

MITSUBISHI

MITSUBISHI CARBIDE

Broca de placa intercambiable

B060S

TAW

Rendimiento estable gracias a una broca versátil de placa intercambiable.

Nueva broca con
nuevo agujero de
sujeción que aporta
mayor fiabilidad.

Novedad



Placa tipo H



Placa tipo U

**VP15TF
con recubrimiento MIRACLE**

Calidad de alta rigidez para una vida más prolongada de la herramienta

El recubrimiento MIRACLE es ideal para taladrar gracias a su elevada resistencia al recrecimiento del filo. Es apto para el mecanizado de una amplia gama de materiales, desde el acero dulce y el acero aleado hasta el acero inoxidable y la fundición.

Broca de placa intercambiable

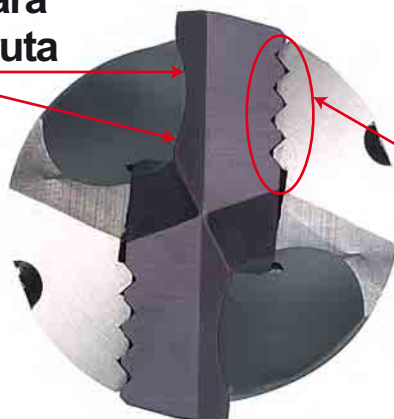
Broca TAW

Características

Diseñada para taladrados de gran precisión

Filo de corte ondulado para un mejor control de la viruta

El diseño en ondas logra un rendimiento de corte periférico y afilado con un sólido punto de corte inicial cerca del centro.




Forma del filo de corte

Geometría de fijación de placa dentada

La estructura en dientes exclusiva de Mitsubishi permite una precisión de fijado elevada y duradera.

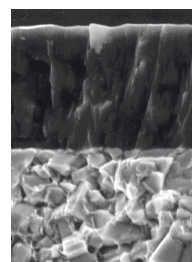
Placas

Nueva broca con nuevo agujero de sujeción que aporta mayor fiabilidad.

Placa tipo U	Placa tipo H
	
Fácil manejo	Fijación

Larga vida de la herramienta debido a la calidad de la placa

- La calidad VP15TF con recubrimiento MIRACLE ofrece una vida de la herramienta excepcional.



VP15TF

Características de VP15TF

El recubrimiento MIRACLE es ideal para taladrar gracias a su elevada resistencia al recrecimiento del filo. Es apto para el mecanizado de una amplia gama de materiales, desde el acero dulce y el acero aleado hasta el acero inoxidable y la fundición.

Fácil manejo

- Las placas se pueden sustituir fácilmente con tan sólo aflojar un único tornillo de ajuste.



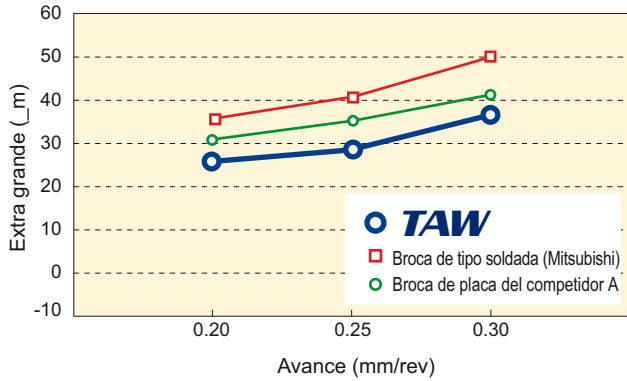
Cuerpos de gran durabilidad

- El tratamiento especial de la superficie de los cuerpos de acero aleado especiales de gran resistencia térmica incrementa la resistencia a la corrosión y a la abrasión.



Rendimiento de corte

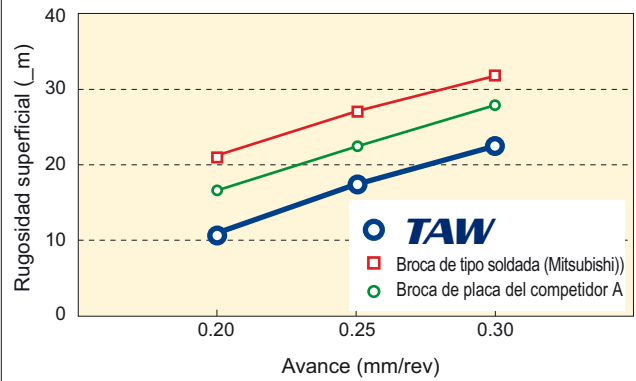
Extra grande



<Condiciones de corte>

Material : DIN C50(150 - 180HB)
 Diá. de la broca : $\varnothing 20(L/D=5)$
 Velocidad de corte: 80m/min
 Refrigeración : Emulsión 10%
 Presión : 0.5MPa(refrigeración interior)

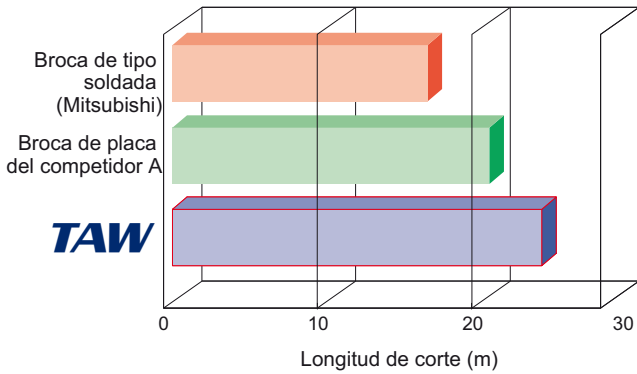
Rugosidad superficial



<Condiciones de corte>

Material : DIN C50(150 - 180HB)
 Diá. de la broca : $\varnothing 20(L/D=5)$
 Velocidad de corte: 80m/min
 Refrigeración: Emulsión 10%
 Presión : 0.5MPa(refrigeración interior)

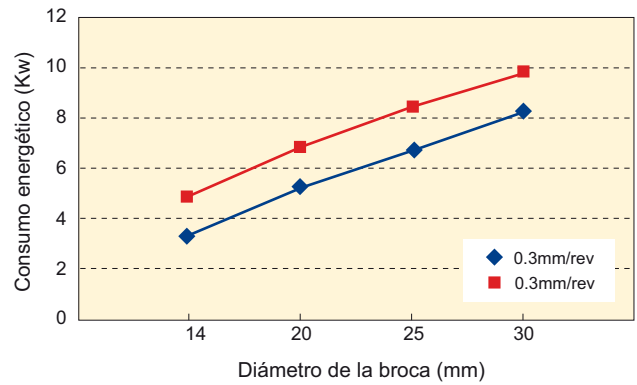
Vida de la placa



<Condiciones de corte>

Material : DIN C50(150 - 180HB)
 Diá. de la broca : $\varnothing 20(L/D=5)$
 Velocidad de corte: 100m/min
 Avance : 0.25mm/rev
 Refrigeración: Emulsión 10%
 Presión : 0.5MPa(refrigeración interior)

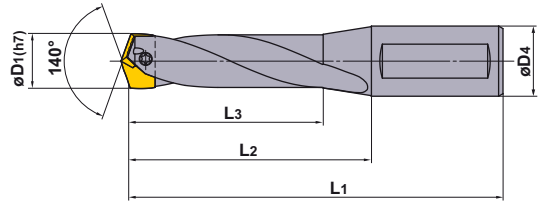
Consumo energético



<Condiciones de corte>

Material : DIN C50 (150 - 180HB)
 Velocidad de corte: 80m/min
 Refrigeración : Emulsión 10%
 Presión : 0.5MPa(refrigeración interior)

(Uso general)



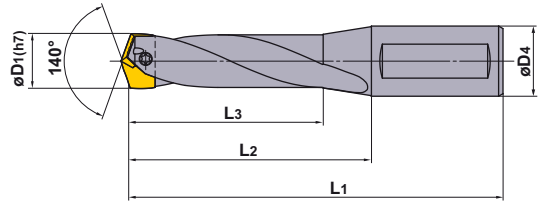
Rango diá. de la broca D1 (mm)	Prof. agujero (l/d)	Herramienta		Placa		Dimensiones (mm)				Tomillo de ajuste	Llave	Plancha	Lubrificante antiadherente		
		Número de pedido	Stock	Diá. broca D1 (mm)	Número de pedido	Stock	L3	L2	L1					D4	
14.0 14.4	3	● TAWSNH1400S16	●	14.0	TAWNH1400T	●	□	51	67	115	16	WS254012T	TKY08D	WPT4405	MK1KS
				14.1	TAWNH1410T	●	□								
				14.2	TAWNH1420T	●	□								
	5	● TAWMNH1400S16	●	14.3	TAWNH1430T	●	□	80	97	145	16	WS254012T	TKY08D	WPT4405	MK1KS
				14.4	TAWNH1440T	●	□								
14.5 15.4	3	● TAWSNH1500S20	●	14.5	TAWNH1450T	●	□	54	75	125	20	WS254013T	TKY08D	WPT4405	MK1KS
				14.6	TAWNH1460T	●	□								
				14.7	TAWNH1470T	●	□								
				14.8	TAWNH1480T	●	□								
				14.9	TAWNH1490T	●	□								
	5	● TAWMNH1500S20	●	15.0	TAWNH1490T	●	□	85	105	155	20	WS254013T	TKY08D	WPT4405	MK1KS
				15.1	TAWNH1510T	●	□								
				15.2	TAWNH1520T	●	□								
				15.3	TAWNH1530T	●	□								
15.5 16.4	3	● TAWSN1600S20	●	15.5	TAWN1550T	★	□	58	80	130	20	WS254014T	TKY08D	WPT4405	MK1KS
				TAWN1550T	●	□									
				15.6	TAWN1560T	★	□								
				TAWN1560T	●	□									
				15.7	TAWN1570T	★	□								
				TAWN1570T	●	□									
				15.8	TAWN1580T	★	□								
	TAWN1580T	●	□												
	5	● TAWMN1600S20	●	15.9	TAWN1590T	★	□	91	115	165	20	WS254014T	TKY08D	WPT4405	MK1KS
				TAWN1590T	●	□									
				16.0	TAWN1600T	★	□								
				TAWN1600T	●	□									
				16.1	TAWN1610T	★	□								
				TAWN1610T	●	□									
16.2				TAWN1620T	★	□									
TAWN1620T	●	□													
16.3	TAWN1630T	★	□												
TAWN1630T	●	□													
16.4	TAWN1640T	★	□												
TAWN1640T	●	□													

(Nota) 1.L1, L2, L3 = Placa tipo H.

Nota) Póngase en contacto con nosotros para aquellas geometrías que no aparezcan en esta información (por ejemplo, bajo pedido se pueden fabricar diámetros y longitudes diferentes y brocas con biselados chaflanados).

Rango diá. de la broca D1 (mm)	Prof. agujero (l/d)	Herramienta		Placa				Dimensiones (mm)							
		Número de pedido	Stock	Diá. broca D1 (mm)	Número de pedido	Stock		L3	L2	L1	D4				
						VP15TF	VP10H					Tornillo de ajuste	Llave	Plancha	Lubrificante antiadherente
16.5 17.4	3	TAWSN1700S20	●	16.5	TAWN1650T	★	<input type="checkbox"/>	61	85	135	20	WS254015T	①TKY08D	WPT4405	MK1KS
					TAWNH1650T	●	<input type="checkbox"/>								
				16.6	TAWN1660T	★	<input type="checkbox"/>								
					TAWNH1660T	●	<input type="checkbox"/>								
				16.7	TAWN1670T	★	<input type="checkbox"/>								
					TAWNH1670T	●	<input type="checkbox"/>								
	16.8	TAWN1680T	★	<input type="checkbox"/>											
		TAWNH1680T	●	<input type="checkbox"/>											
	16.9	TAWN1690T	★	<input type="checkbox"/>											
		TAWNH1690T	●	<input type="checkbox"/>											
	17.0	TAWN1700T	★	<input type="checkbox"/>											
		TAWNH1700T	●	<input type="checkbox"/>											
	17.1	TAWN1710T	★	<input type="checkbox"/>											
		TAWNH1710T	●	<input type="checkbox"/>											
17.5 18.4	3	TAWSN1800S20	●	17.5	TAWN1750T	★	<input type="checkbox"/>	65	90	140	20	WS254016T	①TKY08D	WPT4405	MK1KS
					TAWNH1750T	●	<input type="checkbox"/>								
				17.6	TAWN1760T	★	<input type="checkbox"/>								
					TAWNH1760T	●	<input type="checkbox"/>								
				17.7	TAWN1770T	★	<input type="checkbox"/>								
					TAWNH1770T	●	<input type="checkbox"/>								
	17.8	TAWN1780T	★	<input type="checkbox"/>											
		TAWNH1780T	●	<input type="checkbox"/>											
	17.9	TAWN1790T	★	<input type="checkbox"/>											
		TAWNH1790T	●	<input type="checkbox"/>											
	18.0	TAWN1800T	★	<input type="checkbox"/>											
		TAWNH1800T	●	<input type="checkbox"/>											
	18.1	TAWN1810T	★	<input type="checkbox"/>											
		TAWNH1810T	●	<input type="checkbox"/>											
18.5 19.4	3	TAWSN1900S25	●	18.5	TAWN1850T	★	<input type="checkbox"/>	68	99	155	25	WS304517T	②TKY10T	WPT4405	MK1KS
					TAWNH1850T	●	<input type="checkbox"/>								
				18.6	TAWN1860T	★	<input type="checkbox"/>								
					TAWNH1860T	●	<input type="checkbox"/>								
				18.7	TAWN1870T	★	<input type="checkbox"/>								
					TAWNH1870T	●	<input type="checkbox"/>								
	18.8	TAWN1880T	★	<input type="checkbox"/>											
		TAWNH1880T	●	<input type="checkbox"/>											
	18.9	TAWN1890T	★	<input type="checkbox"/>											
		TAWNH1890T	●	<input type="checkbox"/>											
	19.0	TAWN1900T	★	<input type="checkbox"/>											
		TAWNH1900T	●	<input type="checkbox"/>											
	19.1	TAWN1910T	★	<input type="checkbox"/>											
		TAWNH1910T	●	<input type="checkbox"/>											
5	TAWMN1900S25	●	19.2	TAWN1920T	★	<input type="checkbox"/>	107	134	190	25	WS304517T	②TKY10T	WPT4405	MK1KS	
				TAWNH1920T	●	<input type="checkbox"/>									
			19.3	TAWN1930T	★	<input type="checkbox"/>									
				TAWNH1930T	●	<input type="checkbox"/>									
			19.4	TAWN1940T	★	<input type="checkbox"/>									
				TAWNH1940T	●	<input type="checkbox"/>									

(Uso general)



Rango diá. de la broca D1 (mm)	Prof. agujero (l/d)	Herramienta		Placa		Dimensiones (mm)				Tornillo de ajuste	Llave	Plancha	Lubrificante antiadherente			
		Número de pedido	Stock	Diá. broca D1 (mm)	Número de pedido	Stock	L3	L2	L1					D4		
19.5 20.4	3	TAWSN2000S25	●	19.5	TAWN1950T	★	<input type="checkbox"/>	72	99	155	25	WS304518T	TKY10T	WPT4405	MK1KS	
					TAWNH1950T	●	<input type="checkbox"/>									
				19.6	TAWN1960T	★	<input type="checkbox"/>									
					TAWNH1960T	●	<input type="checkbox"/>									
				19.7	TAWN1970T	★	<input type="checkbox"/>									
					TAWNH1970T	●	<input type="checkbox"/>									
				19.8	TAWN1980T	★	<input type="checkbox"/>									
		TAWNH1980T	●	<input type="checkbox"/>												
		19.9	TAWN1990T	★	<input type="checkbox"/>											
			TAWNH1990T	●	<input type="checkbox"/>											
		20.0	TAWN2000T	★	<input type="checkbox"/>	113	139	195	25	WS304518T	TKY10T	WPT4405	MK1KS			
			TAWNH2000T	●	<input type="checkbox"/>											
		20.1	TAWN2010T	<input type="checkbox"/>	<input type="checkbox"/>											
			TAWNH2010T	<input type="checkbox"/>	<input type="checkbox"/>											
	20.2	TAWN2020T	<input type="checkbox"/>	<input type="checkbox"/>												
		TAWNH2020T	<input type="checkbox"/>	<input type="checkbox"/>												
	20.3	TAWN2030T	<input type="checkbox"/>	<input type="checkbox"/>												
		TAWNH2030T	<input type="checkbox"/>	<input type="checkbox"/>												
	20.4	TAWN2040T	<input type="checkbox"/>	<input type="checkbox"/>												
		TAWNH2040T	<input type="checkbox"/>	<input type="checkbox"/>												
20.5 21.4	3	TAWSN2100S25	●	20.5	TAWN2050T	★	<input type="checkbox"/>	75	99	155	25	WS304518T	TKY10T	WPT4405	MK1KS	
					TAWNH2050T	●	<input type="checkbox"/>									
				20.6	TAWN2060T	<input type="checkbox"/>	<input type="checkbox"/>									
					TAWNH2060T	<input type="checkbox"/>	<input type="checkbox"/>									
				20.7	TAWN2070T	<input type="checkbox"/>	<input type="checkbox"/>									
					TAWNH2070T	<input type="checkbox"/>	<input type="checkbox"/>									
				20.8	TAWN2080T	<input type="checkbox"/>	<input type="checkbox"/>									
		TAWNH2080T	<input type="checkbox"/>	<input type="checkbox"/>												
		20.9	TAWN2090T	<input type="checkbox"/>	<input type="checkbox"/>											
			TAWNH2090T	<input type="checkbox"/>	<input type="checkbox"/>											
		21.0	TAWN2100T	★	<input type="checkbox"/>	118	139	195	25	WS304518T	TKY10T	WPT4405	MK1KS			
			TAWNH2100T	●	<input type="checkbox"/>											
		21.1	TAWN2110T	<input type="checkbox"/>	<input type="checkbox"/>											
			TAWNH2110T	<input type="checkbox"/>	<input type="checkbox"/>											
	21.2	TAWN2120T	<input type="checkbox"/>	<input type="checkbox"/>												
		TAWNH2120T	<input type="checkbox"/>	<input type="checkbox"/>												
	21.3	TAWN2130T	<input type="checkbox"/>	<input type="checkbox"/>												
		TAWNH2130T	<input type="checkbox"/>	<input type="checkbox"/>												
	21.4	TAWN2140T	<input type="checkbox"/>	<input type="checkbox"/>												
		TAWNH2140T	<input type="checkbox"/>	<input type="checkbox"/>												
21.5 22.4	3	TAWSN2200S25 TAWMN2200S25	●	21.5	TAWN2150T	★	<input type="checkbox"/>	79.3	104.3	160.3	25	WS355520T	TKY15T	WPT4405	MK1KS	
						TAWNH2150T	●									<input type="checkbox"/>
				21.6	TAWN2160T	<input type="checkbox"/>	<input type="checkbox"/>									
						TAWNH2160T	<input type="checkbox"/>									<input type="checkbox"/>
				21.7	TAWN2170T	<input type="checkbox"/>	<input type="checkbox"/>									
						TAWNH2170T	<input type="checkbox"/>									<input type="checkbox"/>
				21.8	TAWN2180T	<input type="checkbox"/>	<input type="checkbox"/>									
		TAWNH2180T	<input type="checkbox"/>	<input type="checkbox"/>												
	21.9	TAWN2190T	<input type="checkbox"/>	<input type="checkbox"/>												
		TAWNH2190T	<input type="checkbox"/>	<input type="checkbox"/>												

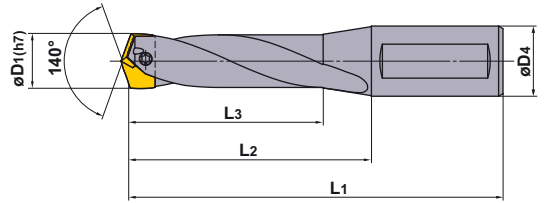
(Nota) 1.L1, L2, L3 = Placa tipo H.

(Nota) Póngase en contacto con nosotros para aquellas geometrías que no aparezcan en esta información (por ejemplo, bajo pedido se pueden fabricar diámetros y longitudes diferentes y brocas con biselados chaflanados).

● : En inventario. ★ : Stock en Japón □ : No hay en stock, fabricado únicamente bajo pedido.

Rango diámetro de la broca D1 (mm)	Prof. agujero (l/d)	Herramienta		Placa				Dimensiones (mm)								
		Número de pedido	Stock	Diámetro D1 (mm)	Número de pedido	Stock		L3	L2	L1	D4					
						VP15TF	VP10H					Tomillo de ajuste	Llave	Plancha	Lubrificante antiadherente	
21.5 22.4	5	TAWSN2200S25 TAWMN2200S25	●	22.0	TAWN2200T	★	<input type="checkbox"/>	124.3	144.3	200.3	25	WS355520T	TKY15T	WPT4405	MK1KS	
					TAWNH2200T	●	<input type="checkbox"/>									
				22.1	TAWN2210T	<input type="checkbox"/>	<input type="checkbox"/>									
					TAWNH2210T	<input type="checkbox"/>	<input type="checkbox"/>									
				22.2	TAWN2220T	<input type="checkbox"/>	<input type="checkbox"/>									
					TAWNH2220T	<input type="checkbox"/>	<input type="checkbox"/>									
				22.3	TAWN2230T	<input type="checkbox"/>	<input type="checkbox"/>									
	TAWNH2230T	<input type="checkbox"/>	<input type="checkbox"/>													
				22.4	TAWN2240T	<input type="checkbox"/>	<input type="checkbox"/>									
					TAWNH2240T	<input type="checkbox"/>	<input type="checkbox"/>									
22.5 23.4	3	TAWSN2300S25	●	22.5	TAWN2250T	★	<input type="checkbox"/>	82.3	104.3	160.3	25	WS355521T	TKY15T	WPT4405	MK1KS	
					TAWNH2250T	●	<input type="checkbox"/>									
				22.6	TAWN2260T	<input type="checkbox"/>	<input type="checkbox"/>									
					TAWNH2260T	<input type="checkbox"/>	<input type="checkbox"/>									
				22.7	TAWN2270T	<input type="checkbox"/>	<input type="checkbox"/>									
					TAWNH2270T	<input type="checkbox"/>	<input type="checkbox"/>									
	22.8	TAWN2280T	<input type="checkbox"/>	<input type="checkbox"/>												
		TAWNH2280T	<input type="checkbox"/>	<input type="checkbox"/>												
					22.9	TAWN2290T	<input type="checkbox"/>	<input type="checkbox"/>								
						TAWNH2290T	<input type="checkbox"/>	<input type="checkbox"/>								
		5	TAWMN2300S25	●	23.0	TAWN2300T	★	<input type="checkbox"/>	129.3	154.3	210.3	25	WS355521T	TKY15T	WPT4405	MK1KS
					TAWNH2300T	●	<input type="checkbox"/>									
	23.1				TAWN2310T	<input type="checkbox"/>	<input type="checkbox"/>									
					TAWNH2310T	<input type="checkbox"/>	<input type="checkbox"/>									
23.2	TAWN2320T				<input type="checkbox"/>	<input type="checkbox"/>										
	TAWNH2320T				<input type="checkbox"/>	<input type="checkbox"/>										
23.3	TAWN2330T				<input type="checkbox"/>	<input type="checkbox"/>										
	TAWNH2330T				<input type="checkbox"/>	<input type="checkbox"/>										
				23.4	TAWN2340T	<input type="checkbox"/>	<input type="checkbox"/>									
					TAWNH2340T	<input type="checkbox"/>	<input type="checkbox"/>									
23.5 24.4	3	TAWSN2400S32	●	23.5	TAWN2350T	★	<input type="checkbox"/>	86.3	110.3	170.3	32	WS355521T	TKY15T	WPT4405	MK1KS	
					TAWNH2350T	●	<input type="checkbox"/>									
				23.6	TAWN2360T	<input type="checkbox"/>	<input type="checkbox"/>									
					TAWNH2360T	<input type="checkbox"/>	<input type="checkbox"/>									
				23.7	TAWN2370T	<input type="checkbox"/>	<input type="checkbox"/>									
					TAWNH2370T	<input type="checkbox"/>	<input type="checkbox"/>									
	23.8	TAWN2380T	<input type="checkbox"/>	<input type="checkbox"/>												
		TAWNH2380T	<input type="checkbox"/>	<input type="checkbox"/>												
					23.9	TAWN2390T	<input type="checkbox"/>	<input type="checkbox"/>								
						TAWNH2390T	<input type="checkbox"/>	<input type="checkbox"/>								
		5	TAWMN2400S32	●	24.0	TAWN2400T	★	<input type="checkbox"/>	135.3	160.3	220.3	32	WS355521T	TKY15T	WPT4405	MK1KS
					TAWNH2400T	●	<input type="checkbox"/>									
	24.1				TAWN2410T	<input type="checkbox"/>	<input type="checkbox"/>									
					TAWNH2410T	<input type="checkbox"/>	<input type="checkbox"/>									
24.2	TAWN2420T				<input type="checkbox"/>	<input type="checkbox"/>										
	TAWNH2420T				<input type="checkbox"/>	<input type="checkbox"/>										
24.3	TAWN2430T				<input type="checkbox"/>	<input type="checkbox"/>										
	TAWNH2430T				<input type="checkbox"/>	<input type="checkbox"/>										
				24.4	TAWN2440T	<input type="checkbox"/>	<input type="checkbox"/>									
					TAWNH2440T	<input type="checkbox"/>	<input type="checkbox"/>									
24.5 25.4	3	TAWSN2500S32 TAWMN2500S32	●	24.5	TAWN2450T	★	<input type="checkbox"/>	88.6	110.6	170.3	32	WS406023T	TKY25T	WPT4405	MK1KS	
					TAWNH2450T	●	<input type="checkbox"/>									
				24.6	TAWN2460T	<input type="checkbox"/>	<input type="checkbox"/>									
					TAWNH2460T	<input type="checkbox"/>	<input type="checkbox"/>									
				24.7	TAWN2470T	<input type="checkbox"/>	<input type="checkbox"/>									
					TAWNH2470T	<input type="checkbox"/>	<input type="checkbox"/>									
				24.8	TAWN2480T	<input type="checkbox"/>	<input type="checkbox"/>									
	TAWNH2480T	<input type="checkbox"/>	<input type="checkbox"/>													
				24.9	TAWN2490T	<input type="checkbox"/>	<input type="checkbox"/>									
					TAWNH2490T	<input type="checkbox"/>	<input type="checkbox"/>									

(Uso general)



Rango diá. de la broca D1 (mm)	Prof. agujero (l/d)	Herramienta		Placa		Dimensiones (mm)				Tornillo de ajuste	Llave	Plancha	Lubrificante antiadherente		
		Número de pedido	Stock	Diá. broca D1 (mm)	Número de pedido	Stock	L3	L2	L1					D4	
24.5 25.4	5	TAWSN2500S32 TAWMN2500S32	●	25.0	TAWN2500T	★	<input type="checkbox"/>	140.6	165.6	225.6	32	WS406023T	TKY25T	WPT4405	MK1KS
					TAWNH2500T	●	<input type="checkbox"/>								
				25.1	TAWN2510T	<input type="checkbox"/>	<input type="checkbox"/>								
					TAWNH2510T	<input type="checkbox"/>	<input type="checkbox"/>								
				25.2	TAWN2520T	<input type="checkbox"/>	<input type="checkbox"/>								
					TAWNH2520T	<input type="checkbox"/>	<input type="checkbox"/>								
				25.3	TAWN2530T	<input type="checkbox"/>	<input type="checkbox"/>								
	TAWNH2530T	<input type="checkbox"/>	<input type="checkbox"/>												
				25.4	TAWN2540T	<input type="checkbox"/>	<input type="checkbox"/>								
					TAWNH2540T	<input type="checkbox"/>	<input type="checkbox"/>								
25.5 26.4	3	TAWSN2600S32	●	25.5	TAWN2550T	★	<input type="checkbox"/>	92.6	115.6	175.6	32	WS406024T	TKY25T	WPT4405	MK1KS
					TAWNH2550T	●	<input type="checkbox"/>								
				25.6	TAWN2560T	<input type="checkbox"/>	<input type="checkbox"/>								
					TAWNH2560T	<input type="checkbox"/>	<input type="checkbox"/>								
				25.7	TAWN2570T	<input type="checkbox"/>	<input type="checkbox"/>								
		TAWNH2570T	<input type="checkbox"/>	<input type="checkbox"/>											
					25.8	TAWN2580T	<input type="checkbox"/>	<input type="checkbox"/>							
						TAWNH2580T	<input type="checkbox"/>	<input type="checkbox"/>							
					25.9	TAWN2590T	<input type="checkbox"/>	<input type="checkbox"/>							
						TAWNH2590T	<input type="checkbox"/>	<input type="checkbox"/>							
	5	TAWMN2600S32	●	26.0	TAWN2600T	★	<input type="checkbox"/>	146.6	170.6	230.6	32	WS406024T	TKY25T	WPT4405	MK1KS
				TAWNH2600T	●	<input type="checkbox"/>									
26.1				TAWN2610T	<input type="checkbox"/>	<input type="checkbox"/>									
				TAWNH2610T	<input type="checkbox"/>	<input type="checkbox"/>									
26.2				TAWN2620T	<input type="checkbox"/>	<input type="checkbox"/>									
	TAWNH2620T	<input type="checkbox"/>	<input type="checkbox"/>												
				26.3	TAWN2630T	<input type="checkbox"/>	<input type="checkbox"/>								
					TAWNH2630T	<input type="checkbox"/>	<input type="checkbox"/>								
				26.4	TAWN2640T	<input type="checkbox"/>	<input type="checkbox"/>								
					TAWNH2640T	<input type="checkbox"/>	<input type="checkbox"/>								
26.5 27.4	3	TAWSN2700S32	●	26.5	TAWN2650T	★	<input type="checkbox"/>	94.6	115.6	175.6	32	WS406024T	TKY25T	WPT4405	MK1KS
					TAWNH2650T	●	<input type="checkbox"/>								
				26.6	TAWN2660T	<input type="checkbox"/>	<input type="checkbox"/>								
					TAWNH2660T	<input type="checkbox"/>	<input type="checkbox"/>								
				26.7	TAWN2670T	<input type="checkbox"/>	<input type="checkbox"/>								
		TAWNH2670T	<input type="checkbox"/>	<input type="checkbox"/>											
					26.8	TAWN2680T	<input type="checkbox"/>	<input type="checkbox"/>							
						TAWNH2680T	<input type="checkbox"/>	<input type="checkbox"/>							
					26.9	TAWN2690T	<input type="checkbox"/>	<input type="checkbox"/>							
						TAWNH2690T	<input type="checkbox"/>	<input type="checkbox"/>							
	5	TAWMN2700S32	●	27.0	TAWN2700T	★	<input type="checkbox"/>	151.6	175.6	235.6	32	WS406024T	TKY25T	WPT4405	MK1KS
				TAWNH2700T	●	<input type="checkbox"/>									
27.1				TAWN2710T	<input type="checkbox"/>	<input type="checkbox"/>									
				TAWNH2710T	<input type="checkbox"/>	<input type="checkbox"/>									
27.2				TAWN2720T	<input type="checkbox"/>	<input type="checkbox"/>									
	TAWNH2720T	<input type="checkbox"/>	<input type="checkbox"/>												
				27.3	TAWN2730T	<input type="checkbox"/>	<input type="checkbox"/>								
					TAWNH2730T	<input type="checkbox"/>	<input type="checkbox"/>								
				27.4	TAWN2740T	<input type="checkbox"/>	<input type="checkbox"/>								
					TAWNH2740T	<input type="checkbox"/>	<input type="checkbox"/>								

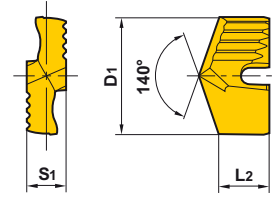
(Nota) 1.L1, L2, L3 = Placa tipo H.

(Nota) Póngase en contacto con nosotros para aquellas geometrías que no aparezcan en esta información (por ejemplo, bajo pedido se pueden fabricar diámetros y longitudes diferentes y brocas con biselados chaflanados).

● : En inventario. ★ : Stock en Japón □ : No hay en stock, fabricado únicamente bajo pedido.

Rango diámetro de la broca D1 (mm)	Prof. agujero (l/d)	Herramienta		Placa				Dimensiones (mm)				 Tornillo de ajuste	 Llave	 Plancha	 Lubrificante antiadherente
		Número de pedido	Stock	Diámetro broca D1 (mm)	Número de pedido	Stock		L3	L2	L1	D4				
						VP15TF	VP10H								
27.5 28.4	3	TAWSN2800S32	●	27.5	TAWN2750T	★	<input type="checkbox"/>	97.2	120.2	180.2	32	WS508026T	TKY27T	WPT4405	MK1KS
					TAWNH2750T	●	<input type="checkbox"/>								
				27.6	TAWN2760T	<input type="checkbox"/>	<input type="checkbox"/>								
					TAWNH2760T	<input type="checkbox"/>	<input type="checkbox"/>								
				27.7	TAWN2770T	<input type="checkbox"/>	<input type="checkbox"/>								
					TAWNH2770T	<input type="checkbox"/>	<input type="checkbox"/>								
				27.8	TAWN2780T	<input type="checkbox"/>	<input type="checkbox"/>								
		TAWNH2780T	<input type="checkbox"/>	<input type="checkbox"/>											
	27.9	TAWN2790T	<input type="checkbox"/>	<input type="checkbox"/>											
		TAWNH2790T	<input type="checkbox"/>	<input type="checkbox"/>											
	28.0	TAWN2800T	★	<input type="checkbox"/>	157.2	180.2	240.2	32	WS508026T	TKY27T	WPT4405	MK1KS			
		TAWNH2800T	●	<input type="checkbox"/>											
	28.1	TAWN2810T	<input type="checkbox"/>	<input type="checkbox"/>											
		TAWNH2810T	<input type="checkbox"/>	<input type="checkbox"/>											
28.2	TAWN2820T	<input type="checkbox"/>	<input type="checkbox"/>												
	TAWNH2820T	<input type="checkbox"/>	<input type="checkbox"/>												
28.3	TAWN2830T	<input type="checkbox"/>	<input type="checkbox"/>												
	TAWNH2830T	<input type="checkbox"/>	<input type="checkbox"/>												
28.4	TAWN2840T	<input type="checkbox"/>	<input type="checkbox"/>												
	TAWNH2840T	<input type="checkbox"/>	<input type="checkbox"/>												
28.5 29.4	3	TAWSN2900S32	●	28.5	TAWN2850T	★	<input type="checkbox"/>	100.2	125.2	185.2	32	WS508027T	TKY27T	WPT4405	MK1KS
					TAWNH2850T	●	<input type="checkbox"/>								
				28.6	TAWN2860T	<input type="checkbox"/>	<input type="checkbox"/>								
					TAWNH2860T	<input type="checkbox"/>	<input type="checkbox"/>								
				28.7	TAWN2870T	<input type="checkbox"/>	<input type="checkbox"/>								
					TAWNH2870T	<input type="checkbox"/>	<input type="checkbox"/>								
				28.8	TAWN2880T	<input type="checkbox"/>	<input type="checkbox"/>								
		TAWNH2880T	<input type="checkbox"/>	<input type="checkbox"/>											
	28.9	TAWN2890T	<input type="checkbox"/>	<input type="checkbox"/>											
		TAWNH2890T	<input type="checkbox"/>	<input type="checkbox"/>											
	29.0	TAWN2900T	★	<input type="checkbox"/>	162.2	185.2	245.2	32	WS508027T	TKY27T	WPT4405	MK1KS			
		TAWNH2900T	●	<input type="checkbox"/>											
	29.1	TAWN2910T	<input type="checkbox"/>	<input type="checkbox"/>											
		TAWNH2910T	<input type="checkbox"/>	<input type="checkbox"/>											
29.2	TAWN2920T	<input type="checkbox"/>	<input type="checkbox"/>												
	TAWNH2920T	<input type="checkbox"/>	<input type="checkbox"/>												
29.3	TAWN2930T	<input type="checkbox"/>	<input type="checkbox"/>												
	TAWNH2930T	<input type="checkbox"/>	<input type="checkbox"/>												
29.4	TAWN2940T	<input type="checkbox"/>	<input type="checkbox"/>												
	TAWNH2940T	<input type="checkbox"/>	<input type="checkbox"/>												
29.5 30.4	3	TAWSN3000S32	●	29.5	TAWN2950T	★	<input type="checkbox"/>	104.2	125.2	185.2	32	WS508027T	TKY27T	WPT4405	MK1KS
					TAWNH2950T	●	<input type="checkbox"/>								
				29.6	TAWN2960T	<input type="checkbox"/>	<input type="checkbox"/>								
					TAWNH2960T	<input type="checkbox"/>	<input type="checkbox"/>								
				29.7	TAWN2970T	<input type="checkbox"/>	<input type="checkbox"/>								
					TAWNH2970T	<input type="checkbox"/>	<input type="checkbox"/>								
				29.8	TAWN2980T	<input type="checkbox"/>	<input type="checkbox"/>								
		TAWNH2980T	<input type="checkbox"/>	<input type="checkbox"/>											
	29.9	TAWN2990T	<input type="checkbox"/>	<input type="checkbox"/>											
		TAWNH2990T	<input type="checkbox"/>	<input type="checkbox"/>											
	30.0	TAWN3000T	★	<input type="checkbox"/>	167.2	195.2	255.2	32	WS508027T	TKY27T	WPT4405	MK1KS			
		TAWNH3000T	●	<input type="checkbox"/>											
	30.1	TAWN3010T	<input type="checkbox"/>	<input type="checkbox"/>											
		TAWNH3010T	<input type="checkbox"/>	<input type="checkbox"/>											
30.2	TAWN3020T	<input type="checkbox"/>	<input type="checkbox"/>												
	TAWNH3020T	<input type="checkbox"/>	<input type="checkbox"/>												
30.3	TAWN3030T	<input type="checkbox"/>	<input type="checkbox"/>												
	TAWNH3030T	<input type="checkbox"/>	<input type="checkbox"/>												
30.4	TAWN3040T	<input type="checkbox"/>	<input type="checkbox"/>												
	TAWNH3040T	<input type="checkbox"/>	<input type="checkbox"/>												

Placa tipo U



Número de pedido	Stock		Dimensiones (mm)			Herramienta aplicable	
	VP15TF	VP10H	D1	L2	S1		
TAWN1550T	★	<input type="checkbox"/>	15.5	7.9	6.0	TAWSN 1600S20	
1560T	★	<input type="checkbox"/>	15.6	7.9	6.0		
1570T	★	<input type="checkbox"/>	15.7	7.9	6.0		
1580T	★	<input type="checkbox"/>	15.8	7.9	6.0		
1590T	★	<input type="checkbox"/>	15.9	7.9	6.0		
1600T	★	<input type="checkbox"/>	16.0	7.8	6.0		TAWMN 1600S20
1610T	★	<input type="checkbox"/>	16.1	7.8	6.0		
1620T	★	<input type="checkbox"/>	16.2	7.8	6.0		
1630T	★	<input type="checkbox"/>	16.3	7.8	6.0		
1640T	★	<input type="checkbox"/>	16.4	7.8	6.0		
1650T	★	<input type="checkbox"/>	16.5	7.7	6.0	TAWSN 1700S20	
1660T	★	<input type="checkbox"/>	16.6	7.7	6.0		
1670T	★	<input type="checkbox"/>	16.7	7.7	6.0		
1680T	★	<input type="checkbox"/>	16.8	7.7	6.0		
1690T	★	<input type="checkbox"/>	16.9	7.7	6.0		
1700T	★	<input type="checkbox"/>	17.0	7.6	6.0		TAWMN 1700S20
1710T	★	<input type="checkbox"/>	17.1	7.6	6.0		
1720T	★	<input type="checkbox"/>	17.2	7.6	6.0		
1730T	★	<input type="checkbox"/>	17.3	7.6	6.0		
1740T	★	<input type="checkbox"/>	17.4	7.6	6.0		
1750T	★	<input type="checkbox"/>	17.5	7.5	6.0	TAWSN 1800S20	
1760T	★	<input type="checkbox"/>	17.6	7.5	6.0		
1770T	★	<input type="checkbox"/>	17.7	7.5	6.0		
1780T	★	<input type="checkbox"/>	17.8	7.5	6.0		
1790T	★	<input type="checkbox"/>	17.9	7.5	6.0		
1800T	★	<input type="checkbox"/>	18.0	7.4	6.0		TAWMN 1800S20
1810T	★	<input type="checkbox"/>	18.1	7.4	6.0		
1820T	★	<input type="checkbox"/>	18.2	7.4	6.0		
1830T	★	<input type="checkbox"/>	18.3	7.4	6.0		
1840T	★	<input type="checkbox"/>	18.4	7.4	6.0		
1850T	★	<input type="checkbox"/>	18.5	9.3	7.0	TAWSN 1900S25	
1860T	★	<input type="checkbox"/>	18.6	9.3	7.0		
1870T	★	<input type="checkbox"/>	18.7	9.3	7.0		
1880T	★	<input type="checkbox"/>	18.8	9.3	7.0		
1890T	★	<input type="checkbox"/>	18.9	9.3	7.0		
1900T	★	<input type="checkbox"/>	19.0	9.2	7.0		TAWMN 1900S25
1910T	★	<input type="checkbox"/>	19.1	9.2	7.0		
1920T	★	<input type="checkbox"/>	19.2	9.2	7.0		
1930T	★	<input type="checkbox"/>	19.3	9.2	7.0		
1940T	★	<input type="checkbox"/>	19.4	9.2	7.0		

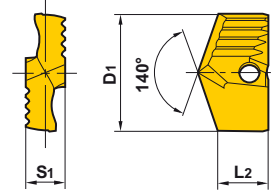
Número de pedido	Stock		Dimensiones (mm)			Herramienta aplicable	
	VP15TF	VP10H	D1	L2	S1		
TAWN1950T	★	<input type="checkbox"/>	19.5	9.1	7.0	TAWSN 2000S25	
1960T	★	<input type="checkbox"/>	19.6	9.1	7.0		
1970T	★	<input type="checkbox"/>	19.7	9.1	7.0		
1980T	★	<input type="checkbox"/>	19.8	9.1	7.0		
1990T	★	<input type="checkbox"/>	19.9	9.1	7.0		
2000T	★	<input type="checkbox"/>	20.0	9.0	7.0		TAWMN 2000S25
2010T	<input type="checkbox"/>	<input type="checkbox"/>	20.1	9.0	7.0		
2020T	<input type="checkbox"/>	<input type="checkbox"/>	20.2	9.0	7.0		
2030T	<input type="checkbox"/>	<input type="checkbox"/>	20.3	9.0	7.0		
2040T	<input type="checkbox"/>	<input type="checkbox"/>	20.4	9.0	7.0		
2050T	★	<input type="checkbox"/>	20.5	8.9	7.0	TAWSN 2100S25	
2060T	<input type="checkbox"/>	<input type="checkbox"/>	20.6	8.9	7.0		
2070T	<input type="checkbox"/>	<input type="checkbox"/>	20.7	8.9	7.0		
2080T	<input type="checkbox"/>	<input type="checkbox"/>	20.8	8.9	7.0		
2090T	<input type="checkbox"/>	<input type="checkbox"/>	20.9	8.9	7.0		
2100T	★	<input type="checkbox"/>	21.0	8.8	7.0		TAWMN 2100S25
2110T	<input type="checkbox"/>	<input type="checkbox"/>	21.1	8.8	7.0		
2120T	<input type="checkbox"/>	<input type="checkbox"/>	21.2	8.8	7.0		
2130T	<input type="checkbox"/>	<input type="checkbox"/>	21.3	8.8	7.0		
2140T	<input type="checkbox"/>	<input type="checkbox"/>	21.4	8.8	7.0		
2150T	★	<input type="checkbox"/>	21.5	10.3	8.0	TAWSN 2200S25	
2160T	<input type="checkbox"/>	<input type="checkbox"/>	21.6	10.3	8.0		
2170T	<input type="checkbox"/>	<input type="checkbox"/>	21.7	10.3	8.0		
2180T	<input type="checkbox"/>	<input type="checkbox"/>	21.8	10.3	8.0		
2190T	<input type="checkbox"/>	<input type="checkbox"/>	21.9	10.3	8.0		
2200T	★	<input type="checkbox"/>	22.0	10.2	8.0		TAWMN 2200S25
2210T	<input type="checkbox"/>	<input type="checkbox"/>	22.1	10.2	8.0		
2220T	<input type="checkbox"/>	<input type="checkbox"/>	22.2	10.2	8.0		
2230T	<input type="checkbox"/>	<input type="checkbox"/>	22.3	10.2	8.0		
2240T	<input type="checkbox"/>	<input type="checkbox"/>	22.4	10.2	8.0		
2250T	★	<input type="checkbox"/>	22.5	10.1	8.0	TAWSN 2300S25	
2260T	<input type="checkbox"/>	<input type="checkbox"/>	22.6	10.1	8.0		
2270T	<input type="checkbox"/>	<input type="checkbox"/>	22.7	10.1	8.0		
2280T	<input type="checkbox"/>	<input type="checkbox"/>	22.8	10.1	8.0		
2290T	<input type="checkbox"/>	<input type="checkbox"/>	22.9	10.1	8.0		
2300T	★	<input type="checkbox"/>	23.0	10.0	8.0		TAWMN 2300S25
2310T	<input type="checkbox"/>	<input type="checkbox"/>	23.1	10.0	8.0		
2320T	<input type="checkbox"/>	<input type="checkbox"/>	23.2	10.0	8.0		
2330T	<input type="checkbox"/>	<input type="checkbox"/>	23.3	10.0	8.0		
2340T	<input type="checkbox"/>	<input type="checkbox"/>	23.4	10.0	8.0		

Número de pedido	Stock		Dimensiones (mm)			Herramienta aplicable
	VP15TF	VP10H	D1	L2	S1	
TAWN2350T	★	<input type="checkbox"/>	23.5	9.9	8.0	TAWSN 2400S32 TAWMN 2400S32
2360T	<input type="checkbox"/>	<input type="checkbox"/>	23.6	9.9	8.0	
2370T	<input type="checkbox"/>	<input type="checkbox"/>	23.7	9.9	8.0	
2380T	<input type="checkbox"/>	<input type="checkbox"/>	23.8	9.9	8.0	
2390T	<input type="checkbox"/>	<input type="checkbox"/>	23.9	9.9	8.0	
2400T	★	<input type="checkbox"/>	24.0	9.8	8.0	
2410T	<input type="checkbox"/>	<input type="checkbox"/>	24.1	9.8	8.0	
2420T	<input type="checkbox"/>	<input type="checkbox"/>	24.2	9.8	8.0	
2430T	<input type="checkbox"/>	<input type="checkbox"/>	24.3	9.8	8.0	
2440T	<input type="checkbox"/>	<input type="checkbox"/>	24.4	9.8	8.0	
2450T	★	<input type="checkbox"/>	24.5	11.1	9.0	TAWSN 2500S32 TAWMN 2500S32
2460T	<input type="checkbox"/>	<input type="checkbox"/>	24.6	11.1	9.0	
2470T	<input type="checkbox"/>	<input type="checkbox"/>	24.7	11.1	9.0	
2480T	<input type="checkbox"/>	<input type="checkbox"/>	24.8	11.1	9.0	
2490T	<input type="checkbox"/>	<input type="checkbox"/>	24.9	11.1	9.0	
2500T	★	<input type="checkbox"/>	25.0	11.0	9.0	
2510T	<input type="checkbox"/>	<input type="checkbox"/>	25.1	11.0	9.0	
2520T	<input type="checkbox"/>	<input type="checkbox"/>	25.2	11.0	9.0	
2530T	<input type="checkbox"/>	<input type="checkbox"/>	25.3	11.0	9.0	
2540T	<input type="checkbox"/>	<input type="checkbox"/>	25.4	11.0	9.0	
2550T	★	<input type="checkbox"/>	25.5	10.9	9.0	TAWSN 2600S32 TAWMN 2600S32
2560T	<input type="checkbox"/>	<input type="checkbox"/>	25.6	10.9	9.0	
2570T	<input type="checkbox"/>	<input type="checkbox"/>	25.7	10.9	9.0	
2580T	<input type="checkbox"/>	<input type="checkbox"/>	25.8	10.9	9.0	
2590T	<input type="checkbox"/>	<input type="checkbox"/>	25.9	10.9	9.0	
2600T	★	<input type="checkbox"/>	26.0	10.8	9.0	
2610T	<input type="checkbox"/>	<input type="checkbox"/>	26.1	10.8	9.0	
2620T	<input type="checkbox"/>	<input type="checkbox"/>	26.2	10.8	9.0	
2630T	<input type="checkbox"/>	<input type="checkbox"/>	26.3	10.8	9.0	
2640T	<input type="checkbox"/>	<input type="checkbox"/>	26.4	10.8	9.0	
2650T	★	<input type="checkbox"/>	26.5	10.7	9.0	TAWSN 2700S32 TAWMN 2700S32
2660T	<input type="checkbox"/>	<input type="checkbox"/>	26.6	10.7	9.0	
2670T	<input type="checkbox"/>	<input type="checkbox"/>	26.7	10.7	9.0	
2680T	<input type="checkbox"/>	<input type="checkbox"/>	26.8	10.7	9.0	
2690T	<input type="checkbox"/>	<input type="checkbox"/>	26.9	10.7	9.0	
2700T	★	<input type="checkbox"/>	27.0	10.6	9.0	
2710T	<input type="checkbox"/>	<input type="checkbox"/>	27.1	10.6	9.0	
2720T	<input type="checkbox"/>	<input type="checkbox"/>	27.2	10.6	9.0	
2730T	<input type="checkbox"/>	<input type="checkbox"/>	27.3	10.6	9.0	
2740T	<input type="checkbox"/>	<input type="checkbox"/>	27.4	10.6	9.0	
2750T	★	<input type="checkbox"/>	27.5	12.1	10.0	TAWSN 2800S32 TAWMN 2800S32
2760T	<input type="checkbox"/>	<input type="checkbox"/>	27.6	12.1	10.0	
2770T	<input type="checkbox"/>	<input type="checkbox"/>	27.7	12.1	10.0	
2780T	<input type="checkbox"/>	<input type="checkbox"/>	27.8	12.1	10.0	
2790T	<input type="checkbox"/>	<input type="checkbox"/>	27.9	12.1	10.0	
2800T	★	<input type="checkbox"/>	28.0	12.0	10.0	
2810T	<input type="checkbox"/>	<input type="checkbox"/>	28.1	12.0	10.0	
2820T	<input type="checkbox"/>	<input type="checkbox"/>	28.2	12.0	10.0	
2830T	<input type="checkbox"/>	<input type="checkbox"/>	28.3	12.0	10.0	
2840T	<input type="checkbox"/>	<input type="checkbox"/>	28.4	12.0	10.0	

Número de pedido	Stock		Dimensiones (mm)			Herramienta aplicable
	VP15TF	VP10H	D1	L2	S1	
TAWN2850T	★	<input type="checkbox"/>	28.5	11.9	10.0	TAWSN 2900S32 TAWMN 2900S32
2860T	<input type="checkbox"/>	<input type="checkbox"/>	28.6	11.9	10.0	
2870T	<input type="checkbox"/>	<input type="checkbox"/>	28.7	11.9	10.0	
2880T	<input type="checkbox"/>	<input type="checkbox"/>	28.8	11.9	10.0	
2890T	<input type="checkbox"/>	<input type="checkbox"/>	28.9	11.9	10.0	
2900T	★	<input type="checkbox"/>	29.0	11.8	10.0	
2910T	<input type="checkbox"/>	<input type="checkbox"/>	29.1	11.8	10.0	
2920T	<input type="checkbox"/>	<input type="checkbox"/>	29.2	11.8	10.0	
2930T	<input type="checkbox"/>	<input type="checkbox"/>	29.3	11.8	10.0	
2940T	<input type="checkbox"/>	<input type="checkbox"/>	29.4	11.8	10.0	
2950T	★	<input type="checkbox"/>	29.5	11.7	10.0	TAWSN 3000S32 TAWMN 3000S32
2960T	<input type="checkbox"/>	<input type="checkbox"/>	29.6	11.7	10.0	
2970T	<input type="checkbox"/>	<input type="checkbox"/>	29.7	11.7	10.0	
2980T	<input type="checkbox"/>	<input type="checkbox"/>	29.8	11.7	10.0	
2990T	<input type="checkbox"/>	<input type="checkbox"/>	29.9	11.7	10.0	
3000T	★	<input type="checkbox"/>	30.0	11.6	10.0	
3010T	<input type="checkbox"/>	<input type="checkbox"/>	30.1	11.6	10.0	
3020T	<input type="checkbox"/>	<input type="checkbox"/>	30.2	11.6	10.0	
3030T	<input type="checkbox"/>	<input type="checkbox"/>	30.3	11.6	10.0	
3040T	<input type="checkbox"/>	<input type="checkbox"/>	30.4	11.6	10.0	

Placa tipo H

Novedad



Número de pedido	Stock		Dimensiones (mm)			Herramienta aplicable
	VP15TF	VP10H	D1	L2	S1	
TAWNH1400T	●	□	14.0	7.6	5.0	TAWSNH 1400S16
1410T	●	□	14.1	7.6	5.0	
1420T	●	□	14.2	7.6	5.0	
1430T	●	□	14.3	7.6	5.0	
1440T	●	□	14.4	7.6	5.0	TAWMNH 1400S16
1450T	●	□	14.5	7.5	5.0	TAWSNH 1500S20
1460T	●	□	14.6	7.5	5.0	
1470T	●	□	14.7	7.5	5.0	
1480T	●	□	14.8	7.5	5.0	
1490T	●	□	14.9	7.5	5.0	
1500T	●	□	15.0	7.4	5.0	
1510T	●	□	15.1	7.4	5.0	
1520T	●	□	15.2	7.4	5.0	
1530T	●	□	15.3	7.4	5.0	
1540T	●	□	15.4	7.4	5.0	
1550T	●	□	15.5	7.9	6.0	TAWSN 1600S20
1560T	●	□	15.6	7.9	6.0	
1570T	●	□	15.7	7.9	6.0	
1580T	●	□	15.8	7.9	6.0	
1590T	●	□	15.9	7.9	6.0	
1600T	●	□	16.0	7.8	6.0	
1610T	●	□	16.1	7.8	6.0	
1620T	●	□	16.2	7.8	6.0	
1630T	●	□	16.3	7.8	6.0	
1640T	●	□	16.4	7.8	6.0	
1650T	●	□	16.5	7.7	6.0	TAWMN 1600S20
1660T	●	□	16.6	7.7	6.0	
1670T	●	□	16.7	7.7	6.0	
1680T	●	□	16.8	7.7	6.0	
1690T	●	□	16.9	7.7	6.0	
1700T	●	□	17.0	7.6	6.0	
1710T	●	□	17.1	7.6	6.0	
1720T	●	□	17.2	7.6	6.0	
1730T	●	□	17.3	7.6	6.0	
1740T	●	□	17.4	7.6	6.0	
1750T	●	□	17.5	7.5	6.0	TAWSN 1700S20
1760T	●	□	17.6	7.5	6.0	
1770T	●	□	17.7	7.5	6.0	
1780T	●	□	17.8	7.5	6.0	
1790T	●	□	17.9	7.5	6.0	
1800T	●	□	18.0	7.4	6.0	
1810T	●	□	18.1	7.4	6.0	
1820T	●	□	18.2	7.4	6.0	
1830T	●	□	18.3	7.4	6.0	
1840T	●	□	18.4	7.4	6.0	
						TAWMN 1700S20
						TAWSN 1800S20
						TAWMN 1800S20

Número de pedido	Stock		Dimensiones (mm)			Herramienta aplicable	
	VP15TF	VP10H	D1	L2	S1		
TAWNH1850T	●	□	18.5	9.3	7.0	TAWSN 1900S25	
1860T	●	□	18.6	9.3	7.0		
1870T	●	□	18.7	9.3	7.0		
1880T	●	□	18.8	9.3	7.0		
1890T	●	□	18.9	9.3	7.0		
1900T	●	□	19.0	9.2	7.0		
1910T	●	□	19.1	9.2	7.0		
1920T	●	□	19.2	9.2	7.0		
1930T	●	□	19.3	9.2	7.0		
1940T	●	□	19.4	9.2	7.0		
1950T	●	□	19.5	9.1	7.0	TAWMN 1900S25	
1960T	●	□	19.6	9.1	7.0		
1970T	●	□	19.7	9.1	7.0		
1980T	●	□	19.8	9.1	7.0		
1990T	●	□	19.9	9.1	7.0		
2000T	●	□	20.0	9.0	7.0		
2010T	□	□	20.1	9.0	7.0		
2020T	□	□	20.2	9.0	7.0		
2030T	□	□	20.3	9.0	7.0		
2040T	□	□	20.4	9.0	7.0		
2050T	●	□	20.5	8.9	7.0	TAWSN 2000S25	
2060T	□	□	20.6	8.9	7.0		
2070T	□	□	20.7	8.9	7.0		
2080T	□	□	20.8	8.9	7.0		
2090T	□	□	20.9	8.9	7.0		
2100T	●	□	21.0	8.8	7.0		
2110T	□	□	21.1	8.8	7.0		
2120T	□	□	21.2	8.8	7.0		
2130T	□	□	21.3	8.8	7.0		
2140T	□	□	21.4	8.8	7.0		
2150T	●	□	21.5	10.6	8.0	TAWMN 2100S25	
2160T	□	□	21.6	10.6	8.0		
2170T	□	□	21.7	10.6	8.0		
2180T	□	□	21.8	10.6	8.0		
2190T	□	□	21.9	10.6	8.0		
2200T	●	□	22.0	10.5	8.0		
2210T	□	□	22.1	10.5	8.0		
2220T	□	□	22.2	10.5	8.0		
2230T	□	□	22.3	10.5	8.0		
2240T	□	□	22.4	10.5	8.0		
2250T	●	□	22.5	10.4	8.0	TAWSN 2200S25	
2260T	□	□	22.6	10.4	8.0		
2270T	□	□	22.7	10.4	8.0		
2280T	□	□	22.8	10.4	8.0		
2290T	□	□	22.9	10.4	8.0		
							TAWMN 2200S25
						TAWSN 2300S25	
						TAWMN 2300S25	

Número de pedido	Stock		Dimensiones (mm)			Herramienta aplicable
	VP15TF	VP10H	D1	L2	S1	
TAWNH2300T	●	□	23.0	10.3	8.0	TAWSN 2300S25
2310T	□	□	23.1	10.3	8.0	
2320T	□	□	23.2	10.3	8.0	
2330T	□	□	23.3	10.3	8.0	
2340T	□	□	23.4	10.3	8.0	
2350T	●	□	23.5	10.2	8.0	TAWSN 2400S32
2360T	□	□	23.6	10.2	8.0	
2370T	□	□	23.7	10.2	8.0	
2380T	□	□	23.8	10.2	8.0	
2390T	□	□	23.9	10.2	8.0	
2400T	●	□	24.0	10.1	8.0	
2410T	□	□	24.1	10.1	8.0	
2420T	□	□	24.2	10.1	8.0	
2430T	□	□	24.3	10.1	8.0	
2440T	□	□	24.4	10.1	8.0	
2450T	●	□	24.5	11.7	9.0	TAWSN 2500S32
2460T	□	□	24.6	11.7	9.0	
2470T	□	□	24.7	11.7	9.0	
2480T	□	□	24.8	11.7	9.0	
2490T	□	□	24.9	11.7	9.0	
2500T	●	□	25.0	11.6	9.0	
2510T	□	□	25.1	11.6	9.0	
2520T	□	□	25.2	11.6	9.0	
2530T	□	□	25.3	11.6	9.0	
2540T	□	□	25.4	11.6	9.0	
2550T	●	□	25.5	11.5	9.0	TAWSN 2600S32
2560T	□	□	25.6	11.5	9.0	
2570T	□	□	25.7	11.5	9.0	
2580T	□	□	25.8	11.5	9.0	
2590T	□	□	25.9	11.5	9.0	
2600T	●	□	26.0	11.4	9.0	
2610T	□	□	26.1	11.4	9.0	
2620T	□	□	26.2	11.4	9.0	
2630T	□	□	26.3	11.4	9.0	
2640T	□	□	26.4	11.4	9.0	
2650T	●	□	26.5	11.3	9.0	TAWSN 2700S32
2660T	□	□	26.6	11.3	9.0	
2670T	□	□	26.7	11.3	9.0	
2680T	□	□	26.8	11.3	9.0	
2690T	□	□	26.9	11.3	9.0	
2700T	●	□	27.0	11.2	9.0	
2710T	□	□	27.1	11.2	9.0	
2720T	□	□	27.2	11.2	9.0	
2730T	□	□	27.3	11.2	9.0	
2740T	□	□	27.4	11.2	9.0	

Número de pedido	Stock		Dimensiones (mm)			Herramienta aplicable
	VP15TF	VP10H	D1	L2	S1	
TAWNH2750T	●	□	27.5	12.3	10.0	TAWSN 2800S32
2760T	□	□	27.6	12.3	10.0	
2770T	□	□	27.7	12.3	10.0	
2780T	□	□	27.8	12.3	10.0	
2790T	□	□	27.9	12.3	10.0	
2800T	●	□	28.0	12.2	10.0	
2810T	□	□	28.1	12.2	10.0	
2820T	□	□	28.2	12.2	10.0	
2830T	□	□	28.3	12.2	10.0	
2840T	□	□	28.4	12.2	10.0	
2850T	●	□	28.5	12.1	10.0	TAWSN 2900S32
2860T	□	□	28.6	12.1	10.0	
2870T	□	□	28.7	12.1	10.0	
2880T	□	□	28.8	12.1	10.0	
2890T	□	□	28.9	12.1	10.0	
2900T	●	□	29.0	12.0	10.0	
2910T	□	□	29.1	12.0	10.0	
2920T	□	□	29.2	12.0	10.0	
2930T	□	□	29.3	12.0	10.0	
2940T	□	□	29.4	12.0	10.0	
2950T	●	□	29.5	11.9	10.0	TAWSN 3000S32
2960T	□	□	29.6	11.9	10.0	
2970T	□	□	29.7	11.9	10.0	
2980T	□	□	29.8	11.9	10.0	
2990T	□	□	29.9	11.9	10.0	
3000T	●	□	30.0	11.8	10.0	
3010T	□	□	30.1	11.8	10.0	
3020T	□	□	30.2	11.8	10.0	
3030T	□	□	30.3	11.8	10.0	
3040T	□	□	30.4	11.8	10.0	

Condiciones de corte recomendadas

Material	Diá. de la broca	$\phi 14.0-\phi 15.4$		$\phi 15.5-\phi 18.4$		$\phi 18.5-\phi 21.4$	
	Condiciones Dureza	Velocidad de corte (m/min)	Avance (mm/rev)	Velocidad de corte (m/min)	Avance (mm/rev)	Velocidad de corte (m/min)	Avance (mm/rev)
P Acero dulce	$\leq 180\text{HB}$	70 (60–90)	0.20 (0.15–0.25)	80 (60–100)	0.25 (0.20–0.30)	90 (70–110)	0.25 (0.20–0.30)
	180–280HB	70 (60–90)	0.20 (0.15–0.25)	80 (60–100)	0.25 (0.20–0.30)	80 (60–100)	0.25 (0.20–0.30)
	Acero al carbono Acero aleado	280–350HB	60 (50–80)	0.15 (0.12–0.18)	70 (50–90)	0.20 (0.15–0.25)	70 (50–90)
M Acero inoxidable	$\leq 200\text{HB}$	50 (40–60)	0.15 (0.12–0.18)	50 (40–60)	0.15 (0.12–0.18)	60 (50–70)	0.20 (0.15–0.22)
K Fundición	Res. a la tracción $\leq 350\text{MPa}$	70 (60–90)	0.20 (0.15–0.25)	80 (60–90)	0.30 (0.20–0.35)	90 (70–110)	0.25 (0.20–0.35)
	Res. a la tracción $\leq 450\text{MPa}$	70 (50–90)	0.20 (0.15–0.25)	80 (60–90)	0.25 (0.20–0.30)	80 (60–90)	0.25 (0.20–0.30)

Material	Diá. de la broca	$\phi 21.5-\phi 24.4$		$\phi 24.5-\phi 27.4$		$\phi 27.5-\phi 30.4$	
	Condiciones Dureza	Velocidad de corte (m/min)	Avance (mm/rev)	Velocidad de corte (m/min)	Avance (mm/rev)	Velocidad de corte (m/min)	Avance (mm/rev)
P Acero dulce	$\leq 180\text{HB}$	100 (80–120)	0.30 (0.25–0.35)	110 (80–120)	0.30 (0.25–0.35)	110 (80–120)	0.30 (0.25–0.35)
	180–280HB	90 (70–110)	0.30 (0.25–0.35)	100 (80–120)	0.30 (0.25–0.35)	100 (80–120)	0.30 (0.25–0.35)
	Acero al carbono Acero aleado	280–350HB	80 (60–100)	0.25 (0.20–0.30)	90 (70–110)	0.25 (0.20–0.30)	90 (70–110)
M Acero inoxidable	$\leq 200\text{HB}$	60 (50–70)	0.20 (0.15–0.22)	70 (60–80)	0.25 (0.20–0.28)	70 (60–80)	0.25 (0.20–0.28)
K Fundición	Res. a la tracción $\leq 350\text{MPa}$	100 (80–110)	0.35 (0.25–0.40)	110 (90–120)	0.35 (0.25–0.40)	110 (90–120)	0.40 (0.30–0.45)
	Res. a la tracción $\leq 450\text{MPa}$	90 (60–100)	0.30 (0.25–0.35)	100 (80–110)	0.30 (0.25–0.35)	100 (80–110)	0.30 (0.25–0.35)

Notas sobre el uso

Instalación de la placa

Aloje el tornillo de ajuste para instalar la placa.

Engrane correctamente los dientes de la placa y de la herramienta, y a continuación deslice la placa hasta el fondo de la ranura. Apriete el tornillo con la ayuda de la llave dinamométrica que se suministra mientras sujeta la placa ligeramente tal y como se muestra (Figura 1).

Compruebe que no haya ningún espacio vacío entre la parte inferior de la placa y la herramienta (Figura 2).

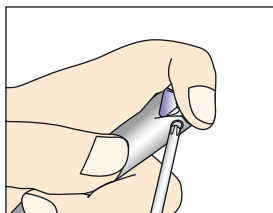


Fig. 1

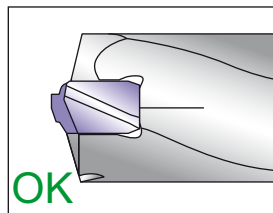
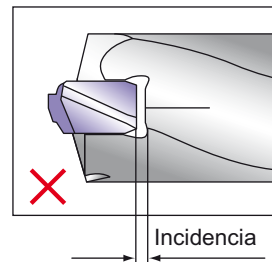


Fig. 2



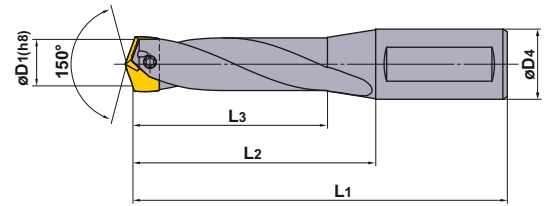
Sustitución de la placa

Limpie a fondo los dientes de la herramienta antes de instalar una placa nueva.

Elimine la suciedad más difícil de los dientes de la herramienta utilizando la placa de limpieza suministrada.

TAW

(Para taladrado de piezas superpuestas)



Herramienta

Rango diá. broca D1 (mm)	Prof. agujero (l/d)	Herramienta		Placa aplicable			Dimensiones (mm)				Tornillo de ajuste	Llave	Plancha	Lubrificante antiadherente
		Número de pedido	Stock	Diá. broca D1 (mm)	Número de pedido	Stock	VP15TF	L3	L2	L1				
24.5 24.6 24.7	3	TAWSB2500S32	●	24.5	TAWB2450T	★	88.6	110.6	170.6	32	WS406023T	TKY25T	WPT4405	MK1KS
				24.6	TAWBH2450T	●								
	5	TAWMB2500S32	□	24.6	TAWB2460T	□	140.6	165.6	225.6	32	WS406023T	TKY25T	WPT4405	MK1KS
				24.7	TAWBH2460T	□								
26.5 26.7	3	TAWSB2700S32	●	26.5	TAWB2650T	□	94.6	115.6	175.6	32	WS406024T	TKY25T	WPT4405	MK1KS
				26.7	TAWBH2650T	□								
	5	TAWMB2700S32	□	26.5	TAWB2670T	★	151.6	175.6	235.6	32	WS406024T	TKY25T	WPT4405	MK1KS
				26.7	TAWBH2670T	●								

Nota) Póngase en contacto con nosotros para aquellas geometrías que no aparezcan en esta información (por ejemplo, bajo pedido se pueden fabricar diámetros y longitudes diferentes y brocas con biselados chaflanados).

● : En inventario. ★ : Stock en Japón □ : No hay en stock, fabricado únicamente bajo pedido.

Placa

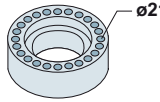
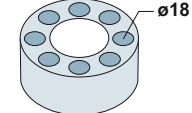
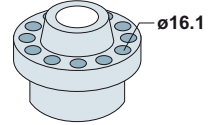
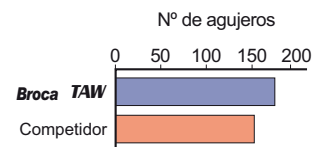
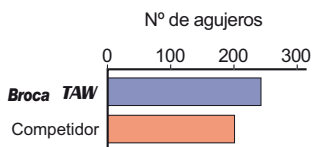
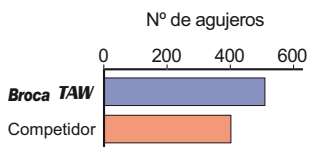
Forma	Número de pedido	Stock	Dimensiones (mm)			Herramienta aplicable	Ancho de honing (mm)	Geometría	
			VP15TF	D1	L2				S1
	TAWB2450T	★	24.5	11.1	9.0	TAWSB2500S32 TAWMB2500S32	0.20-0.25		
	2460T	□	24.6	11.1	9.0				★
	2470T	★	24.7	11.1	9.0				
	2650T	□	26.5	10.7	9.0	TAWSB2700S32 TAWMB2700S32			
	2670T	★	26.7	10.7	9.0				
	TAWBH2450T	●	24.5	11.7	9.0	TAWSB2500S32 TAWMB2500S32	0.20-0.25		
	2460T	□	24.6	11.7	9.0				
	2470T	●	24.7	11.7	9.0				
	2650T	□	26.5	11.3	9.0	TAWSB2700S32 TAWMB2700S32			
	2670T	●	26.7	11.3	9.0				

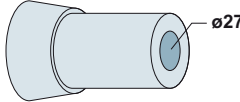
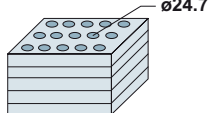
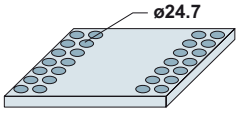
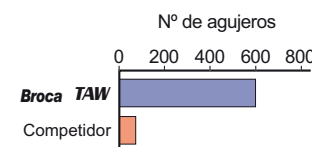
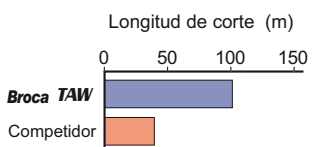
● : En inventario. (Nota: 2 placas en 1 paquete) ★ : Stock en Japón □ : No hay en stock, fabricado únicamente bajo pedido.

Condiciones de corte

Material	Diá. broca	φ24.5, φ24.6, φ24.7		φ26.5, φ26.7	
	Condiciones	Velocidad de corte (m/min)	Avance (mm/rev)	Velocidad de corte (m/min)	Avance (mm/rev)
P Acero estructural	Dureza				
	Res. a la tracción ≤ 400-500 N/mm ²	70 (60-80)	0.30 (0.25-0.35)	70 (60-80)	0.30 (0.25-0.35)
	Res. a la tracción ≤ 490-610 N/mm ²	65 (55-75)	0.30 (0.25-0.35)	65 (55-75)	0.30 (0.25-0.35)
	Res. a la tracción ≤ 570-720 N/mm ²	60 (50-70)	0.30 (0.25-0.35)	60 (50-70)	0.30 (0.25-0.35)

Ejemplos de aplicación

Herramienta	TAWMN2100S25	TAWMN1800S20	TAWSN1600S20
Placa (calidad)	TAWN2100T (VP15TF)	TAWN1800T (VP15TF)	TAWN1610T (VP15TF)
Material	ISO 34 CrMo4 	ISO C45 (200HB) 	DIN StE 285 
Componente	Anillo	Engranaje del anillo	Componentes de la máquina
Condiciones de corte	Velocidad de corte (m/min)	55	80
	Avance (mm/rev)	0.2	0.3
	Revoluciones (min ⁻¹)	833	1238
	Avance (mm/min)	167	371
Refrigeración	Aceite hidrosoluble (refrigeración interior)	Aceite hidrosoluble (refrigeración interior)	Aceite hidrosoluble (refrigeración interior)
Tipo de máquina	Centro de mecanizado	Centro de mecanizado	Centro de mecanizado
Resultado	Nº de agujeros 	Nº de agujeros 	Nº de agujeros 

Herramienta	TAWSN2700S32	TAWSB2500S32	TAWSB2500S32
Placa (calidad)	TAWN2700T (VP15TF)	TAWB2470T (VP15TF)	TAWB2470T (VP15TF)
Material	ISO 18 CrMo4 	BS S335 JR Tableros laminados 	BS S335 JR 
Componente	Tubo	Acero para puentes	Acero para puentes
Condiciones de corte	Velocidad de corte (m/min)	80	60
	Avance (mm/rev)	0.3	0.3
	Revoluciones (min ⁻¹)	943	773
	Avance (mm/min)	283	232
Refrigeración	Aceite hidrosoluble (refrigeración interior)	Refrigeración por niebla	Refrigeración por niebla
Tipo de máquina	Torno NC	Máquina Grundodril	Máquina Grundodril
Resultado	Nº de agujeros 	Longitud de corte (m) 	Longitud de corte (m) 