

TALADRADO

***MPS / MSL* BROCA EXTRALARGA**

**Broca de metal duro integral para taladrado de
agujeros profundos. Profundidad es de agujero: 8~30 x D**



■ Broca de metal duro integral para taladrado de agujeros profundos

MPS / MSL BOCA EXTRALARGA

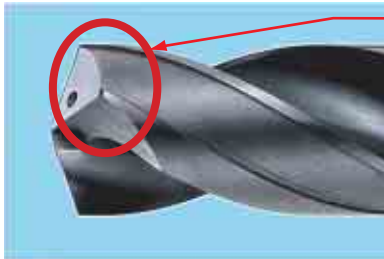
MPS = Tipo con doble margen (L/D8 ~ L/D30)

Primera recomendación para profundidad de agujeros hasta L/D = 15

MSL = Tipo con margen estándar (L/D20 ~ L/D30)

Primera recomendación para profundidad de agujeros hasta L/D=15 - L/D=30

● MPS (Tipo con doble margen)



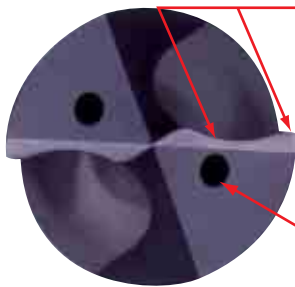
Hélice con doble margen

El tipo con doble margen está diseñado para dar mayor precisión en el agujero y mejorar la superficie de acabado comparando con la broca tradicional.

Alta estabilidad

El doble margen mejora la estabilidad y la precisión cuando existe un ángulo en la superficie de acabado.

● Filo de corte ondulado para un rendimiento superior del taladrado



Filo de corte ondulado

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

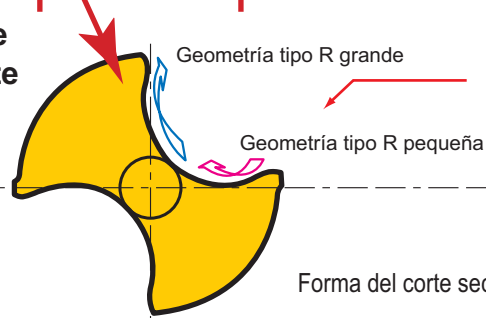
Con agujero de refrigeración

No se requiere una alta presión de refrigerante. Presión de emisión: ¡Sólo requiere una presión de 1-3 Mpa! También es posible un mecanizado semiseco.

● Variación de la geometría a lo largo de la longitud del corte para lograr un control superior de la viruta. Fin de los problemas de obstrucción de las virutas en el taladrado de agujeros profundos.



Forma del corte en el filo de corte



La geometría tipo R pequeña genera un encrespamiento inicial de las virutas y se combina con la geometría tipo R para fomentar una suave evacuación de las virutas.

Forma del corte seccional cruzado

Tecnología de material



VP15TF

Recubrimiento **MIRACLE**[®] (Al, Ti)N

Metal duro micrograno TF15

Recubrimiento **MIRACLE**[®]

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.



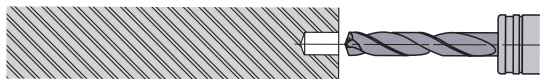
TALADRADO

■ Guia para taladrar agujeros profundos a traves de superficies irregulares ó angulares.

MPS / MSL BROCA EXTRALARGA

Uso Taladrar un agujero ciego

1. Taladrar un agujero piloto



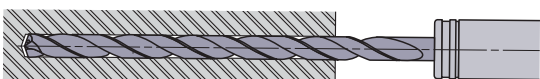
- ① Utilice una broca con un ángulo de punta mayor (más plano) que el tipo de broca extralarga. Se recomiendan los tipos MZE, MZS o MS de Mitsubishi.
- ② Utilice una broca con el mismo diámetro que la broca para taladrado de agujeros profundos.
- ③ Profundidad de la broca: aprox. 2-3D o más profunda.
- ④ Asegúrese de que el agujero guía taladrado sea muy preciso.

2. Corte inicial con la broca larga.



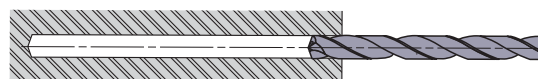
- ① Penetre el agujero guía a una revolución baja. (Velocidad de corte 20 m-30 m/min, avance 0,2 mm-0,3 mm/rev)
- ② Detenga la broca larga a 1-3 mm del final del agujero guía.

3. Taladrado del agujero profundo



- ① Inicie el corte a la velocidad y avance recomendados mediante un taladrado de avance continuo.

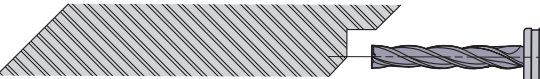
4. Retracción de la broca



- ① Cuando esté a 1-2 mm del fondo del agujero profundo, reduzca la velocidad de corte a 20 m-30 m/min. Retire la broca hasta el punto de inicio de profundidad del agujero piloto a un avance de 3.000 mm/min.
- ② Finalmente, despeje el agujero a una velocidad de corte de 20 m-30 m/min y un avance de 0,2 mm-0,3 mm/rev.

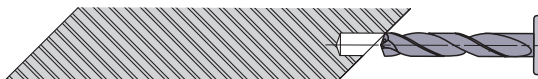
Uso Taladrado y penetración en caras o ángulos irregulares

1. Refrentado



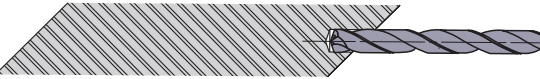
- ① Mecanice una cara plana o la cara irregular utilizando una fresa de metal duro o broca ranurada apta para refrentado. Haga que el diámetro de refrentado sea del mismo tamaño que el diámetro exigido para el agujero profundo o hasta 0,1 mm superior.

2. Taladrar un agujero piloto



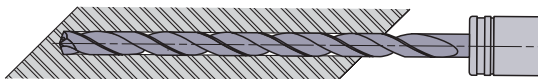
- ① Utilice una broca con un ángulo de punta mayor (más plano) que el tipo de broca extralarga. Se recomiendan los tipos MZE, MZS o MS de Mitsubishi.
- ② Utilice una broca con el mismo diámetro que la broca para taladrado de agujeros profundos.
- ③ Profundidad de la broca: aprox. 2-3D o más profunda.
- ④ Asegúrese de que el agujero guía taladrado sea muy preciso.

3. Corte inicial con la broca larga



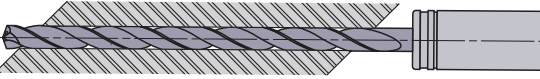
- ① Penetre el agujero guía a una revolución baja. (Velocidad de corte 20 m-30 m/min, avance 0,2 mm-0,3 mm/rev)
- ② Detenga la broca larga a 1-3 mm del final del agujero guía.

4. Taladrado del agujero profundo



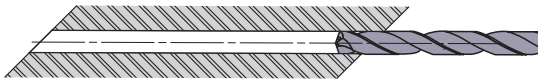
- ① Inicie el corte a la velocidad y avance recomendados mediante un taladrado de avance continuo.

5. Penetración



- ① Durante la penetración, el filo de corte puede resultar dañado.
- ② Se recomienda un avance de 0,05 mm-0,1 mm/rev.

6. Retracción de la broca



- ① Retire la broca hasta el punto de inicio de profundidad del agujero piloto a un avance de 3.000 mm/min.
- ② Finalmente, despeje el agujero a una velocidad de corte de 20 m-30 m/min y un avance de 0,2 mm-0,3 mm/rev.



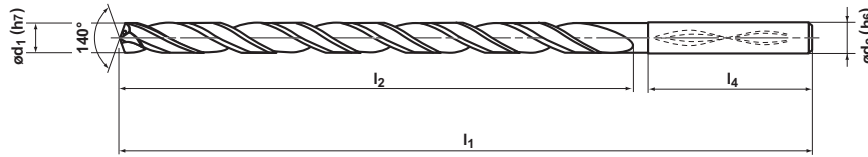
MPS/MSL
Super Long

■ Broca de metal duro integral para taladrado de agujeros profundos.

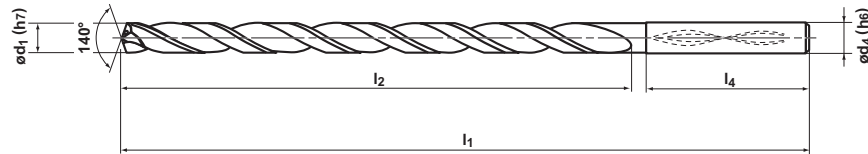
MPS / MSL BROCA EXTRALARGA



d1(h7)	3.0<d1≤6.0	6.0<d1≤10.0	10.0<d1≤14.0
Tolerancia	0 -0.012	0 -0.015	0 -0.018



Tipo A (MPS tipo con doble margen)



Tipo B (MSL tipo con margen estándar)

Diámetro de la broca d1 (mm)	Profundidad (l/d)	Stock	Referencia	Dimensiones (mm)				
		VP15TF		l1	l2	l4	d2	Tipo
3.0	8	<input type="checkbox"/>	MPS0300-L8C	74	34	36	6	A
	10	<input type="checkbox"/>	MPS0300-L10C	80	40	36	6	A
	12	<input type="checkbox"/>	MPS0300-L12C	86	46	36	6	A
	15	<input type="checkbox"/>	MPS0300-L15C	95	55	36	6	A
	20	<input type="checkbox"/>	MPS0300-L20C	110	70	36	6	A
	20	<input type="checkbox"/>	MSL0300-L20C	110	70	36	6	B
	25	<input type="checkbox"/>	MPS0300-L25C	125	85	36	6	A
	25	<input type="checkbox"/>	MSL0300-L25C	139	99	36	6	B
	30	<input type="checkbox"/>	MPS0300-L30C	140	100	36	6	A
	30	<input type="checkbox"/>	MSL0300-L30C	157	117	36	6	B
3.1	8	<input type="checkbox"/>	MPS0310-L8C	80	40	36	6	A
	10	<input type="checkbox"/>	MPS0310-L10C	87	47	36	6	A
	12	<input type="checkbox"/>	MPS0310-L12C	94	54	36	6	A
	15	<input type="checkbox"/>	MPS0310-L15C	104	64	36	6	A
	20	<input type="checkbox"/>	MPS0310-L20C	122	82	36	6	A
	20	<input type="checkbox"/>	MSL0310-L20C	122	82	36	6	B
	25	<input type="checkbox"/>	MPS0310-L25C	139	99	36	6	A
	25	<input type="checkbox"/>	MSL0310-L25C	139	99	36	6	B
	30	<input type="checkbox"/>	MPS0310-L30C	157	117	36	6	A
	30	<input type="checkbox"/>	MSL0310-L30C	157	117	36	6	B
3.2	8	<input type="checkbox"/>	MPS0320-L8C	80	40	36	6	A
	10	<input type="checkbox"/>	MPS0320-L10C	87	47	36	6	A
	12	<input type="checkbox"/>	MPS0320-L12C	94	54	36	6	A
	15	<input type="checkbox"/>	MPS0320-L15C	104	64	36	6	A
	20	<input type="checkbox"/>	MPS0320-L20C	122	82	36	6	A
	20	<input type="checkbox"/>	MSL0320-L20C	122	82	36	6	B
	25	<input type="checkbox"/>	MPS0320-L25C	139	99	36	6	A
	25	<input type="checkbox"/>	MSL0320-L25C	139	99	36	6	B
	30	<input type="checkbox"/>	MPS0320-L30C	157	117	36	6	A
	30	<input type="checkbox"/>	MSL0320-L30C	157	117	36	6	B
3.3	8	<input type="checkbox"/>	MPS0330-L8C	80	40	36	6	A
	10	<input type="checkbox"/>	MPS0330-L10C	87	47	36	6	A
	12	<input type="checkbox"/>	MPS0330-L12C	94	54	36	6	A
	15	<input type="checkbox"/>	MPS0330-L15C	104	64	36	6	A
	20	<input type="checkbox"/>	MPS0330-L20C	122	82	36	6	A
	20	<input type="checkbox"/>	MSL0330-L20C	122	82	36	6	B
	25	<input type="checkbox"/>	MPS0330-L25C	139	99	36	6	A
	25	<input type="checkbox"/>	MSL0330-L25C	139	99	36	6	B
	30	<input type="checkbox"/>	MPS0330-L30C	157	117	36	6	A
	30	<input type="checkbox"/>	MSL0330-L30C	157	117	36	6	B

Diámetro de la broca d1 (mm)	Profundidad (l/d)	Stock	Referencia	Dimensiones (mm)				
		VP15TF		l1	l2	l4	d2	Tipo
3.4	8	<input type="checkbox"/>	MPS0340-L8C	80	40	36	6	A
	10	<input type="checkbox"/>	MPS0340-L10C	87	47	36	6	A
	12	<input type="checkbox"/>	MPS0340-L12C	94	54	36	6	A
	15	<input type="checkbox"/>	MPS0340-L15C	104	64	36	6	A
	20	<input type="checkbox"/>	MPS0340-L20C	122	82	36	6	A
	20	<input type="checkbox"/>	MSL0340-L20C	122	82	36	6	B
	25	<input type="checkbox"/>	MPS0340-L25C	139	99	36	6	A
	25	<input type="checkbox"/>	MSL0340-L25C	139	99	36	6	B
	30	<input type="checkbox"/>	MPS0340-L30C	157	117	36	6	A
	30	<input type="checkbox"/>	MSL0340-L30C	157	117	36	6	B
3.5	8	<input type="checkbox"/>	MPS0350-L8C	80	40	36	6	A
	10	<input type="checkbox"/>	MPS0350-L10C	87	47	36	6	A
	12	<input type="checkbox"/>	MPS0350-L12C	94	54	36	6	A
	15	<input type="checkbox"/>	MPS0350-L15C	104	64	36	6	A
	20	<input type="checkbox"/>	MPS0350-L20C	122	82	36	6	A
	20	<input type="checkbox"/>	MSL0350-L20C	122	82	36	6	B
	25	<input type="checkbox"/>	MPS0350-L25C	139	99	36	6	A
	25	<input type="checkbox"/>	MSL0350-L25C	139	99	36	6	B
	30	<input type="checkbox"/>	MPS0350-L30C	157	117	36	6	A
	30	<input type="checkbox"/>	MSL0350-L30C	157	117	36	6	B
3.6	8	<input type="checkbox"/>	MPS0360-L8C	85	45	36	6	A
	10	<input type="checkbox"/>	MPS0360-L10C	93	53	36	6	A
	12	<input type="checkbox"/>	MPS0360-L12C	101	61	36	6	A
	15	<input type="checkbox"/>	MPS0360-L15C	113	73	36	6	A
	20	<input type="checkbox"/>	MPS0360-L20C	133	93	36	6	A
	20	<input type="checkbox"/>	MSL0360-L20C	133	93	36	6	B
	25	<input type="checkbox"/>	MPS0360-L25C	153	113	36	6	A
	25	<input type="checkbox"/>	MSL0360-L25C	153	113	36	6	B
	30	<input type="checkbox"/>	MPS0360-L30C	173	133	36	6	A
	30	<input type="checkbox"/>	MSL0360-L30C	173	133	36	6	B
3.7	8	<input type="checkbox"/>	MPS0370-L8C	85	45	36	6	A
	10	<input type="checkbox"/>	MPS0370-L10C	93	53	36	6	A
	12	<input type="checkbox"/>	MPS0370-L12C	101	61	36	6	A
	15	<input type="checkbox"/>	MPS0370-L15C	113	73	36	6	A
	20	<input type="checkbox"/>	MPS0370-L20C	133	93	36	6	A
	20	<input type="checkbox"/>	MSL0370-L20C	133	93	36	6	B
	25	<input type="checkbox"/>	MPS0370-L25C	153	113	36	6	A
	25	<input type="checkbox"/>	MSL0370-L25C	153	113	36	6	B
	30	<input type="checkbox"/>	MPS0370-L30C	173	133	36	6	A
	30	<input type="checkbox"/>	MSL0370-L30C	173	133	36	6	B

: No en stock, fabricación sólo bajo pedido.



TALADRADO

■ Broca de metal duro integral para taladrado de agujeros profundos.

Diámetro d ₁ de la broca (mm)	Profundidad (l/d)	Stock	Referencia	Dimensiones (mm)				
		VP15TF		l ₁	l ₂	l ₄	d ₂	Tipos
3.8	8	□	MPS0380-L8C	85	45	36	6	A
	10	□	MPS0380-L10C	93	53	36	6	A
	12	□	MPS0380-L12C	101	61	36	6	A
	15	□	MPS0380-L15C	113	73	36	6	A
	20	□	MPS0380-L20C	133	93	36	6	A
	20	□	MSL0380-L20C	133	93	36	6	B
	25	□	MPS0380-L25C	153	113	36	6	A
	25	□	MSL0380-L25C	153	113	36	6	B
	30	□	MPS0380-L30C	173	133	36	6	A
30	□	MSL0380-L30C	173	133	36	6	B	
3.9	8	□	MPS0390-L8C	85	45	36	6	A
	10	□	MPS0390-L10C	93	53	36	6	A
	12	□	MPS0390-L12C	101	61	36	6	A
	15	□	MPS0390-L15C	113	73	36	6	A
	20	□	MPS0390-L20C	133	93	36	6	A
	20	□	MSL0390-L20C	133	93	36	6	B
	25	□	MPS0390-L25C	153	113	36	6	A
	25	□	MSL0390-L25C	153	113	36	6	B
	30	□	MPS0390-L30C	173	133	36	6	A
30	□	MSL0390-L30C	173	133	36	6	B	
4.0	8	□	MPS0400-L8C	85	45	36	6	A
	10	□	MPS0400-L10C	93	53	36	6	A
	12	□	MPS0400-L12C	101	61	36	6	A
	15	□	MPS0400-L15C	113	73	36	6	A
	20	□	MPS0400-L20C	133	93	36	6	A
	20	□	MSL0400-L20C	133	93	36	6	B
	25	□	MPS0400-L25C	153	113	36	6	A
	25	□	MSL0400-L25C	153	113	36	6	B
	30	□	MPS0400-L30C	173	133	36	6	A
30	□	MSL0400-L30C	173	133	36	6	B	
4.1	8	□	MPS0410-L8C	91	51	36	6	A
	10	□	MPS0410-L10C	100	60	36	6	A
	12	□	MPS0410-L12C	109	69	36	6	A
	15	□	MPS0410-L15C	122	82	36	6	A
	20	□	MPS0410-L20C	145	105	36	6	A
	20	□	MSL0410-L20C	145	105	36	6	B
	25	□	MPS0410-L25C	167	127	36	6	A
	25	□	MSL0410-L25C	167	127	36	6	B
	30	□	MPS0410-L30C	190	150	36	6	A
30	□	MSL0410-L30C	190	150	36	6	B	
4.2	8	□	MPS0420-L8C	91	51	36	6	A
	10	□	MPS0420-L10C	100	60	36	6	A
	12	□	MPS0420-L12C	109	69	36	6	A
	15	□	MPS0420-L15C	122	82	36	6	A
	20	□	MPS0420-L20C	145	105	36	6	A
	20	□	MSL0420-L20C	145	105	36	6	B
	25	□	MPS0420-L25C	167	127	36	6	A
	25	□	MSL0420-L25C	167	127	36	6	B
	30	□	MPS0420-L30C	190	150	36	6	A
30	□	MSL0420-L30C	190	150	36	6	B	
4.3	8	□	MPS0430-L8C	91	51	36	6	A
	10	□	MPS0430-L10C	100	60	36	6	A
	12	□	MPS0430-L12C	109	69	36	6	A
	15	□	MPS0430-L15C	122	82	36	6	A
	20	□	MPS0430-L20C	145	105	36	6	A
	20	□	MSL0430-L20C	145	105	36	6	B
	25	□	MPS0430-L25C	167	127	36	6	A
	25	□	MSL0430-L25C	167	127	36	6	B
	30	□	MPS0430-L30C	190	150	36	6	A
30	□	MSL0430-L30C	190	150	36	6	B	
4.4	8	□	MPS0440-L8C	91	51	36	6	A
	10	□	MPS0440-L10C	100	60	36	6	A
	12	□	MPS0440-L12C	109	69	36	6	A
	15	□	MPS0440-L15C	122	82	36	6	A
	20	□	MPS0440-L20C	145	105	36	6	A
	20	□	MSL0440-L20C	145	105	36	6	B
	25	□	MPS0440-L25C	167	127	36	6	A
	25	□	MSL0440-L25C	167	127	36	6	B
	30	□	MPS0440-L30C	190	150	36	6	A
30	□	MSL0440-L30C	190	150	36	6	B	
4.5	8	□	MPS0450-L8C	91	51	36	6	A
	10	□	MPS0450-L10C	100	60	36	6	A
	12	□	MPS0450-L12C	109	69	36	6	A
	15	□	MPS0450-L15C	122	82	36	6	A
	20	□	MPS0450-L20C	145	105	36	6	A
	20	□	MSL0450-L20C	145	105	36	6	B
	25	□	MPS0450-L25C	167	127	36	6	A
	25	□	MSL0450-L25C	167	127	36	6	B
	30	□	MPS0450-L30C	190	150	36	6	A
30	□	MSL0450-L30C	190	150	36	6	B	
4.6	8	□	MPS0460-L8C	96	55	36	6	A
	10	□	MPS0460-L10C	106	66	36	6	A
	12	□	MPS0460-L12C	116	76	36	6	A
	15	□	MPS0460-L15C	131	91	36	6	A
	20	□	MPS0460-L20C	156	116	36	6	A
	20	□	MSL0460-L20C	156	116	36	6	B
	25	□	MPS0460-L25C	181	141	36	6	A
	25	□	MSL0460-L25C	181	141	36	6	B
	30	□	MPS0460-L30C	206	166	36	6	A
30	□	MSL0460-L30C	206	166	36	6	B	
4.7	8	□	MPS0470-L8C	96	55	36	6	A
	10	□	MPS0470-L10C	106	66	36	6	A
	12	□	MPS0470-L12C	116	76	36	6	A
	15	□	MPS0470-L15C	131	91	36	6	A
	20	□	MPS0470-L20C	156	116	36	6	A
	20	□	MSL0470-L20C	156	116	36	6	B
	25	□	MPS0470-L25C	181	141	36	6	A
	25	□	MSL0470-L25C	181	141	36	6	B
	30	□	MPS0470-L30C	206	166	36	6	A
30	□	MSL0470-L30C	206	166	36	6	B	
4.8	8	□	MPS0480-L8C	96	55	36	6	A
	10	□	MPS0480-L10C	106	66	36	6	A
	12	□	MPS0480-L12C	116	76	36	6	A
	15	□	MPS0480-L15C	131	91	36	6	A
	20	□	MPS0480-L20C	156	116	36	6	A
	20	□	MSL0480-L20C	156	116	36	6	B
	25	□	MPS0480-L25C	181	141	36	6	A
	25	□	MSL0480-L25C	181	141	36	6	B
	30	□	MPS0480-L30C	206	166	36	6	A
30	□	MSL0480-L30C	206	166	36	6	B	
4.9	8	□	MPS0490-L8C	96	55	36	6	A
	10	□	MPS0490-L10C	106	66	36	6	A
	12	□	MPS0490-L12C	116	76	36	6	A
	15	□	MPS0490-L15C	131	91	36	6	A
	20	□	MPS0490-L20C	156	116	36	6	A
	20	□	MSL0490-L20C	156	116	36	6	B
	25	□	MPS0490-L25C	181	141	36	6	A
	25	□	MSL0490-L25C	181	141	36	6	B
	30	□	MPS0490-L30C	206	166	36	6	A
30	□	MSL0490-L30C	206	166	36	6	B	

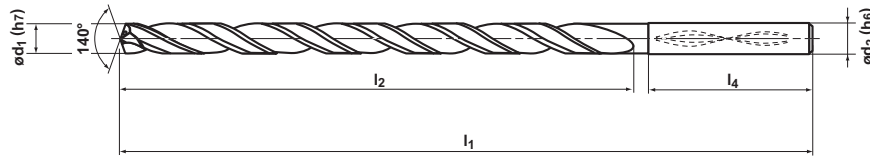


■ Broca de metal duro integral para taladrado de agujeros profundos.

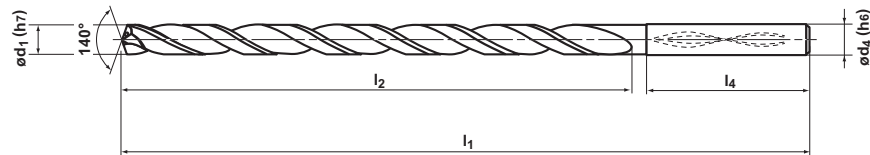
MPS / MSL BROCA EXTRALARGA



d1(h7)	3.0<d1≤6.0	6.0<d1≤10.0	10.0<d1≤14.0
Tolerancia	0 -0.012	0 -0.015	0 -0.018



Tipo A (MPS tipo con doble margen)



Tipo B (MSL tipo con margen estándar)

Diámetro de la broca d1 (mm)	Profundidad (l/d)	Stock	Referencia	Dimensiones (mm)				
				l1	l2	l4	d2	Tipo
5.0	8	<input type="checkbox"/>	MPS0500-L8C	96	55	36	6	A
	10	<input type="checkbox"/>	MPS0500-L10C	106	66	36	6	A
	12	<input type="checkbox"/>	MPS0500-L12C	116	76	36	6	A
	15	<input type="checkbox"/>	MPS0500-L15C	131	91	36	6	A
	20	<input type="checkbox"/>	MPS0500-L20C	156	116	36	6	A
	20	<input type="checkbox"/>	MSL0500-L20C	156	116	36	6	B
	25	<input type="checkbox"/>	MPS0500-L25C	181	141	36	6	A
	25	<input type="checkbox"/>	MSL0500-L25C	181	141	36	6	B
	30	<input type="checkbox"/>	MPS0500-L30C	206	166	36	6	A
	30	<input type="checkbox"/>	MSL0500-L30C	206	166	36	6	B
5.1	8	<input type="checkbox"/>	MPS0510-L8C	102	62	36	6	A
	10	<input type="checkbox"/>	MPS0510-L10C	113	73	36	6	A
	12	<input type="checkbox"/>	MPS0510-L12C	124	84	36	6	A
	15	<input type="checkbox"/>	MPS0510-L15C	140	100	36	6	A
	20	<input type="checkbox"/>	MPS0510-L20C	168	128	36	6	A
	20	<input type="checkbox"/>	MSL0510-L20C	168	128	36	6	B
	25	<input type="checkbox"/>	MPS0510-L25C	195	155	36	6	A
	25	<input type="checkbox"/>	MSL0510-L25C	195	155	36	6	B
	30	<input type="checkbox"/>	MPS0510-L30C	223	183	36	6	A
	30	<input type="checkbox"/>	MSL0510-L30C	223	183	36	6	B
5.2	8	<input type="checkbox"/>	MPS0520-L8C	102	62	36	6	A
	10	<input type="checkbox"/>	MPS0520-L10C	113	73	36	6	A
	12	<input type="checkbox"/>	MPS0520-L12C	124	84	36	6	A
	15	<input type="checkbox"/>	MPS0520-L15C	140	100	36	6	A
	20	<input type="checkbox"/>	MPS0520-L20C	168	128	36	6	A
	20	<input type="checkbox"/>	MSL0520-L20C	168	128	36	6	B
	25	<input type="checkbox"/>	MPS0520-L25C	195	155	36	6	A
	25	<input type="checkbox"/>	MSL0520-L25C	195	155	36	6	B
	30	<input type="checkbox"/>	MPS0520-L30C	223	183	36	6	A
	30	<input type="checkbox"/>	MSL0520-L30C	223	183	36	6	B
5.3	8	<input type="checkbox"/>	MPS0530-L8C	102	62	36	6	A
	10	<input type="checkbox"/>	MPS0530-L10C	113	73	36	6	A
	12	<input type="checkbox"/>	MPS0530-L12C	124	84	36	6	A
	15	<input type="checkbox"/>	MPS0530-L15C	140	100	36	6	A
	20	<input type="checkbox"/>	MPS0530-L20C	168	128	36	6	A
	20	<input type="checkbox"/>	MSL0530-L20C	168	128	36	6	B
	25	<input type="checkbox"/>	MPS0530-L25C	195	155	36	6	A
	25	<input type="checkbox"/>	MSL0530-L25C	195	155	36	6	B
	30	<input type="checkbox"/>	MPS0530-L30C	223	183	36	6	A
	30	<input type="checkbox"/>	MSL0530-L30C	223	183	36	6	B

Diámetro de la broca d1 (mm)	Profundidad (l/d)	Stock	Referencia	Dimensiones (mm)				
				l1	l2	l4	d2	Tipo
5.4	8	<input type="checkbox"/>	MPS0540-L8C	102	62	36	6	A
	10	<input type="checkbox"/>	MPS0540-L10C	113	73	36	6	A
	12	<input type="checkbox"/>	MPS0540-L12C	124	84	36	6	A
	15	<input type="checkbox"/>	MPS0540-L15C	140	100	36	6	A
	20	<input type="checkbox"/>	MPS0540-L20C	168	128	36	6	A
	20	<input type="checkbox"/>	MSL0540-L20C	168	128	36	6	B
	25	<input type="checkbox"/>	MPS0540-L25C	195	155	36	6	A
	25	<input type="checkbox"/>	MSL0540-L25C	195	155	36	6	B
	30	<input type="checkbox"/>	MPS0540-L30C	223	183	36	6	A
	30	<input type="checkbox"/>	MSL0540-L30C	223	183	36	6	B
5.5	8	<input type="checkbox"/>	MPS0550-L8C	102	62	36	6	A
	10	<input type="checkbox"/>	MPS0550-L10C	113	73	36	6	A
	12	<input type="checkbox"/>	MPS0550-L12C	124	84	36	6	A
	15	<input type="checkbox"/>	MPS0550-L15C	140	100	36	6	A
	20	<input type="checkbox"/>	MPS0550-L20C	168	128	36	6	A
	20	<input type="checkbox"/>	MSL0550-L20C	168	128	36	6	B
	25	<input type="checkbox"/>	MPS0550-L25C	195	155	36	6	A
	25	<input type="checkbox"/>	MSL0550-L25C	195	155	36	6	B
	30	<input type="checkbox"/>	MPS0550-L30C	223	183	36	6	A
	30	<input type="checkbox"/>	MSL0550-L30C	223	183	36	6	B
5.6	8	<input type="checkbox"/>	MPS0560-L8C	107	67	36	6	A
	10	<input type="checkbox"/>	MPS0560-L10C	119	79	36	6	A
	12	<input type="checkbox"/>	MPS0560-L12C	131	91	36	6	A
	15	<input type="checkbox"/>	MPS0560-L15C	149	109	36	6	A
	20	<input type="checkbox"/>	MPS0560-L20C	179	139	36	6	A
	20	<input type="checkbox"/>	MSL0560-L20C	179	139	36	6	B
	25	<input type="checkbox"/>	MPS0560-L25C	209	169	36	6	A
	25	<input type="checkbox"/>	MSL0560-L25C	209	169	36	6	B
	30	<input type="checkbox"/>	MPS0560-L30C	239	199	36	6	A
	30	<input type="checkbox"/>	MSL0560-L30C	239	199	36	6	B
5.7	8	<input type="checkbox"/>	MPS0570-L8C	107	67	36	6	A
	10	<input type="checkbox"/>	MPS0570-L10C	119	79	36	6	A
	12	<input type="checkbox"/>	MPS0570-L12C	131	91	36	6	A
	15	<input type="checkbox"/>	MPS0570-L15C	149	109	36	6	A
	20	<input type="checkbox"/>	MPS0570-L20C	179	139	36	6	A
	20	<input type="checkbox"/>	MSL0570-L20C	179	139	36	6	B
	25	<input type="checkbox"/>	MPS0570-L25C	209	169	36	6	A
	25	<input type="checkbox"/>	MSL0570-L25C	209	169	36	6	B
	30	<input type="checkbox"/>	MPS0570-L30C	239	199	36	6	A
	30	<input type="checkbox"/>	MSL0570-L30C	239	199	36	6	B

: No en stock, fabricación sólo bajo pedido.



TALADRADO

■ Broca de metal duro integral para taladrado de agujeros profundos.

Diámetro d ₁ de la broca (mm)	Profundidad (l/d)	Stock	Referencia	Dimensiones (mm)				
		VP15TF		l ₁	l ₂	l ₄	d ₂	Tipo
5.8	8	□	MPS0580-L8C	107	67	36	6	A
	10	□	MPS0580-L10C	119	79	36	6	A
	12	□	MPS0580-L12C	131	91	36	6	A
	15	□	MPS0580-L15C	149	109	36	6	A
	20	□	MPS0580-L20C	179	139	36	6	A
	20	□	MSL0580-L20C	179	139	36	6	B
	25	□	MPS0580-L25C	209	169	36	6	A
	25	□	MSL0580-L25C	209	169	36	6	B
	30	□	MPS0580-L30C	239	199	36	6	A
30	□	MSL0580-L30C	239	199	36	6	B	
5.9	8	□	MPS0590-L8C	107	67	36	6	A
	10	□	MPS0590-L10C	119	79	36	6	A
	12	□	MPS0590-L12C	131	91	36	6	A
	15	□	MPS0590-L15C	149	109	36	6	A
	20	□	MPS0590-L20C	179	139	36	6	A
	20	□	MSL0590-L20C	179	139	36	6	B
	25	□	MPS0590-L25C	209	169	36	6	A
	25	□	MSL0590-L25C	209	169	36	6	B
	30	□	MPS0590-L30C	239	199	36	6	A
30	□	MSL0590-L30C	239	199	36	6	B	
6.0	8	□	MPS0600-L8C	107	67	36	6	A
	10	□	MPS0600-L10C	119	79	36	6	A
	12	□	MPS0600-L12C	131	91	36	6	A
	15	□	MPS0600-L15C	149	109	36	6	A
	20	□	MPS0600-L20C	179	139	36	6	A
	20	□	MSL0600-L20C	179	139	36	6	B
	25	□	MPS0600-L25C	209	169	36	6	A
	25	□	MSL0600-L25C	209	169	36	6	B
	30	□	MPS0600-L30C	239	199	36	6	A
30	□	MSL0600-L30C	239	199	36	6	B	
6.1	8	□	MPS0610-L8C	113	73	36	8	A
	10	□	MPS0610-L10C	126	86	36	8	A
	12	□	MPS0610-L12C	139	99	36	8	A
	15	□	MPS0610-L15C	158	118	36	8	A
	20	□	MPS0610-L20C	191	151	36	8	A
	20	□	MSL0610-L20C	191	151	36	8	B
	25	□	MPS0610-L25C	223	183	36	8	A
	25	□	MSL0610-L25C	223	183	36	8	B
	30	□	MPS0610-L30C	256	216	36	8	A
30	□	MSL0610-L30C	256	216	36	8	B	
6.2	8	□	MPS0620-L8C	107	67	36	8	A
	10	□	MPS0620-L10C	119	79	36	8	A
	12	□	MPS0620-L12C	131	91	36	8	A
	15	□	MPS0620-L15C	149	109	36	8	A
	20	□	MPS0620-L20C	179	139	36	8	A
	20	□	MSL0620-L20C	179	139	36	8	B
	25	□	MPS0620-L25C	209	169	36	8	A
	25	□	MSL0620-L25C	209	169	36	8	B
	30	□	MPS0620-L30C	239	199	36	8	A
30	□	MSL0620-L30C	239	199	36	8	B	
6.3	8	□	MPS0630-L8C	113	73	36	8	A
	10	□	MPS0630-L10C	126	86	36	8	A
	12	□	MPS0630-L12C	139	99	36	8	A
	15	□	MPS0630-L15C	158	118	36	8	A
	20	□	MPS0630-L20C	191	151	36	8	A
	20	□	MSL0630-L20C	191	151	36	8	B
	25	□	MPS0630-L25C	223	183	36	8	A
	25	□	MSL0630-L25C	223	183	36	8	B
	30	□	MPS0630-L30C	256	216	36	8	A
30	□	MSL0630-L30C	256	216	36	8	B	
6.4	8	□	MPS0640-L8C	107	67	36	8	A
	10	□	MPS0640-L10C	119	79	36	8	A
	12	□	MPS0640-L12C	131	91	36	8	A
	15	□	MPS0640-L15C	149	109	36	8	A
	20	□	MPS0640-L20C	179	139	36	8	A
	20	□	MSL0640-L20C	179	139	36	8	B
	25	□	MPS0640-L25C	209	169	36	8	A
	25	□	MSL0640-L25C	209	169	36	8	B
	30	□	MPS0640-L30C	239	199	36	8	A
30	□	MSL0640-L30C	239	199	36	8	B	
6.5	8	□	MPS0650-L8C	113	73	36	8	A
	10	□	MPS0650-L10C	126	86	36	8	A
	12	□	MPS0650-L12C	139	99	36	8	A
	15	□	MPS0650-L15C	158	118	36	8	A
	20	□	MPS0650-L20C	191	151	36	8	A
	20	□	MSL0650-L20C	191	151	36	8	B
	25	□	MPS0650-L25C	223	183	36	8	A
	25	□	MSL0650-L25C	223	183	36	8	B
	30	□	MPS0650-L30C	256	216	36	8	A
30	□	MSL0650-L30C	256	216	36	8	B	
6.6	8	□	MPS0660-L8C	118	78	36	8	A
	10	□	MPS0660-L10C	132	92	36	8	A
	12	□	MPS0660-L12C	146	106	36	8	A
	15	□	MPS0660-L15C	167	127	36	8	A
	20	□	MPS0660-L20C	202	162	36	8	A
	20	□	MSL0660-L20C	202	162	36	8	B
	25	□	MPS0660-L25C	237	197	36	8	A
	25	□	MSL0660-L25C	237	197	36	8	B
	30	□	MPS0660-L30C	272	232	36	8	A
30	□	MSL0660-L30C	272	232	36	8	B	
6.7	8	□	MPS0670-L8C	118	78	36	8	A
	10	□	MPS0670-L10C	132	92	36	8	A
	12	□	MPS0670-L12C	146	106	36	8	A
	15	□	MPS0670-L15C	167	127	36	8	A
	20	□	MPS0670-L20C	202	162	36	8	A
	20	□	MSL0670-L20C	202	162	36	8	B
	25	□	MPS0670-L25C	237	197	36	8	A
	25	□	MSL0670-L25C	237	197	36	8	B
	30	□	MPS0670-L30C	272	232	36	8	A
30	□	MSL0670-L30C	272	232	36	8	B	
6.8	8	□	MPS0680-L8C	118	78	36	8	A
	10	□	MPS0680-L10C	132	92	36	8	A
	12	□	MPS0680-L12C	146	106	36	8	A
	15	□	MPS0680-L15C	167	127	36	8	A
	20	□	MPS0680-L20C	202	162	36	8	A
	20	□	MSL0680-L20C	202	162	36	8	B
	25	□	MPS0680-L25C	237	197	36	8	A
	25	□	MSL0680-L25C	237	197	36	8	B
	30	□	MPS0680-L30C	272	232	36	8	A
30	□	MSL0680-L30C	272	232	36	8	B	
6.9	8	□	MPS0690-L8C	118	78	36	8	A
	10	□	MPS0690-L10C	132	92	36	8	A
	12	□	MPS0690-L12C	146	106	36	8	A
	15	□	MPS0690-L15C	167	127	36	8	A
	20	□	MPS0690-L20C	202	162	36	8	A
	20	□	MSL0690-L20C	202	162	36	8	B
	25	□	MPS0690-L25C	237	197	36	8	A
	25	□	MSL0690-L25C	237	197	36	8	B
	30	□	MPS0690-L30C	272	232	36	8	A
30	□	MSL0690-L30C	272	232	36	8	B	



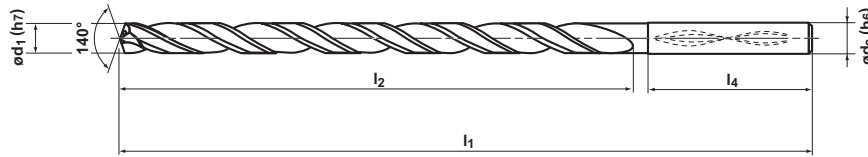
MPS/MSL
Super Long

■ Broca de metal duro integral para taladrado de agujeros profundos.

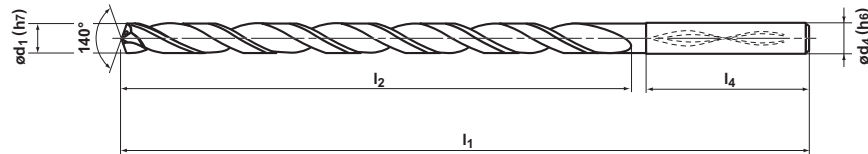
MPS / MSL BROCA EXTRALARGA



d1(h7)	3.0<d1≤6.0	6.0<d1≤10.0	10.0<d1≤14.0
Tolerancia	0 -0.012	0 -0.015	0 -0.018



Tipo A (MPS tipo con doble margen)



Tipo B (MSL tipo con margen estándar)

Diámetro de la broca d1 (mm)	Profundidad (l/d)	Stock	Referencia	Dimensiones (mm)				
				l1	l2	l4	d2	Tipo
7.0	8	<input type="checkbox"/>	MPS0700-L8C	118	78	36	8	A
	10	<input type="checkbox"/>	MPS0700-L10C	132	92	36	8	A
	12	<input type="checkbox"/>	MPS0700-L12C	146	106	36	8	A
	15	<input type="checkbox"/>	MPS0700-L15C	167	127	36	8	A
	20	<input type="checkbox"/>	MPS0700-L20C	202	162	36	8	A
	20	<input type="checkbox"/>	MSL0700-L20C	202	162	36	8	B
	25	<input type="checkbox"/>	MPS0700-L25C	237	197	36	8	A
	25	<input type="checkbox"/>	MSL0700-L25C	237	197	36	8	B
	30	<input type="checkbox"/>	MPS0700-L30C	272	232	36	8	A
	30	<input type="checkbox"/>	MSL0700-L30C	272	232	36	8	B
7.1	8	<input type="checkbox"/>	MPS0710-L8C	124	84	36	8	A
	10	<input type="checkbox"/>	MPS0710-L10C	139	99	36	8	A
	12	<input type="checkbox"/>	MPS0710-L12C	154	114	36	8	A
	15	<input type="checkbox"/>	MPS0710-L15C	176	136	36	8	A
	20	<input type="checkbox"/>	MPS0710-L20C	214	174	36	8	A
	20	<input type="checkbox"/>	MSL0710-L20C	214	174	36	8	B
	25	<input type="checkbox"/>	MPS0710-L25C	251	211	36	8	A
	25	<input type="checkbox"/>	MSL0710-L25C	251	211	36	8	B
	30	<input type="checkbox"/>	MPS0710-L30C	289	249	36	8	A
	30	<input type="checkbox"/>	MSL0710-L30C	289	249	36	8	B
7.2	8	<input type="checkbox"/>	MPS0720-L8C	124	84	36	8	A
	10	<input type="checkbox"/>	MPS0720-L10C	139	99	36	8	A
	12	<input type="checkbox"/>	MPS0720-L12C	154	114	36	8	A
	15	<input type="checkbox"/>	MPS0720-L15C	176	136	36	8	A
	20	<input type="checkbox"/>	MPS0720-L20C	214	174	36	8	A
	20	<input type="checkbox"/>	MSL0720-L20C	214	174	36	8	B
	25	<input type="checkbox"/>	MPS0720-L25C	251	211	36	8	A
	25	<input type="checkbox"/>	MSL0720-L25C	251	211	36	8	B
	30	<input type="checkbox"/>	MPS0720-L30C	289	249	36	8	A
	30	<input type="checkbox"/>	MSL0720-L30C	289	249	36	8	B
7.3	8	<input type="checkbox"/>	MPS0730-L8C	124	84	36	8	A
	10	<input type="checkbox"/>	MPS0730-L10C	139	99	36	8	A
	12	<input type="checkbox"/>	MPS0730-L12C	154	114	36	8	A
	15	<input type="checkbox"/>	MPS0730-L15C	176	136	36	8	A
	20	<input type="checkbox"/>	MPS0730-L20C	214	174	36	8	A
	20	<input type="checkbox"/>	MSL0730-L20C	214	174	36	8	B
	25	<input type="checkbox"/>	MPS0730-L25C	251	211	36	8	A
	25	<input type="checkbox"/>	MSL0730-L25C	251	211	36	8	B
	30	<input type="checkbox"/>	MPS0730-L30C	289	249	36	8	A
	30	<input type="checkbox"/>	MSL0730-L30C	289	249	36	8	B

Diámetro de la broca d1 (mm)	Profundidad (l/d)	Stock	Referencia	Dimensiones (mm)				
				l1	l2	l4	d2	Tipo
7.4	8	<input type="checkbox"/>	MPS0740-L8C	124	84	36	8	A
	10	<input type="checkbox"/>	MPS0740-L10C	139	99	36	8	A
	12	<input type="checkbox"/>	MPS0740-L12C	154	114	36	8	A
	15	<input type="checkbox"/>	MPS0740-L15C	176	136	36	8	A
	20	<input type="checkbox"/>	MPS0740-L20C	214	174	36	8	A
	20	<input type="checkbox"/>	MSL0740-L20C	214	174	36	8	B
	25	<input type="checkbox"/>	MPS0740-L25C	251	211	36	8	A
	25	<input type="checkbox"/>	MSL0740-L25C	251	211	36	8	B
	30	<input type="checkbox"/>	MPS0740-L30C	289	249	36	8	A
	30	<input type="checkbox"/>	MSL0740-L30C	289	249	36	8	B
7.5	8	<input type="checkbox"/>	MPS0750-L8C	124	84	36	8	A
	10	<input type="checkbox"/>	MPS0750-L10C	139	99	36	8	A
	12	<input type="checkbox"/>	MPS0750-L12C	154	114	36	8	A
	15	<input type="checkbox"/>	MPS0750-L15C	176	136	36	8	A
	20	<input type="checkbox"/>	MPS0750-L20C	214	174	36	8	A
	20	<input type="checkbox"/>	MSL0750-L20C	214	174	36	8	B
	25	<input type="checkbox"/>	MPS0750-L25C	251	211	36	8	A
	25	<input type="checkbox"/>	MSL0750-L25C	251	211	36	8	B
	30	<input type="checkbox"/>	MPS0750-L30C	289	249	36	8	A
	30	<input type="checkbox"/>	MSL0750-L30C	289	249	36	8	B
7.6	8	<input type="checkbox"/>	MPS0760-L8C	129	89	36	8	A
	10	<input type="checkbox"/>	MPS0760-L10C	145	105	36	8	A
	12	<input type="checkbox"/>	MPS0760-L12C	161	121	36	8	A
	15	<input type="checkbox"/>	MPS0760-L15C	185	145	36	8	A
	20	<input type="checkbox"/>	MPS0760-L20C	225	185	36	8	A
	20	<input type="checkbox"/>	MSL0760-L20C	225	185	36	8	B
	25	<input type="checkbox"/>	MPS0760-L25C	265	225	36	8	A
	25	<input type="checkbox"/>	MSL0760-L25C	265	225	36	8	B
	30	<input type="checkbox"/>	MPS0760-L30C	305	265	36	8	A
	30	<input type="checkbox"/>	MSL0760-L30C	305	265	36	8	B
7.7	8	<input type="checkbox"/>	MPS0770-L8C	129	89	36	8	A
	10	<input type="checkbox"/>	MPS0770-L10C	145	105	36	8	A
	12	<input type="checkbox"/>	MPS0770-L12C	161	121	36	8	A
	15	<input type="checkbox"/>	MPS0770-L15C	185	145	36	8	A
	20	<input type="checkbox"/>	MPS0770-L20C	225	185	36	8	A
	20	<input type="checkbox"/>	MSL0770-L20C	225	185	36	8	B
	25	<input type="checkbox"/>	MPS0770-L25C	265	225	36	8	A
	25	<input type="checkbox"/>	MSL0770-L25C	265	225	36	8	B
	30	<input type="checkbox"/>	MPS0770-L30C	305	265	36	8	A
	30	<input type="checkbox"/>	MSL0770-L30C	305	265	36	8	B

: No en stock, fabricación sólo bajo pedido.



TALADRADO

■ Broca de metal duro integral para taladrado de agujeros profundos.

Diámetro d1 de la broca (mm)	Profundidad (l/d)	Stock	Referencia	Dimensiones (mm)				
		VP15TF		l1	l2	l4	d2	Tipo
7.8	8	□	MPS0780-L8C	129	89	36	8	A
	10	□	MPS0780-L10C	145	105	36	8	A
	12	□	MPS0780-L12C	161	212	36	8	A
	15	□	MPS0780-L15C	185	145	36	8	A
	20	□	MPS0780-L20C	225	185	36	8	A
	20	□	MSL0780-L20C	225	185	36	8	B
	25	□	MPS0780-L25C	265	225	36	8	A
	25	□	MSL0780-L25C	265	225	36	8	B
	30	□	MPS0780-L30C	305	265	36	8	A
30	□	MSL0780-L30C	305	265	36	8	B	
7.9	8	□	MPS0790-L8C	129	89	36	8	A
	10	□	MPS0790-L10C	145	105	36	8	A
	12	□	MPS0790-L12C	161	212	36	8	A
	15	□	MPS0790-L15C	185	145	36	8	A
	20	□	MPS0790-L20C	225	185	36	8	A
	20	□	MSL0790-L20C	225	185	36	8	B
	25	□	MPS0790-L25C	265	225	36	8	A
	25	□	MSL0790-L25C	265	225	36	8	B
	30	□	MPS0790-L30C	305	265	36	8	A
30	□	MSL0790-L30C	305	265	36	8	B	
8.0	8	□	MPS0800-L8C	129	89	36	8	A
	10	□	MPS0800-L10C	145	105	36	8	A
	12	□	MPS0800-L12C	161	212	36	8	A
	15	□	MPS0800-L15C	185	145	36	8	A
	20	□	MPS0800-L20C	225	185	36	8	A
	20	□	MSL0800-L20C	225	185	36	8	B
	25	□	MPS0800-L25C	265	225	36	8	A
	25	□	MSL0800-L25C	265	225	36	8	B
	30	□	MPS0800-L30C	305	265	36	8	A
30	□	MSL0800-L30C	305	265	36	8	B	
8.1	8	□	MPS0810-L8C	139	95	40	10	A
	10	□	MPS0810-L10C	156	112	40	10	A
	12	□	MPS0810-L12C	173	129	40	10	A
	15	□	MPS0810-L15C	198	154	40	10	A
	20	□	MPS0810-L20C	241	197	40	10	A
	20	□	MSL0810-L20C	241	197	40	10	B
8.2	8	□	MPS0820-L8C	139	95	40	10	A
	10	□	MPS0820-L10C	156	112	40	10	A
	12	□	MPS0820-L12C	173	129	40	10	A
	15	□	MPS0820-L15C	198	154	40	10	A
	20	□	MPS0820-L20C	241	197	40	10	A
	20	□	MSL0820-L20C	241	197	40	10	B
	25	□	MPS0820-L25C	283	239	40	10	A
25	□	MSL0820-L25C	283	239	40	10	B	
8.3	8	□	MPS0830-L8C	139	95	40	10	A
	10	□	MPS0830-L10C	156	112	40	10	A
	12	□	MPS0830-L12C	173	129	40	10	A
	15	□	MPS0830-L15C	198	154	40	10	A
	20	□	MPS0830-L20C	241	197	40	10	A
	20	□	MSL0830-L20C	241	197	40	10	B
	25	□	MPS0830-L25C	283	239	40	10	A
25	□	MSL0830-L25C	283	239	40	10	B	
8.4	8	□	MPS0840-L8C	139	95	40	10	A
	10	□	MPS0840-L10C	156	112	40	10	A
	12	□	MPS0840-L12C	173	129	40	10	A
	15	□	MPS0840-L15C	198	154	40	10	A
	20	□	MPS0840-L20C	241	197	40	10	A
	20	□	MSL0840-L20C	241	197	40	10	B

Diámetro d1 de la broca (mm)	Profundidad (l/d)	Stock	Referencia	Dimensiones (mm)				
		VP15TF		l1	l2	l4	d2	Tipo
8.4	25	□	MPS0840-L25C	283	239	40	10	A
	25	□	MSL0840-L25C	283	239	40	10	B
8.5	8	□	MPS0850-L8C	139	95	40	10	A
	10	□	MPS0850-L10C	156	112	40	10	A
	12	□	MPS0850-L12C	173	129	40	10	A
	15	□	MPS0850-L15C	198	154	40	10	A
	20	□	MPS0850-L20C	241	197	40	10	A
	20	□	MSL0850-L20C	241	197	40	10	B
	25	□	MPS0850-L25C	283	239	40	10	A
25	□	MSL0850-L25C	283	239	40	10	B	
8.6	8	□	MPS0860-L8C	144	100	40	10	A
	10	□	MPS0860-L10C	162	118	40	10	A
	12	□	MPS0860-L12C	180	136	40	10	A
	15	□	MPS0860-L15C	207	163	40	10	A
	20	□	MPS0860-L20C	252	208	40	10	A
	20	□	MSL0860-L20C	252	208	40	10	B
	25	□	MPS0800-L25C	297	253	40	10	A
25	□	MSL0860-L25C	297	253	40	10	B	
8.7	8	□	MPS0870-L8C	144	100	40	10	A
	10	□	MPS0870-L10C	162	118	40	10	A
	12	□	MPS0870-L12C	180	136	40	10	A
	15	□	MPS0870-L15C	207	163	40	10	A
	20	□	MPS0870-L20C	252	208	40	10	A
	20	□	MSL0870-L20C	252	208	40	10	B
	25	□	MPS0870-L25C	297	253	40	10	A
25	□	MSL0870-L25C	297	253	40	10	B	
8.8	8	□	MPS0880-L8C	144	100	40	10	A
	10	□	MPS0880-L10C	162	118	40	10	A
	12	□	MPS0880-L12C	180	136	40	10	A
	15	□	MPS0880-L15C	207	163	40	10	A
	20	□	MPS0880-L20C	252	208	40	10	A
	20	□	MSL0880-L20C	252	208	40	10	B
8.9	8	□	MPS0890-L8C	144	100	40	10	A
	10	□	MPS0890-L10C	162	118	40	10	A
	12	□	MPS0890-L12C	180	136	40	10	A
	15	□	MPS0890-L15C	207	163	40	10	A
	20	□	MPS0890-L20C	252	208	40	10	A
	20	□	MSL0890-L20C	252	208	40	10	B
9.0	8	□	MPS0900-L8C	144	100	40	10	A
	10	□	MPS0900-L10C	162	118	40	10	A
	12	□	MPS0900-L12C	180	136	40	10	A
	15	□	MPS0900-L15C	207	163	40	10	A
	20	□	MPS0900-L20C	252	208	40	10	A
	20	□	MSL0900-L20C	252	208	40	10	B
9.1	8	□	MPS0910-L8C	151	107	40	10	A
	10	□	MPS0910-L10C	170	126	40	10	A
	12	□	MPS0910-L12C	189	145	40	10	A
	15	□	MPS0910-L15C	217	173	40	10	A
	20	□	MPS0910-L20C	265	221	40	10	A
	20	□	MSL0910-L20C	265	221	40	10	B



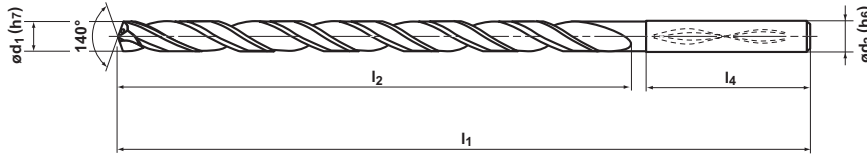
MPS/MSL
Super Long

■ Broca de metal duro integral para taladrado de agujeros profundos.

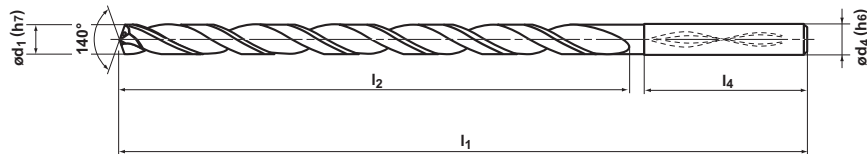
MPS / MSL BROCA EXTRALARGA



d1(h7)	3.0<d1≤6.0	6.0<d1≤10.0	10.0<d1≤14.0
Tolerancia	0 -0.012	0 -0.015	0 -0.018



Tipo A (MPS tipo con doble margen)



Tipo B (MSL tipo con margen estándar)

Diámetro de la broca d1 (mm)	Profundidad (l/d)	Stock	Referencia	Dimensiones (mm)				
				l1	l2	l4	d2	Tipo
9.2	8	<input type="checkbox"/>	MPS0920-L8C	151	78	40	10	A
	10	<input type="checkbox"/>	MPS0920-L10C	170	92	40	10	A
	12	<input type="checkbox"/>	MPS0920-L12C	189	106	40	10	A
	15	<input type="checkbox"/>	MPS0920-L15C	217	127	40	10	A
	20	<input type="checkbox"/>	MPS0920-L20C	265	162	40	10	A
	20	<input type="checkbox"/>	MSL0920-L20C	265	162	40	10	B
9.3	8	<input type="checkbox"/>	MPS0930-L8C	151	197	40	10	A
	10	<input type="checkbox"/>	MPS0930-L10C	170	197	40	10	A
	12	<input type="checkbox"/>	MPS0930-L12C	189	232	40	10	A
	15	<input type="checkbox"/>	MPS0930-L15C	217	232	40	10	A
	20	<input type="checkbox"/>	MPS0930-L20C	265	84	40	10	A
	20	<input type="checkbox"/>	MSL0930-L20C	265	99	40	10	B
9.4	8	<input type="checkbox"/>	MPS0940-L8C	151	114	40	10	A
	10	<input type="checkbox"/>	MPS0940-L10C	170	136	40	10	A
	12	<input type="checkbox"/>	MPS0940-L12C	189	174	40	10	A
	15	<input type="checkbox"/>	MPS0940-L15C	217	174	40	10	A
	20	<input type="checkbox"/>	MPS0940-L20C	265	211	40	10	A
	20	<input type="checkbox"/>	MSL0940-L20C	265	211	40	10	B
9.5	8	<input type="checkbox"/>	MPS0950-L8C	151	249	40	10	A
	10	<input type="checkbox"/>	MPS0950-L10C	170	249	40	10	A
	12	<input type="checkbox"/>	MPS0950-L12C	189	84	40	10	A
	15	<input type="checkbox"/>	MPS0950-L15C	217	99	40	10	A
	20	<input type="checkbox"/>	MPS0950-L20C	265	114	40	10	A
	20	<input type="checkbox"/>	MSL0950-L20C	265	136	40	10	B
9.6	8	<input type="checkbox"/>	MPS0960-L8C	156	112	40	10	A
	10	<input type="checkbox"/>	MPS0960-L10C	176	132	40	10	A
	12	<input type="checkbox"/>	MPS0960-L12C	196	152	40	10	A
	15	<input type="checkbox"/>	MPS0960-L15C	226	182	40	10	A
	20	<input type="checkbox"/>	MPS0960-L20C	276	232	40	10	A
	20	<input type="checkbox"/>	MSL0960-L20C	276	232	40	10	B
9.7	8	<input type="checkbox"/>	MPS0970-L8C	156	112	40	10	A
	10	<input type="checkbox"/>	MPS0970-L10C	176	132	40	10	A
	12	<input type="checkbox"/>	MPS0970-L12C	196	152	40	10	A
	15	<input type="checkbox"/>	MPS0970-L15C	226	182	40	10	A
	20	<input type="checkbox"/>	MPS0970-L20C	276	232	40	10	A
	20	<input type="checkbox"/>	MSL0970-L20C	276	232	40	10	B
9.8	8	<input type="checkbox"/>	MPS0980-L8C	156	112	40	10	A
	10	<input type="checkbox"/>	MPS0980-L10C	176	132	40	10	A
	12	<input type="checkbox"/>	MPS0980-L12C	196	152	40	10	A
	15	<input type="checkbox"/>	MPS0980-L15C	226	182	40	10	A

Diámetro de la broca d1 (mm)	Profundidad (l/d)	Stock	Referencia	Dimensiones (mm)				
				l1	l2	l4	d2	Tipo
9.8	20	<input type="checkbox"/>	MPS0980-L20C	276	232	40	10	A
	20	<input type="checkbox"/>	MSL0980-L20C	276	232	40	10	B
9.9	8	<input type="checkbox"/>	MPS0990-L8C	156	112	40	10	A
	10	<input type="checkbox"/>	MPS0990-L10C	176	132	40	10	A
	12	<input type="checkbox"/>	MPS0990-L12C	196	152	40	10	A
	15	<input type="checkbox"/>	MPS0990-L15C	226	182	40	10	A
	20	<input type="checkbox"/>	MPS0990-L20C	276	232	40	10	A
	20	<input type="checkbox"/>	MSL0990-L20C	276	232	40	10	B
10.0	8	<input type="checkbox"/>	MPS1000-L8C	156	112	40	10	A
	10	<input type="checkbox"/>	MPS1000-L10C	176	132	40	10	A
	12	<input type="checkbox"/>	MPS1000-L12C	196	152	40	10	A
	15	<input type="checkbox"/>	MPS1000-L15C	226	182	40	10	A
	20	<input type="checkbox"/>	MPS1000-L20C	276	232	40	10	A
	20	<input type="checkbox"/>	MSL1000-L20C	276	232	40	10	B
10.1	8	<input type="checkbox"/>	MPS1010-L8C	167	118	45	12	A
	10	<input type="checkbox"/>	MPS1010-L10C	188	139	45	12	A
	12	<input type="checkbox"/>	MPS1010-L12C	209	160	45	12	A
	15	<input type="checkbox"/>	MPS1010-L15C	240	191	45	12	A
	20	<input type="checkbox"/>	MPS1010-L20C	293	244	45	12	A
	20	<input type="checkbox"/>	MSL1010-L20C	293	244	45	12	B
10.2	8	<input type="checkbox"/>	MPS1020-L8C	167	118	45	12	A
	10	<input type="checkbox"/>	MPS1020-L10C	188	139	45	12	A
	12	<input type="checkbox"/>	MPS1020-L12C	209	160	45	12	A
	15	<input type="checkbox"/>	MPS1020-L15C	240	191	45	12	A
	20	<input type="checkbox"/>	MPS1020-L20C	293	244	45	12	A
	20	<input type="checkbox"/>	MSL1020-L20C	293	244	45	12	B
10.3	8	<input type="checkbox"/>	MPS1030-L8C	167	118	45	12	A
	10	<input type="checkbox"/>	MPS1030-L10C	188	139	45	12	A
	12	<input type="checkbox"/>	MPS1030-L12C	209	160	45	12	A
	15	<input type="checkbox"/>	MPS1030-L15C	240	191	45	12	A
	20	<input type="checkbox"/>	MPS1030-L20C	293	244	45	12	A
	20	<input type="checkbox"/>	MSL1030-L20C	293	244	45	12	B
10.4	8	<input type="checkbox"/>	MPS1040-L8C	167	118	45	12	A
	10	<input type="checkbox"/>	MPS1040-L10C	188	139	45	12	A
	12	<input type="checkbox"/>	MPS1040-L12C	209	160	45	12	A
	15	<input type="checkbox"/>	MPS1040-L15C	240	191	45	12	A
	20	<input type="checkbox"/>	MPS1040-L20C	293	244	45	12	A
	20	<input type="checkbox"/>	MSL1040-L20C	293	244	45	12	B
10.5	8	<input type="checkbox"/>	MPS1050-L8C	167	118	45	12	A
	10	<input type="checkbox"/>	MPS1050-L10C	188	139	45	12	A

: No en stock, fabricación sólo bajo pedido.



TALADRADO

■ Broca de metal duro integral para taladrado de agujeros profundos.

Diámetro d ₁ de la broca (mm)	Profundidad (l/d)	Stock	Referencia	Dimensiones (mm)				
		VP15TF		l ₁	l ₂	l ₄	d ₂	Tipo
10.5	12	☐	MPS1050-L12C	209	160	45	12	A
	15	☐	MPS1050-L15C	240	191	45	12	A
	20	☐	MPS1050-L20C	293	244	45	12	A
	20	☐	MSL1050-L20C	293	244	45	12	B
10.6	8	☐	MPS1060-L8C	172	123	45	12	A
	10	☐	MPS1060-L10C	194	145	45	12	A
	12	☐	MPS1060-L12C	216	167	45	12	A
	15	☐	MPS1060-L15C	249	200	45	12	A
	20	☐	MPS1060-L20C	304	255	45	12	A
10.7	20	☐	MSL1060-L20C	304	255	45	12	B
	8	☐	MPS1070-L8C	172	123	45	12	A
	10	☐	MPS1070-L10C	194	145	45	12	A
	12	☐	MPS1070-L12C	216	167	45	12	A
	15	☐	MPS1070-L15C	249	200	45	12	A
	20	☐	MPS1070-L20C	304	255	45	12	A
10.8	20	☐	MSL1070-L20C	304	255	45	12	B
	8	☐	MPS1080-L8C	172	123	45	12	A
	10	☐	MPS1080-L10C	194	145	45	12	A
	12	☐	MPS1080-L12C	216	167	45	12	A
	15	☐	MPS1080-L15C	249	200	45	12	A
	20	☐	MPS1080-L20C	304	255	45	12	A
10.9	20	☐	MSL1080-L20C	304	255	45	12	B
	8	☐	MPS1090-L8C	172	123	45	12	A
	10	☐	MPS1090-L10C	194	145	45	12	A
	12	☐	MPS1090-L12C	216	167	45	12	A
	15	☐	MPS1090-L15C	249	200	45	12	A
	20	☐	MPS1090-L20C	304	255	45	12	A
11.0	20	☐	MSL1090-L20C	304	255	45	12	B
	8	☐	MPS1100-L8C	172	123	45	12	A
	10	☐	MPS1100-L10C	194	145	45	12	A
	12	☐	MPS1100-L12C	216	167	45	12	A
	15	☐	MPS1100-L15C	249	200	45	12	A
	20	☐	MPS1100-L20C	304	255	45	12	A
11.1	20	☐	MSL1100-L20C	304	255	45	12	B
	8	☐	MPS1110-L8C	178	129	45	12	A
	10	☐	MPS1110-L10C	201	152	45	12	A
	12	☐	MPS1110-L12C	224	175	45	12	A
	15	☐	MPS1110-L15C	258	209	45	12	A
11.2	8	☐	MPS1120-L8C	178	129	45	12	A
	10	☐	MPS1120-L10C	201	152	45	12	A
	12	☐	MPS1120-L12C	224	175	45	12	A
	15	☐	MPS1120-L15C	258	209	45	12	A
11.3	8	☐	MPS1130-L8C	178	129	45	12	A
	10	☐	MPS1130-L10C	201	152	45	12	A
	12	☐	MPS1130-L12C	224	175	45	12	A
	15	☐	MPS1130-L15C	258	209	45	12	A
11.4	8	☐	MPS1140-L8C	178	129	45	12	A
	10	☐	MPS1140-L10C	201	152	45	12	A
	12	☐	MPS1140-L12C	224	175	45	12	A
	15	☐	MPS1140-L15C	258	209	45	12	A
11.5	8	☐	MPS1150-L8C	178	129	45	12	A
	10	☐	MPS1150-L10C	201	152	45	12	A
	12	☐	MPS1150-L12C	224	175	45	12	A
	15	☐	MPS1150-L15C	258	209	45	12	A
11.6	8	☐	MPS1160-L8C	183	134	45	12	A
	10	☐	MPS1160-L10C	207	158	45	12	A
	12	☐	MPS1160-L12C	231	182	45	12	A
	15	☐	MPS1160-L15C	267	218	45	12	A
11.7	8	☐	MPS1170-L8C	183	134	45	12	A
	10	☐	MPS1170-L10C	207	158	45	12	A

Diámetro d ₁ de la broca (mm)	Profundidad (l/d)	Stock	Referencia	Dimensiones (mm)				
		VP15TF		l ₁	l ₂	l ₄	d ₂	Tipo
11.7	12	☐	MPS1170-L12C	231	182	45	12	A
	15	☐	MPS1170-L15C	267	218	45	12	A
11.8	8	☐	MPS1180-L8C	183	134	45	12	A
	10	☐	MPS1180-L10C	207	158	45	12	B
	12	☐	MPS1180-L12C	231	182	45	12	A
11.9	15	☐	MPS1180-L15C	267	218	45	12	A
	8	☐	MPS1190-L8C	183	134	45	12	A
	10	☐	MPS1190-L10C	207	158	45	12	A
12.0	12	☐	MPS1190-L12C	231	182	45	12	A
	15	☐	MPS1190-L15C	267	218	45	12	B
	8	☐	MPS1200-L8C	183	134	45	12	A
12.1	10	☐	MPS1200-L10C	207	158	45	12	A
	12	☐	MPS1200-L12C	231	182	45	12	A
	15	☐	MPS1200-L15C	267	218	45	12	A
12.2	8	☐	MPS1210-L8C	189	140	45	14	A
	10	☐	MPS1210-L10C	214	165	45	14	B
	12	☐	MPS1210-L12C	239	190	45	14	A
12.3	15	☐	MPS1210-L15C	276	227	45	14	A
	8	☐	MPS1220-L8C	189	140	45	14	A
	10	☐	MPS1220-L10C	214	165	45	14	A
12.4	12	☐	MPS1220-L12C	239	190	45	14	A
	15	☐	MPS1220-L15C	276	227	45	14	B
	8	☐	MPS1230-L8C	189	140	45	14	A
12.5	10	☐	MPS1230-L10C	214	165	45	14	A
	12	☐	MPS1230-L12C	239	190	45	14	A
	15	☐	MPS1230-L15C	276	227	45	14	A
12.6	8	☐	MPS1240-L8C	189	140	45	14	A
	10	☐	MPS1240-L10C	214	165	45	14	B
	12	☐	MPS1240-L12C	239	190	45	14	A
12.7	15	☐	MPS1240-L15C	276	227	45	14	A
	8	☐	MPS1250-L8C	189	140	45	14	A
	10	☐	MPS1250-L10C	214	165	45	14	A
12.8	12	☐	MPS1250-L12C	239	190	45	14	A
	15	☐	MPS1250-L15C	276	227	45	14	B
	8	☐	MPS1260-L8C	194	145	45	14	A
12.9	10	☐	MPS1260-L10C	220	171	45	14	A
	12	☐	MPS1260-L12C	246	197	45	14	A
	15	☐	MPS1260-L15C	285	236	45	14	A
13.0	8	☐	MPS1270-L8C	194	145	45	14	A
	10	☐	MPS1270-L10C	220	171	45	14	A
	12	☐	MPS1270-L12C	246	197	45	14	A
	15	☐	MPS1270-L15C	285	236	45	14	A
13.1	8	☐	MPS1280-L8C	194	145	45	14	A
	10	☐	MPS1280-L10C	220	171	45	14	A
	12	☐	MPS1280-L12C	246	197	45	14	A
	15	☐	MPS1280-L15C	285	236	45	14	A
13.2	8	☐	MPS1290-L8C	194	145	45	14	A
	10	☐	MPS1290-L10C	220	171	45	14	A
	12	☐	MPS1290-L12C	246	197	45	14	A
	15	☐	MPS1290-L15C	285	236	45	14	A
13.3	8	☐	MPS1300-L8C	194	145	45	14	A
	10	☐	MPS1300-L10C	220	171	45	14	A
	12	☐	MPS1300-L12C	246	197	45	14	A
	15	☐	MPS1300-L15C	285	236	45	14	A
13.4	8	☐	MPS1310-L8C	200	151	45	14	A
	10	☐	MPS1310-L10C	227	178	45	14	A
	12	☐	MPS1310-L12C	254	205	45	14	A
	15	☐	MPS1310-L15C	294	245	45	14	A



MPS/MSL
Super Long

■ Broca de metal duro integral para taladrado de agujeros profundos.

MPS / MSL BROCA EXTRALARGA

Diámetro de la broca d ₁ (mm)	Profundidad (l/d)	Stock	Referencia	Dimensiones (mm)				
		VP15TF		l ₁	l ₂	l ₄	d ₂	
13.2	8	□	MPS1320-L8C	200	145	45	14	A
	10	□	MPS1320-L10C	227	171	45	14	A
	12	□	MPS1320-L12C	254	197	45	14	A
	15	□	MPS1320-L15C	294	236	45	14	A
13.3	8	□	MPS1330-L8C	200	151	45	14	A
	10	□	MPS1330-L10C	227	178	45	14	A
	12	□	MPS1330-L12C	254	205	45	14	A
	15	□	MPS1330-L15C	294	245	45	14	A
13.4	8	□	MPS1340-L8C	200	145	45	14	A
	10	□	MPS1340-L10C	227	171	45	14	A
	12	□	MPS1340-L12C	254	197	45	14	A
	15	□	MPS1340-L15C	294	236	45	14	A
13.5	8	□	MPS1350-L8C	200	151	45	14	A
	10	□	MPS1350-L10C	227	178	45	14	A
	12	□	MPS1350-L12C	254	205	45	14	A
	15	□	MPS1350-L15C	294	245	45	14	A
13.6	8	□	MPS1360-L8C	205	156	45	14	A
	10	□	MPS1360-L10C	233	184	45	14	A

Diámetro de la broca d ₁ (mm)	Profundidad (l/d)	Stock	Referencia	Dimensiones (mm)				
		VP15TF		l ₁	l ₂	l ₄	d ₂	
13.6	12	□	MPS1360-L12C	261	212	45	14	A
	15	□	MPS1360-L15C	303	254	45	14	A
13.7	8	□	MPS1370-L8C	205	156	45	14	A
	10	□	MPS1370-L10C	233	184	45	14	A
	12	□	MPS1370-L12C	231	212	45	14	A
13.8	15	□	MPS1370-L15C	303	254	45	14	A
	8	□	MPS1380-L8C	205	156	45	14	A
	10	□	MPS1380-L10C	233	184	45	14	A
13.9	12	□	MPS1380-L12C	231	212	45	14	A
	15	□	MPS1380-L15C	303	254	45	14	A
	8	□	MPS1390-L8C	205	156	45	14	A
14.0	10	□	MPS1390-L10C	233	184	45	14	A
	12	□	MPS1390-L12C	231	212	45	14	A
	15	□	MPS1390-L15C	303	254	45	14	A
14.0	8	□	MPS1400-L8C	205	156	45	14	A
	10	□	MPS1400-L10C	233	184	45	14	A
	12	□	MPS1400-L12C	231	212	45	14	A
14.0	15	□	MPS1400-L15C	303	254	45	14	A

□ : No en stock, fabricación sólo bajo pedido.

Condiciones de corte **MPS/MSL BROCA EXTRALARGA (L/D = 3 ~ 12)**

Material	Diámetro de la broca	Condiciones Dureza	ø3.0 – 6.0		ø6.0 – 10.0		ø10.0 – 14.0	
			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	≤ 180HB	≤ 180HB	110 (50 – 120)	0.20 (0.15 – 0.25)	130 (80 – 140)	0.25 (0.20 – 0.35)	150 (90 – 170)	0.30 (0.20 – 0.40)
		180 – 280HB	90 (50 – 100)	0.20 (0.15 – 0.25)	110 (70 – 120)	0.25 (0.20 – 0.35)	130 (80 – 140)	0.25 (0.20 – 0.40)
		280 – 350HB	80 (40 – 90)	0.20 (0.15 – 0.30)	90 (60 – 110)	0.25 (0.15 – 0.30)	110 (70 – 130)	0.25 (0.15 – 0.40)
M Acero inoxidable	≤ 200HB	≤ 200HB	50 (20 – 100)	0.10 (0.05 – 0.15)	60 (40 – 120)	0.20 (0.10 – 0.25)	70 (50 – 120)	0.25 (0.15 – 0.30)
K Fundición	≤ 350N/mm ²	≤ 350N/mm ²	100 (70 – 120)	0.25 (0.15 – 0.30)	130 (100 – 140)	0.30 (0.20 – 0.35)	150 (110 – 160)	0.35 (0.25 – 0.40)
	≤ 450N/mm ²	≤ 450N/mm ²	60 (30 – 80)	0.20 (0.15 – 0.25)	70 (40 – 90)	0.20 (0.15 – 0.30)	90 (50 – 110)	0.25 (0.20 – 0.40)
S Aleación resistente al calor	–	–	20 (10 – 25)	0.10 (0.05 – 0.15)	25 (15 – 30)	0.12 (0.05 – 0.15)	25 (15 – 30)	0.15 (0.10 – 0.20)

Condiciones de corte **MPS/MSL BROCA EXTRALARGA (L/D = 15 ~ 30)**

Material	Diámetro de la broca	Condiciones Dureza	ø3.0 – 6.0		ø6.0 – 10.0		ø10.0 – 14.0	
			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	≤ 180HB	≤ 180HB	85 (35 – 100)	0.20 (0.15 – 0.25)	85 (45 – 120)	0.25 (0.15 – 0.35)	90 (55 – 120)	0.30 (0.20 – 0.35)
		180 – 280HB	80 (40 – 95)	0.20 (0.15 – 0.25)	90 (50 – 120)	0.25 (0.20 – 0.35)	90 (60 – 130)	0.30 (0.15 – 0.35)
		280 – 350HB	75 (35 – 80)	0.15 (0.15 – 0.20)	80 (45 – 115)	0.20 (0.15 – 0.25)	85 (55 – 115)	0.25 (0.15 – 0.30)
M Acero inoxidable	≤ 200HB	≤ 200HB	50 (20 – 80)	0.10 (0.05 – 0.15)	60 (20 – 90)	0.12 (0.05 – 0.15)	70 (20 – 90)	0.15 (0.10 – 0.20)
K Fundición	≤ 350N/mm ²	≤ 350N/mm ²	70 (40 – 85)	0.25 (0.15 – 0.30)	75 (50 – 90)	0.30 (0.20 – 0.35)	80 (50 – 95)	0.35 (0.20 – 0.40)
	≤ 450N/mm ²	≤ 450N/mm ²	65 (35 – 80)	0.20 (0.15 – 0.25)	70 (45 – 85)	0.25 (0.15 – 0.30)	75 (45 – 90)	0.30 (0.20 – 0.35)
S Aleación resistente al calor	–	–	20 (10 – 25)	0.10 (0.05 – 0.15)	25 (15 – 30)	0.12 (0.05 – 0.15)	25 (15 – 30)	0.15 (0.10 – 0.20)

