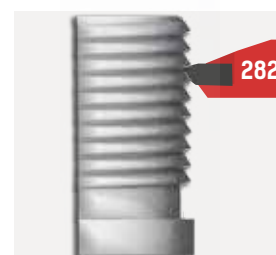

**PROGRAMA DE FABRICACIÓN**
**HERRAMIENTAS PARA TORNO SOLDADAS DE METAL DURO**

NORMA	DESCRIPCIÓN
DIN 4971 - ISO 1	Herramienta de torneado
DIN 4972 - ISO 2	Herramienta de torneado 45°
DIN 4978 - ISO 3	Herramienta de acabado
DIN 4976 - ISO 4	Herramienta para ataque frontal
DIN 4977 - ISO 5	Herramienta desplazada para frontales
DIN 4980 - ISO 6	Herramienta para torneado y refrentado
DIN 4981 - ISO 7	Herramienta de ranurar y tronzar
DIN 4973 - ISO 8	Herramienta de torneado interior
DIN 4974 - ISO 9	Herramienta de torneado interior
DIN 4975 - ISO 10	Herramienta de torno para acabados

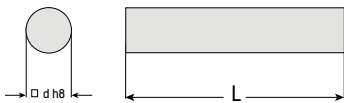


DIN 282 - ISO 352	Herramienta para roscado exterior
DIN 283 - ISO 353	Herramienta para roscado interior
DIN 263 - ISO 354	Herramienta para ranurar interior

# COVENTRY 2016

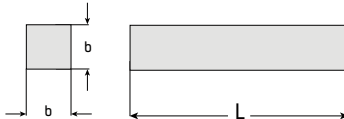
Pag. 4

## FORM A DIN 4964 CUCHILLA REDONDA / TOOL BITS



Pag. 5

## FORM B DIN 4964 CUCHILLA CUADRADA / TOOL BITS



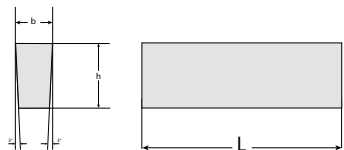
Pag. 6

## FORM D DIN 4964 CUCHILLA RECTANGULAR TOOL BITS



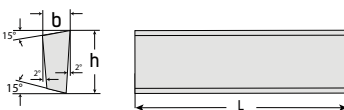
Pag. 9

## FORM E DIN 4964 CUCHILLA TRAPEZOIDAL TOOL BITS



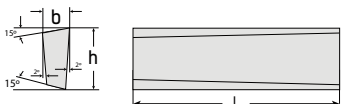
Pag. 12

## FORM L-1 DIN 4964 CUCHILLA TRAPEZOIDAL PARTING OFF TOOL BITS



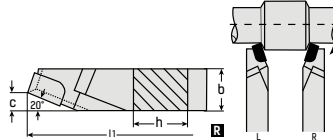
Pag. 12

## FORM L-2 DIN 4964 CUCHILLA BITRAPEZOIDAL PARTING OFF TOOL BITS



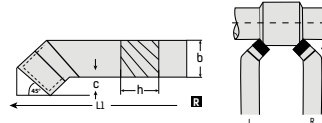
Pag. 13

## ISO - 1 DIN 4971 HERRAMIENTA DE TORNEAR



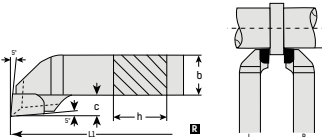
Pag. 13

## ISO - 2 DIN 4972 HERRAMIENTA DE TORNEAR 45°



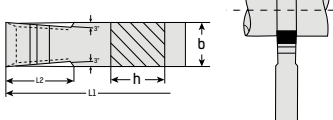
Pag. 13

## ISO - 3 DIN 4978 HERRAMIENTA DE ACABADO



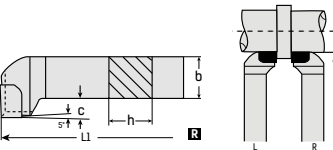
Pag. 14

## ISO - 4 DIN 4976 HERRAMIENTA PARA ATAQUE FRONTAL



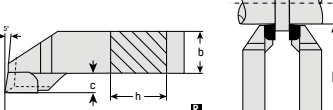
Pag. 14

## ISO - 5 DIN 4977 HERRAMIENTA DESPLAZADA PARA FRONTALES



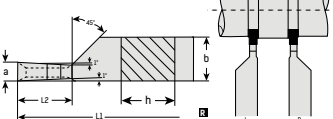
Pag. 14

## ISO - 6 DIN 4980 HERRAMIENTA PARA TORNEAR Y REFRENTAR



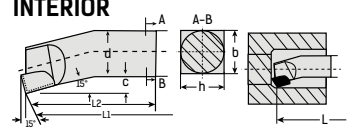
Pag. 15

## ISO - 7 DIN 4981 HERRAMIENTA DE RANURAR Y TRONZAR



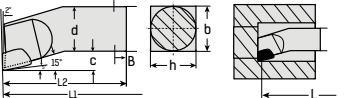
Pag. 15

## ISO - 8 DIN 4973 HERRAMIENTA DE TORNEADO INTERIOR



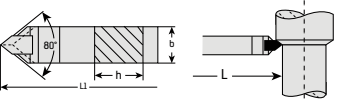
Pag. 15

## ISO - 9 DIN 4974 HERRAMIENTA DE TORNEADO INTERIOR



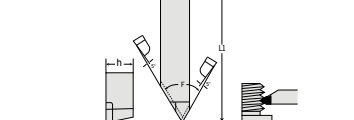
Pag. 16

## ISO - 10 DIN 4975 HERRAMIENTA DE TORNO PARA ACABADOS



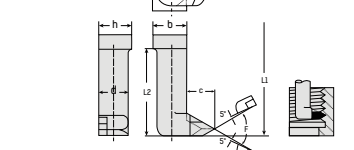
Pag. 17

## ISO 352 DIN 282 HERRAMIENTA PARA ROSCADO EXTERIOR



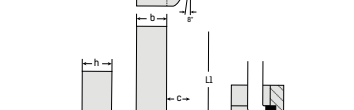
Pag. 17

## ISO 353 DIN 283 HERRAMIENTA PARA ROSCADO INTERIOR



Pag. 17

## ISO 354 DIN 263 HERRAMIENTA PARA RANURADO INTERIOR

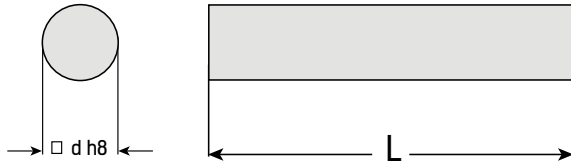


# COVENTRY 2016

	COVENTRY			COVENTRY PLACA SOLDADA			
	CO 10%	SPEZIAL	ASP-60	P-20	P-40	K-10	M-10
<b>MATERIAL DE FABRICACIÓN</b>  <b>MATERIAL MANUFACTURING</b>	Acero rápido HSS-E aleación Cobalto 10% Calidad universal de primera opción.  <b>Average speed steel 10% cobalt alloy. First choice quality.</b>	Acero rápido de aleación alta en Cobalto, Tungsteno y Carbono.  <b>High-speed steel cobalt alloy, Tungsten and Carbon.</b>	Acero sinterizado pulvimetalúrgico ASP-60 aleación grano fino Cobalto, Tungsteno y Carbono.  <b>High alloy ASP-60 powder metallurgical grade with a more even distribution of Cobalt, Tungsten and Carbide particles.</b>	Metal duro de primera calidad importado de Alemania y bajo las normas ISO.  <b>Premium carbide imported from Germany and under ISO.</b>			
<b>APLICACIONES</b>  <b>APPLICATIONS</b>	Torneado, tronzado y herramientas de corte diversas planas y rotativas.  <b>Turning, grooving and parting off. General purpose cutting tools</b>	Torneado de alto avance. Profundidades de corte medios.  <b>High feed turning. Means cutting depths.</b>	Elevada resistencia al desgaste en torneado y tronzado.  <b>High wear resistance. High strength cutting edge.</b>	Torneado, ranurado, roscado. Mecanizado en general.  <b>Turning, grooving, threading. General machining.</b>	Torneado, ranurado, corte interrumpido o grandes avances.  <b>Turnind, grooving, high feed or difficult conditions.</b>	Torneado, ranurado, roscado. Mecanizado en general.  <b>Turning, grooving, threading. General machining.</b>	Torneado, ranurado, roscado. Mecanizado en general.  <b>Turning, grooving, threading. General machining.</b>
<b>MECANIZACIÓN</b>  <b>MACHINING</b>	Materiales tenaces Madera Extrusión Herramientas de cizallar  <b>Tough materials Wood Extrusion Shearing tools</b>	Materiales tenaces Madera Extrusión Herramientas de cizallar  <b>Tough materials Wood Extrusion Shearing tools</b>	Aceros al carbono, aceros aleados, aleaciones de aluminio, aceros refractarios.  <b>Carbon steel, stainless steel, aluminium alloys, heat resistant alloys.</b>	Calidad universal para mecanizado de aceros en general.  <b>Firts choice grade for general turning steel.</b>	Mecanizado de acero en condiciones difíciles, bajas velocidades o corte interrumpido.  <b>Steel machininig under difficult conditions.</b>	Mecanizado universal de fundiciones, aluminios y materiales abrasivos. Aleaciones de cobre a alta temperatura.  <b>Universal grade for cast iron, aluminium, abrasive materials and cooper alloys.</b>	Mecanizado de aceros inoxidables y aceros al manganeso.  <b>Turning stainless steels and wear resistance manganese steels.</b>
<b>RESISTENCIA</b>  <b>RESISTANCE</b>	Alta tenacidad y resistencia al choque.  <b>Allowed in difficult cutting conditions.</b>	Alta resistencia al desgaste y a las mecanizaciones con alta concentración de calor.  <b>High wear resistance and machining with high concentration of heat.</b>	Alta resistencia al desgaste. Alta resistencia de la arista de corte.  <b>High wear resistance. High strength cutting edge.</b>	Alta resistencia al desgaste.  <b>High wear resistance.</b>	Alta tenacidad y resistencia al choque.  <b>Allowed in difficult cutting conditions.</b>	Alta resistencia al desgaste.  <b>High wear resistance.</b>	Alta resistencia al desgaste.  <b>High wear resistance.</b>
<b>AFILIADOS</b>  <b>REGRINDING</b>	Afilado sin problemas con muelas cerámicas o CBN.  <b>Regrinding easily with ceramic or CBN wheels.</b>	Afilado sin problemas con muelas cerámicas o CBN.  <b>Regrinding easily with ceramic or CBN wheels.</b>	Afilado sin problemas con muelas cerámicas o CBN.  <b>Regrinding easily with ceramic or CBN wheels.</b>	Muelas de carburo de sicilio y acabado con muela de diamante.  <b>Silicon carbide wheel, finish with diamond wheel.</b>			
<b>CARACTERÍSTICAS ESPECIALES</b>  <b>SPECIAL FEATURES</b>	Excelentes resultados en amplia gama de materiales.  <b>Good results in wide materials range.</b>	Resistencia al desgaste en el filo de corte mejorada.  <b>Better wear resistance at cutting edge.</b>	Mayor productividad por más altas condiciones de corte y mayor resistencia al desgaste.  <b>Increased productivity by higher cutting conditions and increase wear resistance.</b>	Rendimiento óptimo en procesos de mecanizado.  <b>Optimal performance in machining processes.</b>			

# FORM A DIN 4964

CUCHILLA REDONDA / TOOL BITS

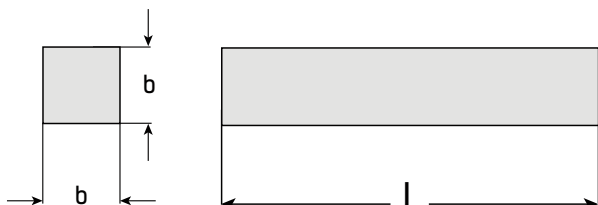


d mm.	l mm.	Precio / Euros / Pieza		
		Co 10%	Spezial	ASP-60
2	100	12,08	17,08	*
2,5	100	12,08	*	*
3	100	5,18	7,32	*
3	160	10,35	14,64	*
3	200	13,80	*	*
4	100	5,18	7,32	*
4	160	8,97	12,69	*
4	200	11,21	15,86	*
5	100	5,69	8,05	*
5	160	10,35	14,64	*
5	200	13,11	18,54	*
6	100	6,56	9,27	*
6	160	9,83	13,91	*
6	200	12,59	17,81	*
7	100	11,39	16,10	*
7	160	15,53	21,96	*
7	200	18,98	26,84	*
8	100	8,45	11,96	*
8	160	13,63	19,28	*
8	200	16,56	23,42	*
9	100	12,94	18,30	*

d mm.	l mm.	Precio / Euros / Pieza		
		Co 10%	Spezial	ASP-60
9	200	25,88	36,60	*
10	100	10,97	15,52	*
10	160	16,04	22,69	*
10	200	20,36	28,79	*
11	200	60,38	*	*
12	100	12,87	18,20	*
12	160	22,25	31,48	*
12	200	26,74	37,82	*
13	150	37,10	*	*
13	200	62,10	*	*
14	100	18,80	26,60	*
14	160	29,33	41,48	*
14	200	37,95	53,68	*
16	100	23,98	33,92	*
16	160	37,09	52,46	*
16	200	45,20	63,93	*
18	160	41,23	58,32	*
18	200	51,75	73,20	*
20	200	63,83	90,28	*
22	200	143,18	202,52	*
25	200	103,50	146,40	*

# FORM B DIN 4964

CUCHILLA CUADRADA / TOOL BITS

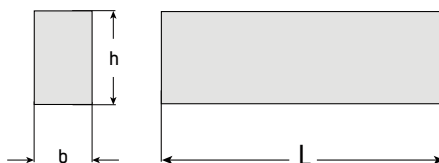


b mm.	b mm.	l mm.	Precio / Euros / Pieza		
			Co 10%	Spezial	ASP-60
4	4	100	7,76	11,62	*
4	4	160	11,73	17,57	*
4	4	200	14,66	21,96	*
5	5	100	7,07	10,59	*
5	5	160	11,73	17,57	*
5	5	200	14,66	21,96	*
6	6	100	5,97	8,94	*
6	6	160	9,66	14,47	*
6	6	200	12,08	18,09	*
7	7	200	18,10	27,11	*
8	8	100	10,11	15,14	*
8	8	160	13,80	20,67	*
8	8	200	16,04	24,03	*
8	8	300	35,00	*	*
10	10	100	13,80	20,67	*
10	10	160	19,67	29,46	*
10	10	200	24,15	36,18	*

b mm.	b mm.	l mm.	Precio / Euros / Pieza		
			Co 10%	Spezial	ASP-60
10	10	300	*	*	*
12	12	100	17,25	25,84	*
12	12	160	26,57	39,79	*
12	12	200	31,91	47,80	*
12	12	300	51,75	*	*
14	14	100	21,56	32,30	*
14	14	125	26,74	*	*
14	14	160	32,78	49,10	*
14	14	200	38,12	57,11	*
16	16	100	25,88	38,76	*
16	16	125	31,23	*	*
16	16	160	38,30	57,37	*
16	16	200	45,37	67,96	*
18	18	200	71,76	107,50	*
20	20	200	72,45	108,53	*
25	25	200	115,58	173,13	*

# FORM D DIN 4964

CUCHILLA RECTANGULAR  
TOOL BITS

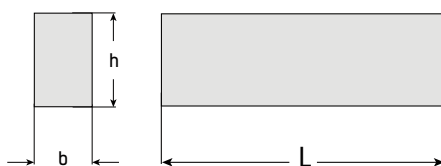


h mm.	b mm.	l mm.	Precio / Euros / Pieza		
			Co 10%	Spezial	ASP-60
6	4	80	7,76	11,63	*
6	4	100	8,45	12,66	*
6	4	125	11,73	17,57	*
6	4	150	15,18	22,74	*
6	4	160	15,18	22,74	*
6	4	200	18,98	28,42	*
8	8	63	7,25	10,85	*
8	2	80	8,97	13,44	*
8	2	100	10,70	16,02	*
8	2	125	12,94	19,38	*
8	2	150	16,56	24,81	*
8	2	160	16,56	24,81	*
8	2	200	21,39	32,04	*
8	4	80	7,76	11,63	*
8	4	100	8,45	12,66	*
8	4	125	11,73	17,57	*
8	4	160	15,18	22,74	*
8	4	200	18,98	28,42	*
8	6	80	9,66	14,47	*
8	6	100	11,21	16,80	*
8	6	125	14,15	21,19	*
8	6	150	18,11	27,13	*
8	6	160	18,11	27,13	*
8	6	200	22,43	33,59	*
10	3	80	9,66	14,47	*
10	3	100	11,21	16,80	*
10	3	125	14,15	21,19	*
10	3	150	18,11	27,13	*
10	3	160	18,11	27,13	*

h mm.	b mm.	l mm.	Precio / Euros / Pieza		
			Co 10%	Spezial	ASP-60
10	3	200	22,43	33,59	*
10	4	100	8,45	12,66	*
10	4	125	11,73	17,57	*
10	4	150	15,18	22,74	*
10	4	160	15,18	22,74	*
10	4	200	18,98	28,42	*
10	5	100	10,01	14,99	*
10	5	150	16,22	24,29	*
10	5	200	20,01	29,97	*
10	6	100	10,70	16,02	*
10	6	125	12,94	19,38	*
10	6	150	16,56	24,81	*
10	6	160	16,56	24,81	*
10	6	200	20,70	31,01	*
10	8	100	11,21	16,80	*
10	8	125	14,15	21,19	*
10	8	160	18,11	27,13	*
10	8	200	22,43	33,59	*
12	3	100	11,56	17,31	*
12	3	125	14,49	21,71	*
12	3	160	18,29	27,39	*
12	3	200	23,46	35,14	*
12	4	100	11,90	17,83	*
12	4	150	19,84	29,72	*
12	4	160	19,84	29,72	*
12	4	200	25,01	37,47	*

# FORM D DIN 4964

CUCHILLA RECTANGULAR  
TOOL BITS



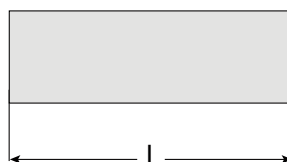
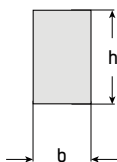
h mm.	b mm.	l mm.	Precio / Euros / Pieza		
			Co 10%	Spezial	ASP-60
12	6	100	11,21	16,80	*
12	6	125	14,15	21,19	*
12	6	150	16,39	24,55	*
12	6	160	16,39	24,55	*
12	6	200	20,36	30,49	*
12	8	100	12,08	18,09	*
12	8	125	15,70	23,51	*
12	8	150	18,98	28,42	*
12	8	160	18,98	28,42	*
12	8	200	23,63	35,40	*
12	10	100	15,87	23,77	*
12	10	125	19,67	29,46	*
12	10	150	25,01	37,47	*
12	10	160	25,01	37,47	*
12	10	200	31,05	46,51	*
14	6	100	16,39	24,55	*
14	6	125	20,18	30,23	*
14	6	150	25,88	38,76	*
14	6	160	25,88	38,76	*
14	6	200	32,78	49,10	*
14	8	200	37,95	56,85	*
14	10	100	24,15	36,18	*
14	10	160	38,99	58,40	*
14	10	200	48,30	72,35	*
14	12	100	30,19	45,22	*
14	12	160	48,30	72,35	*
14	12	200	60,38	90,44	*
15	3	100	21,05	31,53	*

h mm.	b mm.	l mm.	Precio / Euros / Pieza		
			Co 10%	Spezial	ASP-60
15	3	150	33,81	50,65	*
15	3	200	42,09	63,05	*
15	4	100	15,70	23,51	*
15	4	150	25,01	37,47	*
15	4	200	31,05	46,51	*
15	5	100	17,08	25,58	*
15	5	150	27,08	40,57	*
15	5	200	33,64	50,39	*
16	6	100	16,39	24,55	*
16	6	150	25,88	38,76	*
16	6	200	32,78	49,10	*
16	8	100	20,70	31,01	*
16	8	150	25,88	38,76	*
16	8	200	32,78	49,10	*
16	10	100	18,98	28,42	*
16	10	125	24,15	36,18	*
16	10	150	31,05	46,51	*
16	10	160	31,05	46,51	*
16	10	200	37,95	56,85	*
16	12	100	30,19	45,22	*
16	12	125	39,68	59,43	*
16	12	150	48,30	72,35	*
16	12	160	48,30	72,35	*
16	12	200	56,93	85,27	*
18	4	100	13,46	20,16	*
18	4	150	21,39	32,04	*
18	4	160	21,39	32,04	*



# FORM D DIN 4964

**CUCHILLA RECTANGULAR  
TOOL BITS**

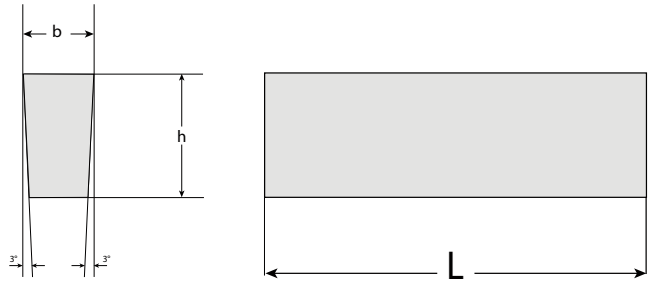


h mm.	b mm.	l mm.	Precio / Euros / Pieza		
			Co 10%	Spezial	ASP-60
18	4	200	26,74	40,05	*
18	6	100	18,63	27,91	*
18	6	150	29,33	43,93	*
18	6	160	29,33	43,93	*
18	6	200	36,23	54,27	*
20	3	100	14,66	21,96	*
20	3	150	24,15	36,18	*
20	3	200	28,46	42,64	*
20	4	100	14,15	21,19	*
20	4	150	22,94	34,37	*
20	4	200	28,12	42,12	*
20	5	150	25,01	37,47	*
20	5	200	31,05	46,51	*
20	6	150	27,26	40,83	*
20	6	200	33,64	50,39	*
20	8	150	41,40	62,02	*
20	8	200	48,30	72,35	*
20	10	150	42,78	64,08	*
20	10	200	53,48	80,11	*
20	10	250	74,18	111,11	*
20	12	150	49,68	74,42	*
20	12	200	62,10	93,03	*
20	12	250	85,39	127,91	*
20	16	150	67,79	101,55	*
20	16	200	69,00	103,36	*
25	6	100	21,74	32,56	*
25	6	150	34,67	51,94	*
25	6	200	43,13	64,60	*

h mm.	b mm.	l mm.	Precio / Euros / Pieza		
			Co 10%	Spezial	ASP-60
25	8	150	39,68	59,43	*
25	8	200	49,34	73,90	*
25	10	150	47,44	71,06	*
25	10	200	58,65	87,86	*
25	10	250	81,08	121,45	*
25	12	150	44,85	67,19	*
25	12	200	62,10	93,03	*
25	12	250	85,39	127,91	*
25	14	200	84,53	126,62	*
25	15	200	91,43	136,95	*
25	16	150	72,45	108,53	*
25	16	200	89,70	134,37	*
25	16	250	123,34	184,76	*
25	16	300	148,35	222,23	*
25	20	150	136,28	204,14	*
25	20	200	169,05	253,24	*
25	20	250	232,88	348,85	*
25	20	300	279,45	418,62	*
30	6	150	42,26	63,31	*
30	6	200	51,75	77,52	*
30	8	150	67,28	100,78	*
30	8	200	83,66	125,33	*
30	12	150	130,41	195,35	*
30	12	200	162,15	242,90	*
30	15	200	143,18	214,48	*
30	20	200	210,45	315,25	*

# FORM E DIN 4964

## CUCHILLA TRAPEZOIDAL TOOL BITS

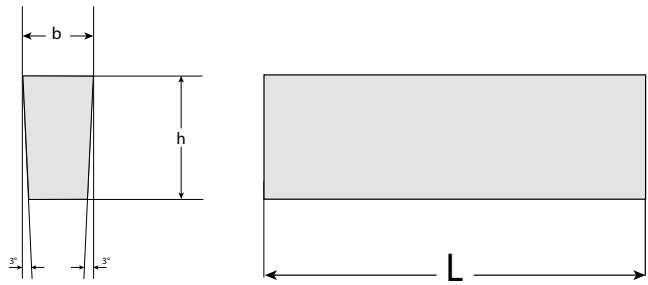


h mm.	b mm.	l mm.	Precio / Euros / Pieza		
			Co 10%	Spezial	ASP-60
10	2	63	12,08	*	*
10	2	80	15,53	*	*
10	2	100	21,56	*	*
10	2	125	25,88	*	*
10	2	150	27,95	*	*
10	2	160	33,64	*	*
10	3	100	18,98	*	*
10	3	200	37,95	*	*
10	2,5	50	12,08	*	*
10	2,5	63	12,08	*	*
10	2,5	80	12,94	*	*
10	2,5	100	15,53	*	*
10	2,5	125	20,70	*	*
10	2,5	150	25,88	*	*
10	2,5	160	25,88	*	*
10	2,5	200	31,05	*	*
12	3	63	7,07	*	*
12	3	75	7,07	*	*
12	3	80	7,07	*	*
12	3	100	8,97	*	*
12	3	125	11,21	*	*
12	3	150	13,80	*	*
12	3	160	13,80	*	*
12	3	200	17,25	*	*
12	4	80	21,39	*	*
12	4	125	32,26	*	*
12	4	160	41,40	*	*
12	4	200	51,75	*	*
12	5	80	13,80	*	*

h mm.	b mm.	l mm.	Precio / Euros / Pieza		
			Co 10%	Spezial	ASP-60
12	5	100	15,53	*	*
12	5	125	17,42	*	*
12	5	160	22,08	*	*
12	5	200	29,33	*	*
12	1,5	200	25,88	*	*
12	1,6	100	12,08	*	*
13	2,5	100	17,25	*	*
13	2,5	160	27,60	*	*
15	3	80	24,15	*	*
15	3	100	25,88	*	*
15	3	125	32,78	*	*
15	3	150	43,13	*	*
15	3	160	43,13	*	*
15	3	200	51,75	*	*
15	4	80	20,70	*	*
15	4	100	25,88	*	*
15	4	125	30,71	*	*
15	4	160	39,68	*	*
15	4	200	49,85	*	*
15	2,5	100	25,88	*	*

# FORM E DIN 4964

CUCHILLA TRAPEZOIDAL  
TOOL BITS

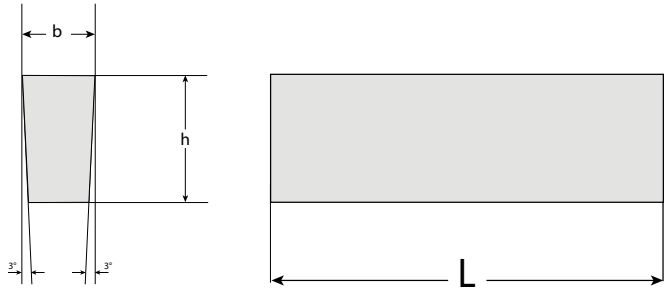


h mm.	b mm.	l mm.	Precio / Euros / Pieza		
			Co 10%	Spezial	ASP-60
15	2,5	140	39,68	*	*
15	2,5	160	37,95	*	*
16	3	80	22,43	*	*
16	3	100	25,53	*	*
16	3	125	26,22	*	*
16	3	150	43,13	*	*
16	3	160	43,13	*	*
16	3	200	51,75	*	*
16	4	80	12,94	*	*
16	4	100	15,53	*	*
16	4	125	20,70	*	*
16	4	140	25,88	*	*
16	4	150	25,88	*	*
16	4	160	25,88	*	*
16	4	200	31,05	*	*
16	4	250	43,13	*	*
16	6	100	27,60	*	*
16	6	125	35,71	*	*
16	6	140	44,85	*	*
18	3	80	12,94	*	*
18	3	100	15,53	*	*
18	3	125	20,70	*	*
18	3	150	25,88	*	*
18	3	160	25,88	*	*
18	3	200	31,05	*	*
18	4	80	12,94	*	*
18	4	100	15,53	*	*
18	4	125	20,70	*	*
18	4	150	25,88	*	*

h mm.	b mm.	l mm.	Precio / Euros / Pieza		
			Co 10%	Spezial	ASP-60
18	4	160	25,88	*	*
18	4	200	31,05	*	*
18	5	125	41,40	*	*
18	5	160	51,75	*	*
18	5	200	65,55	*	*
18	6	80	17,25	*	*
18	6	100	20,70	*	*
18	6	125	25,88	*	*
18	6	160	33,64	*	*
18	6	200	41,40	*	*
18	6	250	51,75	*	*
19	3,5	125	31,05	*	*
19	3,5	160	37,95	*	*
20	3	100	18,98	*	*
20	3	125	23,29	*	*
20	3	150	29,33	*	*
20	3	160	29,33	*	*
20	3	200	36,23	*	*
20	3	250	39,68	*	*

# FORM E DIN 4964

CUCHILLA TRAPEZOIDAL  
TOOL BITS

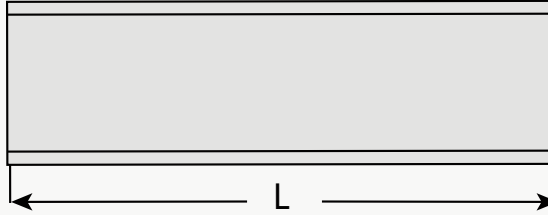
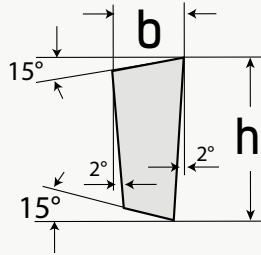


h mm.	b mm.	l mm.	Precio / Euros / Pieza		
			Co 10%	Spezial	ASP-60
20	4	100	19,49	*	*
20	4	125	24,15	*	*
20	4	150	30,36	*	*
20	4	160	30,36	*	*
20	4	200	37,95	*	*
20	4	250	43,13	*	*
20	5	50	18,11	*	*
20	5	63	18,11	*	*
20	5	80	18,11	*	*
20	5	100	22,43	*	*
20	5	125	28,46	*	*
20	5	150	36,23	*	*
20	5	160	36,23	*	*
20	5	200	44,85	*	*
20	5	250	56,93	*	*
20	6	150	51,75	*	*
20	6	160	51,75	*	*
20	6	200	63,83	*	*
20	6	250	86,25	*	*
25	4	100	39,68	*	*
25	4	200	72,45	*	*
25	5	100	39,68	*	*
25	5	125	50,03	*	*
25	5	160	63,48	*	*
25	5	200	77,63	*	*
25	5	250	100,91	*	*
25	6	50	31,05	*	*
25	6	80	31,05	*	*

h mm.	b mm.	l mm.	Precio / Euros / Pieza		
			Co 10%	Spezial	ASP-60
25	6	100	37,95	*	*
25	6	125	47,44	*	*
25	6	160	61,24	*	*
25	6	200	75,90	*	*
25	6	250	98,33	*	*
32	8	80	51,75	*	*
32	8	100	64,69	*	*
32	8	125	80,56	*	*
32	8	150	103,50	*	*
32	8	160	103,50	*	*
32	8	200	129,38	*	*
32	8	250	165,60	*	*
32	8	300	201,83	*	*
40	10	100	117,30	*	*
40	10	125	146,63	*	*
40	10	150	187,68	*	*
40	10	200	234,77	*	*
40	10	250	307,05	*	*
40	10	300	376,05	*	*

**FORM L-1 DIN 4964**

**CUCHILLA TRAPEZOIDAL  
PARTING OFF TOOL BITS**

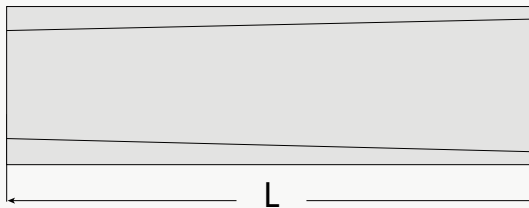
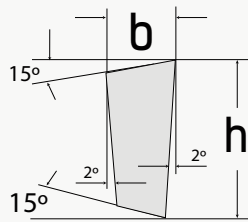


b mm.	h mm.	l mm.	Precio / Euros / Pieza		
			Co 10%	Spezial	ASP-60
2,5	13	100	12,54	*	*
2,5	15	100	12,94	*	*
3,5	19	125	21,09	*	35,85



**FORM L-2 DIN 4964**

**CUCHILLA BITRAPEZOIDAL  
PARTING OFF TOOL BITS**

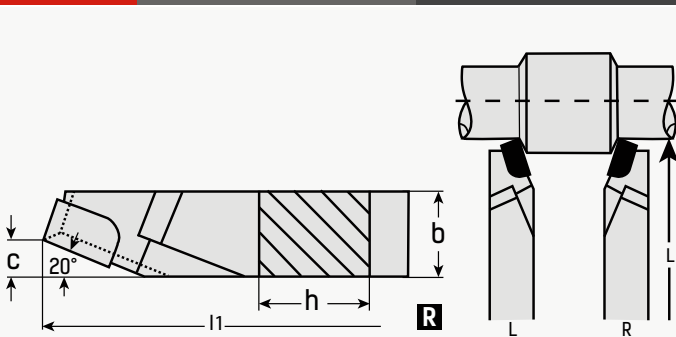


b mm.	h mm.	l mm.	Precio / Euros / Pieza		
			Co 10%	Spezial	ASP-60
2,5	13	100	13,42	20,16	*
2,5	15	100	13,42	20,13	*
3,5	19	125	22,16	30,50	37,67



**ISO 1 DIN 4971 R/L**

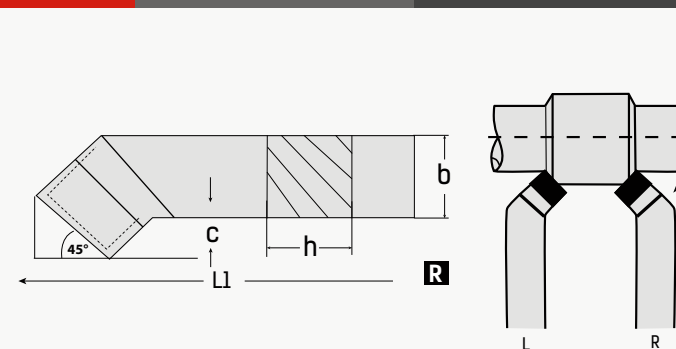
**HERRAMIENTA DE TORNEAR**



h mm.	b mm.	l mm.	Precio en euros por pieza / Price € part			
			P-20	K-10	P-40	M-20
10	10	90	6,93		*	
12	12	100	8,10		*	
16	16	110	9,36		10,40	
20	20	125	12,06		13,32	
25	25	140	19,49		21,56	
32	32	170	29,25		*	
40	40		52,70		*	

**ISO 2 DIN 4972 R/L**

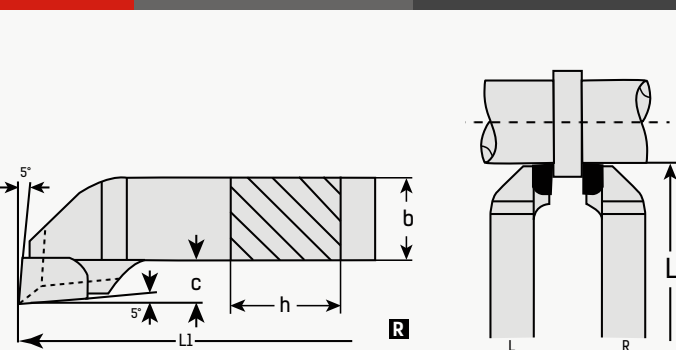
**HERRAMIENTA DE TORNEAR 45°**



h mm.	b mm.	l mm.	Precio en euros por pieza / Price € part			
			P-20	K-10	P-40	M-20
10	10	90	7,29		*	
12	12	100	8,46		9,36	
16	16	110	9,77		10,76	
20	20	125	12,42		13,73	
25	25	140	19,62		21,69	
32	32	170	29,39		32,27	
40	40		53,24		58,59	

**ISO 3 DIN 4978 R/L**

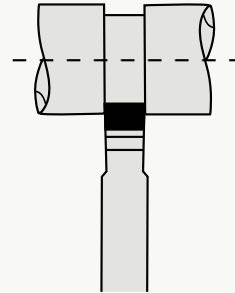
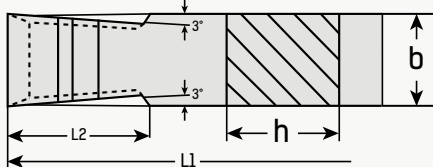
**HERRAMIENTA DE ACABADO**



h mm.	b mm.	l mm.	Precio en euros por pieza / Price € part			
			P-20	K-10	P-40	M-20
8	8	80	9,00		9,86	
10	10	90	8,73		9,63	
12	12	100	10,26		11,30	
16	16	110	11,40		12,56	
20	20	125	16,90		18,72	
25	25	140	27,25		30,78	
32	32	170	39,11		43,11	

**ISO 4 DIN 4976 R/L**

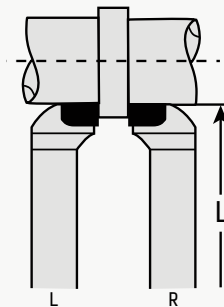
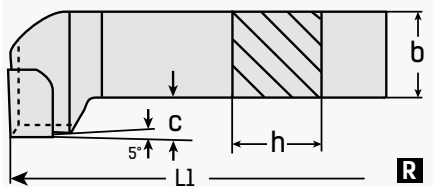
**HERRAMIENTA PARA ATAQUE FRONTAL**



h mm.	b mm.	l mm.	Precio en euros por pieza / Price € part			
			P-20	K-10	P-40	M-20
8	8	80	9,09		*	
10	10	90	7,68		8,46	
12	12	100	9,98		11,00	
16	16	110	11,90		13,19	
20	20	125	16,13		17,80	
25	25	140	28,10		30,92	
32	32	170	48,15		53,10	
40	40	200	90,41		99,54	

**ISO 5 DIN 4977 R/L**

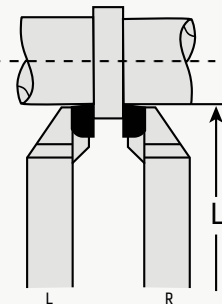
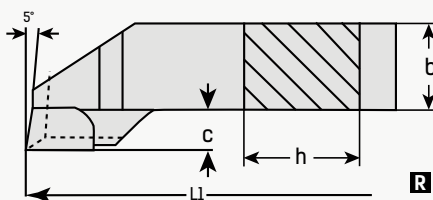
**HERRAMIENTA DESPLAZADA PARA FRONTALES**



h mm.	b mm.	l mm.	Precio en euros por pieza / Price € part			
			P-20	K-10	P-40	M-20
8	8	80	8,33		*	
10	10	90	7,97		8,87	
12	12	100	9,09		10,13	
16	16	110	9,98		11,03	
20	20	125	12,83		14,13	
25	25	140	19,72		21,83	
32	32	170	30,15		33,21	

**ISO 6 DIN 4980 R/L**

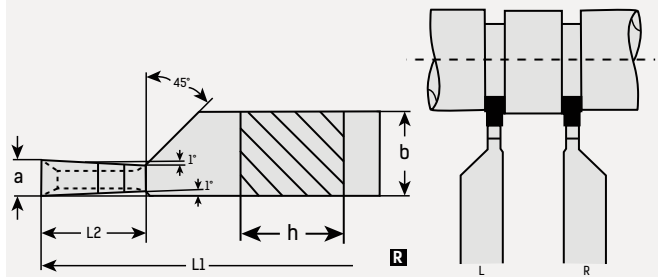
**HERRAMIENTA PARA TORNEAR Y REFRENTAR**



h mm.	b mm.	l mm.	Precio en euros por pieza / Price € part			
			P-20	K-10	P-40	M-20
8	8	80	9,00		*	
10	10	90	7,07		7,83	
12	12	100	8,10		9,00	
16	16	110	9,86		10,89	
20	20	125	12,33		13,59	
25	25	140	18,72		20,66	
32	32	170	28,49		31,41	
40	40	200	53,24		58,59	

**ISO 7 DIN 4981 R/L**

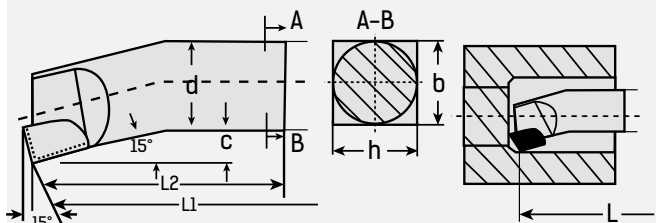
**HERRAMIENTA DE RANURAR Y TRONZAR**



h mm.	b mm.	l mm.	L2 mm.	a mm.	Precio en euros por pieza / Price € part			
					P-20	K-10	P-40	M-20
12	8		12	3	7,29			8,10
16	10		14	4	7,97			8,87
20	12		16	5	9,63			10,67
25	16		20	6	13,73			15,12
32	20		25	8	19,13			21,02
40	25		32	10	32,45			*

**ISO 8 DIN 4973 R**

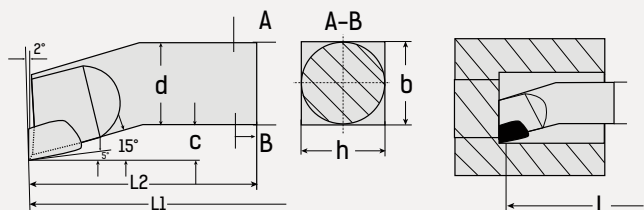
**HERRAMIENTA DE TORNEADO INTERIOR**



h mm.	b mm.	l mm.	L2 mm.	Ø min	Precio en euros por pieza / Price € part			
					P-20	K-10	P-40	M-20
8	8	125	40	14	7,20			7,97
10	10	150	50	18	7,97			8,87
12	12	180	63	21	9,86			10,89
16	16	210	80	27	12,06			13,32
20	20	250	100	34	14,63			16,16
25	25	300	125	43	22,59			24,89
32	32	355	160	52	33,84			37,25
40	40	400	180	60	56,43			84,50

**ISO 9 DIN 4974**

**HERRAMIENTA DE TORNEADO INTERIOR**

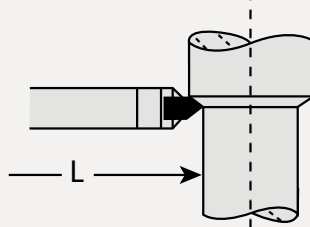
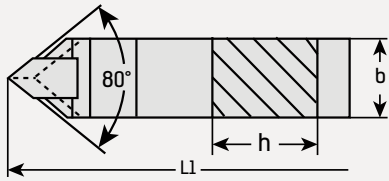


h mm.	b mm.	l mm.	L2 mm.	Ø min	Precio en euros por pieza / Price € part			
					P-20	K-10	P-40	M-20
8	8	125	40	14	7,20			7,97
10	10	150	50	18	7,97			8,87
12	12	180	63	21	9,86			10,89
16	16	210	80	27	12,06			13,32
20	20	250	100	34	14,63			16,16
25	25	300	125	43	22,59			24,89
32	32	355	160	52	33,84			37,25
40	40	400	180	60	76,43			84,50



ISO 10 DIN 4975

HERRAMIENTA DE TORNO PARA ACABADOS



h mm.	b mm.	l mm.	Precio en euros por pieza / Price € part			
			P-20	K-10	P-40	M-20
10	10	90	7,56		*	
12	12	100	9,36		*	
16	16	110	11,43		12,56	
20	20	125	15,39		16,92	
25	25	140	25,92		28,65	
32	32	170	*		57,74	

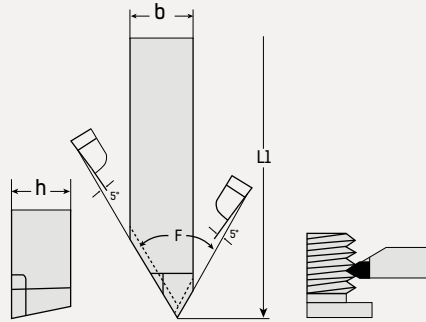


ALTA TENACIDAD

COVENTRY SPEZIAL

**ISO 352 DIN 282 60° R**

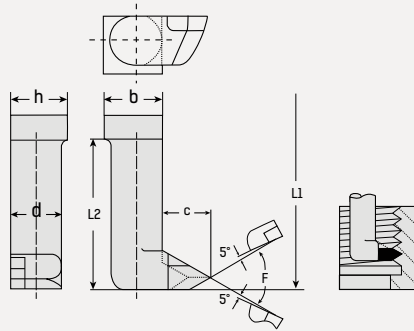
**HERRAMIENTA PARA ROSCADO EXTERIOR**



h mm.	b mm.	l mm.	Precio en euros por pieza / Price € part			
			P-20	K-10	P-40	M-20
12	8	100	15,39		*	
16	10	120	18,72		*	
20	12	140	21,29		*	
25	16	160	25,52		*	
32	20	180	*		*	
40	25	200	*		*	

**ISO 353 DIN 283 60° R**

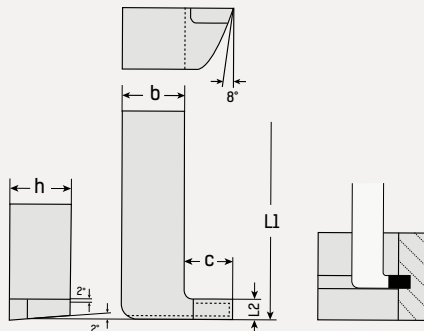
**HERRAMIENTA PARA ROSCADO INTERIOR**



h mm.	b mm.	l mm.	L2 mm.	Ø min	Precio en euros por pieza / Price € part			
					P-20	K-10	P-40	M-20
10	10	140	30	22	19,11		*	
12	12	160	35	26	20,90		*	
16	16	140	45	32	24,62		*	
20	20	160	55	38	27,45		*	
25	25	200	65	45	34,88		*	
32	32	250	75	58	*		*	

**ISO 354 DIN 263 R**

**HERRAMIENTA PARA RANURADO INTERIOR**



h mm.	b mm.	l mm.	L2 mm.	Ø min	Precio en euros por pieza / Price € part			
					P-20	K-10	P-40	M-20
10	10	140	3	22	18,95		*	
12	12	160	4	25	20,90		*	
16	16	180	5	34	24,62		*	
20	20	210	6	42	27,45		*	
25	25	250	8	60	34,88		*	
32	32	300	10	65	48,74		*	
40	40	315	12	75	*		*	

SPECIAL TOOL REQUEST FORM

Please, send us the following information by email

[sndpi@groupeaustoni.fr](mailto:sndpi@groupeaustoni.fr)

**Drawing / Dibujo**

A large rectangular area filled with a fine grid of small squares, intended for drawing or sketching. The grid is composed of approximately 30 columns and 40 rows of squares.

PRECIOS VENTAS NETOS / NET SALES PRICES