and chipping.

Pointing Drill Selection Table

Point Angle	Material	Model	Shank Dia.
120°	for Steel	ADPF30	$\varnothing 3$
		V-ADPF30	$\varnothing 3$
	for Non Ferrous & Resin	ADPN30	$\varnothing 3$

Guide Hole Drill for Ferrous Materials

ADPF30



- **Specialized drill point geometry for achieving precise hole position and hole diameter tolerance**
- **Designed for ferrous materials, including carbon steels, stainless steels, titanium alloys, and hardened steels up to 50 HRC**

ØD Tolerance:

-0.005 ~ -0.01 ($\leq \varnothing 0.09$)

-0.01 ~ -0.015 ($\geq \varnothing 0.1$)



$0.3 \leq D \leq 0.95$

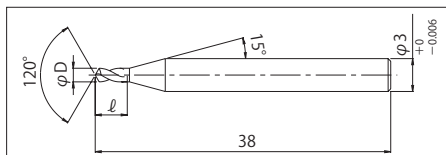
Unit: mm

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADPF30-0003	0.03	0.0012	0.06	38	3	229.60
ADPF30-0004	0.04	0.0016	0.08	38	3	199.00
ADPF30-0005	0.05	0.0020	0.1	38	3	174.20
ADPF30-0006	0.06	0.0024	0.1	38	3	147.40
ADPF30-0007	0.07	0.0028	0.1	38	3	115.50
ADPF30-0008	0.08	0.0031	0.1	38	3	103.40
ADPF30-0009	0.09	0.0035	0.1	38	3	88.70
ADPF30-0010	0.10	0.0039	0.2	38	3	80.40
ADPF30-0011	0.11	0.0043	0.2	38	3	88.10
ADPF30-0012	0.12	0.0047	0.2	38	3	88.10
ADPF30-0013	0.13	0.0051	0.2	38	3	88.10
ADPF30-0014	0.14	0.0055	0.2	38	3	88.10
ADPF30-0015	0.15	0.0059	0.2	38	3	81.40
ADPF30-0016	0.16	0.0063	0.3	38	3	88.10
ADPF30-0017	0.17	0.0067	0.3	38	3	88.10
ADPF30-0018	0.18	0.0071	0.3	38	3	88.10
ADPF30-0019	0.19	0.0075	0.3	38	3	88.10
ADPF30-0020	0.20	0.0079	0.4	38	3	73.40
ADPF30-0021	0.21	0.0083	0.4	38	3	80.40
ADPF30-0022	0.22	0.0087	0.4	38	3	80.40
ADPF30-0023	0.23	0.0091	0.4	38	3	80.40
ADPF30-0024	0.24	0.0094	0.4	38	3	80.40
ADPF30-0025	0.25	0.0098	0.4	38	3	72.40
ADPF30-0026	0.26	0.0102	0.5	38	3	80.40
ADPF30-0027	0.27	0.0106	0.5	38	3	80.40
ADPF30-0028	0.28	0.0110	0.5	38	3	80.40
ADPF30-0029	0.29	0.0114	0.5	38	3	80.40
ADPF30-0030	0.30	0.0118	0.6	38	3	64.50
ADPF30-0035	0.35	0.0138	0.6	38	3	64.50
ADPF30-0040	0.40	0.0157	0.6	38	3	64.50
ADPF30-0045	0.45	0.0177	0.6	38	3	64.50

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADPF30-0050	0.50	0.0197	1	38	3	64.50
ADPF30-0055	0.55	0.0217	1	38	3	64.50
ADPF30-0060	0.60	0.0236	1	38	3	64.50
ADPF30-0065	0.65	0.0256	1	38	3	64.50
ADPF30-0070	0.70	0.0276	1.2	38	3	64.50
ADPF30-0075	0.75	0.0295	1.2	38	3	64.50
ADPF30-0080	0.80	0.0315	1.2	38	3	64.50
ADPF30-0085	0.85	0.0335	1.2	38	3	64.50
ADPF30-0090	0.90	0.0354	1.8	38	3	64.50
ADPF30-0095	0.95	0.0374	1.8	38	3	64.50
ADPF30-0100	1.00	0.0394	2	38	3	64.50
ADPF30-0110	1.10	0.0433	2	38	3	64.50
ADPF30-0120	1.20	0.0472	2	38	3	64.50
ADPF30-0130	1.30	0.0512	3	38	3	64.50
ADPF30-0140	1.40	0.0551	3	38	3	64.50
ADPF30-0150	1.50	0.0591	3	38	3	64.50
ADPF30-0160	1.60	0.0630	3	38	3	64.50
ADPF30-0170	1.70	0.0669	3	38	3	64.50
ADPF30-0180	1.80	0.0709	4	38	3	64.50
ADPF30-0190	1.90	0.0748	4	38	3	64.50
ADPF30-0200	2.00	0.0787	4	38	3	64.50
ADPF30-0210	2.10	0.0827	4	38	3	64.50
ADPF30-0220	2.20	0.0866	4	38	3	64.50
ADPF30-0230	2.30	0.0906	5	38	3	64.50
ADPF30-0240	2.40	0.0945	5	38	3	64.50
ADPF30-0250	2.50	0.0984	5	38	3	64.50
ADPF30-0260	2.60	0.1024	5	38	3	64.50
ADPF30-0270	2.70	0.1063	5	38	3	64.50
ADPF30-0280	2.80	0.1102	5	38	3	64.50
ADPF30-0290	2.90	0.1142	5	38	3	64.50
ADPF30-0300	3.00	0.1181	5	38	3	64.50

Guide Hole Drill for Non-Ferrous Materials

ADPN30



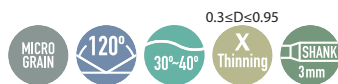
■ Specialized drill point geometry for achieving precise hole position and hole diameter tolerance

■ Designed for non-ferrous materials, including aluminum and copper alloys and resin

ØD Tolerance:

-0.005 ~ -0.01 (≤Ø0.09)

-0.01 ~ -0.015 (≥Ø0.1)



0.3 ≤ D ≤ 0.95

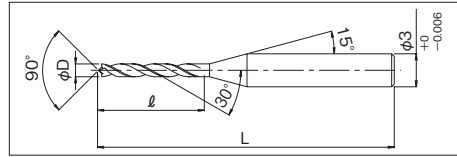
Unit: mm

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADPN30-0003	0.03	0.0012	0.06	38	3	229.60
ADPN30-0004	0.04	0.0016	0.08	38	3	199.00
ADPN30-0005	0.05	0.0020	0.10	38	3	174.20
ADPN30-0006	0.06	0.0024	0.10	38	3	147.40
ADPN30-0007	0.07	0.0028	0.10	38	3	115.50
ADPN30-0008	0.08	0.0031	0.10	38	3	103.40
ADPN30-0009	0.09	0.0035	0.10	38	3	88.70
ADPN30-0010	0.10	0.0039	0.20	38	3	80.40
ADPN30-0011	0.11	0.0043	0.20	38	3	88.10
ADPN30-0012	0.12	0.0047	0.20	38	3	88.10
ADPN30-0013	0.13	0.0051	0.20	38	3	88.10
ADPN30-0014	0.14	0.0055	0.20	38	3	88.10
ADPN30-0015	0.15	0.0059	0.20	38	3	81.40
ADPN30-0016	0.16	0.0063	0.30	38	3	88.10
ADPN30-0017	0.17	0.0067	0.30	38	3	88.10
ADPN30-0018	0.18	0.0071	0.30	38	3	88.10
ADPN30-0019	0.19	0.0075	0.30	38	3	88.10
ADPN30-0020	0.20	0.0079	0.40	38	3	73.40
ADPN30-0021	0.21	0.0083	0.40	38	3	80.40
ADPN30-0022	0.22	0.0087	0.40	38	3	80.40
ADPN30-0023	0.23	0.0091	0.40	38	3	80.40
ADPN30-0024	0.24	0.0094	0.40	38	3	80.40
ADPN30-0025	0.25	0.0098	0.40	38	3	72.40
ADPN30-0026	0.26	0.0102	0.50	38	3	80.40
ADPN30-0027	0.27	0.0106	0.50	38	3	80.40
ADPN30-0028	0.28	0.0110	0.50	38	3	80.40
ADPN30-0029	0.29	0.0114	0.50	38	3	80.40
ADPN30-0030	0.30	0.0118	0.60	38	3	64.50
ADPN30-0035	0.35	0.0138	0.60	38	3	64.50
ADPN30-0040	0.40	0.0157	0.60	38	3	64.50
ADPN30-0045	0.45	0.0177	0.60	38	3	64.50

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ADPN30-0050	0.50	0.0197	1.00	38	3	64.50
ADPN30-0055	0.55	0.0217	1.00	38	3	64.50
ADPN30-0060	0.60	0.0236	1.00	38	3	64.50
ADPN30-0065	0.65	0.0256	1.00	38	3	64.50
ADPN30-0070	0.70	0.0276	1.20	38	3	64.50
ADPN30-0075	0.75	0.0295	1.20	38	3	64.50
ADPN30-0080	0.80	0.0315	1.20	38	3	64.50
ADPN30-0085	0.85	0.0335	1.20	38	3	64.50
ADPN30-0090	0.90	0.0354	1.80	38	3	64.50
ADPN30-0095	0.95	0.0374	1.80	38	3	64.50
ADPN30-0100	1.00	0.0394	2	38	3	64.50
ADPN30-0110	1.10	0.0433	2	38	3	64.50
ADPN30-0120	1.20	0.0472	2	38	3	64.50
ADPN30-0120	1.30	0.0512	3	38	3	64.50
ADPN30-0140	1.40	0.0551	3	38	3	64.50
ADPN30-0150	1.50	0.0591	3	38	3	64.50
ADPN30-0160	1.60	0.0630	3	38	3	64.50
ADPN30-0170	1.70	0.0669	3	38	3	64.50
ADPN30-0180	1.80	0.0709	4	38	3	64.50
ADPN30-0190	1.90	0.0748	4	38	3	64.50
ADPN30-0200	2.00	0.0787	4	38	3	64.50
ADPN30-0210	2.10	0.0827	4	38	3	64.50
ADPN30-0220	2.20	0.0866	4	38	3	64.50
ADPN30-0230	2.30	0.0906	5	38	3	64.50
ADPN30-0240	2.40	0.0945	5	38	3	64.50
ADPN30-0250	2.50	0.0984	5	38	3	64.50
ADPN30-0260	2.60	0.1024	5	38	3	64.50
ADPN30-0270	2.70	0.1063	5	38	3	64.50
ADPN30-0280	2.80	0.1102	5	38	3	64.50
ADPN30-0290	2.90	0.1142	5	38	3	64.50
ADPN30-0300	3.00	0.1181	5	38	3	64.50

Sweep Cut Drill, 3mm Shank

ASWR for Non-Ferrous & Resin



- Special head geometry for minimizing exit burrs
- Designed for non-ferrous materials, including aluminum and copper alloys and resin

ØD Tolerance: +0~ -0.005

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ASWR-0010	0.10	0.0039	1.2	38	3	119.90
ASWR-0011	0.11	0.0043	1.2	38	3	114.20
ASWR-0012	0.12	0.0047	1.4	38	3	114.20
ASWR-0013	0.13	0.0051	1.4	38	3	114.20
ASWR-0014	0.14	0.0055	1.4	38	3	114.20
ASWR-0015	0.15	0.0059	1.8	38	3	111.70
ASWR-0016	0.16	0.0063	1.8	38	3	111.70
ASWR-0017	0.17	0.0067	1.8	38	3	111.70
ASWR-0018	0.18	0.0071	2.1	38	3	111.70
ASWR-0019	0.19	0.0075	2.1	38	3	111.70
ASWR-0020	0.20	0.0079	2.4	38	3	103.40
ASWR-0021	0.21	0.0083	2.4	38	3	103.40
ASWR-0022	0.22	0.0087	2.6	38	3	103.40
ASWR-0023	0.23	0.0091	2.6	38	3	103.40
ASWR-0024	0.24	0.0094	2.6	38	3	103.40
ASWR-0025	0.25	0.0098	3	38	3	95.10
ASWR-0026	0.26	0.0102	3	38	3	95.10
ASWR-0027	0.27	0.0106	3	38	3	95.10
ASWR-0028	0.28	0.0110	3.3	38	3	95.10
ASWR-0029	0.29	0.0114	3.3	38	3	95.10
ASWR-0030	0.30	0.0118	5	38	3	90.60
ASWR-0035	0.35	0.0138	5	38	3	90.60
ASWR-0040	0.40	0.0157	6	38	3	90.60
ASWR-0045	0.45	0.0177	6	38	3	90.60
ASWR-0050	0.50	0.0197	6	38	3	90.60
ASWR-0055	0.55	0.0217	6	38	3	90.60
ASWR-0060	0.60	0.0236	7	38	3	90.60
ASWR-0065	0.65	0.0256	7	38	3	90.60
ASWR-0070	0.70	0.0276	8	38	3	90.60
ASWR-0075	0.75	0.0295	8	38	3	90.60
ASWR-0080	0.80	0.0315	8	38	3	90.60

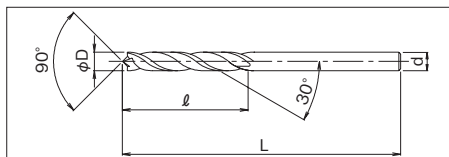


Unit: mm

PRODUCT NUMBER	ØD mm	ØD inch	ℓ	L	d	Price USD
ASWR-0085	0.85	0.0335	8	38	3	90.60
ASWR-0090	0.90	0.0354	8	38	3	90.60
ASWR-0095	0.95	0.0374	8	38	3	90.60
ASWR-0100	1.00	0.0394	10	38	3	89.00
ASWR-0110	1.10	0.0433	10	38	3	89.00
ASWR-0120	1.20	0.0472	10	38	3	89.00
ASWR-0130	1.30	0.0512	10	38	3	89.00
ASWR-0140	1.40	0.0551	10	38	3	89.00
ASWR-0150	1.50	0.0591	15	45	3	100.50
ASWR-0160	1.60	0.0630	15	45	3	100.50
ASWR-0170	1.70	0.0669	15	45	3	100.50
ASWR-0180	1.80	0.0709	15	45	3	100.50
ASWR-0190	1.90	0.0748	15	45	3	100.50
ASWR-0200	2.00	0.0787	22	50	3	107.80
ASWR-0210	2.10	0.0827	22	50	3	107.80
ASWR-0220	2.20	0.0866	22	50	3	107.80
ASWR-0230	2.30	0.0906	22	50	3	107.80
ASWR-0240	2.40	0.0945	22	50	3	107.80
ASWR-0250	2.50	0.0984	22	50	3	107.80
ASWR-0260	2.60	0.1024	22	50	3	107.80
ASWR-0270	2.70	0.1063	25	50	3	107.80
ASWR-0280	2.80	0.1102	25	50	3	107.80
ASWR-0290	2.90	0.1142	25	50	3	107.80
ASWR-0300	3.00	0.1181	25	50	3	107.80

Sweep Cut Drill, Straight Shank

ASWD for Non-Ferrous & Resin



- Special head geometry for minimizing exit burrs
- Designed for non-ferrous materials, including aluminum and copper alloys and resin

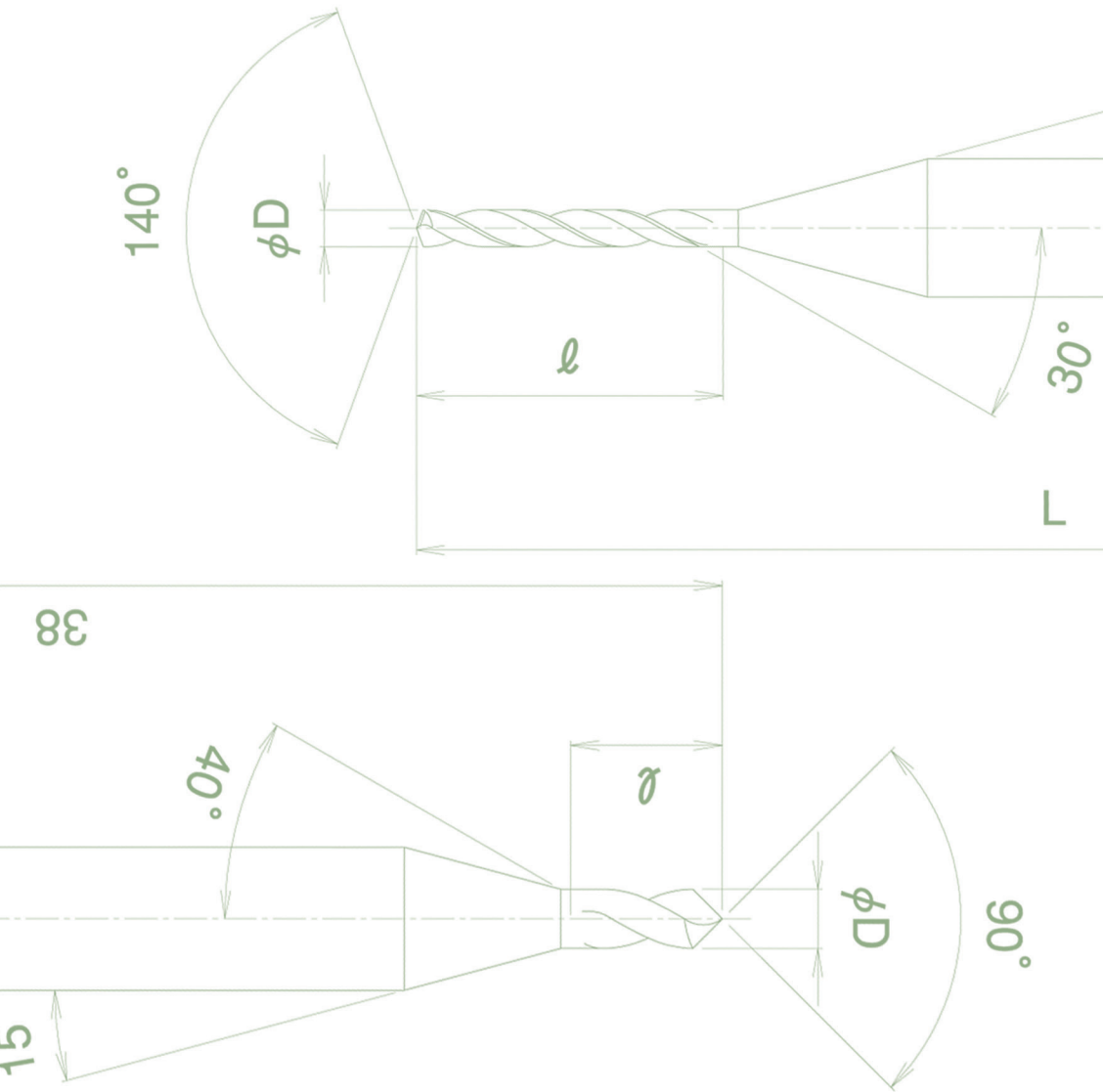
ØD Tolerance: +0~-0.01

PRODUCT NUMBER	D mm	D inch	ℓ	L	Price USD
ASWD-0100	1.0	0.0394	16	50	63.20
ASWD-0110	1.1	0.0433	16	50	63.20
ASWD-0120	1.2	0.0472	18	50	63.20
ASWD-0130	1.3	0.0512	18	50	63.20
ASWD-0140	1.4	0.0551	18	50	63.20
ASWD-0150	1.5	0.0591	24	55	72.10
ASWD-0160	1.6	0.0630	24	55	72.10
ASWD-0170	1.7	0.0669	24	55	72.10
ASWD-0180	1.8	0.0709	24	55	72.10
ASWD-0190	1.9	0.0748	24	55	72.10
ASWD-0200	2.0	0.0787	24	55	72.80
ASWD-0210	2.1	0.0827	24	55	72.80
ASWD-0220	2.2	0.0866	26	58(65)	72.80
ASWD-0230	2.3	0.0906	26	58(65)	72.80
ASWD-0240	2.4	0.0945	26	61(65)	76.60
ASWD-0250	2.5	0.0984	26	61(65)	76.60
ASWD-0260	2.6	0.1024	28	64(65)	80.40
ASWD-0270	2.7	0.1063	28	64(65)	80.40
ASWD-0280	2.8	0.1102	30	67(75)	81.00
ASWD-0290	2.9	0.1142	30	71(75)	82.00
ASWD-0300	3.0	0.1181	30	71(75)	82.00



Unit: mm

* Overall length is being changed to figures in parentheses.



Drilling Conditions

Micro Drill

ADRS/ADR/ADRSL/ADRL

Work Materials	Steel						Stainless Steel			
	Carbon steel		Alloy Steel		Tool Steel (HRC30~38)		300SS		400SS	
Drill Diameter (mm)	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR
Ø0.02~0.09	10,000~20,000	0.00004~0.00006	10,000~20,000	0.00004~0.00006	10,000~20,000	0.00004	10,000~20,000	0.00002~0.00004	10,000~20,000	0.00004~0.00008
Ø0.1~0.29	19,000~13,000	0.00008~0.0004	16,000~11,000	0.000055~0.00028	13,000~8,800	0.00004~0.00016	10,000~5,000	0.00002~0.00004	13,000~8,800	0.00002~0.00004
Ø0.3~0.49	13,000~12,000	0.0004~0.0008	11,000~9,700	0.00028~0.0004	8,800~6,500	0.00012~0.0002	5,000~4,500	0.00004~0.0002	8,800~6,500	0.00004~0.0002
Ø0.5~0.99	12,000~9,600	0.0008~0.0016	9,700~6,400	0.0004~0.0008	6,500~4,800	0.0002~0.0004	4,500~3,200	0.0002~0.0004	6,500~4,800	0.0002~0.0004
Ø1~1.99	9,600~6,400	0.0012~0.0024	6,400~4,000	0.0008~0.002	3,100~2,400	0.0004~0.0012	3,200~2,400	0.0004~0.0012	4,800~3,200	0.0004~0.0012
Ø2.0~3.0	6,400~4,200	0.0028~0.004	4,000~3,200	0.002~0.0032	2,400~1,600	0.0008~0.0016	2,400~1,800	0.0012~0.002	3,200~2,100	0.0012~0.002

Work Materials	Non-Ferrous				Resin	
	Aluminium Alloy		Copper Alloy		Engineering Plastic	
Drill Diameter (mm)	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR
Ø0.02~0.09	10,000~30,000	0.00004~0.00012	10,000~20,000	0.00004~0.0002	10,000~20,000	0.00004~0.00012
Ø0.1~0.29	22,200~16,500	0.0002~0.0008	16,000~11,000	0.00008~0.00032	20,000~15,000	0.0002~0.0004
Ø0.3~0.49	16,500~13,000	0.0008~0.0016	11,000~11,500	0.00032~0.00059	15,000	0.0004~0.0008
Ø0.5~0.99	13,000~12,700	0.0016~0.0024	11,500~9,600	0.00059~0.0016	15,000~10,000	0.0008~0.0016
Ø1~1.99	12,700~6,400	0.0024~0.0047	9,600~4,800	0.0016~0.00315	10,000~6,000	0.002~0.0028
Ø2.0~3.0	6,400~5,300	0.0047~0.008	4,800~4,200	0.00315~0.0059	6,000~5,000	0.0028~0.0039

Drill Diameter	Pecking Distance
Ø0.02~Ø0.49	10% of drill diameter
Ø0.5~Ø1.0	20% of drill diameter
Above Ø1.0	*25-50% of drill diameter

*Start at 25% and increase if needed, to 50%

Remarks:

- 1) Guide-holes are necessary when drilling under Ø1.0mm (0.0394"). Guide-hole prevents chippings and tool breakage during initial drilling.
- 2) Runout (with drill in spindle) should be less than 0.003mm (0.00012").
- 3) If your machine cannot meet the recommended rotation speed, please use the higher speed and adjust the feed rate appropriately.
- 4) For drills under Ø0.5mm (0.0197"), set machine/spindle at the most stable speed rather than following the recommended conditions shown in table.
- 5) For drills under Ø0.1mm (0.0039"), it is recommended to start with the lowest rotation speed indicated on the table.

Reference: 10,000~20,000 should be started from 10,000.

Micro Drill "SV" Series

ADRS-SV/ADR-SV/ADRSLSV/ADRL-SV

Work Materials	Steel						Stainless Steel			
	Carbon steel		Alloy Steel		Tool Steel (HRC30~38)		300SS		400SS	
Drill Diameter (mm)	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR
Ø0.03~0.09	10,000→20,000	0.00004~0.00006	10,000→20,000	0.00004~0.00006	10,000→20,000	0.00004	10,000→15,000	0.00004~0.00006	10,000→20,000	0.00004~0.00008
Ø0.1~0.29	25,000~20,000	0.00008~0.0004	20,000~15,000	0.00006~0.0003	17,000~13,000	0.00004~0.00016	15,000~7,500	0.00002~0.00004	20,000~13,000	0.00002~0.00004
Ø0.3~0.49	20,000~18,000	0.0004~0.0008	15,000	0.00027~0.0004	13,000~10,000	0.00012~0.0002	10,000~8,000	0.000079~0.00039	13,000~9,500	0.000079~0.00039
Ø0.5~0.99	18,000~15,000	0.0008~0.0016	15,000~9,500	0.0004~0.0008	10,000~7,000	0.0002~0.0004	8,000~6,000	0.00059~0.00079	9,500~7,000	0.00059~0.00079
Ø1~1.99	15,000~9,500	0.0012~0.0024	9,500~6,000	0.0008~0.002	7,000~4,000	0.0004~0.0012	6,000~4,000	0.00079~0.0016	7,000~4,000	0.00079~0.0016
Ø2.0~3.0	9,500~6,300	0.0028~0.0039	6,000~4,800	0.002~0.0031	4,000~3,000	0.00078~0.0016	4,000~3,700	0.0012~0.002	4,000~3,000	0.0012~0.002

Drill Diameter	Pecking Distance
Ø0.03~Ø0.49	10% of drill diameter
Ø0.5~Ø1.0	20% of drill diameter
Above Ø1.0	*25-50% of drill diameter

*Start at 25% and increase if needed, to 50%

Remarks:

- 1) Guide-holes are necessary when drilling under Ø1.0mm (0.0394"). Guide-hole prevents chippings and tool breakage during initial drilling.
- 2) Runout (with drill in spindle) should be less than 0.003mm (0.00012").
- 3) If your machine cannot meet the recommended rotation speed, please use the higher speed and adjust the feed rate appropriately.
- 4) For drills under Ø0.5mm (0.0197"), set machine/spindle at the most stable speed rather than following the recommended conditions shown in table.
- 5) For drills under Ø0.1mm (0.0039"), it is recommended to start with the lowest rotation speed indicated on the table.

Reference: 10,000→20,000 should be started from 10,000.

Micro Drill for Hard-to-Cut Materials

ADR-SUS/ADRL-SUS

Work Materials	Stainless Steel						Nickel Alloy			
	300SS		400SS		17-4PH		Inconel/Hasteroy		Kovar	
Drill Diameter (mm)	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR
Ø0.1~0.2	10,000	0.000012~0.00004	12,500~11,200	0.000016~0.00004	7,100	0.000012~0.0000315	4,300	0.000012~0.000028	9,500	0.000012~0.000032
Ø0.3~0.4	8,500~7,900	0.00006~0.00012	10,500~10,000	0.00006~0.00012	6,400~6,000	0.00004~0.00008	3,900~3,600	0.00004~0.00008	8,500~7,900	0.00006~0.00012
Ø0.5~0.7	7,600~6,800	0.00016~0.0004	9,600~9,100	0.00016~0.0004	5,700~5,100	0.00014~0.0003	4,900~4,400	0.00012~0.00024	7,600~6,800	0.00016~0.0004
Ø0.8~1.4	6,800~6,400	0.0006~0.0008	8,800~8,000	0.0006~0.0008	5,100~4,800	0.0004~0.0006	3,100~2,900	0.00028~0.0004	6,800~6,400	0.0006~0.0008
Ø1.5~2	4,300~3,200	0.0008~0.0012	5,300~4,000	0.0012~0.002	3,200~2,400	0.0008~0.0012	2,000~1,500	0.0008~0.0012	4,300~3,200	0.0012~0.002
Ø2.1~3	2,700	0.0012~0.002	3,200	0.0028	2,000	0.0016	1,200	0.0016	2,700	0.0028

Work Materials	Titanium Alloy	
Drill Diameter (mm)	Speed RPM	Feed IPR
Ø0.1~0.2	7,400	0.000012~0.000028
Ø0.3~0.4	6,600~6,200	0.00004~0.00008
Ø0.5~0.7	5,900~5,300	0.00012~0.00024
Ø0.8~1.4	5,300~5,000	0.00028~0.0004
Ø1.5~2	3,400~2,500	0.0008~0.001
Ø2.1~3	2,000	0.0016

Drill Diameter	Pecking Distance
Ø0.1~Ø0.49	10% of drill diameter
Ø0.5~Ø1.0	20% of drill diameter
Above Ø1.0	*25-50% of drill diameter

*Start at 25% and increase if needed, to 50%

Remarks:

- 1) Guide-holes are necessary when drilling under Ø1.0mm (0.0394"). Guide-hole prevents chippings and tool breakage during initial drilling.
- 2) Runout (with drill in spindle) should be less than 0.003mm (0.00012").
- 3) If your machine cannot meet the recommended rotation speed, please use the higher speed and adjust the feed rate appropriately.
- 4) For drills under Ø0.5mm (0.0197"), set machine/spindle at the most stable speed rather than following the recommended conditions shown in table.

Straight Shank Drill, Regular & Semi Long Flute Length

ADS/ADSL

Work Materials	Steel						Stainless Steel			
	Carbon steel		Alloy Steel		Tool Steel (HRC30~38)		300SS		400SS	
Drill Diameter (mm)	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR
Ø0.3~0.5	12,000~10,000	0.0002~0.0004	10,000~9500	0.00012~0.0004	8,500~7,600	0.00008~0.000315	5,300	0.00002~0.00004	8,000~6,300	0.00002~0.00004
Ø0.6~1.0	10,000~9,500	0.0004~0.0008	8,000~6,400	0.00028~0.0006	6,400~4,800	0.00012~0.0004	5,300~4,800	0.00004~0.0002	6,300~5,300	0.00004~0.0002
Ø1.1~2.0	7,200~6,400	0.0008~0.0024	5,800~3,200	0.0004~0.0008	4,400~3,200	0.0004~0.00059	4,300~3,200	0.0002~0.0008	5,300~4,700	0.0002~0.0008
Ø2.1~2.9	6,100~4,400	0.0024~0.00315	3,000~2800	0.0008~0.0016	3,000~2,800	0.00059~0.0008	3,000~2,200	0.0008~0.0012	4,500~3,300	0.0008~0.0012
Ø3.0~5.0	4,300~2,600	0.0031~0.004	2,700~2,000	0.0016~0.0031	2,700~1,900	0.0008~0.0016	2,100~1,300	0.0012~0.002	3,200~1,900	0.0012~0.002
Ø6.0~8.0	2,200~1,900	0.004~0.0047	1,600~1,400	0.002~0.004	1,600~1,400	0.0008~0.0024	1,100~800	0.002~0.004	1,600~1,200	0.002~0.004
Ø9.0~13.0	1,600~1,200	0.004~0.0047	1,300~1,000	0.002~0.004	1,200~900	0.0016~0.00315	700~500	0.002~0.004	1,100~750	0.002~0.004

Work Materials	Cast Iron		Non-Ferrous	
			Aluminium Alloy Copper Alloy	
Drill Diameter (mm)	Speed RPM	Feed IPR	Speed RPM	Feed IPR
Ø0.3~0.5	12,000~10,000	0.0004~0.0008	20,000~16,000	0.0008~0.002
Ø0.6~1.0	10,000~9,500	0.0004~0.0016	20,000~16,000	0.0024~0.0059
Ø1.1~2.0	8,700~7,200	0.0024~0.0059	16,000~13,000	0.004~0.008
Ø2.1~2.9	6,800~4,900	0.0024~0.0059	13,000~10,000	0.004~0.008
Ø3.0~5.0	4,800~3,200	0.004~0.008	8,500~6,400	0.004~0.008
Ø6.0~8.0	2,600~2,000	0.0059~0.0098	5,300~4,000	0.008~0.012
Ø9.0~13.0	1,800~1,500	0.008~0.016	3,000~2,500	0.016~0.02

Drill Diameter	Pecking Distance
Ø0.3~Ø0.49	10% of drill diameter
Ø0.5~Ø1.0	20% of drill diameter
Above Ø1.0	*25-50% of drill diameter

*Start at 25% and increase if needed, to 50%

Remarks:

- 1) It is recommended to start with the lowest speed and feed shown in the table. They may be gradually increased in order to obtain the most appropriate condition.
- 2) To prevent vibration, overhanging of the tool from the chuck should be minimized.
- 3) If your machine cannot meet the recommended rotation speed, please use the higher speed and adjust the feed rate appropriately.

Straight Shank Drill, Long & Extra Long Flute Length

ADL/ADLL

Work Materials	Steel						Stainless Steel		Cast Iron	
	Carbon steel		Alloy Steel		Tool Steel (HRC30~38)		300SS/400SS			
Drill Diameter (mm)	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR
Ø0.3~0.5	10,000	0.00016	9,000	0.00008	7,000	0.00006	4,000	0.00004	10,000	0.0002
Ø0.6~1.0	10,000~9,500	0.0004~0.0008	8,000~6,400	0.00028~0.0006	6,400~4,800	0.00012~0.0004	4,800~3,800	0.00004~0.0002	10,000~9,500	0.0004~0.0016
Ø1.1~2.0	7,200~6,400	0.0008~0.0024	5,800~3,200	0.0004~0.0008	4,400~3,200	0.0004~0.00059	4,300~3,200	0.0002~0.0008	8,700~7,200	0.0024~0.0059
Ø2.1~2.9	6,100~4,400	0.0024~0.00315	3,000~2,800	0.0008~0.0016	3,000~2,800	0.00059~0.0008	3,000~2,200	0.0004~0.0012	6,800~4,900	0.0024~0.0059
Ø3.0~5.0	4,300~2,600	0.00315~0.004	2,700~2,000	0.0016~0.0032	2,700~1,900	0.0008~0.0016	2,100~1,900	0.0012~0.002	4,800~3,200	0.004~0.008
Ø6.0~8.0	2,200~1,900	0.004~0.0047	1,600~1,400	0.002~0.004	1,600~1,400	0.0008~0.0024	1,600~1,200	0.002~0.004	2,600~2,000	0.0059~0.0098
Ø9.0~13.0	1,600~1,200	0.004~0.0047	1,300~1,000	0.002~0.004	1,200~900	0.0016~0.00315	1,100~750	0.002~0.004	1,800~1,500	0.008~0.012

Work Materials	Non-Ferrous	
	Aluminium Alloy Copper Alloy	
Drill Diameter (mm)	Speed RPM	Feed IPR
Ø0.3~0.5	10,000	0.0004~0.0008
Ø0.6~1.0	20,000~12,000	0.0024~0.0059
Ø1.1~2.0	16,000~13,000	0.004~0.008
Ø2.1~2.9	13,000~10,000	0.004~0.008
Ø3.0~5.0	8,500~6,400	0.008~0.0098
Ø6.0~8.0	5,300~4,000	0.008~0.012
Ø9.0~13.0	3,000~2,500	0.012~0.016

Drill Diameter	Pecking Distance
Ø0.3~Ø0.49	10% of drill diameter
Ø0.5~Ø1.0	20% of drill diameter
Above Ø1.0	*25-50% of drill diameter

*Start at 25% and increase if needed, to 50%

Remarks:

- 1) This drilling condition is based on the length from the holder to drill tip, which is 1.1 times the flute length. When the length from the holder is longer than 1.1 times of the flute length, please reduce the speed and feed appropriately.
- 2) It is recommended to start with the lowest speed and feed shown in the table. They may be gradually increased in order to obtain the most appropriate condition.
- 3) The use of drill bushes are recommended for drilling stable and precise holes.

Straight Shank Drill, Coated Regular Flute Length

V-ADS

Work Materials	Steel						Stainless Steel			
	Carbon steel		Alloy Steel		Tool Steel (HRC30~38)		300SS		400SS	
Drill Diameter (mm)	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR
Ø0.3~0.5	14,000~12,500	0.00024~0.00047	14,000~12,500	0.00016~0.00047	11,000~9,500	0.00008~0.00031	6,600	0.00002~0.00004	10,000~8,000	0.00002~0.00004
Ø0.6~1.0	11,000~9,500	0.00047~0.00098	10,000~8,000	0.00031~0.0008	8,000~6,400	0.00012~0.0004	6,600~6,200	0.00004~0.0002	8,000~6,900	0.00004~0.0002
Ø1.1~2.0	8,700~8,000	0.00098~0.0028	7,200~6,400	0.00047~0.00098	5,800~4,000	0.0004~0.0006	5,600~4,200	0.0002~0.0008	6,900~6,200	0.0002~0.0008
Ø2.1~2.9	7,600~5,500	0.0028~0.004	6,000~4,400	0.00098~0.002	4,000~3,300	0.0006~0.0008	3,900~2,900	0.0008~0.0012	5,900~4,300	0.0008~0.0012
Ø3.0~6.0	5,300~3,200	0.004~0.0047	4,200~2,500	0.002~0.004	3,200~1,900	0.0008~0.0016	2,800~1,700	0.0012~0.002	4,200~2,500	0.0012~0.002

Work Materials	Cast Iron	
Drill Diameter (mm)	Speed RPM	Feed IPR
Ø0.3~0.5	14,000~12,500	0.00047~0.00098
Ø0.6~1.0	12,000	0.00047~0.002
Ø1.1~2.0	11,000~8,000	0.0028~0.008
Ø2.1~2.9	7,600~5,500	0.0028~0.008
Ø3.0~6.0	5,300~3,900	0.0047~0.0098

Drill Diameter	Pecking Distance
Ø0.3~Ø0.49	10% of drill diameter
Ø0.5~Ø1.0	20% of drill diameter
Above Ø1.0	*25-50% of drill diameter

*Start at 25% and increase if needed, to 50%

Remarks:

- 1) It is recommended to start with the lowest speed and feed shown in the table. They may be gradually increased in order to obtain the most appropriate condition.
- 2) To prevent vibration, overhanging of the tool from the chuck should be minimized.
- 3) If your machine cannot meet the recommended rotation speed, please use the higher speed and adjust the feed rate appropriately.

Guide Hole Drill for Ferrous Materials

ADPF30

Work Materials	Steel						Stainless Steel			
	Carbon steel		Alloy Steel		Tool Steel (HRC30~38)		300SS		400SS	
Drill Diameter (mm)	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR
Ø0.03~0.09	10,000~20,000	0.00004~0.00006	10,000~20,000	0.00004~0.00006	10,000~20,000	0.00004	10,000~20,000	0.00002~0.00004	10,000~20,000	0.00004~0.00008
Ø0.1~0.29	15,000~10,000	0.00006~0.00028	15,000~10,000	0.00006~0.00028	13,000~8,800	0.00004~0.00016	10,000~5,000	0.00004~0.00012	13,000~8,800	0.00002~0.00004
Ø0.3~0.49	10,000~9,500	0.00028~0.0004	10,000~9,500	0.00028~0.0004	8,800~6,500	0.00012~0.0002	5,000~4,500	0.00004~0.0002	8,800~6,500	0.00004~0.0002
Ø0.5~0.99	9,500~7,700	0.0004~0.0008	9,500~7,700	0.0004~0.0008	6,500~4,800	0.0002~0.0004	4,500~3,200	0.0002~0.0004	6,500~4,800	0.0002~0.0004
Ø1~1.99	7,700~5,100	0.0008~0.002	7,700~5,100	0.0008~0.002	3,100~2,400	0.0004~0.0012	3,200~2,400	0.0004~0.0012	4,800~3,200	0.0004~0.0012
Ø2.0~3.0	5,100~4,200	0.0024	5,100~4,200	0.0024	2,400~1,600	0.0008~0.0016	2,400~1,800	0.0012~0.002	3,200~2,100	0.0012~0.002

Guide Hole Drill for Non-Ferrous Materials

ADPN30

Work Materials	Non-Ferrous				Resin	
	Aluminium Alloy		Copper Alloy		Engineered Plastic	
Drill Diameter (mm)	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR
Ø0.03~0.09	10,000~20,000	0.00008~0.0002	10,000~20,000	0.00008~0.0002	10,000~20,000	0.00008~0.0002
Ø0.1~0.29	18,000~13,000	0.0002~0.0008	16,000~11,000	0.00008~0.00031	18,000~13,000	0.0002~0.0008
Ø0.3~0.49	13,000~10,000	0.0008~0.0012	11,000~11,500	0.00031~0.0006	13,000~10,000	0.0008~0.0012
Ø0.5~0.99	10,000	0.0012	11,500~9,600	0.0006~0.0016	10,000	0.0012
Ø1~1.99	10,000~5,100	0.0012~0.0016	9,600~4,800	0.0016~0.0031	10,000~5,100	0.0012~0.0016
Ø2.0~3.0	5,100~4,200	0.0016	4,800~4,200	0.0031~0.006	5,100~4,200	0.0016

Drill Diameter	Pecking Distance
Ø0.03~Ø0.49	10% of drill diameter
Ø0.5~Ø1.0	20% of drill diameter
Above Ø1.0	*25-50% of drill diameter

*Start at 25% and increase if needed, to 50%

Remarks:

- Runout (with drill in spindle) should be less than 0.003mm (0.00012").
- If your machine cannot meet the recommended rotation speed, please use the higher speed and adjust the feed rate appropriately.
- For drills under Ø0.5mm (0.0197"), set machine/spindle at the most stable speed rather than following the recommended conditions shown in table.
- For drills under Ø0.1mm (0.0039"), it is recommended to start with the lowest rotation speed indicated on the table.
Reference: 10,000→20,000 should be started from 10,000.

Sweep Cut Drill

ASWR/ASWD

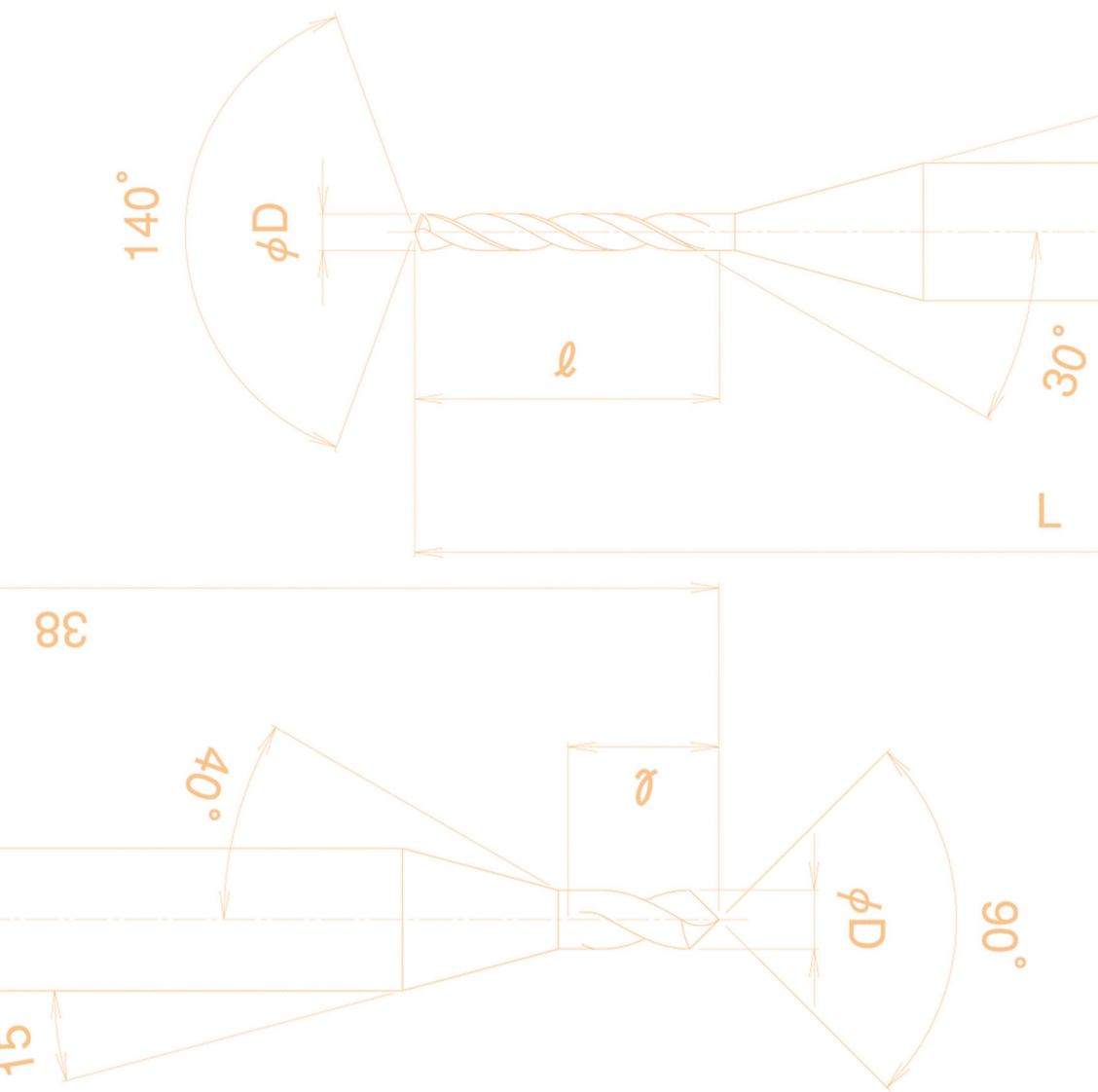
Work Materials	Non-Ferrous		Resin	
	Aluminium Alloy		Aluminium Alloy	
Drill Diameter (mm)	Speed RPM	Feed IPR	Speed RPM	Feed IPR
Ø0.1~0.25	20,000	0.00004~0.00012	17,000	0.00004~0.00012
Ø0.3~0.4	20,000	0.0002~0.0008	17,000	0.0002~0.00078
Ø0.5~0.7	17,000	0.0004~0.012	14,500	0.0004~0.0012
Ø0.8~0.9	15,000	0.0008~0.0016	12,800	0.0008~0.0016
Ø1	12,000	0.0012~0.002	10,000	0.0012~0.002
Ø1.5	9,000	0.0012~0.002	7,700	0.0012~0.002
Ø2	6,500	0.0012~0.002	5,500	0.0012~0.002
Ø3	4,200	0.0012~0.002	3,500	0.002

Drill Diameter	Pecking Distance
Ø0.1~Ø0.49	10% of drill diameter
Ø0.5~Ø1.0	20% of drill diameter
Above Ø1.0	*25-50% of drill diameter

*Start at 25% and increase if needed, to 50%

Remarks:

- 1) Runout (with drill in spindle) should be less than 0.003mm (0.00012").
- 2) If your machine cannot meet the recommended rotation speed, please use the higher speed and adjust the feed rate appropriately.
- 3) For drills under Ø0.5mm (0.0197"), set machine/spindle at the most stable speed rather than following the recommended conditions shown in table.

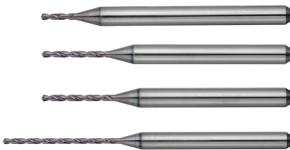
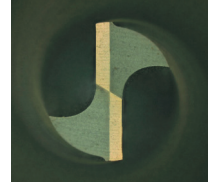


Data

ADRS-SV/ADR-SV/ADRSL-SV/ADRL-SV

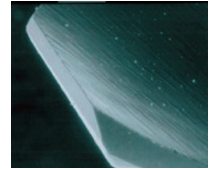
Features

- ADR-SV series are FCS coated for high performance with carbon steels, stainless steels (300 series and PH stainless), titanium alloys, and hardened steels up to 50 HRC. The wide chip pocket enables smooth chip evacuation under high speed and high feed drilling conditions.



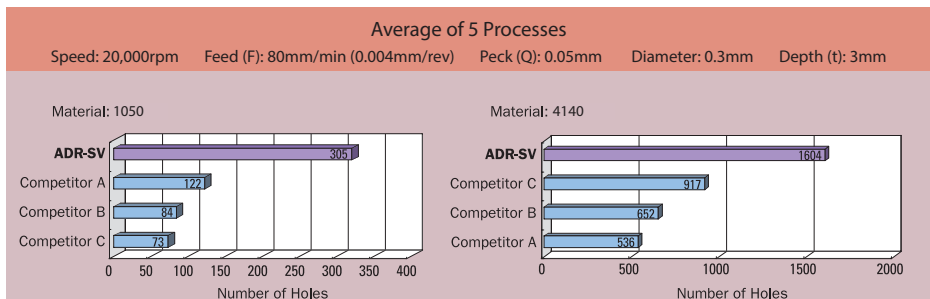
- These drills offers four different flute lengths.

- The Fine Coating System (FCS) is especially developed for micro drills to retain a sharp edge, allowing excellent cutting performance and wear resistance.



- Slight honing on these drills over $\varnothing 1.6\text{mm}$ prolongs tool life while preventing chipping at high speed and high feed drilling conditions.

Tool Life Comparison



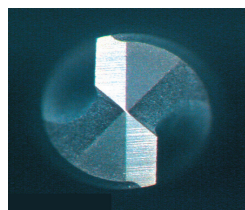
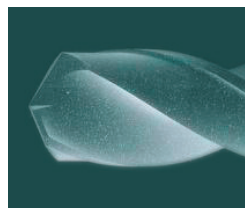
Micro Drill for Hard-to-Cut Materials

ADR-SUS/ADRL-SUS

FCS Coating

Features

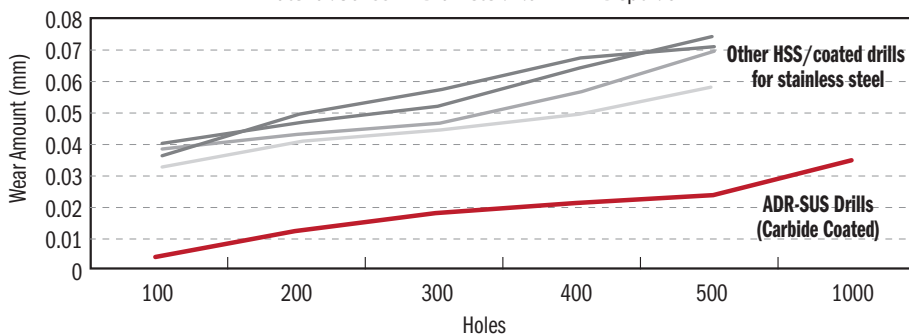
- ADR-SUS series are designed for high performance with hard-to-cut materials, including stainless steels (400 series), nickel alloys, and hardened steels up to 50 HRC.
- These drills have excellent chipping resistance and wear resistance due to our originally developed cutting edge form.
- Thinning on these drills over $\varnothing 0.3\text{mm}$ decreases thrust load, reducing work hardening and welding caused by cutting heat when drilling stainless steel.
- The thicker web on these drills increases tool stiffness and stability.



Tool Wear Comparison

Wear Comparison of Primary Relief

Material: 304SS Diameter: 1.0mm Depth: 6mm



Guide Hole Drill

ADPF30/ADPN30



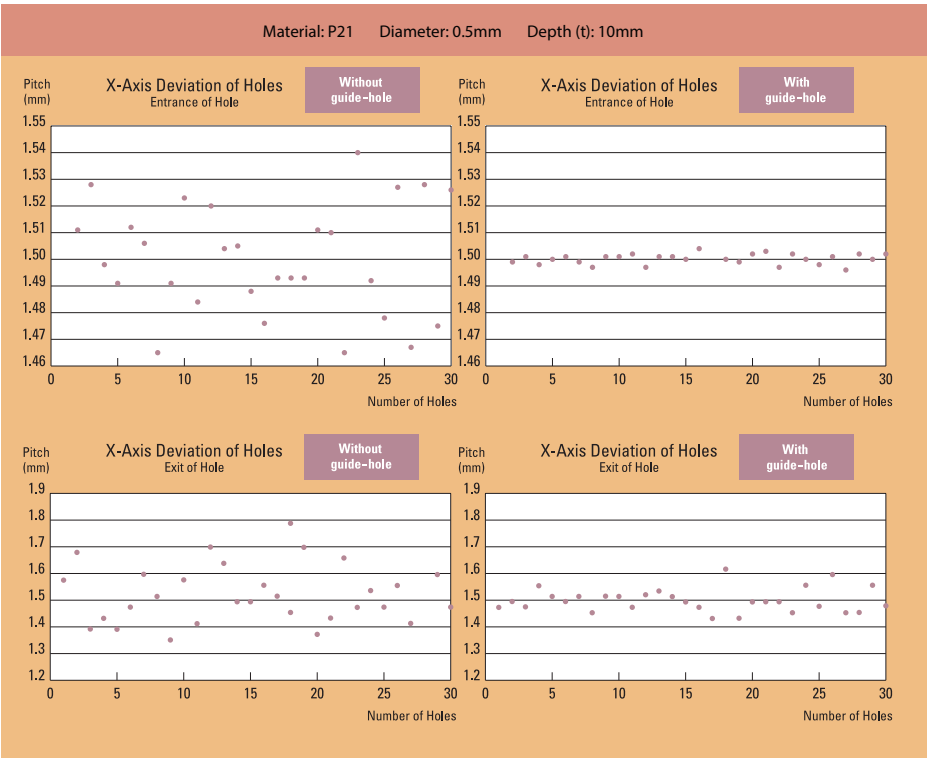
Hole Pitch Accuracy Comparison

Guide-Hole Drill: ADPF30-0050

Speed	9,500rpm
Feed (F)	95mm/min (0.01mm/rev)
Drilling depth	0.5mm

Main Drill: ADRL-0050

Speed	6,500rpm
Feed (F)	95mm/min (0.0146mm/rev)
Drilling depth	10mm
Pecking (Q)	0.05mm



Sweep Cut Drill

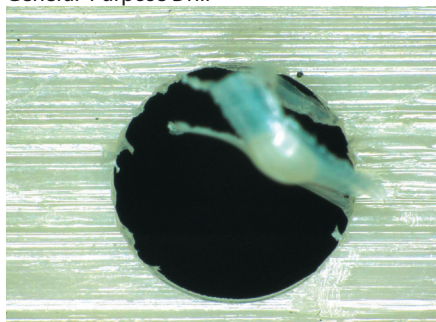
ASWR/ASWD



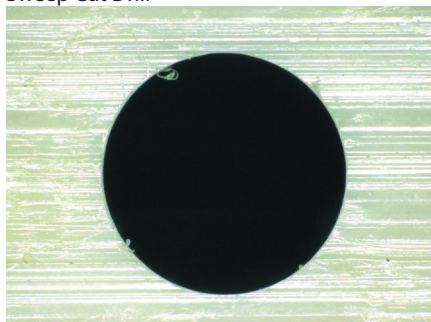
Exit Burr Comparison

Material : Peek
 Sample 1 Diameter : 2mm
 Speed: 3,200rpm Feed (F): 160mm/min (0.05mm/rev)

General Purpose Drill

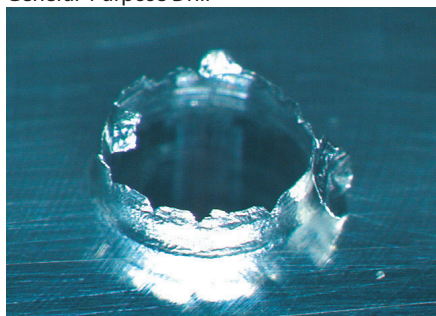


Sweep Cut Drill

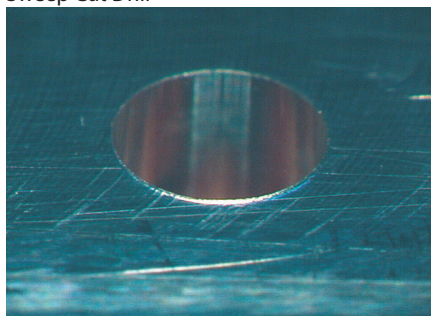


Work Material: 5052
 Sample 2 Diameter : 1mm
 Speed: 6,400rpm Feed (F): 320mm/min (0.05mm/rev)

General Purpose Drill



Sweep Cut Drill



Calculation for Speeds and Feeds

$$V = \frac{\pi \times D \times N}{12}$$

$$F = f \times N$$

V = Cutting Speed (SFM)

F = Feed (IPM)

$\pi = 3.14$

D = Diameter (inch)

N = Rotation Speed (RPM)

f = Feed Rate (IPR)

Recommended Step Feed Amount(Q)

Diameter (mm)	Pecking
Ø0.02~Ø0.49	D×0.1
Ø0.5~Ø1.0	D×0.2
Above Ø1.0	D×0.25~0.5

Pecking (Q) =
Diameter (D) × Coefficient Number

Hardness Comparison Table

Rockwell Hardness C Scale(150Kg)	Vickers	Brinell Hardness 10mm/ Ball	Rockwell Hardness A Scale (60kg)	Shore Hardness	Tensile Strength
HRC	HV	HB	HRA	HS	(N/mm2)
68	940	-	85.6	97	-
67	900	-	85.5	95	-
66	865	-	84.5	92	-
65	832	-	83.9	91	-
64	800	-	83.4	88	-
63	772	-	82.8	87	-
62	746	-	82.3	85	-
61	720	-	81.8	83	-
60	697	-	81.2	81	-
59	674	-	80.7	80	-
58	653	-	80.1	78	-
57	633	-	79.6	76	-
56	613	-	79	75	-
55	595	-	78.5	74	2079
54	577	-	78	72	2010
53	560	-	77.4	71	1952
52	544	500	76.8	69	1883
51	528	487	76.3	68	1824
50	513	475	75.9	67	1755
49	498	464	75.2	66	1687
48	484	451	74.7	64	1639
47	471	442	74.1	63	1578
46	458	432	73.6	62	1530
45	446	421	73.1	60	1481
44	434	409	72.5	58	1432
43	423	400	72	57	1383
42	412	390	71.5	56	1334
41	402	381	70.9	55	1294
40	392	371	70.4	54	1245
39	382	362	69.9	52	1216
38	372	353	69.4	51	1177
37	363	344	68.9	50	1157
36	354	336	68.4	49	1118
35	345	327	67.9	48	1079
34	336	319	67.4	47	1059
33	327	311	66.8	46	1030
32	318	301	66.3	44	1000
31	310	294	65.8	43	981
30	302	286	65.3	42	952
29	294	279	64.7	41	932
28	285	271	64.3	41	912
27	279	264	63.8	40	883
26	272	258	63.3	38	863
25	266	253	62.8	38	843
24	260	247	62.4	37	824
23	254	243	62	36	804
22	248	237	61.5	35	785
21	243	231	61	35	775
20	238	226	60.5	34	755
(18)	230	219	-	33	736
(16)	222	212	-	32	706
(14)	213	203	-	31	677
(12)	204	194	-	29	647
(10)	196	187	-	28	618
(8)	188	179	-	27	598
(6)	180	171	-	26	579
(4)	173	165	-	25	549
(2)	166	158	-	24	530
0	160	152	-	24	520

MEMO

Handwriting practice area with 20 sets of dashed lines for tracing on a lined background.

Safety Precautions

- Touching sharp cutting edge with bare can cause injury.
- When removing tools from cases, be careful to avoid touching the cutting edge directly.
- Please wear safety glasses as the tools may shatter.
- Please check dimensions of tools and work materials before starting operation.
- The tool should be firmly attached to the holder to prevent vibrations.
- Recommended cutting conditions shown in this catalog should be used as a general reference. It may be necessary to adjust according to the actual work conditions.
- Using a non-water-cutting fluid could lead to fires due to sparks generated during processing or heat caused by breakage. Please take proper fire-prevention measurement before starting operation.



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