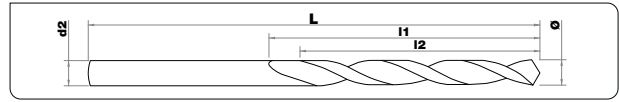
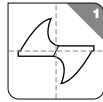




TEK | HSS FULLY GROUND STUB LENGTH DRILL.

TEK | BROCA HSS RECTIFICADA CILÍNDRICA SERIE EXTRA-CORTA.

TEK | PUNTA HSS CILINDRICA EXTRA-CORTA.



For steels and cast irons. Robustness, accuracy.

Para aceros y fundiciones. Fuerza, precisión.

Foratura di acciai <950 N/mm² e ghise. Robustezza e precisione.



Steels for heat treatment 200-700N/mm²
Aceros para tratamiento térmico 200-700 N/mm²
Acciai per trattamento termico 200-700N/mm²



Heat Treatable Steels <950N/mm²
Aceros aleados y tratados < 950N/mm²
Acciai per trattamento termico <950N/mm²



Austenitic stainless steels
Aceros inoxidables austeníticos
Acciai inossidabili austenitici



Cast iron
Fundiciones
Ghisa



1140251	EAN	Ø	d2	L	l1	QTY	PCB	€
11402510100	3221910151775	1,00	1,00	26	6	1	10	
11402510110	3221910151782	1,10	1,10	28	7	1	10	
11402510120	3221910151805	1,20	1,20	30	8	1	10	
11402510130	3221910151829	1,30	1,30	30	8	1	10	
11402510140	3221910151843	1,40	1,40	32	9	1	10	
11402510150	3221910151850	1,50	1,50	32	9	1	10	
11402510160	3221910151874	1,60	1,60	34	10	1	10	
11402510170	3221910151881	1,70	1,70	34	10	1	10*	
11402510175	3221910151898	1,75	1,75	36	11	1	10	
11402510180	3221910151904	1,80	1,80	36	11	1	10	
11402510190	3221910151911	1,90	1,90	36	11	1	10*	
11402510200	3221910151935	2,00	2,00	38	12	1	10	
11402510210	3221910151942	2,10	2,10	38	12	1	10	
11402510220	3221910151959	2,20	2,20	40	13	1	10	
11402510230	3221910151973	2,30	2,30	40	13	1	10	
11402510240	3221910151997	2,40	2,40	43	14	1	10	
11402510250	3221910152000	2,50	2,50	43	14	1	10	
11402510260	3221910152017	2,60	2,60	43	14	1	10	
11402510270	3221910152024	2,70	2,70	46	16	1	10	
11402510275	3221910152031	2,75	2,75	46	16	1	10	
11402510280	3221910152055	2,80	2,80	46	16	1	10	
11402510290	3221910152079	2,90	2,90	46	16	1	10	
11402510300	3221910152086	3,00	3,00	46	16	1	10	
11402510310	3221910152093	3,10	3,10	49	18	1	10	
11402510320	3221910152116	3,20	3,20	49	18	1	10	
11402510325	3221910152123	3,25	3,25	49	18	1	10	
11402510330	3221910152130	3,30	3,30	49	18	1	10	
11402510340	3221910152147	3,40	3,40	52	20	1	10	
11402510350	3221910152154	3,50	3,50	52	20	1	10	
11402510360	3221910152178	3,60	3,60	52	20	1	10	
11402510370	3221910152185	3,70	3,70	52	20	1	10	
11402510375	3221910152192	3,75	3,75	52	20	1	10	
11402510380	3221910152208	3,80	3,80	55	22	1	10	
11402510390	3221910152215	3,90	3,90	55	22	1	10	
11402510400	3221910152239	4,00	4,00	55	22	1	10	
11402510410	3221910152246	4,10	4,10	55	22	1	10	
11402510420	3221910152253	4,20	4,20	55	22	1	10	
11402510425	3221910152260	4,25	4,25	55	22	1	10	
11402510430	3221910152277	4,30	4,30	58	24	1	10	
11402510440	3221910152291	4,40	4,40	58	24	1	10*	
11402510450	3221910152307	4,50	4,50	58	24	1	10	
11402510460	3221910152314	4,60	4,60	58	24	1	10	
11402510470	3221910152321	4,70	4,70	58	24	1	10	
11402510480	3221910152352	4,80	4,80	62	26	1	10	
11402510490	3221910152369	4,90	4,90	62	26	1	10	
11402510500	3221910152376	5,00	5,00	62	26	1	10	
11402510510	3221910152383	5,10	5,10	62	26	1	10	
11402510520	3221910152406	5,20	5,20	62	26	1	10	
11402510525	3221910152413	5,25	5,25	62	26	1	10	
11402510530	3221910152420	5,30	5,30	62	26	1	10*	
11402510540	3221910152437	5,40	5,40	66	28	1	10*	



* Jusqu'à épuisement des stocks
While stocks last



1140251	EAN	Ø	d2	L	I1	QTY PCB	€
11402510550	3221910152444	5,50	5,50	66	28	1	10
11402510560	3221910152468	5,60	5,60	66	28	1	10
11402510570	3221910152475	5,70	5,70	66	28	1	10*
11402510575	3221910152482	5,75	5,75	66	28	1	10
11402510600	3221910152529	6,00	6,00	66	28	1	10
11402510610	3221910152536	6,10	6,10	70	31	1	10*
11402510620	3221910152543	6,20	6,20	70	31	1	10
11402510625	3221910152550	6,25	6,25	70	31	1	10*
11402510630	3221910152567	6,30	6,30	70	31	1	10
11402510640	3221910152581	6,40	6,40	70	31	1	10*
11402510650	3221910152598	6,50	6,50	70	31	1	10
11402510660	3221910152604	6,60	6,60	70	31	1	10
11402510680	3221910152635	6,80	6,80	74	34	1	10
11402510690	3221910152642	6,90	6,90	74	34	1	10*
11402510700	3221910152659	7,00	7,00	74	34	1	10
11402510750	3221910152710	7,50	7,50	74	34	1	10
11402510780	3221910152758	7,80	7,80	79	37	1	10
11402510800	3221910152789	8,00	8,00	79	37	1	10
11402510820	3221910152796	8,20	8,20	79	37	1	5
11402510850	3221910152826	8,50	8,50	79	37	1	5
11402510880	3221910152871	8,80	8,80	84	40	1	5
11402510900	3221910152888	9,00	9,00	84	40	1	5
11402510950	3221910152895	9,50	9,50	84	40	1	5
11402511000	3221910152925	10,00	10,00	89	43	1	5
11402511050	3221910152963	10,50	10,50	89	43	1	5
11402511100	3221910152970	11,00	11,00	95	47	1	5
11402511150	3221910152987	11,50	11,50	95	47	1	5
11402511200	3221910152994	12,00	12,00	102	51	1	5
11402511250	3221910153007	12,50	12,50	102	51	1	5
11402511300	3221910153021	13,00	13,00	102	51	1	5
11402511350	3221910153038	13,50	13,50	107	54	1	5*
11402511400	3221910879501	14,00	14,00	107	54	1	5*
11402511450	3221910879518	14,50	14,50	111	56	1	5*
11402511500	3221910153052	15,00	15,00	111	56	1	5*
11402511600	3221910879525	16,00	16,00	115	58	1	1*
11402511700	3221910879532	17,00	17,00	119	60	1	1*
11402511800	3221910153090	18,00	18,00	123	62	1	1*
11402511900	3221910153106	19,00	19,00	127	64	1	1*
11402512000	3221910879549	20,00	20,00	131	66	1	1*



TXD | HSS FULLY GROUND DOUBLE ENDED STUB LENGTH DRILL

TXD | BROCA HSS RECTIFICADA DOBLE PUNTA.

TXD | PUNTA HSS CILINDRICA DOPPIO TAGLIO.

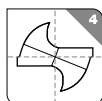


HSS

STEAM TREATED

TIVOLY NORM

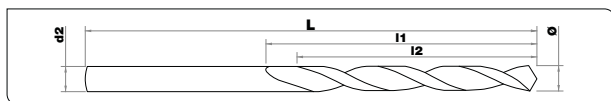
1xd



118°

N TYPE

h8



For steels and cast irons. Comfort, accuracy.

Para aceros y fundiciones. Confort, precisión.

Foratura di acciai <950 N/mm² e ghise. Confort e precisione.



AB

Steels for heat treatment 200-700N/mm²
Aceros para tratamiento térmico 200-700 N/mm²
Acciai per trattamento termico 200-700N/mm²

C

Heat Treatable Steels <950N/mm²
Aceros aleados y tratados < 950N/mm²
Acciai per trattamento termico <950N/mm²

H

Austenitic stainless steels
Aceros inoxidables austeníticos <950N/mm²
Acciai inossidabili austenitici

1140271	EAN	Ø	d2	L	I1	QTY PCB	€
11402710200	3221910154936	2,00	2,00	38	10	1	10
11402710220	3221910154943	2,20	2,20	40	10	1	10
11402710250	3221910154967	2,50	2,50	43	10	1	10
11402710300	3221910155001	3,00	3,00	46	10	1	10
11402710310	3221910155018	3,10	3,10	49	10	1	10
11402710320	3221910155025	3,20	3,20	49	10	1	10
11402710330	3221910155056	3,30	3,30	49	10	1	10
11402710350	3221910155070	3,50	3,50	52	13	1	10
11402710380	3221910155094	3,80	3,80	55	13	1	10
11402710400	3221910155100	4,00	4,00	55	13	1	10
11402710410	3221910155117	4,10	4,10	55	13	1	10
11402710420	3221910155124	4,20	4,20	55	13	1	10
11402710450	3221910155155	4,50	4,50	58	13	1	10
11402710480	3221910155162	4,80	4,80	62	16	1	10
11402710490	3221910155179	4,90	4,90	62	16	1	10



* Jusqu'à épuisement des stocks
While stocks last



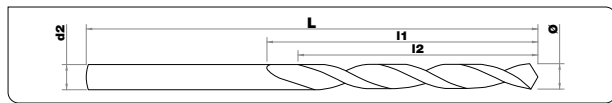
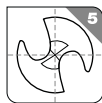
1140271	EAN	Ø	d2	L	I1	QTY PCB	€
11402710500	3221910155186	5,00	5,00	62	16	1 10	
11402710510	3221910155193	5,10	5,10	62	16	1 10	
11402710520	3221910155209	5,20	5,20	62	16	1 10	
11402710550	3221910155223	5,50	5,50	66	19	1 10	
11402710600	3221910155247	6,00	6,00	66	19	1 10	
11402710650	3221910155261	6,50	6,50	70	19	1 10	
11402710700	3221910155278	7,00	7,00	74	19	1 10	
11402710750	3221910155285	7,50	7,50	74	19	1 10	
11402710800	3221910155292	8,00	8,00	79	22	1 10	
11402710900	3221910155315	9,00	9,00	84	22	1 5	
11402711000	3221910155339	10,00	10,00	89	22	1 5	



**TPX | HSS FULLY GROUND STUB
LENGTH DRILL.**

**TPX | BROCA HSS RECTIFICADA
CILÍNDRICA.**

**TPX | PUNTA HSS CILINDRICA CON
CUSPIDE PER LAMIERA.**



For sheet metal and plastics. Comfort accuracy.

Para chapas y plásticos. Confort, precisión.

Foratura e pulitura di lamiere e mat. plastici. Confort e precisione.



Steels for heat treatment
200-700N/mm²
Aceros para tratamiento térmico
200-700 N/mm²
Acciai per trattamento termico
200-700N/mm²



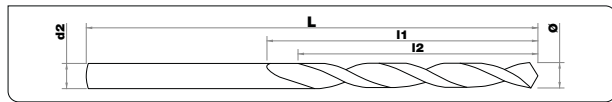
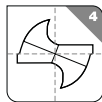
1143741	EAN	Ø	d2	L	I1	QTY PCB	€
11437410300	3221910213640	3,00	3,00	46	16	1 10	
11437410350	3221910213664	3,50	3,50	52	20	1 10	
11437410400	3221910213671	4,00	4,00	55	22	1 10	
11437410420	3221910213688	4,20	4,20	55	22	1 10	
11437410450	3221910213695	4,50	4,50	58	24	1 10	
11437410500	3221910213701	5,00	5,00	62	26	1 10	
11437410550	3221910213725	5,50	5,50	66	28	1 10	
11437410600	3221910213732	6,00	6,00	66	28	1 10	
11437410800	3221910213749	8,00	8,00	79	37	1 10	
11437411000	3221910213756	10,00	10,00	89	43	1 5	



**HSSE5 FULLY GROUND STUB
LENGTH DRILL | T LINE**

**BROCA HSSE5 RECTIFICADA
CILÍNDRICA SERIE EXTRA-CORTA |
T LINE**

**PUNTA HSSE5 CILINDRICA EXTRA-
CORTA | T LINE**



For steels and austenitic stainless steels.

Para aceros y aceros inoxidables
austeníticos.

Foratura acciai e acciai inossidabili
austenitici.



Steels for heat treatment
200-700N/mm²
Aceros para tratamiento térmico
200-700 N/mm²
Acciai per trattamento termico
200-700N/mm²



Heat Treatable Steels <950N/
mm²
Aceros aleados y tratados <
950N/mm²
Acciai per trattamento termico
<950N/mm²



1140281	EAN	Ø	d3	L	I2	QTY PCB	€
11402810200	3221912002983	2,00	2,00	38	12	1 10	
11402810220	3221912002976	2,20	2,20	40	13	1 10	
11402810250	3221912002990	2,50	2,50	43	14	1 10	
11402810275	3221912003003	2,75	2,75	46	16	1 10	
11402810300	3221912003010	3,00	3,00	46	16	1 10	



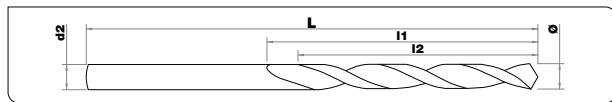
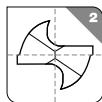
1140281	EAN	Ø	d3	L	I2	QTY PCB	€
11402810320	3221912003027	3,20	3,20	49	18	1	10
11402810325	3221912003034	3,25	3,25	49	18	1	10
11402810330	3221912003041	3,30	3,30	49	18	1	10
11402810350	3221912003058	3,50	3,50	52	20	1	10
11402810375	3221912003065	3,75	3,75	52	20	1	10
11402810400	3221912003072	4,00	4,00	55	22	1	10
11402810410	3221912003089	4,10	4,10	55	22	1	10
11402810420	3221912003096	4,20	4,20	55	22	1	10
11402810425	3221912003102	4,25	4,25	55	22	1	10
11402810450	3221912003119	4,50	4,50	58	24	1	10
11402810490	3221912003126	4,90	4,90	62	26	1	10
11402810500	3221912003133	5,00	5,00	62	26	1	10
11402810525	3221912003140	5,25	5,25	62	26	1	10
11402810550	3221912003157	5,50	5,50	66	28	1	10
11402810600	3221912003164	6,00	6,00	66	28	1	10
11402810650	3221912003171	6,50	6,50	70	31	1	10
11402810680	3221912003188	6,80	6,80	74	34	1	10
11402810700	3221912003195	7,00	7,00	74	34	1	10
11402810750	3221912003201	7,50	7,50	74	34	1	10
11402810800	3221912003218	8,00	8,00	79	37	1	10
11402810850	3221912003225	8,50	8,50	79	37	1	5
11402810900	3221912003232	9,00	9,00	84	40	1	5
11402810950	3221912003249	9,50	9,50	84	40	1	5
11402811000	3221912003256	10,00	10,00	89	43	1	5



**PHOENIX | HSSE5 FULLY GROUND
STUB LENGTH DRILL. TYPE S**

**PHOENIX | BROCA HSSE5 RECTIFI-
CADA CILÍNDRICA SERIE EXTRA-
CORTA. TIPO S**

**PHOENIX | PUNTA HSSE5 CILIN-
DRICA EXTRA-CORTA | TIPO S**



For deep holes. Universal application.
High Performance.

Usos múltiples para agujeros profundos.
Alto rendimiento.

Concepita per forature polivalenti e fori
profondi. Alte prestazioni.



Steels for heat treatment
200-700N/mm²
Aceros para tratamiento térmico
200-700 N/mm²
Acciai per trattamento termico
200-700N/mm²



Heat Treatable Steels <950N/
mm²
Aceros aleados y tratados <
950N/mm²
Acciai per trattamento termico
<950N/mm²



Stainless Steels
Aceros inoxidables
Acciai inossidabili



SG iron
Fundición nodular
Ghisa GS



Aluminium alloys Si>10%
Aleaciones de aluminio Si>10%
Leghe di alluminio Si >10%



8140291	EAN	Ø	d2	L	I1	QTY PCB	€
81402910200	3221910430290	2,00	2,00	38	12	1	10
81402910210	3221910430306	2,10	2,10	38	12	1	10
81402910220	3221910430313	2,20	2,20	40	13	1	10
81402910230	3221910430320	2,30	2,30	40	13	1	10
81402910240	3221910430337	2,40	2,40	43	14	1	10
81402910250	3221910430344	2,50	2,50	43	14	1	10
81402910260	3221910430351	2,60	2,60	43	14	1	10
81402910270	3221910430368	2,70	2,70	46	16	1	10
81402910280	3221910430375	2,80	2,80	46	16	1	10
81402910290	3221910430382	2,90	2,90	46	16	1	10
81402910300	3221910430399	3,00	3,00	46	16	1	10
81402910310	3221910430405	3,10	3,10	49	18	1	10
81402910320	3221910430412	3,20	3,20	49	18	1	10
81402910330	3221910430436	3,30	3,30	49	18	1	10
81402910340	3221910430443	3,40	3,40	52	20	1	10
81402910350	3221910430450	3,50	3,50	52	20	1	10
81402910360	3221910430467	3,60	3,60	52	20	1	10
81402910370	3221910430481	3,70	3,70	52	20	1	10
81402910380	3221910430498	3,80	3,80	55	22	1	10
81402910390	3221910430504	3,90	3,90	55	22	1	10
81402910400	3221910430511	4,00	4,00	55	22	1	10
81402910410	3221910430528	4,10	4,10	55	22	1	10
81402910420	3221910430535	4,20	4,20	55	22	1	10
81402910430	3221910430542	4,30	4,30	58	24	1	10
81402910440	3221910430559	4,40	4,40	58	24	1	10

