



## **FABRICANTE DE HERRAMIENTAS DE CORTE**

Rimas , cortadores verticales en todas sus formas , cortadores circulares en todas sus formas , avellanadores , brocas izquierdas , Brocas allen , brocas especiales , cortadores woodruff , rimas especiales , rimas tipo pin y herramientas en general en 100% acero de alta velocidad (hss) y mantenimiento industrial.

# **CATÁLOGO DE PRODUCTOS 2026**

**VENTAS Y COTIZACIONES:  
NGTOOLS@gmail.com**



**Taper PIN Reamers Helical or Straight Flute hss**  
**Rimas Tipo PIN Ranura Helicoidal o Recta a.v.**

No.	SIZE	SHANK DIA.	DIA. SMALL END	DIA. LARGE END	O.A. LENGTH	FLUTE LENGTH
NGPIN1	1	3/16"	0.1447	0.1798	2-15/16"	1-11/16"
NGPIN2	2	13/64"	0.1605	0.2008	3-3/16"	1-15/16"
NGPIN3	3	15/64"	0.1813	0.2294	3-11/16"	2-5/16"
NGPIN4	4	17/64"	0.2071	0.2604	4-1/16"	2-9/16"
NGPIN5	5	5/16"	0.2409	0.2994	4-5/16"	2-13/16"
NGPIN6	6	23/64"	0.2773	0.354	5-7/16"	2-11/16"
NGPIN7	7	13/32"	0.3297	0.422	6-5/16"	4-7/16"
NGPIN8	8	7/16"	0.3971	0.505	7-3/16"	5-3/16"
NGPIN9	9	9/16"	0.4805	0.6066	8-5/16"	6-1/16"
NGPIN10	10	5/8"	0.5799	0.7216	9-5/16"	6-13/16"



**Morse Taper Socket Finishing Reamers hss**  
**Rimas Para Cono Morse a.v.**

No.	SIZE	DIA. SMALL END	DIA. LARGE END	O.A. LENGTH	FLUTE LENGTH
NGM1	1	0.3674	0.517	5"	3"
NGM2	2	0.5696	0.744	6"	3-1/2"
NGM3	3	0.7748	0.9881	7-1/4"	4-1/4"
NGM4	4	1.0167	1.2893	8-1/2"	5-1/4"
NGM5	5	1.4717	1.8005	9-3/4"	6-1/4"



**Morse Taper Socket Finishing Reamers hss**  
**Rimas Para Cono Morse Zanco Conico a.v.**

No.	SIZE	DIA. SMALL END	DIA. LARGE END	O.A. LENGTH	FLUTE LENGTH
NGM11	1	0.3674	0.517	6-5/16"	3"
NGM12	2	0.5696	0.744	7-3/8"	3-1/2"
NGM13	3	0.7748	0.9881	8-7/8"	4-1/4"
NGM14	4	1.0167	1.2893	10-7/8"	5-1/4"
NGM15	5	1.4717	1.8005	13-1/8"	6-1/4"



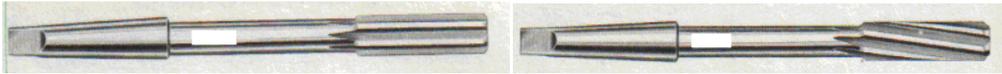
**Hand Reamers Helical or Straight Flute hss**  
**Rimas de Mano Ranura Recta o Helicoidal a.v.**

No.	SIZE	O.A. LENGTH	FLUTE LENGTH
NGHAND1	1/4"	4"	2"
NGHAND2	5/16"	4-1/2"	2-1/4"
NGHAND3	3/8"	5"	2-1/2"
NGHAND4	7/16"	5-1/2"	2-3/4"
NGHAND5	1/2"	6"	3"
NGHAND6	9/16"	6-1/2"	3-1/4"
NGHAND7	5/8"	7"	3-1/2"
NGHAND8	11/16"	7-3/4"	3-7/8"
NGHAND9	3/4"	8-3/8"	4-3/16"
NGHAND10	13/16"	9-1/8"	4-9/16"
NGHAND11	7/8"	9-3/4"	4-7/8"
NGHAND12	15/16"	10-1/4"	5-1/8"
NGHAND13	1"	10-7/8"	5-7/16"
NGHAND14	1-1/8"	11-5/8"	5-13/16"
NGHAND15	1-1/4"	12-1/4"	6-1/8"
NGHAND16	1-3/8"	12-5/8"	6-5/16"
NGHAND17	1-1/2"	13"	6-1/2"



**Jobbers Reamers hss**  
**Rimas Tipo Jobber Zanco Conico a.v.**

No.	SIZE	O.A. LENGTH	FLUTE LENGTH	T.S. NUMBER
NGJOB1	1/4"	5-3/16"	2"	1
NGJOB2	5/16"	5-1/2"	2-1/4"	1
NGJOB3	3/8"	5-13/16"	2-1/2"	1
NGJOB4	7/16"	6-1/8"	2-3/4"	1
NGJOB5	1/2"	6-7/16"	3"	1
NGJOB6	9/16"	6-3/4"	3-1/4"	1
NGJOB7	5/8"	7-9/16"	3-1/2"	2
NGJOB8	11/16"	8"	3-7/8"	2
NGJOB9	3/4"	8-3/8"	4-3/16"	2
NGJOB10	13/16"	8-13/16"	4-9/16"	2
NGJOB11	7/8"	9-3/16"	4-7/8"	2
NGJOB12	15/16"	10"	5-1/8"	3
NGJOB13	1"	10-3/8"	5-7/16"	3
NGJOB14	1-1/16"	10-5/8"	5-5/8"	3
NGJOB15	1-1/8"	10-7/8"	5-13/16"	3
NGJOB16	1-3/16"	11-1/8"	6"	3
NGJOB17	1-1/4"	12-9/16"	6-1/8"	4
NGJOB18	1-3/8"	13-13/16"	6-5/16"	4
NGJOB19	1-1/2"	13-1/8"	6-1/2"	4



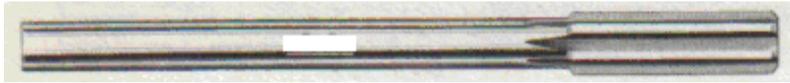
**Taper Shank Chucking Reamers Helical or Straight Flute hss**  
**Rimas Zanco Conico Recta o Helicoidal a.v.**

<b>No.</b>	<b>SIZE</b>	<b>O.A. LENGTH</b>	<b>FLUTE LENGTH</b>	<b>T.S. No.</b>
NGT1	1/4"	6"	1-1/2"	1
NGT2	9/32"	6"	1-1/2"	1
NGT3	5/16"	6"	1-1/2"	1
NGT4	11/32"	6"	1-1/2"	1
NGT5	3/8"	7"	1-3/4"	1
NGT6	13/32"	7"	1-3/4"	1
NGT7	7/16"	7"	1-3/4"	1
NGT8	15/32"	7"	1-3/4"	1
NGT9	1/2"	8"	2"	1
NGT10	17/32"	8"	2"	1
NGT11	9/16"	8"	2"	1
NGT12	19/32"	8"	2"	1
NGT13	5/8"	9"	2-1/4"	2
NGT14	21/32"	9"	2-1/4"	2
NGT15	11/16"	9"	2-1/4"	2
NGT16	23/32"	9"	2-1/4"	2
NGT17	3/4"	9-1/2"	2-1/2"	2
NGT18	23/32"	9-1/2"	2-1/2"	2
NGT19	13/16"	9-1/2"	2-1/2"	2
NGT20	27/32"	9-1/2"	2-1/2"	2
NGT21	7/8"	10"	2-5/8"	2
NGT22	29/32"	10"	2-5/8"	2
NGT23	15/16"	10"	2-5/8"	3
NGT24	31/32"	10"	2-5/8"	3
NGT25	1"	10-1/2"	2-3/4"	3
NGT26	1-1/16"	10-1/2"	2-3/4"	3
NGT27	1-1/8"	11"	2-7/8"	3
NGT28	1-3/16"	11"	2-7/8"	3
NGT29	1-1/4"	11-1/2"	3"	4
NGT30	1-5/16"	11-1/2"	3"	4
NGT31	1-3/8"	12"	3-1/4"	4
NGT32	1-7/16"	12"	3-1/4"	4
NGT33	1-1/2"	12-1/2"	3-1/2"	4



**Straight Shank Helical Flute Reamers R.H. or L.H. hss**  
**Rimas Zanco Recto Ranura Helicoidal Izquierda o Derecha a.v.**

<b>No.</b>	<b>SIZE</b>	<b>FLUTE LENGTH</b>	<b>O.A. LENGTH</b>
NGRH1/LH1	1/4"	1-1/2"	6"
NGRH2/LH2	17/64"	1-1/2"	6"
NHRH3/LH3	9/32"	1-1/2"	6"
NGRH4/LH4	19/64"	1-1/2"	6"
NGRH5/LH5	5/16"	1-1/2"	6"
NGRH6/LH6	21/64"	1-1/2"	6"
NGRH7/LH7	11/32"	1-1/2"	6"
NGRH8/LH8	23/64"	1-3/4"	7"
NGRH9/LH9	3/8"	1-3/4"	7"
NGRH10/LH10	25/64"	1-3/4"	7"
NGRH11/LH11	13/32"	1-3/4"	7"
NGRH12/LH12	27/64"	1-3/4"	7"
NGRH13/LH13	7/16"	1-3/4"	7"
NGRH14/LH14	29/64"	1-3/4"	7"
NGRH15/LH15	15/32"	1-3/4"	7"
NGRH16/LH16	31/64"	2"	8"
NGRH17/LH17	1/2"	2"	8"
NGRH18/LH18	17/32"	2"	8"
NGRH19/LH19	9/16"	2"	8"
NGRH20/LH20	19/32"	2"	8"
NGRH21/LH21	5/8"	2-1/4"	9"
NGRH22/LH22	21/32"	2-1/4"	9"
NGRH23/LH23	11/16"	2-1/4"	9"
NGRH24/LH24	23/32"	2-1/4"	9"
NGRH25/LH25	3/4"	2-1/2"	9-1/2"
NGRH26/LH26	25/32"	2-1/2"	9-1/2"
NGRH27/LH27	13/16"	2-1/2"	9-1/2"
NGRH28/LH28	27/32"	2-1/2"	9-1/2"
NGRH29/LH29	7/8"	2-5/8"	10"
NGRH30/LH30	29/32"	2-5/8"	10"
NGRH31/LH31	15/16"	2-5/8"	10"
NGRH32/LH32	31/32"	2-5/8"	10"
NGRH33/LH33	1"	2-3/4"	10-1/2"
NGRH34/LH34	1-1/16"	2-3/4"	10-1/2"
NGRH35/LH35	1-1/8"	2-7/8"	11"
NGRH36/LH36	1-3/16"	2-7/8"	11"
NGRH37/LH37	1-1/4"	3"	11-1/2"
NGRH38/LH38	1-5/16"	3"	11-1/2"
NGRH39/LH39	1-3/8"	3-1/4"	12"
NGRH40/LH40	1-7/16"	3-1/4"	12"
NGRH41/LH41	1-1/2"	3-1/2"	12-1/2"



**Straight Shank Straight Flute Chucking Reamers hss**  
**Rimas Zanco Recto Ranura Recta a.v.**

No.	SIZE	O.A. LENGTH	FLUTE LENGTH
NGCHUCK1	1/4"	6"	1-1/2"
NGCHUCK2	17/64"	6"	1-1/2"
NGCHUCK3	9/32"	6"	1-1/2"
NGCHUCK4	19/64"	6"	1-1/2"
NGCHUCK5	5/16"	6"	1-1/2"
NGCHUCK6	21/64"	6"	1-1/2"
NGCHUCK7	11/32"	6"	1-1/2"
NGCHUCK8	23/64"	7"	1-3/4"
NGCHUCK9	3/8"	7"	1-3/4"
NGCHUCK10	25/64"	7"	1-3/4"
NGCHUCK11	13/32"	7"	1-3/4"
NGCHUCK12	27/64"	7"	1-3/4"
NGCHUCK13	7/16"	7"	1-3/4"
NGCHUCK14	29/64"	7"	1-3/4"
NGCHUCK15	15/32"	7"	1-3/4"
NGCHUCK16	31/64"	8"	2"
NGCHUCK17	1/2"	8"	2"
NGCHUCK18	17/32"	8"	2"
NGCHUCK19	9/16"	8"	2"
NGCHUCK20	19/32"	8"	2"
NGCHUCK21	5/8"	9"	2-1/4"
NGCHUCK22	21/32"	9"	2-1/4"
NGCHUCK23	11/16"	9"	2-1/4"
NGCHUCK24	23/32"	9"	2-1/4"
NGCHUCK25	3/4"	9-1/2"	2-1/2"
NGCHUCK26	25/32"	9-1/2"	2-1/2"
NGCHUCK27	13/16"	9-1/2"	2-1/2"
NGCHUCK28	27/32"	9-1/2"	2-1/2"
NGCHUCK29	7/8"	10"	2-5/8"
NGCHUCK30	29/32"	10"	2-5/8"
NGCHUCK31	15/16"	10"	2-5/8"
NGCHUCK31	31/32"	10"	2-5/8"
NGCHUCK32	1"	10-1/2"	2-3/4"
NGCHUCK33	1-1/16"	10-1/2"	2-3/4"
NGCHUCK34	1-1/8"	11"	2-7/8"
NGCHUCK35	1-3/16"	11"	2-7/8"
NGCHUCK36	1-1/4"	11-1/2"	3"
NGCHUCK37	1-3/8"	12"	3-1/4"
NGCHUCK38	1-1/2"	12-1/2"	3-1/2"



## RIMA ENSAMBLADA

Straight Shank Straight Flute Chucking Reamers hss  
Rimas Zanco Recto Ranura Recta a.v.

No.	SIZE	O.A. LENGTH	FLUTE LENGTH
NGCHUCKE21	5/8"	9"	2-1/4"
NGCHUCKE22	21/32"	9"	2-1/4"
NGCHUCKE23	11/16"	9"	2-1/4"
NGCHUCKE24	23/32"	9"	2-1/4"
NGCHUCKE25	3/4"	9-1/2"	2-1/2"
NGCHUCKE26	25/32"	9-1/2"	2-1/2"
NGCHUCKE27	13/16"	9-1/2"	2-1/2"
NGCHUCKE28	27/32"	9-1/2"	2-1/2"
NGCHUCKE29	7/8"	10"	2-5/8"
NGCHUCKE30	29/32"	10"	2-5/8"
NGCHUCKE31	15/16"	10"	2-5/8"
NGCHUCKE31	31/32"	10"	2-5/8"
NGCHUCKE32	1"	10-1/2"	2-3/4"
NGCHUCKE33	1-1/16"	10-1/2"	2-3/4"
NGCHUCKE34	1-1/8"	11"	2-7/8"
NGCHUCKE35	1-3/16"	11"	2-7/8"
NGCHUCKE36	1-1/4"	11-1/2"	3"
NGCHUCKE37	1-3/8"	12"	3-1/4"
NGCHUCKE38	1-1/2"	12-1/2"	3-1/2"



**Taper Shank Car Reamers Helical or Straight Flute hss**  
**Rimas Zanco Conico Tipo Car Ranura Recta o Helicoidal a.v.**

<b>No.</b>	<b>FULL DIAMETER INCHES</b>	<b>DIAMETER AT POINT INCHES</b>	<b>LENGTH OF FLUTE INCHES</b>	<b>LENGTH OVERALL INCHES</b>	<b>SHANK TAPER</b>
NGCAR1	1/4"	5/32"	2-1/2"	5-7/16"	1
NGCAR2	9/32"	11/64"	2-1/2"	5-7/16"	1
NGCAR3	5/16"	3/16"	2-3/4"	5-11/16"	1
NGCAR4	11/32"	13/64"	2-3/4"	5-11/16"	1
NGCAR5	3/8"	7/32"	2-3/4"	5-11/16"	1
NGCAR6	13/32"	15/64"	2-3/4"	6-3/16"	2
NGCAR7	7/16"	1/4"	3-1/2"	6-15/16"	2
NGCAR8	15/32"	1/4"	3-1/2"	7-1/16"	2
NGCAR9	1/2"	1/4"	4"	7-9/16"	2
NGCAR10	17/32"	9/32"	4"	7-9/16"	2
NGCAR11	9/16"	5/16"	4"	7-9/16"	2
NGCAR12	5/8"	11/32"	4-1/2"	8-1/16"	2
NGCAR13	11/16"	3/8"	4-1/2"	8-13/16"	3
NGCAR14	3/4"	13/32"	5"	9-1/2"	3
NGCAR15	13/16"	7/16"	5"	9-1/2"	3
NGCAR16	7/8"	15/32"	5"	9-1/2"	3
NGCAR17	15/16"	1/2"	5"	9-1/2"	3
NGCAR18	1"	1/2"	5"	9-1/2"	3
NGCAR19	1-1/16"	17/32"	5"	9-1/2"	3
NGCAR20	1-1/8"	11/16"	5"	9-1/2"	3
NGCAR21	1-3/16"	3/4"	5"	9-1/2"	3
NGCAR22	1-1/4"	13/16"	5"	9-1/2"	3



**Taper Bridge Reamers With Taper Shank Helical or Straight Flute hss**  
**Rimas Zanco Conico Tipo Bridge Ranura Recta o Helicoidal a.v.**

No.	FULL DIAMETER INCHES	DIAMETER AT POINT INCHES	LENGTH OF FLUTE INCHES	LENGTH OVERALL INCHES	SHANK TAPER
NGBRID1	13/32"	15/64"	4-3/8"	8-1/4"	2
NGBRID2	7/16"	17/64"	4-3/8"	8-1/4"	2
NGBRID3	15/32"	17/64"	5-1/8"	9"	2
NGBRID4	1/2"	5/16"	5-1/8"	9"	2
NGBRID5	17/32"	21/64"	5-1/8"	9"	2
NGBRID6	9/16"	3/8"	5-1/8"	9"	2
NGBRID7	5/8"	25/64"	6-1/8"	10"	2
NGBRID8	11/16"	13/32"	7-1/8"	11-3/4"	3
NGBRID9	3/4"	15/32"	7-3/8"	12"	3
NGBRID10	25/32"	1/2"	7-3/8"	12"	3
NGBRID11	13/16"	35/64"	7-3/8"	12"	3
NGBRID12	7/8"	39/64"	7-3/8"	12"	3
NGBRID13	29/32"	41/64"	7-3/8"	12"	3
NGBRID14	15/16"	43/64"	7-3/8"	12"	3
NGBRID15	1"	47/64"	7-3/8"	12"	3
NGBRID16	1-1/32"	49/64"	7-3/8"	12"	3
NGBRID17	1-1/16"	13/16"	7-3/8"	12"	3
NGBRID18	1-1/8"	55/64"	7-3/8"	12"	3
NGBRID19	1-3/16"	59/64"	7-3/8"	12"	3
NGBRID20	1-1/4"	63/64"	7-3/8"	13"	4
NGBRID21	1-5/16"	1-1/16"	7-3/8"	13"	4
NGBRID22	1-3/8"	1-1/8"	7-3/8"	13"	4
NGBRID23	1-7/16"	1-3/16"	7-3/8"	13"	4
NGBRID24	1-1/2"	1-1/4"	7-3/8"	13"	4



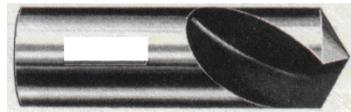
**Taper Pipe Reamers Helical or Straight Flute hss**  
**Rimas Tipo NPT Ranura Helicoidal o Recta a.v.**

No.	SIZE	DIAM. LG. END	DIA. SM. END	FLUTE LENGTH	SHANK DIA.	SIZE OF SQUARE	O.A. LENGTH
NGNPT1	1/8"	0.362	0.316	3/4"	0.4375	0.328	2-1/8"
NGNPT2	1/4"	0.472	0.406	1-1/16"	0.5625	0.421	2-7/16"
NGNPT3	3/8"	0.606	0.540	1-1/16"	0.700	0.531	2-9/16"
NGNPT4	1/2"	0.751	0.665	1-3/8"	0.6875	0.515	3-1/8"
NGNPT5	3/4"	0.962	0.876	1-3/8"	0.9063	0.679	3-1/4"
NGNPT6	1"	1.212	1.103	1-3/4"	1.125	0.843	3-3/4"
NGNPT7	1-1/4"	1.553	1.444	1-3/4"	1.3125	0.984	4"
NGNPT8	1-1/2"	1.793	1.684	1-3/4"	1.5	1.125	4-1/4"
NGNPT9	2"	2.268	2.159	1-3/4"	1.875	1.406	4-1/2"
NGNPT10	2-1/2"	2.717	2.561	2-1/2"	2	1.485	5"
NGNPT11	3"	3.339	3.183	2-1/2"	2.5	1.855	5"
NGNPT12	3-1/2"	3.843	3.679	2-5/8"	2.75	2.04	5-1/2"
NGNPT13	4"	4.338	4.174	2-5/8"	3	2.225	5-1/2"



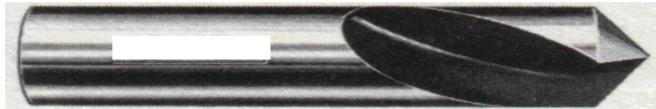
**Left Hand Drills hss**  
**Brocas Izquierdas a.v.**

No.	SIZE	FLUTE LENGTH	OVERALL LENGTH
NGLH1	1/4"	3-3/4"	6-1/8"
NGLH2	5/16"	4"	6-3/8"
NGLH3	3/8"	4-1/4"	6-3/4"
NGLH4	7/16"	4-5/8"	7-1/4"
NGLH5	1/2"	4-3/4"	7-3/4"
NGLH6	9/16"	4-7/8"	8-1/4"
NGLH7	5/8"	4-7/8"	8-3/4"
NGLH8	3/4"	5-7/8"	9-3/4"
NGLH9	7/8"	6-1/8"	10"
NGLH10	1"	6-3/8"	11"



**Spotting And Centering Drills hss**  
**Brocas Tipo Spotting a.v.**

No.	SIZE	FLUTE LENGTH	OVERALL LENGTH
NGSPOT1	3/8"	1"	2"
NGSPOT2	1/2"	1"	2"
NGSPOT3	5/8"	1-1/8"	2-1/4"
NGSPOT4	3/4"	1-1/8"	2-1/4"
NGSPOT5	1"	1-1/4"	2-1/2"



**Spotting Drills 90° or 120° hss**  
**Brocas Tipo Spotting Largas a.v.**

No.	SIZE	FLUTE LENGTH	OVERALL LENGTH
NGSPL1	1/4"	3/4"	2-1/2"
NGSPL2	1/4"	3/4"	4"
NGSPL3	3/8"	1-1/8"	3-1/8"
NGSLP4	3/8"	1-1/8"	5"
NGSLP5	1/2"	1-3/8"	3-3/4"
NGSLP6	1/2"	1-3/8"	6"
NGSLP7	5/8"	1-5/8"	4-3/8"
NGSLP8	5/8"	1-5/8"	7"
NGSPL9	3/4"	1-7/8"	5"
NGSPL10	3/4"	1-7/8"	8"
NGSPL11	1"	1-7/8"	6"
NGSPL12	1"	2-1/4"	8"



**1/2" Straight Shank Drills hss**  
**Brocas de Zanco Reducido de 1/2" a.v.**

No.	SIZE	FLUTE LENGTH	OVERALL LENGTH
NG1/2"1	1/2"	3-1/8"	6"
NG1/2"2	17/32"	3-1/8"	6"
NG1/2"3	9/16"	3-1/8"	6"
NG1/2"4	19/32"	3-1/8"	6"
NG1/2"5	5/8"	3-1/8"	6"
NG1/2"6	21/32"	3-1/8"	6"
NG1/2"7	11/16"	3-1/8"	6"
NG1/2"8	23/32"	3-1/8"	6"
NG1/2"9	3/4"	3-1/8"	6"
NG1/2"10	25/32"	3"	6"
NG1/2"11	13/16"	3"	6"
NG1/2"12	27/32"	3"	6"
NG1/2"13	7/8"	3"	6"
NG1/2"14	29/32"	3"	6"
NG1/2"15	15/16"	3"	6"
NG1/2"16	31/32"	3"	6"
NG1/2"17	1"	3"	6"
NG1/2"18	1-1/16"	3"	6"
NG1/2"19	1-1/8"	3"	6"
NG1/2"20	1-3/16"	3"	6"
NG1/2"21	1-1/4"	3"	6"



**1/4" Shanks Short Length Drills hss**  
**Brocas de Zanco Reducido de 1/4" Corta a.v.**

No.	SIZE	FLUTE LENGTH	OVERALL LENGTH
NG1/4"1	1/4"	1-3/8"	2-1/2"
NG1/4"2	9/32"	1-1/4"	2-11/16"
NG1/4"3	5/16"	1-3/8"	2-13/16"
NG1/4"4	11/32"	1-9/16"	3"
NG1/4"5	3/8"	1-11/16"	3-1/8"
NG1/4"6	13/32"	1-7/8"	3-5/16"
NG1/4"7	7/16"	2"	3-7/16"
NG1/4"8	15/32"	2-1/8"	3-5/8"
NG1/4"9	1/2"	2-1/4"	3-3/4"



**Core Drills hss**  
**Brocas Tipo Core a.v.**

<b>No.</b>	<b>SIZE</b>	<b>FLUTE LENGTH</b>	<b>OVERALL LENGTH</b>
NGCORE1	1/4"	3-3/4"	6-1/8"
NGCORE2	9/32"	3-7/8"	6-1/4"
NGCORE3	5/16"	4"	6-3/8"
NGCORE4	11/32"	4-1/8"	6-1/2"
NGCORE5	3/8"	4-1/4"	6-3/4"
NGCORE6	13/32"	4-3/8"	7"
NGCORE7	7/16"	4-5/8"	7-1/4"
NGCORE8	15/32"	4-3/4"	7-1/2"
NGCORE9	1/2"	4-3/4"	7-3/4"
NGCORE10	17/32"	4-3/4"	8"
NGCORE11	9/16"	4-7/8"	8-1/4"
NGCORE12	19/32"	4-7/8"	8-3/4"
NGCORE13	5/8"	4-7/8"	8-3/4"
NGCORE14	21/32"	5-1/8"	9"
NGCORE15	11/16"	5-3/8"	9-1/4"
NGCORE16	23/32"	5-5/8"	9-1/2"
NGCORE17	3/4"	5-7/8"	9-3/4"
NGCORE18	25/32"	6"	9-7/8"
NGCORE19	13/16"	6-1/8"	10"
NGCORE20	27/32"	6-1/8"	10"
NGCORE21	7/8"	6-1/8"	10"
NGCORE22	29/32"	6-1/8"	10"
NGCORE23	15/16"	6-1/8"	10-3/4"
NGCORE24	31/32"	6-3/8"	11"
NGCORE25	1"	6-3/8"	11"



**Taper Sank Core Drills hss**  
**Brocas Zanco Conico Tipo Core a.v.**

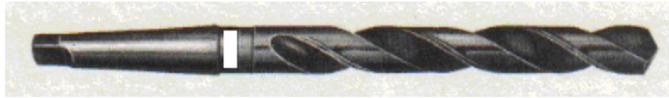
<b>No.</b>	<b>SIZE</b>	<b>FLUTE LENGTH</b>	<b>OVERALL LENGTH</b>	<b>T.S. NUMBER</b>
NGCORET1	1/2"	4-3/8"	8-1/4"	2
NGCORET2	17/32"	4-5/8"	8-1/2"	2
NGCORET3	9/16"	4-7/8"	8-3/4"	2
NGCORET4	19/32"	4-7/8"	8-3/4"	2
NGCORET5	5/8"	4-7/8"	8-3/4"	2
NGCORET6	21/32"	5-1/8"	9"	2
NGCORET7	11/16"	5-3/8"	9-1/4"	2
NGCORET8	23/32"	5-5/8"	9-1/2"	2
NGCORET9	3/4"	5-7/8"	9-3/4"	2
NGCORET10	25/32"	6"	9-7/8"	2
NGCORET11	13/16"	6-1/8"	10-3/4"	3
NGCORET12	27/32"	6-1/8"	10-3/4"	3
NGCORET13	7/8"	6-1/8"	10-3/4"	3
NGCORET14	29/32"	6-1/8"	10-3/4"	3
NGCORET15	15/16"	6-1/8"	10-3/4"	3
NGCORET16	31/32"	6-3/8"	11"	3



**Taper Shank Drills hss**  
**Brocas Zanco Conico a.v.**

No.	SIZE	T.S. NUMBER	O.A. LENGTH	FLUTE LENGTH
NGTAP1	1/4"	1	6-1/8"	2-7/8"
NGTAP2	17/64"	1	6-1/4"	3"
NGTAP3	9/32"	1	6-1/4"	3"
NGTAP4	19/64"	1	6-3/8"	3-1/8"
NGTAP5	5/16"	1	6-3/8"	3-1/8"
NGTAP6	21/64"	1	6-1/2"	3-1/4"
NGTAP7	11/32"	1	6-1/2"	3-1/4"
NGTAP8	23/64"	1	6-3/4"	3-1/2"
NGTAP9	3/8"	1	6-3/4"	3-1/2"
NGTAP10	25/64"	1	7"	3-5/8"
NGTAP11	13/32"	1	7"	3-5/8"
NGTAP12	27/64"	1	7-1/4"	3-7/8"
NGTAP13	7/16"	1	7-1/4"	3-7/8"
NGTAP14	29/64"	1	7-1/2"	4-1/8"
NGTAP15	15/32"	1	7-1/2"	4-1/8"
NGTAP16	31/64"	2	8-1/4"	4-3/8"
NGTAP17	1/2"	2	8-1/4"	4-3/8"
NGTAP18	33/64"	2	8-1/2"	4-5/8"
NGTAP19	17/32"	2	8-1/2"	4-5/8"
NGTAP20	35/64"	2	8-3/4"	4-7/8"
NGTAP21	9/16"	2	8-3/4"	4-7/8"
NGTAP22	37/64"	2	8-3/4"	4-7/8"
NGTAP23	19/32"	2	8-3/4"	4-7/8"
NGTAP24	39/64"	2	8-3/4"	4-7/8"
NGTAP25	5/8"	2	8-3/4"	4-7/8"
NGTAP26	41/64"	2	9"	5-1/8"
NGTAP27	21/32"	2	9"	5-1/8"
NGTAP28	43/64"	2	9-1/4"	5-3/8"
NGTAP29	11/16"	2	9-1/4"	5-3/8"
NGTAP30	45/64"	2	9-1/2"	5-5/8"
NGTAP31	23/32"	2	9-1/2"	5-5/8"
NGTAP32	47/64"	2	9-3/4"	5-7/8"
NGTAP33	3/4"	2	9-3/4"	5-7/8"
NGTAP34	49/64"	2	9-7/8"	6"
NGTAP35	25/32"	2	9-7/8"	6"
NGTAP36	51/64"	3	10-3/4"	6-1/8"

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**Taper Shank Drills hss**  
**Brocas Zanco Conico a.v.**

<b>No.</b>	<b>SIZE</b>	<b>T.S. NUMBER</b>	<b>O.A. LENGTH</b>	<b>FLUTE LENGTH</b>
NGTAP38	13/16"	3	10-3/4"	6-1/8"
NGTAP39	53/64"	3	10-3/4"	6-1/8"
NGTAP40	27/32"	3	10-3/4"	6-1/8"
NGTAP41	55/64"	3	10-3/4"	6-1/8"
NGTAP42	7/8"	3	10-3/4"	6-1/8"
NGTAP43	57/64"	3	10-3/4"	6-1/8"
NGTAP44	29/32"	3	10-3/4"	6-1/8"
NGTAP45	59/64"	3	10-3/4"	6-1/8"
NGTAP46	15/16"	3	10-3/4"	6-1/8"
NGTAP47	61/64"	3	11"	6-3/8"
NGTAP48	31/32"	3	11"	6-3/8"
NGTAP49	63/64"	3	11"	6-3/8"
NGTAP50	1"	3	11"	6-3/8"
NGTAP51	1-1/64"	3	11-1/8"	6-1/2"
NGTAP52	1-1/32"	3	11-1/8"	6-1/2"
NGTAP53	1-3/64"	3	11-1/4"	6-5/8"
NGTAP54	1-1/16"	3	11-1/4"	6-5/8"
NGTAP55	1-5/64"	4	12-1/2"	6-7/8"
NGTAP56	1-3/32"	4	12-1/2"	6-7/8"
NGTAP57	1-7/64"	4	12-3/4"	7-1/8"
NGTAP58	1-1/8"	4	12-3/4"	7-1/8"
NGTAP59	1-9/64"	4	12-7/8"	7-1/4"
NGTAP60	1-5/32"	4	12-7/8"	7-1/4"
NGTAP61	1-11/64"	4	13"	7-3/8"
NGTAP62	1-3/16"	4	13"	7-3/8"
NGTAP63	1-13/64"	4	13-1/8"	7-1/2"
NGTAP64	1-7/32"	4	13-1/8"	7-1/2"
NGTAP65	1-15/64"	4	13-1/8"	7-1/2"
NGTAP66	1-1/4"	4	13-1/8"	7-1/2"
NGTAP67	1-17/64"	4	14-1/8"	8-1/2"
NGTAP68	1-9/32"	4	14-1/8"	8-1/2"
NGTAP69	1-19/64"	4	14-1/4"	8-5/8"
NGTAP70	1-5/16"	4	14-1/4"	8-5/8"
NGTAP71	1-21/64"	4	14-3/8"	8-3/4"
NGTAP72	1-11/32"	4	14-3/8"	8-3/4"
NGTAP73	1-23/64"	4	14-1/2"	8-7/8"

Continua en la siguiente pagina:



**Taper Shank Drills hss**  
**Brocas Zanco Conico a.v.**

No.	SIZE	T.S. NUMBER	O.A. LENGTH	FLUTE LENGTH
NGTAP74	1-3/8"	4	14-1/2"	8-7/8"
NGTAP75	1-25/64"	4	14-5/8"	9"
NGTAP76	1-13/32"	4	14-5/8"	9"
NGTAP77	1-27/64"	4	14-3/4"	9-1/8"
NGTAP78	1-7/16"	4	14-3/4"	9-1/8"
NGTAP79	1-29/64"	4	14-7/8"	9-1/4"
NGTAP80	1-15/32"	4	14-7/8"	9-1/4"
NGTAP81	1-31/64"	4	15"	9-3/8"
NGTAP82	1-1/2"	4	15"	9-3/8"
NGTAP83	1-17/32"	5	16-5/8"	9-3/8"
NGTAP84	1-9/16"	5	16-5/8"	9-5/8"
NGTAP85	1-19/32"	5	16-7/8"	9-7/8"
NGTAP86	1-5/8"	5	17"	10"
NGTAP87	1-21/32"	5	17-1/8"	10-1/8"
NGTAP88	1-11/16"	5	17-1/8"	10-1/8"
NGTAP89	1-23/32"	5	17-1/8"	10-1/8"
NGTAP90	1-3/4"	5	17-1/8"	10-1/8"
NGTAP91	1-25/32"	5	17-1/8"	10-1/8"
NGTAP92	1-13-16"	5	17-1/8"	10-1/8"
NGTAP93	1-27/32"	5	17-1/8"	10-1/8"
NGTAP94	1-7/8"	5	17-3/8"	10-3/8"
NGTAP95	1-29/32"	5	17-3/8"	10-3/8"
NGTAP96	1-15/16"	5	17-3/8"	10-3/8"
NGTAP97	1-31/32"	5	17-3/8"	10-3/8"
NGTAP98	2"	5	17-3/8"	10-3/8"
NGTAP99	2-1/32"	5	17-3/8"	10-3/8"
NGTAP100	2-1/16"	5	17-3/8"	10-1/4"
NGTAP101	2-3/32"	5	17-3/8"	10-1/4"
NGTAP102	2-1/8"	5	17-3/8"	10-1/4"
NGTAP103	2-25/32"	5	17-3/8"	10-1/4"
NGTAP104	2-3/16"	5	17-3/8"	10-1/4"
NGTAP105	2-7/32"	5	17-3/8"	10-1/8"
NGTAP106	2-1/4"	5	17-3/8"	10-1/8"
NGTAP107	2-5/16"	5	17-3/8"	10-1/8"
NGTAP108	2-3/8"	5	17-3/8"	10-1/8"
NGTAP109	2-7/16"	5	18-3/4"	11-1/4"
NGTAP110	2-1/2"	5	18-3/4"	11-1/4"
NGTAP111	2-9/16"	5	19-1/2"	11-7/8"
NGTAP112	2-5/8"	5	19-1/2"	11-7/8"
NGTAP113	2-11/16"	5	20-3/8"	12-3/4"
NGTAP114	2-3/4"	5	20-3/8"	12-3/4"
NGTAP115	2-13/16"	5	21-1/8"	13-3/8"
NGTAP116	2-7/8"	5	21-1/8"	13-3/8"
NGTAP117	2-15/16"	5	21-3/4"	14"
NGTAP118	3"	5	21-3/4"	14"
NGTAP119	3-1/8"	6	24-1/2"	14-5/8"
NGTAP120	3-1/4"	6	25-1/2"	15-1/2"



**Taper Shank Drills hss**  
**Shanks Smaller Than Regular**  
**Brocas Zanco Conico a.v.**  
**Zanco Pequeño de lo Regular**

No.	SIZE	T.S. NUMBER	O.A. LENGTH	FLUTE LENGTH
NGSMA1	31/64"	1	7-3/4"	4-3/8"
NGSMA2	1/2"	1	7-3/4"	4-3/8"
NGSMA3	33/64"	1	8"	4-5/8"
NGSMA4	17/32"	1	8"	4-5/8"
NGSMA5	35/64"	1	8-1/4"	4-7/8"
NGSMA6	9/16"	1	8-1/4"	4-7/8"
NGSMA7	51/64"	2	10"	6-1/8"
NGSMA8	13/16"	2	10"	6-1/8"
NGSMA9	53/64"	2	10"	6-1/8"
NGSMA10	27/32"	2	10"	6-1/8"
NGSMA11	55/64"	2	10"	6-1/8"
NGSMA12	7/8"	2	10"	6-1/8"
NGSMA13	57/64"	2	10"	6-1/8"
NGSMA14	29/32"	2	10"	6-1/8"
NGSMA15	1-5/64"	3	11-1/2"	6-7/8"
NGSMA16	1-3/32"	3	11-1/2"	6-7/8"
NGSMA17	1-7/64"	3	11-3/4"	7-1/8"
NGSMA18	1-1/8"	3	11-3/4"	7-1/8"
NGSMA19	1-9/64"	3	11-7/8"	7-1/4"
NGSMA20	1-5/32"	3	11-7/8"	7-1/4"
NGSMA21	1-11/64"	3	12"	7-3/8"
NGSMA22	1-3/16"	3	12"	7-3/8"
NGSMA23	1-13/64"	3	12-1/8"	7-1/2"
NGSMA24	1-7/32"	3	12-1/8"	7-1/2"
NGSMA25	1-15/64"	3	12-1/2"	7-7/8"
NGSMA26	1-1/4"	3	12-1/2"	7-7/8"
NGSMA27	1-33/64"	4	15"	9-3/8"
NGSMA28	1-17/32"	4	15"	9-3/8"
NGSMA29	1-35/64"	4	15-1/4"	9-5/8"
NGSMA30	1-9/16"	4	15-1/4"	9-5/8"
NGSMA31	1-37/64"	4	15-1/2"	9-7/8"
NGSMA32	1-19/32"	4	15-1/2"	9-7/8"
NGSMA33	1-39/64"	4	15-5/8"	10"
NGSMA34	1-5/8"	4	15-5/8"	10"
NGSMA35	1-41/64"	4	15-3/4"	10-1/8"
NGSMA36	1-21/32"	4	15-3/4"	10-1/8"



**Taper Shank Drills hss**  
**Shanks Large Than Regular**  
**Brocas Zanco Conico a.v.**  
**Zanco Largo de lo Regular**

No.	SIZE	T.S. NUMBER	O.A. LENGTH	FLUTE LENGTH
NGLAR1	3/8"	2	7-3/8"	3-1/2"
NGLAR2	25/64"	2	7-1/2"	3-5/8"
NGLAR3	13/32"	2	7-1/2"	3-5/8"
NGLAR4	27/64"	2	7-3/4"	3-7/8"
NGLAR5	7/16"	2	7-3/4"	3-7/8"
NGLAR6	29/64"	2	8"	4-1/8"
NGLAR7	15/32"	2	8"	4-1/8"
NGLAR8	41/64"	3	9-3/4"	5-1/8"
NGLAR9	21/32"	3	9-3/4"	5-1/8"
NGLAR10	43/64"	3	10"	5-3/8"
NGLAR11	11/16"	3	10"	5-3/8"
NGLAR12	45/64"	3	10-1/4"	5-5/8"
NGLAR13	23/32"	3	10-1/4"	5-5/8"
NGLAR14	47/64"	3	10-1/2"	5-7/8"
NGLAR15	3/4"	3	10-1/2"	5-7/8"
NGLAR16	49/64"	3	10-5/8"	6"
NGLAR17	25/32"	3	10-5/8"	6"
NGLAR18	1"	4	12"	6-3/8"
NGLAR19	1-1/32"	4	12-1/8"	6-1/2"
NGLAR20	1-1/16"	4	12-1/4"	6-5/8"



**Straight Shank Single End Mills hss**  
**Cortador Vertical 4 Ranuras a.v.**

<b>No.</b>	<b>SIZE</b>	<b>DIA. OF SHANK</b>	<b>LENGTH OF CUT</b>	<b>O.A. LENGTH</b>
NGMILL1	1/8"	3/8"	3/8"	2-5/16"
NGMILL2	3/16"	3/8"	1/2"	2-3/8"
NGMILL3	1/4"	3/8"	5/8"	2-7/16"
NGMILL4	5/16"	3/8"	3/4"	2-1/2"
NGMILL5	3/8"	3/8"	3/4"	2-1/2"
NGMILL6	7/16"	3/8"	1"	2-11/16"
NGMILL7	1/2"	3/8"	1"	2-11/16"
NGMILL8	1/2"	1/2"	1-1/4"	3-1/4"
NGMILL9	9/16"	1/2"	1-3/8"	3-3/8"
NGMILL10	5/8"	1/2"	1-3/8"	3-3/8"
NGMILL11	5/8"	5/8"	1-5/8"	3-3/4"
NGMILL12	11/16"	1/2"	1-5/8"	3-5/8"
NGMILL13	11/16"	5/8"	1-5/8"	3-3/4"
NGMILL14	3/4"	1/2"	1-5/8"	3-5/8"
NGMILL15	3/4"	5/8"	1-5/8"	3-3/4"
NGMILL16	3/4"	3/4"	1-5/8"	3-7/8"
NGMILL17	13/16"	5/8"	1-7/8"	4"
NGMILL18	13/16"	3/4"	1-7/8"	4-1/8"
NGMILL19	7/8"	5/8"	1-7/8"	4"
NGMILL20	7/8"	7/8"	1-7/8"	4-1/8"
NGMILL21	7/8"	3/4"	1-7/8"	4-1/8"
NGMILL22	15/16"	5/8"	1-7/8"	4"
NGMILL23	15/16"	7/8"	1-7/8"	4-1/8"
NGMILL24	15/16"	3/4"	1-7/8"	4-1/8"
NGMILL25	1"	5/8"	1-7/8"	4"
NGMILL26	1"	3/4"	1-7/8"	4-1/8"
NGMILL27	1"	7/8"	1-7/8"	4-1/8"
NGMILL28	1"	1"	2"	4-1/2"
NGMILL29	1-1/8"	7/8"	2"	4-1/4"
NGMILL30	1-1/8"	1"	2"	4-1/2"
NGMILL31	1-1/4"	7/8"	2"	4-1/4"
NGMILL32	1-1/4"	1"	2"	4-1/2"
NGMILL33	1-1/4"	1-1/4"	2"	4-1/2"
NGMILL34	1-3/8"	1"	2"	4-1/2"
NGMILL35	1-1/2"	1"	2"	4-1/2"
NGMILL36	1-1/2"	1-1/4"	2"	4-1/2"
NGMILL37	1-5/8"	1-1/4"	2"	4-1/2"
NGMILL38	1-3/4"	1-1/4"	2"	4-1/2"
NGMILL39	1-7/8"	1-1/4"	2"	4-1/2"
NGMILL40	2"	1-1/4"	2"	4-1/2"



**Double-End Mills hss**

**Cortador Vertical 4 Ranuras Dos Puntas a.v.**

No.	SIZE	DIA. OF SHANK	LENGTH OF CUT	O.A. LENGTH
NGD1	1/8"	3/8"	3/8"	3-1/16"
NGD2	5/32"	3/8"	7/16"	3-1/8"
NGD3	3/16"	3/8"	1/2"	3-1/4"
NGD4	7/32"	3/8"	9/16"	3-1/4"
NGD5	1/4"	3/8"	5/8"	3-3/8"
NGD6	9/32"	3/8"	11/16"	3-3/8"
NGD7	5/16"	3/8"	3/4"	3-1/2"
NGD8	11/32"	3/8"	3/4"	3-1/2"
NGD9	3/8"	3/8"	3/4"	3-1/2"
NGD10	13/32"	1/2"	1"	4-1/8"
NGD11	7/16"	1/2"	1"	4-1/8"
NGD12	15/32"	1/2"	1"	4-1/8"
NGD13	1/2"	1/2"	1"	4-1/8"
NGD14	9/16"	5/8"	1-3/8"	5"
NGD15	5/8"	5/8"	1-3/8"	5"
NGD16	11/16"	3/4"	1-5/8"	5-5/8"
NGD17	3/4"	3/4"	1-5/8"	5-5/8"
NGD18	13/16"	7/8"	1-7/8"	6-1/8"
NGD19	7/8"	7/8"	1-7/8"	6-1/8"
NGD20	1"	1"	1-7/8"	6-3/8"



**Straight Shank Long Single End Mill hss**

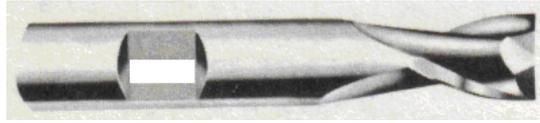
**Cortador Vertical 4 Ranuras Largo a.v.**

No.	SIZE	DIA. OF SHANK	LENGTH OF CUT	O.A. LENGTH
NGL1	3/16"	3/8"	1-1/4"	3-1/16"
NGL2	1/4"	3/8"	1-1/4"	3-1/16"
NGL3	5/16"	3/8"	1-3/8"	3-1/8"
NGL4	3/8"	3/8"	1-1/2"	3-1/4"
NGL5	7/16"	1/2"	1-3/4"	3-3/4"
NGL6	1/2"	1/2"	2"	4"
NGL7	5/8"	5/8"	2-1/2"	4-5/8"
NGL8	3/4"	3/4"	3"	5-1/4"
NGL9	7/8"	7/8"	3-1/2"	5-3/4"
NGL10	1"	1"	4"	6-1/2"
NGL11	1-1/8"	1"	4"	6-1/2"
NGL12	1-1/4"	1"	4"	6-1/2"
NGL13	1-1/4"	1-1/4"	4"	6-1/2"
NGL14	1-3/8"	1"	4"	6-1/2"
NGL15	1-1/2"	1"	4"	6-1/2"
NGL16	1-1/2"	1-1/4"	4"	6-1/2"
NGL17	1-3/4"	1-1/4"	4"	6-1/2"
NG318	2"	1-1/4"	4"	6-1/2"



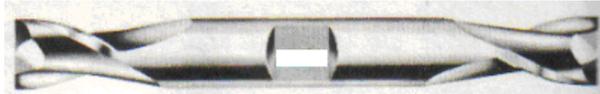
**Straight Shank Extra Long Single End Mill hss**  
**Cortador Vertical 4 Ranuras Extra Largo a.v.**

<b>No.</b>	<b>SIZE</b>	<b>DIA. OF SHANK</b>	<b>LENGTH OF CUT</b>	<b>O.A. LENGTH</b>
NGXL1	3/16"	3/8"	1-3/4"	3-9/16"
NGXL2	1/4"	3/8"	1-3/4"	3-9/16"
NGXL3	5/16"	3/8"	2"	3-3/4"
NGXL4	3/8"	3/8"	2-1/2"	4-1/4"
NGXL5	1/2"	1/2"	3"	5"
NGXL6	5/8"	5/8"	4"	6-1/8"
NGXL7	3/4"	3/4"	4"	6-1/4"
NGXL8	7/8"	7/8"	5"	7-1/4"
NGXL9	1"	1"	6"	8-1/2"
NGXL10	1-1/4"	1-1/4"	6"	8-1/2"
NGXL11	1-1/2"	1-1/4"	8"	10-1/2"



**Straight Shank Two Flute Single End Mills hss**  
**Cortador Vertical 2 Ranuras a.v.**

<b>No.</b>	<b>SIZE</b>	<b>DIA. OF SHANK</b>	<b>LENGTH OF CUT</b>	<b>O.A. LENGTH</b>
NG2R1	1/8"	3/8"	3/8"	2-5/16"
NG2R2	3/16"	3/8"	7/16"	2-5/16"
NG2R3	1/4"	3/8"	1/2"	2-5/16"
NG2R4	5/16"	3/8"	9/16"	2-5/16"
NG2R5	3/8"	3/8"	9/16"	2-5/16"
NG2R6	7/16"	3/8"	13/16"	2-1/2"
NG2R7	1/2"	3/8"	13/16"	2-1/2"
NG2R8	1/2"	1/2"	1"	3"
NG2R9	9/16"	1/2"	1-1/8"	3-1/8"
NG2R10	5/8"	1/2"	1-1/8"	4-1/8"
NG2R11	5/8"	5/8"	1-5/16"	3-7/16"
NG2R12	11/16"	1/2"	1-5/16"	3-7/16"
NG2R13	11/16"	5/8"	1-5/16"	3-7/16"
NG2R14	3/4"	1/2"	1-5/16"	3-7/16"
NG2R15	3/4"	5/8"	1-5/16"	3-7/16"
NG2R16	3/4"	3/4"	1-5/16"	3-9/16"
NG2R17	13/16"	5/8"	1-1/2"	3-5/8"
NG2R18	13/16"	3/4"	1-1/2"	3-3/4"
NG2R19	7/8"	5/8"	1-1/2"	3-3/4"
NG2R20	7/8"	7/8"	1-1/2"	3-3/4"
NG2R21	7/8"	3/4"	1-1/2"	3-3/4"
NG2R22	15/16"	5/8"	1-1/2"	3-3/4"
NG2R23	15/16"	7/8"	1-1/2"	3-3/4"
NG2R24	15/16"	3/4"	1-1/2"	3-3/4"
NG2R25	1"	5/8"	1-1/2"	3-3/4"
NG2R26	1"	3/4"	1-1/2"	3-3/4"
NG2R27	1"	7/8"	1-1/2"	3-3/4"
NG2R28	1"	1"	1-5/8"	4-1/8"
NG2R29	1-1/8"	7/8"	1-5/8"	4-1/8"
NG2R30	1-1/8"	1"	1-5/8"	4-1/8"
NG2R31	1-1/4"	7/8"	1-5/8"	4-1/8"
NG2R32	1-1/4"	1"	1-5/8"	4-1/8"
NG2R33	1-1/4"	1-1/4"	1-5/8"	4-1/8"
NG2R34	1-3/8"	1"	1-5/8"	4-1/8"
NG2R35	1-1/2"	1"	1-5/8"	4-1/8"
NG2R36	1-1/2"	1-1/4"	1-5/8"	4-1/8"
NG2R37	1-5/8"	1-1/4"	1-5/8"	4-1/8"
NG2R38	1-3/4"	1-1/4"	1-5/8"	4-1/8"
NG2R39	1-7/8"	1-1/4"	1-5/8"	4-1/8"
NG2R40	2"	1-1/4"	1-5/8"	4-1/8"



**Straight Shank Two Flute Single End Mills hss**  
**Cortador Vertical 2 Ranuras a.v.**

No.	SIZE	DIA. OF SHANK	LENGTH OF CUT	O.A. LENGTH
NG2P1	1/8"	3/8"	3/8"	3-1/16"
NG2P2	5/32"	3/8"	7/16"	3-1/8"
NG2P3	3/16"	3/8"	7/16"	3-1/8"
NG2P4	7/32"	3/8"	1/2"	3-1/8"
NG2P5	1/4"	3/8"	1/2"	3-1/8"
NG2P6	9/32"	3/8"	9/16"	3-1/8"
NG2P7	5/16"	3/8"	9/16"	3-1/8"
NG2P8	11/32"	3/8"	9/16"	3-1/8"
NG2P9	3/8"	3/8"	9/16"	3-1/8"
NG2P10	13/32"	1/2"	13/16"	3-3/4"
NG2P11	7/16"	1/2"	13/16"	3-3/4"
NG2P12	15/32"	1/2"	13/16"	3-3/4"
NG2P13	1/2"	1/2"	13/16"	3-3/4"
NG2P14	9/16"	5/8"	1-1/8"	4-1/2"
NG2P15	5/8"	5/8"	1-1/8"	4-1/2"
NG2P16	11/16"	3/4"	1-5/16"	5"
NG2P17	3/4"	3/4"	1-5/16"	5"
NG2P18	7/8"	7/8"	1-9/16"	5-1/2"
NG2P19	1"	1"	1-5/8"	5-7/8"



**Straight Shank Two Flute Ball End End Mills hss**  
**Cortador Vertical 2 Ranuras Punta de Bola a.v.**

No.	SIZE	DIA. OF SHANK	LENGTH OF CUT	O.A. LENGTH
NGBOL1	1/8"	3/8"	3/8"	2-5/16"
NGBOL2	3/16"	3/8"	1/2"	2-3/8"
NGBOL3	1/4"	3/8"	5/8"	2-7/16"
NGBOL4	5/16"	3/8"	3/4"	2-1/2"
NGBOL5	3/8"	3/8"	3/4"	2-1/2"
NGBOL6	7/16"	1/2"	1"	3"
NGBOL7	1/2"	1/2"	1"	3"
NGBOL8	9/16"	1/2"	1-1/8"	3-1/8"
NGBOL9	5/8"	1/2"	1-1/8"	3-1/8"
NGBOL10	5/8"	5/8"	3-3/8"	3-1/2"
NGBOL11	3/4"	1/2"	1-5/16"	3-5/16"
NGBOL12	3/4"	3/4"	1-5/8"	3-7/8"
NGBOL13	7/8"	7/8"	2"	4-1/4"
NGBOL14	1"	1"	2-1/4"	4-3/4"
NGBOL15	1-1/8"	1"	2-1/4"	4-3/4"
NGBOL16	1-1/4"	1-1/4"	2-1/2"	5"
NGBOL17	1-1/2"	1-1/4"	2-1/2"	5"



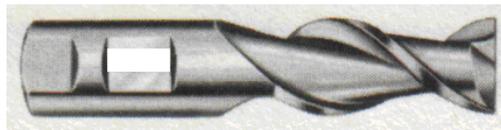
**Straight Shank Four Flute Ball End Mills hss**  
**Cortador Vertical 4 Ranuras Punta de Bola a.v.**

No.	SIZE	DIA. OF SHANK	LENGTH OF CUT
NG4B1	3/8"	3/8"	3/4"
NG4B2	1/2"	1/2"	1-1/4"
NG4B3	5/8"	5/8"	1-5/8"
NG4B4	3/4"	3/4"	1-5/8"
NG4B5	7/8"	7/8"	1-7/8"
NG4B6	1"	1"	2"
NG4B7	1-1/4"	1-1/4"	2"
NG4B8	1-1/2"	1-1/2"	2"



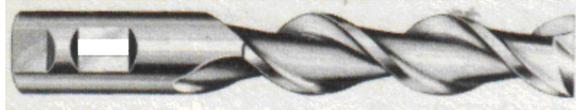
**Straight Shank Four Flute Ball Long End Mills hss**  
**Cortador Vertical 4 Ranuras Punta de Bola Largo a.v.**

No.	SIZE	DIA. OF SHANK	LENGTH OF CUT	O.A. LENGTH
NG4BL1	1/2"	1/2"	2"	4"
NG4BL2	5/8"	5/8"	2-1/2"	4-5/8"
NG4BL3	3/4"	3/4"	3"	5-1/4"
NG4BL4	1"	1"	4"	6-1/2"



**Two Flute Single End Fastlead End Mills hss**  
**Cortador Vertical 2 Ranuras , Helice rapida a.v.**

No.	SIZE	DIA. OF SHANK	LENGTH OF CUT	O.A. LENGTH
NGF1	1/4"	3/8"	5/8"	2-7/16"
NGF2	5/16"	3/8"	3/4"	2-1/2"
NGF3	3/8"	3/8"	3/4"	2-1/2"
NGF4	7/16"	3/8"	1"	2-11/16"
NGF5	1/2"	1/2"	1-1/4"	3-1/4"
NGF6	5/8"	5/8"	1-5/8"	3-3/4"
NGF7	3/4"	3/4"	1-5/8"	3-7/8"
NGF8	7/8"	7/8"	1-7/8"	4-1/8"
NGF9	1"	1"	2"	4-1/2"
NGF10	1-1/4"	1-1/4"	2"	4-1/2"
NGF11	1-1/2"	1-1/4"	2"	4-1/2"
NGF12	2	1-1/4"	2"	4-1/2"



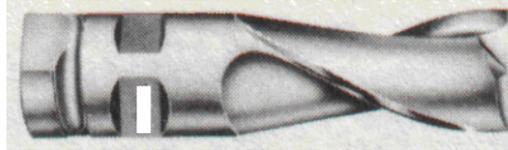
**Long Two Flute Single End Fastlead End Mills hss**  
**Cortador Vertical 2 Ranuras Largo , Helice rapida a.v.**

No.	SIZE	DIA. OF SHANK	LENGTH OF CUT	O.A. LENGTH
NGLF1	1/4"	3/8"	1-1/4"	3-1/16"
NGLF2	5/16"	3/8"	1-3/8"	3-1/8"
NGLF3	3/8"	3/8"	1-1/2"	3-1/4"
NGLF4	7/16"	3/8"	1-3/4"	3-3/4"
NGLF5	1/2"	1/2"	2"	4"
NGLF6	5/8"	5/8"	2-1/2"	4-5/8"
NGLF7	3/4"	3/4"	3"	5-1/4"
NGLF8	1"	1"	4"	6-1/2"
NGLF9	1-1/4"	1-1/4"	4"	6-1/2"
NGLF10	1-1/2"	1-1/4"	4"	6-1/2"
NGLF11	2	1-1/4"	4"	6-1/2"



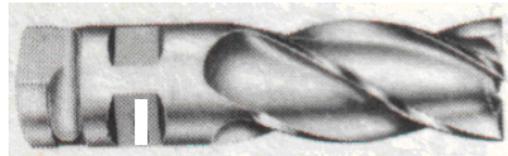
**Extra Long Two Flute Single End Fastlead End Mills hss**  
**Cortador Vertical 2 Ranuras Extra Largo , Helice rapida a.v.**

No.	SIZE	DIA. OF SHANK	LENGTH OF CUT	O.A. LENGTH
NGXLF1	1/4"	3/8"	1-3/4"	3-9/16"
NGXLF2	5/16"	3/8"	2"	3-3/4"
NGXLF3	3/8"	3/8"	2-1/2"	4-1/4"
NGXLF4	1/2"	1/2"	3"	5"
NGXLF5	5/8"	5/8"	4"	6-1/8"
NGXLF6	3/4"	3/4"	4"	6-1/4"
NGXLF7	1"	1"	6"	8-1/2"
NGXLF8	1-1/4"	1-1/4"	6"	8-1/2"
NGXLF9	1-1/2"	1-1/4"	8"	10-1/2"



**Straight Shank Heavy Duty End Mills Two Flute hss**  
**Cortador Vertical 2 Ranuras Trabajo Pesado a.v.**

No.	SIZE	LENGTH OF CUT	O.A. LENGTH
NGHD1	2"	3"	6-1/2"
NGHD2	2"	4"	7-1/2"
NGHD3	2"	6"	9-1/2"
NGHD4	2-1/2"	4"	7-1/8"
NGHD5	2-1/2"	6"	9-1/8"



**Straight Shank Heavy Duty End Mills Four Flute hss**  
**Cortador Vertical 4 Ranuras Trabajo Pesado a.v.**

No.	SIZE	LENGTH OF CUT	O.A. LENGTH
NGHD41	2"	3"	6-1/2"
NGHD42	2"	4"	7-1/2"
NGHD43	2"	6"	9-1/2"
NGHD44	2-1/2"	4"	7-1/8"
NGHD45	2-1/2"	6"	9-1/8"



**Straight Shank Heavy Duty End Mills Six Flute hss**  
**Cortador Vertical 6 Ranuras Trabajo Pesado a.v.**

No.	SIZE	LENGTH OF CUT	O.A. LENGTH
NGHD61	2"	3"	6-1/2"
NGHD62	2"	4"	7-1/2"
NGHD63	2"	6"	9-1/2"
NGHD64	2"	8"	11-1/2"
NGHD65	2-1/2"	4"	7-1/8"
NGHD66	2-1/2"	6"	9-1/8"
NGHD67	2-1/2"	8"	11-1/8"



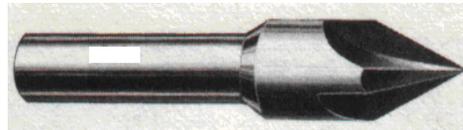
**Straight Shank Heavy Duty Ball End Mills TwoFlute hss**  
**Cortador Vertical Punta de Bola 2 Ranuras Trabajo Pesado a.v.**

No.	SIZE	LENGTH OF CUT	O.A. LENGTH
NGB21	2"	5"	8-1/2"



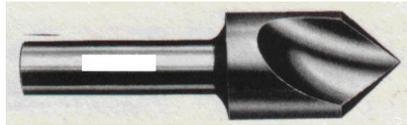
**Straight Shank Heavy Duty Ball End Mills SixFlute hss**  
**Cortador Vertical Punta de Bola 6 Ranuras Trabajo Pesado a.v.**

No.	SIZE	LENGTH OF CUT	O.A. LENGTH
NGB61	2"	4"	7-1/2"
NGB62	2"	6"	9-1/2"
NGB63	2"	8"	11-1/2"



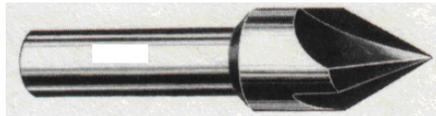
**Three Flute Center Reamers or Countersinks hss**  
**60° , 82° , 90° , 100° , 110° and 120° Angle**  
**Avellanadores 3 Ranuras a 60° , 82° , 90° , 100° , 110° y 120° a.v.**

No.	BODY DIA.	SHANK DIA.	O.A. LENGTH
NGC1	1/4"	3/16"	1-1/2"
NGC2	3/8"	1/4"	1-3/4"
NGC3	1/2"	1/4"	2"
NGC4	1/2"	3/8"	2"
NGC5	5/8"	3/8"	2-1/4"
NGC6	3/4"	1/2"	2-5/8"
NGC7	1"	1/2"	2-3/4"
NGC8	1-1/4"	5/8"	3"
NGC9	1-1/2"	3/4"	3"
NGC10	2"	3/4"	3-1/4"



**Single Flute Countersinks 60°, 82° y 90° hss**  
**Avellanadores 1 Ranura a 60°, 82° y 90° a.v.**

No.	BODY DIA.	SHANK DIA.	O.A. LENGTH
NGC11	1/4"	3/16"	1-7/16"
NGC12	3/8"	1/4"	1-21/32"
NGC13	1/2"	1/4"	1-27/32"
NGC14	3/4"	3/8"	2-13/32"
NGC15	1"	1/2"	2-13/16"



**Straight Shank Machine Countersinks Long 60° and 82° hss**  
**Avellanador Largo a 60° y 82° a.v.**

No.	SIZE CUT	O.A. LENGTH
NGLO1	1/2"	3-7/8"
NGLO2	5/8"	4"
NGLO3	3/4"	4-1/8"
NGLO4	7/8"	4-1/4"
NGLO5	1"	4-3/8"



**Straight Shank Counterbores hss**  
**Brocas para Tornillo Allen a.v.**

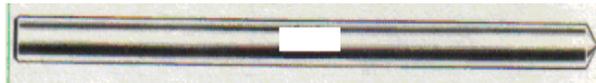
No.	NOM. PILOT DIA.	NOM. CUT DIA.	SHANK DIA.	O.A. LENGTH
NGALL1	1/4"	3/8"	3/8"	3-3/4"
NGALL2	5/16"	7/16"	7/16"	4-5/16"
NGALL3	3/8"	9/16"	1/2"	4"
NGALL4	7/16"	5/8"	1/2"	5-1/2"
NGALL5	1/2"	3/4"	1/2"	4"
NGALL6	9/16"	13/16"	3/4"	4"
NGALL7	5/8"	7/8"	3/4"	5-1/4"
NGALL7	3/4"	1"	1"	7"

**FOR USS CAP SCREW**



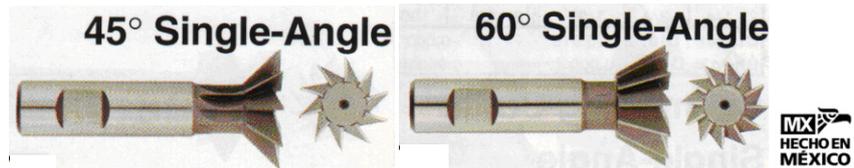
**Lathe Centers 60° hss**  
**Centros para torneado 60° a.v.**

No.	T.S. NUMBER	O.A. LENGTH	SHANK DEPTH
NGLC2	1	3-5/8"	2-7/16"
NGCL3	2	4-9/16"	2-15/16"
NGCL4	3	5-3/4"	3-11/16"
NGCL5	4	7-5/16"	5-5/8"
NGCL6	5	9-3/16"	5-7/8"



**Round Tool Bit , Gorton hss**  
**Buril Tipo Gorton a.v.**

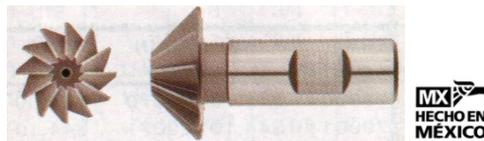
No.	DIA.	O.A. LENGTH
NGBG1	1/4"	4"
NGBG2	1/4"	6"
NGBG3	5/16"	4"
NGBG4	5/16"	6"
NGBG5	3/8"	4"
NGBG6	3/8"	6"
NGBG7	7/16"	4"
NGBG8	7/16"	6"
NGBG9	1/2"	4"
NGBG10	1/2"	6"
NGBG11	9/16"	4"
NGBG12	9/16"	6"
NGBG13	5/8"	4"
NGBG14	5/8"	6"
NGBG15	3/4"	4"
NGBG16	3/4"	6"
NGBG17	7/8"	4"
NGBG18	7/8"	6"
NGBG19	1"	4"
NGBG20	1"	6"



**Dovetail Cutter 45° and 60° hss**  
**Cortador Cola de Milano a 45° y 60° a.v.**

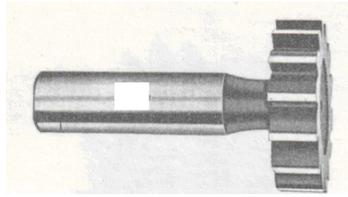
No.	SIZE	DIA. OF SHANK	FACE WIDTH	O.A. LENGTH	ANGLE
NGDC1	1/2"	3/8"	1/8"	2-1/8"	45°
NGDC2	3/4"	3/8"	3/16"	2-1/8"	45°
NGDC3	1-3/8"	5/8"	3/8"	2-7/8"	45°
NGDC4	1-3/8"	1/2"	3/8"	2-7/8"	45°
NGDC5	1-7/8"	7/8"	1/2"	3-1/4"	45°
NGDC6	2-1/4"	1"	11/16"	3-3/4"	45°
NGDC7	2-1/2"	1"	3/4"	3-3/4"	45°

No.	SIZE	DIA. OF SHANK	FACE WIDTH	O.A. LENGTH	ANGLE
NGDC11	3/8"	3/8"	3/16"	2-1/8"	60°
NGDC12	1/2"	3/8"	7/32"	2-1/8"	60°
NGDC13	3/4"	3/8"	5/16"	2-1/8"	60°
NGDC14	1-3/8"	5/8"	9/16"	2-7/8"	60°
NGDC15	1-3/8"	1/2"	9/16"	2-7/8"	60°
NGDC16	1-7/8"	7/8"	13/16"	3-1/4"	60°
NGDC17	2-1/4"	1"	1-1/16"	3-3/4"	60°
NGDC18	2-1/2"	1"	1-1/8"	3-1/4"	60°



**Chamfering Cutter Single Angle hss**  
**Cortador para Chaflan a.v.**

No.	SIZE	DIA. OF SHANK	FACE WIDTH	O.A. LENGTH	ANGLE
NGW1	1/2"	3/8"	1/8"	2-1/8"	45°
NGW2	3/4"	3/8"	3/16"	2-1/8"	45°
NGW3	1"	1/2"	5/16"	2-1/2"	45°
NGW4	1-1/2"	3/4"	1/2"	2-3/4"	45°
NGW5	1/2"	3/8"	7/32"	2-1/8"	60°
NGW6	3/4"	3/8"	5/16"	2-1/8"	60°
NGW7	1"	1/2"	7/16"	2-1/2"	60°
NGW8	1-1/2"	3/4"	5/8"	2-3/4"	60°



**Woodruff Cutter hss**  
**Cortador tipo Woodruff a.v.**

No.	DIA.	WIDTH	O.A. LENGTH	No.	DIA.	WIDTH	O.A. LENGTH
NGWOO1	1/4"	1/16"	2-1/16"	NGWOO21	7/8"	1/4"	2-1/4"
NGWOO2	5/16"	1/16"	2-1/16"	NGWOO22	1"	3/16"	2-3/16"
NGWOO3	5/16"	3/32"	2-3/32"	NGWOO23	1"	7/32"	2-3/16"
NGWOO4	3/8"	1/16"	2-1/16"	NGWOO24	1"	3/8"	2-3/8"
NGWOO5	3/8"	3/32"	2-3/32"	NGWOO25	1"	1/4"	2-1/4"
NGWOO6	3/8"	1/8"	2-1/8"	NGWOO26	1"	5/16"	2-5/16"
NGWOO7	1/2"	1/16"	2-1/16"	NGWOO27	1-1/8"	3/16"	2-3/16"
NGWOO8	1/2"	3/32"	2-3/32"	NGWOO28	1-1/8"	7/32"	2-3/16"
NGWOO9	1/2"	1/8"	2-1/4"	NGWOO29	1-1/8"	1/4"	2-1/4"
NGWOO10	5/8"	3/32"	2-3/32"	NGWOO30	1-1/8"	5/16"	2-5/16"
NGWOO11	5/8"	1/8"	2-1/4"	NGWOO31	1-1/4"	3/16"	2-3/16"
NGWOO12	5/8"	5/32"	2-5/32"	NGWOO32	1-1/4"	7/32"	2-3/16"
NGWOO13	5/8"	3/16"	2-3/16"	NGWOO33	1-1/4"	1/4"	2-1/4"
NGWOO14	3/4"	1/8"	2-1/8"	NGWOO34	1-1/4"	5/16"	2-5/16"
NGWOO15	3/4"	5/32"	2-5/32"	NGWOO35	1-1/4"	3/8"	2-3/8"
NGWOO16	3/4"	1/4"	2-1/4"	NGWOO36	1-3/8"	1/4"	2-1/4"
NGWOO17	3/4"	3/16"	2-3/16"	NGWOO37	1-3/8"	5/16"	2-5/16"
NGWOO18	7/8"	5/32"	2-5/32"	NGWOO38	1-3/8"	3/8"	2-3/8"
NGWOO19	7/8"	3/16"	2-3/16"	NGWOO39	1-1/2"	1/4"	2-1/4"
NGWOO20	7/8"	7/32"	2-3/16"	NGWOO40	1-1/2"	5/16"	2-5/16"
				NGWOO41	1-1/2"	3/8"	2-3/8"



**Convex Cutter hss**

**Cortador Circular Convexo a.v.**

No.	CIRCLE DIA.	CONVEX RADIUS	DIA.	ARBOR HOLE
NGCON1	1/8"	1/16"	2-1/4"	1"
NGCON2	3/16"	3/32"	2-1/4"	1"
NGCON3	1/4"	1/8"	2-1/2"	1"
NGCON4	5/16"	5/32"	2-3/4"	1"
NGCON5	3/8"	3/16"	2-3/4"	1"
NGCON6	7/16"	7/32"	3"	1"
NGCON7	1/2"	1/4"	3"	1"
NGCON8	5/8"	5/16"	3-1/2"	1-1/4"
NGCON9	3/4"	3/8"	3-3/4"	1-1/4"
NGCON10	7/8"	7/16"	4"	1-1/4"
NGCON11	1"	1/2"	4-1/2"	1-1/4"
NGCON12	1-1/8"	9/16"	4-1/4"	1-1/4"
NGCON13	1-1/4"	5/8"	4-1/2"	1-1/4"
NGCON14	1-3/8"	11/16"	4-3/4"	1-1/4"
NGCON15	1-1/2"	3/4"	5"	1-1/4"



**Concave Cutter hss**

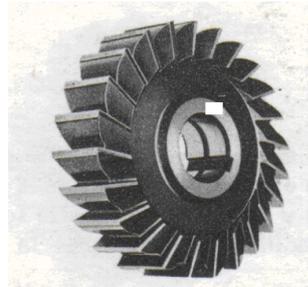
**Cortador Circular Concavo a.v.**

No.	CIRCLE DIA.	CONCAVE RADIUS	DIA.	ARBOR HOLE
NGCONCA1	1/8"	1/16"	2-1/4"	1"
NGCONCA2	3/16"	3/32"	2-1/4"	1"
NGCONCA3	1/4"	1/8"	2-1/2"	1"
NGCONCA4	5/16"	5/32"	2-3/4"	1"
NGCONCA5	3/8"	3/16"	2-3/4"	1"
NGCONCA6	7/16"	7/32"	3"	1"
NGCONCA7	1/2"	1/4"	3"	1"
NGCONCA8	5/8"	5/16"	3-1/2"	1-1/4"
NGCONCA9	3/4"	3/8"	3-3/4"	1-1/4"
NGCONCA10	7/8"	7/16"	4"	1-1/4"
NGCONCA11	1"	1/2"	4-1/2"	1-1/4"
NGCONCA12	1-1/8"	9/16"	4-1/4"	1-1/4"
NGCONCA13	1-1/4"	5/8"	4-1/2"	1-1/4"
NGCONCA14	1-3/8"	11/16"	4-3/4"	1-1/4"
NGCONCA15	1-1/2"	3/4"	5"	1-1/4"



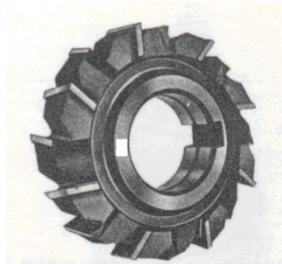
**Plain Milling Cutter hss**  
**Cortador Circular Plano a.v.**

<b>No.</b>	<b>DIA.</b>	<b>WIDTH</b>	<b>ARBOR HOLE</b>
NGCP1	2-1/2"	1/4"	1"
NGCP2	2-1/2"	5/16"	1"
NGCP3	2-1/2"	3/8"	1"
NGCP4	2-1/2"	1/2"	1"
NGCP5	2-1/2"	5/8"	1"
NGCP6	2-1/2"	3/4"	1"
NGCP7	2-1/2"	1"	1"
NGCP8	2-1/2"	1-1/2"	1"
NGCP9	2-1/2"	2"	1"
NGCP10	2-1/2"	2-1/2"	1"
NGCP11	2-1/2"	3"	1"
NGCP12	3"	1/4"	1"
NGCP13	3"	5/16"	1"
NGCP14	3"	3/8"	1"
NGCP15	3"	3/8"	1-1/4"
NGCP16	3"	1/2"	1-1/4"
NGCP17	3"	5/8"	1-1/4"
NGCP18	3"	3/4"	1-1/4"
NGCP19	3"	1"	1-1/4"
NGCP20	3"	1-1/4"	1-1/4"
NGCP21	3"	1-1/2"	1-1/4"
NGCP22	3"	2"	1-1/4"
NGCP23	3"	3"	1-1/4"
NGCP24	4"	1/4"	1-1/4"
NGCP25	4"	5/16"	1-1/4"
NGCP26	4"	3/8"	1-1/4"
NGCP27	4"	1/2"	1-1/4"
NGCP28	4"	5/8"	1-1/4"
NGCP29	4"	3/4"	1-1/4"
NGCP30	4"	1"	1-1/4"
NGCP31	4"	1-1/2"	1-1/4"
NGCP32	4"	2"	1-1/4"
NGCP33	4"	3"	1-1/4"
NGCP34	4"	4"	1-1/4"



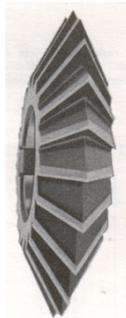
**Straight Tooth Milling Cutter hss**  
**Cortador Circular a Tres Cortes Rectos a.v**

<b>No.</b>	<b>DIA.</b>	<b>WIDTH</b>	<b>ARBOR HOLE</b>
NGTC1	2"	1/4"	5/8"
NGTC2	2"	3/8"	5/8"
NGTC3	2-1/2"	1/4"	7/8"
NGTC4	2-1/2"	5/16"	7/8"
NGTC5	2-1/2"	3/8"	7/8"
NGTC6	2-1/2"	1/2"	7/8"
NGTC7	3"	1/4"	1"
NGTC8	3"	5/16"	1"
NGTC9	3"	3/8"	1"
NGTC10	3"	7/16"	1"
NGTC11	3"	1/2"	1"
NGTC12	4"	1/4"	1"
NGTC13	4"	3/8"	1"
NGTC14	4"	1/2"	1"
NGTC15	4"	1/2"	1-1/4"
NGTC16	4"	5/8"	1"
NGTC17	4"	5/8"	1-1/4"
NGTC18	4"	3/4"	1"
NGTC19	4"	3/4"	1-1/4"
NGTC20	4"	7/8"	1"
NGTC21	4"	7/8"	1-1/4"



**Staggered Tooth Milling Cutter hss**  
**Cortador Circular Alterno a.v**

No.	DIA.	WIDTH	ARBOR HOLE
NGALT1	2-1/2"	1/4"	7/8"
NGALT2	2-1/2"	5/16"	7/8"
NGALT3	2-1/2"	3/8"	7/8"
NGALT4	2-1/2"	1/2"	7/8"
NGALT5	3"	1/4"	1"
NGALT6	3"	5/16"	1"
NGALT7	3"	3/8"	1"
NGALT8	3"	1/2"	1-1/4"
NGALT9	3"	5/8"	1-1/4"
NGALT10	3"	3/4"	1-1/4"
NGALT11	4"	1/4"	1-1/4"
NGALT12	4"	5/16"	1-1/4"
NGALT13	4"	3/8"	1-1/4"
NGALT14	4"	7/16"	1-1/4"
NGALT15	4"	1/2"	1-1/4"
NGALT16	4"	5/8"	1-1/4"
NGALT17	4"	3/4"	1-1/4"
NGALT18	4"	7/8"	1-1/4"



**Double Angle Milling Cutter 45° , 60° and 90°hss**  
**Cortador Angular Doble a 45° , 60° y 90° a.v**

No.	DIA.	WIDTH	ARBOR HOLE	INCL. ANGLE
NGDANG1	2-3/4"	1/2"	1"	45°
NGDANG2	2-3/4"	1/2"	1"	60°
NGDANG3	2-3/4"	1/2"	1"	90°
NGDANG4	4"	1/2"	1-1/4"	60°
NGDANG5	4"	1/2"	1-1/4"	90°
NGDANG6	4"	3/4"	1-1/4"	60°
NGDANG7	4"	3/4"	1-1/4"	90°
NGDANG8	4"	1"	1-1/4"	60°
NGDANG9	4"	1"	1-1/4"	90°



Right Hand Single Angle Cutter 45° and 60°hss  
 Left Hand Single Angle Cutter 45° and 60°hss  
**Cortador Angular Izquiero o Derecho a 45° y 60° a.v**

No.	DIA.	WIDTH	ARBOR HOLE	INCL. ANGLE
NGANG1	2-3/4"	1/2"	1"	45°
NGANG2	2-3/4"	1/2"	1"	60°
NGANG3	3"	1/2"	1-1/4"	45°
NGANG4	3"	1/2"	1-1/4"	60°
NGANG5	4"	1/2"	1-1/4"	45°
NGANG6	4"	1/2"	1-1/4"	60°
NGANG7	4"	3/4"	1-1/4"	45°
NGANG8	4"	3/4"	1-1/4"	60°
NGANG9	4"	1"	1-1/4"	45°
NGANG10	4"	1"	1-1/4"	60°



Shell End Mill 45° hss  
**Cortador Circular de Rodillo 45° a.v.**

No.	DIA.	WIDTH	ARBOR HOLE
NGSHELL1	2-1/2"	2"	1"
NGSHELL2	2-1/2"	4"	1"
NGSHELL3	3"	2"	1-1/4"
NGSHELL4	3"	2-1/2"	1-1/4"
NGSHELL5	3"	3"	1-1/4"
NGSHELL6	3"	4"	1-1/4"
NGSHELL7	3"	6"	1-1/4"
NGSHELL8	4"	2"	1-1/2"
NGSHELL9	4"	3"	1-1/2"
NGSHELL10	4"	4"	1-1/2"
NGSHELL11	4"	6"	1-1/2"



**Straight Shank Straight Flute Chucking Reamers hss**  
**Rimas Zanco Recto Ranura Recta a.v.**

No.	SIZE	O.A. LENGTH
NGRMM1	6mm	6"
NGRMM2	7mm	6"
NGRMM3	8mm	6"
NGRMM4	9mm	7"
NGRMM5	10mm	7"
NGRMM6	11mm	7"
NGRMM7	12mm	8"
NGRMM8	13mm	8"
NGRMM9	14mm	8"
NGRMM10	15mm	8"
NGRMM11	16mm	9"
NGRMM12	17mm	9"
NGRMM13	18mm	9"
NGRMM14	19mm	9-1/2"
NGRMM15	20mm	9-1/2"
NGRMM16	21mm	9-1/2"
NGRMM17	22mm	10"
NGRMM18	23mm	10"
NGRMM19	24mm	10"
NGRMM20	25mm	10-1/2"



**1/2" Straight Shank Drills hss**  
**Brocas de Zanco Reducido de 1/2" a.v.**

No.	SIZE	O.A. LENGTH
NG1/2"MM1	14mm	6"
NG1/2"MM2	15mm	6"
NG1/2"MM3	16mm	6"
NG1/2"MM4	17mm	6"
NG1/2"MM5	18mm	6"
NG1/2"MM6	19mm	6"
NG1/2"MM7	20mm	6"
NG1/2"MM8	21mm	6"
NG1/2"MM9	22mm	6"
NG1/2"MM10	23mm	6"
NG1/2"MM11	24mm	6"
NG1/2"MM12	25mm	6"



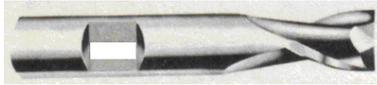
**Straight Shank Single End Mills hss**  
**Cortador Vertical 4 Ranuras a.v.**

No.	SIZE	DIA. OF SHANK
NGEMM1	6mm	3/8"
NGEMM2	7mm	3/8"
NGEMM3	8mm	3/8"
NGEMM4	9mm	3/8"
NGEMM5	10mm	3/8"
NGEMM6	11mm	3/8"
NGEMM7	12mm	3/8"
NGEMM8	13mm	1/2"
NGEMM9	14mm	1/2"
NGEMM10	15mm	1/2"
NGEMM11	16mm	5/8"
NGEMM12	17mm	5/8"
NGEMM13	18mm	5/8"
NGEMM14	19mm	5/8"
NGEMM15	20mm	5/8"
NGEMM16	21mm	3/4"
NGEMM17	22mm	3/4"
NGEMM18	23mm	3/4"
NGEMM19	24mm	3/4"
NGEMM20	25mm	1"



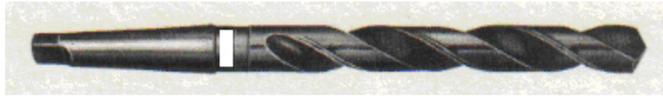
**Straight Shank Two Flute Ball End End Mills hss**  
**Cortador Vertical 2 Ranuras Punta de Bola a.v.**

No.	SIZE	DIA. OF SHANK
NGBMM1	6mm	3/8"
NGBMM2	7mm	3/8"
NGBMM3	8mm	3/8"
NGBMM4	9mm	3/8"
NGBMM5	10mm	3/8"
NGBMM6	11mm	3/8"
NGBMM7	12mm	3/8"
NGBMM8	13mm	1/2"
NGBMM9	14mm	1/2"
NGBMM10	15mm	1/2"
NGBMM11	16mm	5/8"
NGBMM12	17mm	5/8"
NGBMM13	18mm	5/8"
NGBMM14	19mm	5/8"
NGBMM15	20mm	5/8"
NGBMM16	21mm	3/4"
NGBMM17	22mm	3/4"
NGBMM18	23mm	3/4"
NGBMM19	24mm	3/4"
NGBMM20	25mm	1"



**Straight Shank Two Flute Single End Mills hss**  
**Cortador Vertical 2 Ranuras a.v.**

<b>No.</b>	<b>SIZE</b>	<b>DIA. OF SHANK</b>
NG2MM1	6mm	3/8"
NG2MM2	7mm	3/8"
NG2MM3	8mm	3/8"
NG2MM4	9mm	3/8"
NG2MM5	10mm	3/8"
NG2MM6	11mm	3/8"
NG2MM7	12mm	3/8"
NG2MM8	13mm	1/2"
NG2MM9	14mm	1/2"
NG2MM10	15mm	1/2"
NG2MM11	16mm	5/8"
NG2MM12	17mm	5/8"
NG2MM13	18mm	5/8"
NG2MM14	19mm	5/8"
NG2MM15	20mm	5/8"
NG2MM16	21mm	3/4"
NG2MM17	22mm	3/4"
NG2MM18	23mm	3/4"
NG2MM13	24mm	3/4"
NG2MM14	25mm	1"



**Taper Shank Drills hss**  
**Brocas Zanco Conico a.v.**

<b>No.</b>	<b>SIZE</b>	<b>T.S. NUMBER</b>
NGTAP38	10mm	1
NGTAP39	11mm	1
NGTAO40	12mm	1
NGTAP41	13mm	1
NGTAP42	14mm	1
NGTAP43	15mm	2
NGTAP44	16mm	2
NGTAP45	17mm	2
NGTAP46	18mm	2
NGTAP47	19mm	2
NGTAP48	20mm	2
NGTAP49	21mm	2
NGTAP50	22mm	2
NGTAP51	23mm	2
NGTAP52	24mm	3
NGTAP53	25mm	3
NGTAP54	26mm	3
NGTAP55	27mm	3
NGTAP56	28mm	3
NGTAP57	29mm	3
NGTAP58	30mm	3

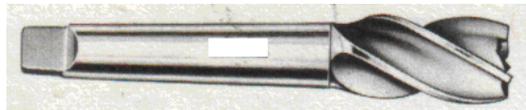
## OTROS PRODUCTOS QUE FABRICAMOS SOBRE PEDIDO:



**Straight Shank Taper Drills hss**  
**Brocas Zanco Recto a.v.**



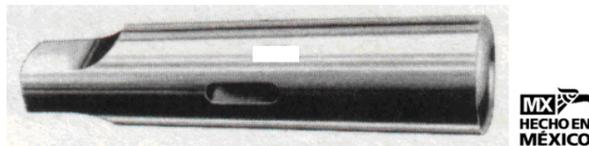
**Straight Shank Taper Length Drills hss**  
**Brocas Zanco Recto con Lengüeta a.v.**



**Brown & Sharpe Taper Shank Spiral Flute End Mills hss**  
**Cortador Zanco Conico Brown & Sharpe 4 Ranuras a.v.**



**Straight Shank Long Two Flute Single End Mills hss**  
**Cortador Vertical 2 Ranuras Largo a.v.**



**Fitted Steel Sockets For Taper Shank Tools**  
**Sockets para Cono Morse**



**Construction Reamers hss**  
**Rima Tipo Construction a.v.**



**Taper Shank Construction Reamers hss**  
**Rimas Tipo Construction Zanco Conico a.v.**



**Hand Reamers, Spiral Flute, Extra Long hss**  
**Rimas de Mano en Espiral, Extra Larga a.v.**



**Straight Shank Machine Bits For Wood hss**  
**Brocas Para Madera a.v.**



**Step Drills hss**  
**Brocas Escalonadas a.v.**



**Sub-Land or Multi-Cut Drills hss**  
**Brocas Tipo Sub-land a.v.**



**Screw and Pipe Extractors**  
**Extractores para Tornillos**



**Drill Check Arbors**  
**Arboles para Broqueros**

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50% RESTANTE CONTRA ENTREGA**

**\*ENVIO GRATIS EN COMPRAS ARRIBA DE \$1,000.00 M.N.**

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TAMBIEN PUEDE SER FABRICADA EN MILIMETROS O ZANCO  
FRACCIONAL Y CUERPO MILIMETRICO**

**\*LAS MEDIDAS QUE SE MUESTRAN EN CORTADORES  
CIRCULARES SON LAS MAS ESTANDAR PARA CUALQUIER  
OTRA MEDIDAD QUE NO SE ENCUENTRE EN LISTA FAVOR  
DE COMUNICARSE PARA COTIZACION**

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**E.mail: NEWGENERATION\_2@yahoo.com  
NGTOOLS@gmail.com**

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DE NUESTRA PRODUCCION**

**\*TODAS NUESTRAS HERRAMIENTAS DE CORTE SON 100%  
ACERO DE ALTA VELOCIDAD (A.V.) (M-2 HSS)  
NINGUNA ESTA SOLDADA COMO LA COMPETENCIA  
(\*SOLO RIMAS ENSAMBLADAS)**

**\*TODOS LOS PRODUCTOS TAMBIEN PUEDEN SER  
VENDIDOS POR JUEGOS FAVOR DE SOLICITAR COTIZACION**

**\*HERRAMIENTAS 100% HECHA EN MEXICO**

