

Solid Carbide Spade Drills

Foret à langue d'aspic au carbure

Broca tipo espada de carburo

Recommended for thin sheet applications, shallow hole drilling and spot drilling in a wide range of materials

Solid Carbide offers excellent hardness, wear resistance and heat resistance for higher cutting speeds and longer tool life. High rigidity enhances hole accuracy and quality.



List No. 5377

118° Point – Heavy Duty Web

TOLERANCES

All sizes +.0000/-.0005

STANDARD PACKAGE

All sizes — 1 each

SIZE	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP NO.
1/32	.0312	3/16	1-1/2	50440
3/64	.0469	7/32	1-1/2	50441
1/16	.0625	5/16	1-1/2	50442
3/32	.0938	7/16	1-1/2	50443
7/64	.1094	7/16	1-1/2	50444
1/8	.1250	1/2	1-1/2	50445
9/64	.1406	1/2	2	50446
5/32	.1562	9/16	2	50447
11/64	.1719	9/16	2	50448
3/16	.1875	11/16	2	50449

SIZE	DEC. EQUIV.	FLUTE LENGTH	OAL	EDP NO.
7/32	.2188	19/32	2	50450
1/4	.2500	11/16	2	50451
9/32	.2812	7/8	2-1/2	50452
5/16	.3125	7/8	2-1/2	50453
11/32	.3438	15/16	2-1/2	50454
3/8	.3750	1-1/8	2-1/2	50455
13/32	.4062	1-1/8	2-1/2	50456
7/16	.4375	1-3/16	2-1/2	50457
15/32	.4688	1-3/16	2-1/2	50458
1/2	.5000	1-3/16	2-1/2	50459

TOOL COATINGS

Tool Coatings enhance cutting tool performance for increased productivity and lower overall tooling cost. Benefits include increased surface hardness, lubricity & heat resistance and decreased chemical reactivity. Results include reduced friction & torque, higher speeds & feeds, increased tool life, decreased galling & chip welding and improved surface finish.

TiN – Titanium Nitride

A good general purpose coating for a wide range of ferrous materials. Not recommended for non-ferrous materials. Has higher heat resistance than TiCN coating.

TiCN – Titanium Carbonitride

Enhanced toughness, hardness & wear resistance for aggressive speeds & feeds. Recommended for difficult-to-machine, gummy & abrasive materials where moderate cutting temperatures are generated.

TiAlN – Titanium Aluminum Nitride

AlTiN – Aluminum Titanium Nitride

Excellent all around coatings featuring high heat resistance. Recommended for high thermal stress applications including dry machining, abrasive materials and hard-to-machine materials that generate higher cutting temperatures. AlTiN has higher AL content for increased hardness & heat resistance.

CrN – Chromium Nitride

CrC – Chromium Carbide

Especially recommended for titanium and non-ferrous materials including aluminum, copper & brass. CrC has slightly higher hardness than CrN. These coatings resist adhesion of the material being machined and resist chipping and cracking.

DLC – Diamond Like Carbon

A thin carbon based amorphous (non-crystalline) coating featuring very high hardness & low coefficient of friction. Highly recommended for non-ferrous materials including plastic, aluminum, copper & brass. Typically used on solid carbide tools.