

BROCAS PARA CNC HELICOIDALES DE CARBURO SOLID CARBIDE SPIRAL ROUTER-CNC BITS

**ESPIRALES EN UN ALA CON CORTE HACIA ABAJO
SINGLE FLUTE DOWN CUT SPIRALS**

SERIE 100

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
100-0560	1/4"	1"	1/4"	2-1/2"
100-0740	5/16"	1"	5/16"	3"
100-1000	3/8"	1"	3/8"	3"
100-1540	1/2"	1-3/8"	1/2"	3-1/2"



**ESPIRALES EN UN ALA CON CORTE HACIA ARRIBA
SINGLE FLUTE UP CUT SPIRALS**

SERIE 105

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
105-0560	1/4"	1"	1/4"	2-1/2"
105-0740	5/16"	1"	5/16"	3"
105-1000	3/8"	1"	3/8"	3"
105-1540	1/2"	1-3/8"	1/2"	3-1/2"



**ESPIRALES EN DOS ALAS GRADO MFC CON CORTE HACIA ABAJO
TWO FLUTE MFC GRADE DOWN-CUT SPIRALS**

SERIE 111

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
111-1000	1/4"	1"	1/4"	2-1/2"
111-1440	5/16"	1"	5/16"	3"
111-1580	3/8"	1"	3/8"	3"



**ESPIRALES EN DOS ALAS GRADO MFC CON CORTE HACIA ARRIBA
TWO FLUTE MFC GRADE UP-CUT SPIRALS**

SERIE 121

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
121-1000	1/4"	1"	1/4"	2-1/2"
121-1440	5/16"	1"	5/16"	3"
121-1580	3/8"	1"	3/8"	3"



**ESPIRALES EN DOS ALAS CON CORTE HACIA ABAJO
TWO FLUTE DOWN CUT SPIRALS**

SERIE 110

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
110-0140	1/8"	1/2"	1/4"	2"
110-0160	5/32"	1/2"	1/4"	2"
110-0300	3/16"	5/8"	1/4"	2"
110-0320	3/16"	3/4"	1/4"	2"
110-0380	7/32"	3/4"	1/4"	2"
110-0540	1/4"	7/8"	1/4"	2 1/2"
110-0560	1/4"	1"	1/4"	2-1/2"
110-0600	1/4"	1-1/4"	1/4"	2-1/2"
110-0740	5/16"	1"	5/16"	3"
110-0780	5/16"	1-1/4"	5/16"	3"
110-1000	3/8"	1"	3/8"	3"
110-1020	3/8"	1-1/8"	3/8"	3"
110-1040	3/8"	1-1/4"	3/8"	3"
110-1060	3/8"	1-1/4"	1/2"	3"
110-1240	7/16"	1"	1/2"	3"
110-1260	7/16"	1-1/4"	1/2"	3"
110-1480	1/2"	1-1/4"	1/2"	3"
110-1580	1/2"	1-5/8"	1/2"	3-1/2"
110-1660	1/2"	2"	1/2"	4"
110-1800	17/32"	1"	1/2"	3"
110-1980	5/8"	1-5/8"	5/8"	3-1/2"
110-2020	5/8"	2"	5/8"	4"
110-2140	3/4"	1-1/2"	3/4"	4"
110-2160	3/4"	2-1/8"	3/4"	4"
110-2280	3/4"	3"	3/4"	6"
110-2300	3/4"	3-1/2"	3/4"	6"

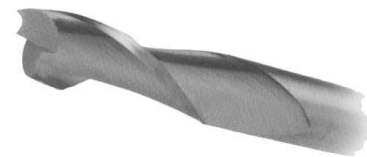


Down Cut

**ESPIRALES EN DOS ALAS CON CORTE HACIA ARRIBA
TWO FLUTE UP CUT SPIRALS**

SERIE 120

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
120-0140	1/8"	1/2"	1/4"	2"
120-0160	5/32"	1/2"	1/4"	2"
120-0300	3/16"	5/8"	1/4"	2"
120-0320	3/16"	3/4"	1/4"	2"
120-0380	7/32"	3/4"	1/4"	2"
120-0540	1/4"	7/8"	1/4"	2-1/2"
120-0560	1/4"	1"	1/4"	2-1/2"
120-0600	1/4"	1-1/4"	1/4"	2-1/2"
120-0740	5/16"	1"	5/16"	3"
120-0780	5/16"	1-1/4"	5/16"	3"
120-1000	3/8"	1"	3/8"	3"
120-1020	3/8"	1-1/8"	3/8"	3"
120-1040	3/8"	1-1/4"	3/8"	3"
120-1060	3/8"	1-1/4"	1/2"	3"
120-1240	7/16"	1"	1/2"	3"
120-1260	7/16"	1-1/4"	1/2"	3"
120-1480	1/2"	1-1/4"	1/2"	3"
120-1580	1/2"	1-5/8"	1/2"	3-1/2"
120-1660	1/2"	2"	1/2"	4"
120-1800	17/32"	1"	1/2"	3"
120-1980	5/8"	1-5/8"	5/8"	3-1/2"
120-2020	5/8"	2"	5/8"	4"
120-2140	3/4"	1-1/2"	3/4"	4"
120-2160	3/4"	2-1/8"	3/4"	4"
120-2280	3/4"	3"	3/4"	6"
120-2300	3/4"	3-1/2"	3/4"	6"



Up Cut

**ESPIRALES EN DOS ALAS CON ESPIRAL LENTO CORTE HACIA ABAJO
TWO FLUTE SLOW SPIRAL DOWN-CUT SPIRALS**

SERIE 130

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
130-0460	1/4"	3/8"	1/4"	2-1/2"
130-0520	1/4"	3/4"	1/4"	2-1/2"
130-0600	1/4"	1-1/4"	1/4"	2-1/2"
130-1000	3/8"	1"	3/8"	3"
130-1480	1/2"	1-1/4"	1/2"	3"
130-1580	1/2"	1-5/8"	1/2"	3-1/2"



**ESPIRALES EN DOS ALAS CON ESPIRAL LENTO CORTE HACIA ARRIBA
TWO FLUTE SLOW SPIRAL UP-CUT SPIRALS**

SERIE 140

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
140-0460	1/4"	3/8"	1/4"	2-1/2"
140-0520	1/4"	3/4"	1/4"	2-1/2"
140-0600	1/4"	1-1/4"	1/4"	2-1/2"
140-1000	3/8"	1"	3/8"	3"
140-1480	1/2"	1-1/4"	1/2"	3"
140-1580	1/2"	1-5/8"	1/2"	3-1/2"



**ESPIRALES EN DOS ALAS CON CORTE HACIA ABAJO ROMPE VIRUTA
TWO FLUTE DOWN-CUT CHIPBREAKER SPIRALS**

SERIE 205

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
205-1040	3/8"	1-1/4"	3/8"	3"
205-1480	1/2"	1-1/4"	1/2"	3"
205-1580	1/2"	1-5/8"	1/2"	3-1/2"
205-1660	1/2"	2"	1/2"	4"
205-1980	5/8"	1-5/8"	5/8"	3-1/2"
205-2020	5/8"	2"	5/8"	4"
205-2140	3/4"	1-1/2"	3/4"	4"
205-2160	3/4"	2"	3/4"	4"



**ESPIRALES EN DOS ALAS CON CORTE HACIA ARRIBA ROMPE VIRUTA
TWO FLUTE UP-CUT CHIPBREAKER SPIRALS**

SERIE 215

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
215-1040	3/8"	1-1/4"	3/8"	3"
215-1480	1/2"	1-1/4"	1/2"	3"
215-1580	1/2"	1-5/8"	1/2"	3-1/2"
215-1660	1/2"	2"	1/2"	4"
215-1980	5/8"	1-5/8"	5/8"	3-1/2"
215-2020	5/8"	2"	5/8"	4"
215-2140	3/4"	1-1/2"	3/4"	4"
215-2160	3/4"	2"	3/4"	4"



ESPIRALES EN TRES ALAS CORTE HACIA ABAJO
THREE FLUTE DOWN CUT SPIRALS

SERIE 150

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
150-0520	1/4"	3/4"	1/4"	2-1/2"
150-1040	3/8"	1-1/4"	3/8"	3"
150-1480	1/2"	1-1/4"	1/2"	3"
150-1580	1/2"	1-5/8"	1/2"	3-1/2"
150-1660	1/2"	2"	1/2"	4"
150-1980	5/8"	1-5/8"	5/8"	3-1/2"
150-2020	5/8"	2"	5/8"	4"
150-2140	3/4"	1-1/2"	3/4"	4"
150-2160	3/4"	2"	3/4"	4"
150-2280	3/4"	3"	3/4"	6"
150-2300	3/4"	3-1/2"	3/4"	6"



Down Cut

ESPIRALES EN TRES ALAS CORTE HACIA ARRIBA
THREE FLUTE UP CUT SPIRALS

SERIE 160

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
160-0520	1/4"	3/4"	1/4"	2-1/2"
160-1040	3/8"	1-1/4"	3/8"	3"
160-1480	1/2"	1-1/4"	1/2"	3"
160-1580	1/2"	1-5/8"	1/2"	3-1/2"
160-1660	1/2"	2"	1/2"	4"
160-1980	5/8"	1-5/8"	5/8"	3-1/2"
160-2020	5/8"	2"	5/8"	4"
160-2140	3/4"	1-1/2"	3/4"	4"
160-2160	3/4"	2"	3/4"	4"
160-2280	3/4"	3"	3/4"	6"
160-2300	3/4"	3-1/2"	3/4"	6"



**ESPIRALES EN TRES ALAS GRADO MFC CORTE HACIA ABAJO
THREE FLUTE MFC GRADE DOWN-CUT SPIRALS**

SERIE 151

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
151-1000	3/8"	1"	3/8"	3"
151-1440	1/2"	1"	1/2"	3"
151-1580	1/2"	1-5/8"	1/2"	3-1/2"



**ESPIRALES EN TRES ALAS GRADO MFC CORTE HACIA ARRIBA
THREE FLUTE MFC GRADE UP-CUT SPIRALS**

SERIE 161

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
161-1000	3/8"	1"	3/8"	3"
161-1440	1/2"	1"	1/2"	3"
161-1580	1/2"	1-5/8"	1/2"	3-1/2"



**ESPIRALES EN TRES ALAS CON ESPIRAL LENTO CORTE HACIA ABAJO
THREE FLUTE SLOW SPIRAL DOWN-CUT SPIRALS**

SERIE 170

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
170-1040	3/8"	1-1/4"	3/8"	3"
170-1480	1/2"	1-1/4"	1/2"	3"
170-1580	1/2"	1-5/8"	1/2"	3-1/2"
170-1620	1/2"	1-3/4"	1/2"	4"
170-2160	3/4"	2"	3/4"	4"



**ESPIRALES EN TRES ALAS CON ESPIRAL LENTO CORTE HACIA ARRIBA
THREE FLUTE SLOW SPIRAL U-CUT SPIRALS**

SERIE 180

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
180-1040	3/8"	1-1/4"	3/8"	3"
180-1480	1/2"	1-1/4"	1/2"	3"
180-1580	1/2"	1-5/8"	1/2"	3-1/2"
180-1620	1/2"	1-3/4"	1/2"	4"
180-2160	3/4"	2"	3/4"	4"



**ESPIRALES EN TRES ALAS CON CORTE HACIA ABAJO ROMPE VIRUTA
THREE FLUTE DOWN-CUT CHIPBREAKER SPIRALS**

SERIE 225

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
225-1040	3/8"	1-1/4"	3/8"	3"
225-1480	1/2"	1-1/4"	1/2"	3"
225-1580	1/2"	1-5/8"	1/2"	3-1/2"
225-1660	1/2"	2"	1/2"	4"
225-1980	5/8"	1-5/8"	5/8"	3-1/2"
225-2020	5/8"	2"	5/8"	4"
225-2140	3/4"	1-1/2"	3/4"	4"
225-2160	3/4"	2"	3/4"	4"



**ESPIRALES EN TRES ALAS CON CORTE HACIA ARRIBA ROMPE VIRUTA
THREE FLUTE UP-CUT CHIPBREAKER SPIRALS**

SERIE 235

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
235-1040	3/8"	1-1/4"	3/8"	3"
235-1480	1/2"	1-1/4"	1/2"	3"
235-1580	1/2"	1-5/8"	1/2"	3-1/2"
235-1660	1/2"	2"	1/2"	4"
235-1980	5/8"	1-5/8"	5/8"	3-1/2"
235-2020	5/8"	2"	5/8"	4"
235-2140	3/4"	1-1/2"	3/4"	4"
235-2160	3/4"	2"	3/4"	4"



ESPIRALES DE COMPRESION EN UN ALA
SINGLE FLUTE COMPRESSION SPIRALS

SERIE 250

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
250-0540	1/4"	7/8"	1/4"	2-1/2"
250-1000	3/8"	1"	3/8"	3"
250-1480	1/2"	1-1/4"	1/2"	3"
250-1580	1/2"	1-5/8"	1/2"	3-1/2"
250-2020	5/8"	2"	5/8"	4"
250-2160	3/4"	2"	3/4"	4"



ESPIRALES DE COMPRESION ESCOPIO EN UN ALA
SINGLE FLUTE MORTISE COMPRESSION SPIRALS

SERIE 255

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
255-0560	1/4"	1"	1/4"	2-1/2"
255-1040	3/8"	1-1/4"	3/8"	3"
255-1540	1/2"	1-3/8"	1/2"	3-1/2"
255-1580	1/2"	1-5/8"	1/2"	3-1/2"



ESPIRALES DE COMPRESION EN DOS ALAS
TWO FLUTE COMPRESSION SPIRALS

SERIE 265

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
265-0540	1/4"	7/8"	1/2"	2-1/2"
265-0620	1/4"	1-1/4"	1/4"	3"
265-1040	3/8"	1-1/4"	3/8"	3"
265-1460	1/2"	1-1/8"	1/2"	3"
265-1480	1/2"	1-1/4"	1/2"	3"
265-1520	1/2"	1-3/8"	1/2"	3"
265-1540	1/2"	1-3/8"	1/2"	3-1/2"
265-1580	1/2"	1-5/8"	1/2"	3-1/2"
265-1640	1/2"	1-7/8"	1/2"	4"
265-1680	1/2"	2-1/8"	1/2"	4"
265-1980	5/8"	1-5/8"	5/8"	3-1/2"
265-2020	5/8"	2"	5/8"	4"
265-2160	3/4"	2"	3/4"	4"
265-2220	3/4"	2-1/2"	3/4"	5"



ESPIRALES DE COMPRESION ESCOPIO EN DOS ALAS
TWO FLUTE MORTISE COMPRESSION SPIRALS

SERIE 280

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
280-0540	1/4"	1"	1/4"	2-1/2"
280-1040	3/8"	1-1/4"	3/8"	3"
280-1460	1/2"	1-1/4"	1/2"	3"
280-1540	1/2"	1-3/8"	1/2"	3-1/2"
280-1580	1/2"	1-5/8"	1/2"	3-1/2"



**ESPIRALES EN TRES ALAS DE COMPRESION ROMPE VIRUTA
TWO FLUTE CHIPBREAKER COMPRESSION SPIRALS**

SERIE 300

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
300-1000	3/8"	1-1/4"	3/8"	3"
300-1460	1/2"	1-1/8"	1/2"	3"
300-1480	1/2"	1-1/4"	1/2"	3"
300-1640	1/2"	1-7/8"	1/2"	4"
300-1980	5/8"	1-5/8"	5/8"	3-1/2"
300-2020	5/8"	2"	5/8"	4"
300-2160	3/4"	2"	3/4"	4"



**ESPIRALES EN DOS ALAS DE COMPRESION RUSTICA
TWO FLUTE ROUGHING COMPRESSION SPIRALS**

SERIE 320

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
320-1460	1/2"	1-1/8"	1/2"	3"
320-1480	1/2"	1-1/4"	1/2"	3"
320-1640	1/2"	1-7/8"	1/2"	4"
320-2020	5/8"	2"	5/8"	4"
320-2160	3/4"	2"	3/4"	4"



**ESPIRALES DE COMPRESION EN DOS ALAS GRADO MFC
TWO FLUTE MFC GRADE COMPRESSION SPIRALS**

SERIE 340

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
340-1040	3/8"	1-1/4"	3/8"	3"
340-1460	1/2"	1-1/8"	1/2"	3"
340-1480	1/2"	1-1/4"	1/2"	3"
340-1540	1/2"	1-3/8"	1/2"	3-1/2"
340-1580	1/2"	1-5/8"	1/2"	3-1/2"



**ESPIRALES DE COMPRESION Y ESCOPLA EN DOS ALAS GRADO MFC
TWO FLUTE MFC GRADE MORTISE COMPRESSION SPIRALS**

SERIE 345

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
345-1040	3/8"	1-1/4"	3/8"	3"
345-1480	1/2"	1-1/4"	1/2"	3"
345-1540	1/2"	1-3/8"	1/2"	3-1/2"
345-1580	1/2"	1-5/8"	1/2"	3-1/2"
345-2160	3/4"	2"	3/4"	4"



ESPIRALES DE COMPRESION EN TRES ALAS
THREE FLUTE COMPRESSION SPIRALS

SERIE 275

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
275-1040	3/8"	1-1/4"	3/8"	3"
275-1480	1/2"	1-1/4"	1/2"	3"
275-1520	1/2"	1-3/8"	1/2"	3"
275-1580	1/2"	1-5/8"	1/2"	3-1/2"
275-2020	5/8"	2"	5/8"	4"
275-2160	3/4"	2"	3/4"	4"



ESPIRALES DE COMPRESION ESCOPIO EN TRES ALAS
THREE FLUTE MORTISE COMPRESSION SPIRALS

SERIE 290

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
290-1040	3/8"	1-1/4"	3/8"	3"
290-1480	1/2"	1-1/4"	1/2"	3"
290-1520	1/2"	1-3/8"	1/2"	3"
290-1580	1/2"	1-5/8"	1/2"	3-1/2"
290-2020	5/8"	2"	5/8"	4"



**ESPIRALES DE COMPRESION EN TRES ALAS GRADO MFC
THREE FLUTE MFC GRADE COMPRESSION SPIRALS**

SERIE 360

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
360-1040	3/8"	1-1/4"	3/8"	3"
360-1480	1/2"	1-1/4"	1/2"	3"
360-1540	1/2"	1-3/8"	1/2"	3-1/2"
360-1580	1/2"	1-5/8"	1/2"	3-1/2"
360-2020	5/8"	2"	5/8"	4"



**ESPIRALES DE COMPRESION Y ESCOPLA EN TRES ALAS GRADO MFC
THREE FLUTE MFC GRADE MORTISE COMPRESSION SPIRALS**

SERIE 365

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
365-1040	3/8"	1-1/4"	3/8"	3"
365-1480	1/2"	1-1/4"	1/2"	3"
365-1540	1/2"	1-3/8"	1/2"	3-1/2"
365-1580	1/2"	1-5/8"	1/2"	3-1/2"
365-2020	5/8"	2"	5/8"	4"



**ESPIRALES EN TRES ALAS DE COMPRESION ROMPE VIRUTA
THREE FLUTE CHIPBREAKER COMPRESSION SPIRAL**

SERIE 310

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
310-1040	3/8"	1-1/4"	3/8"	3"
310-1480	1/2"	1-1/4"	1/2"	3"
310-1580	1/2"	1-5/8"	1/2"	3-1/2"
310-2020	5/8"	2"	5/8"	4"
310-2160	3/4"	2"	3/4"	4"



**ESPIRALES EN TRES ALAS DE COMPRESION RUSTICA
THREE FLUTE ROUGHING COMPRESSION SPIRALS**

SERIE 330

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
330-1040	3/8"	1-1/4"	3/8"	3"
330-1480	1/2"	1-1/4"	1/2"	3"
330-1580	1/2"	1-5/8"	1/2"	3-1/2"
330-2020	5/8"	2"	5/8"	4"
330-2160	3/4"	2"	3/4"	4"



**BROCA CORTE RUSTICO EN TRES ALAS CORTE HACIA ABAJO
THREE FLUTE DOWN CUT ROUGHER**

SERIE 410

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
410-0980	3/8"	1"	3/8"	2-1/2"
410-1000	3/8"	1"	3/8"	3"
410-1040	3/8"	1-1/4"	3/8"	3"
410-1480	1/2"	1-1/4"	1/2"	3"
410-1580	1/2"	1-5/8"	1/2"	3-1/2"
410-1640	1/2"	1-7/8"	1/2"	4"
410-1680	1/2"	2"	1/2"	4"
410-2020	5/8"	2"	5/8"	4"
410-2160	3/4"	2"	3/4"	4"



Down Cut

**BROCA CORTE RUSTICO EN TRES ALAS CORTE HACIA ARRIBA/ABAJO
THREE FLUTE UP/DOWN CUT ROUGHER**

SERIE 420

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
420-0980	3/8"	1"	3/8"	2-1/2"
420-1000	3/8"	1"	3/8"	3"
420-1040	3/8"	1-1/4"	3/8"	3"
420-1480	1/2"	1-1/4"	1/2"	3"
420-1580	1/2"	1-5/8"	1/2"	3-1/2"
420-1640	1/2"	1-7/8"	1/2"	4"
420-1680	1/2"	2"	1/2"	4"
420-2020	5/8"	2"	5/8"	4"
420-2160	3/4"	2"	3/4"	4"



Up Cut

**BROCA ESPIRAL LENTO RUSTICA EN TRES ALAS CORTE HACIA ABAJO
THREE FLUTE SLOW SPIRAL DOWN CUT ROUGHER**

SERIE 450

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
450-1000	3/8"	1"	3/8"	3"
450-1540	1/2"	1-3/8"	1/2"	3-1/2"
450-1580	1/2"	1-5/8"	1/2"	3-1/2"
450-1620	1/2"	1-3/4"	1/2"	4"
450-2020	5/8"	2"	5/8"	4"
450-2160	3/4"	2"	3/4"	4"



**BROCA ESPIRAL LENTO RUSTICA EN TRES ALAS CORTE HACIA ARRIBA
THREE FLUTE SLOW SPIRAL UP CUT ROUGHER**

SERIE 460

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
460-1000	3/8"	1"	3/8"	3"
460-1540	1/2"	1-3/8"	1/2"	3-1/2"
460-1580	1/2"	1-5/8"	1/2"	3-1/2"
460-1640	1/2"	1-3/4"	1/2"	4"
460-2020	5/8"	2"	5/8"	4"
460-2160	3/4"	2"	3/4"	4"



**BROCA ESPIRAL CORTE LISO/RUSTICO EN CUATRO ALAS CORTE HACIA ABAJO
FOUR FLUTE FINISH/ROUGHER DOWN CUT SPIRAL**

SERIE 495

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
495-1480	1/2"	1-1/4"	1/2"	3"
495-1580	1/2"	1-5/8"	1/2"	3-1/2"
495-2020	5/8"	2"	5/8"	4"
495-2160	3/4"	2"	3/4"	4"



**BROCA ESPIRAL CORTE LISO/RUSTICO EN CUATRO ALAS CORTE HACIA ARRIBA
FOUR FLUTE FINISH/ROUGHER UP CUT SPIRAL**

SERIE 500

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
500-1480	1/2"	1-1/4"	1/2"	3"
500-1580	1/2"	1-5/8"	1/2"	3-1/2"
500-2020	5/8"	2"	5/8"	4"
500-2160	3/4"	2"	3/4"	4"



BROCA RECTA EN UN ALA TIPO Z
SINGLE FLUTE STRAIGHT Z FLUTE

SERIE 510

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
510-0140	1/8"	1/2"	1/4"	2"
510-0300	3/16"	5/8"	1/4"	2"
510-0320	3/16"	3/4"	1/4"	2"
510-0540	1/4"	7/8"	1/4"	2-1/2"
510-0560	1/4"	1"	1/4"	2-1/2"
510-1000	3/8"	1"	3/8"	3"
510-1440	1/2"	1"	1/2"	3"
510-1620	1/2"	1-3/4"	1/2"	4"



BROCA RECTA EN DOS ALAS TIPO Z
TWO FLUTE STRAIGHT Z FLUTE

SERIE 520

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
520-0140	1/8"	1/2"	1/4"	2"
520-0180	5/32"	3/8"	1/4"	2"
520-0300	3/16"	5/8"	1/4"	2"
520-0320	3/16"	3/4"	1/4"	2"
520-0540	1/4"	7/8"	1/4"	2-1/2"
520-0620	1/4"	1-1/4"	1/4"	3"
520-1000	3/8"	1"	3/8"	3"
520-1440	1/2"	1"	1/2"	3"
520-1580	1/2"	1-5/8"	1/2"	3-1/2"
520-1620	1/2"	1-3/4"	1/2"	4"



BROCA RECTA EN UN ALA TIPO O
SINGLE FLUTE STRAIGHT O FLUTE

SERIE 540

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
540-0140	1/8"	1/2"	1/4"	2"
540-0300	3/16"	5/8"	1/4"	2"
540-0480	1/4"	1/2"	1/4"	2-1/2"
540-0560	1/4"	1"	1/4"	2-1/2"
540-0620	1/4"	1-1/4"	1/4"	3"
540-0940	3/8"	7/8"	3/8"	2-1/2"
540-1000	3/8"	1"	3/8"	3"
540-1440	1/2"	1"	1/2"	3"
540-1580	1/2"	1-5/8"	1/2"	3-1/2"



BROCA RECTA EN DOS ALAS TIPO O
TWO FLUTE STRAIGHT O FLUTE

SERIE 550

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
550-0140	1/8"	1/2"	1/4"	2"
550-0300	3/16"	5/8"	1/4"	2"
550-0480	1/4"	1/2"	1/4"	2-1/2"
550-0560	1/4"	1"	1/4"	2-1/2"
550-0620	1/4"	1-1/4"	1/4"	3"
550-0940	3/8"	7/8"	3/8"	2-1/2"
550-1000	3/8"	1"	3/8"	3"
550-1440	1/2"	1"	1/2"	3"
550-1580	1/2"	1-5/8"	1/2"	3-1/2"



**BROCA ESPIRAL EN UN ALA TIPO O CORTE HACIA ABAJO
SINGLE FLUTE DOWN-CUT O FLUTE**

SERIE 560

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
560-0140	1/8"	1/2"	1/4"	2"
560-0300	3/16"	5/8"	1/4"	2"
560-0540	1/4"	7/8"	1/4"	2-1/2"
560-1020	3/8"	1-1/8"	3/8"	3"
560-1460	1/2"	1-1/8"	1/2"	3"



**BROCA ESPIRAL EN UN ALA TIPO O CORTE HACIA ARRIBA
SINGLE FLUTE UP-CUT O FLUTE**

SERIE 570

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
570-0140	1/8"	1/2"	1/4"	2"
570-0300	3/16"	5/8"	1/4"	2"
570-0540	1/4"	7/8"	1/4"	2-1/2"
570-1020	3/8"	1-1/8"	3/8"	3"
570-1460	1/2"	1-1/8"	1/2"	3"



**BROCA ESPIRAL EN DOS ALAS TIPO O CORTE HACIA ABAJO
TWO FLUTE DOWN-CUT O FLUTE**

SERIE 590

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
590-0560	1/4"	1"	1/4"	2-1/2"
590-0620	1/4"	1-1/4"	1/4"	3"
590-0740	5/16"	1"	5/16"	3"
590-1000	3/8"	1"	3/8"	3"
590-1580	1/2"	1-5/8"	1/2"	3-1/2"



**BROCA ESPIRAL EN DOS ALAS TIPO O CORTE HACIA ARRIBA
TWO FLUTE UP-CUT O FLUTE**

SERIE 610

No. DE PARTE	Diam. Corte	Largo Corte	Diam. Vastago	Largo Total
ITEM NUMBER	Cutting Dia	Cutting Length	Shank Dia	OAL Length
610-0560	1/4"	1"	1/4"	2-1/2"
610-0620	1/4"	1-1/4"	1/4"	3"
610-0740	5/16"	1"	5/16"	3"
610-1000	3/8"	1"	3/8"	3"
610-1580	1/2"	1-5/8"	1/2"	3-1/2"

