
LSE445/NSE300/400

GAMA DE FRESADO FRONTAL Y ESCUADRADO CON
PLACAS POSITIVAS DE 20° PARA UN MECANIZADO
EFICIENTE Y FIABLE



*M*plus...

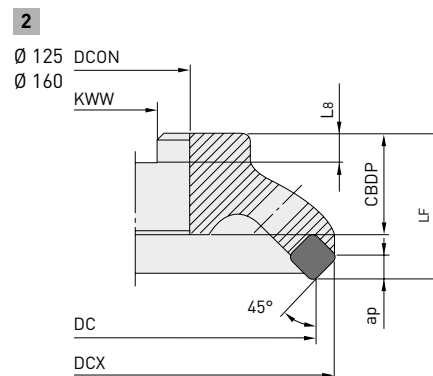
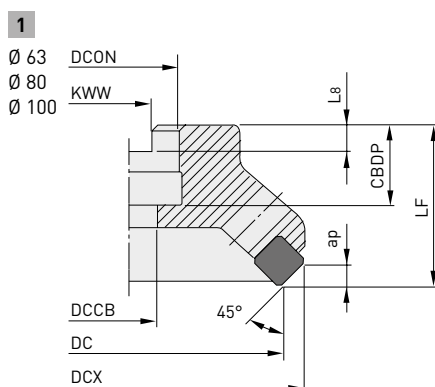
LSE445



FRESADO FRONTAL GENERAL EN 45°



CH:45°
A.R:+19° T:+13°
RR:-2° I:+15°



TIPO FRONTAL

Referencia	Stock		ZEFP	DC	DCX	LF	DCON	CBDP	DCCB	KWW	L8	WT	APMX	Tipo
	R	L												
LSE445-063A05R/L-E	●	□	5	63	76.5	40	22	20	11	10.4	6.4	0.8	5.5	1
LSE445-080A06R/L-E	●	□	6	80	93.5	50	27	22	13.5	12.4	7.0	1.0	5.5	1
LSE445-100A07R/L-E	●	□	7	100	113.5	50	32	25	17.5	14.4	8.0	1.4	5.5	1
LSE445-125B09R/L-E	□	□	9	125	138.5	50	40	32	—	16.4	9.0	2.0	5.5	2
LSE445-160B11R/L-E	□	□	11	160	173.5	50	40	32	—	16.4	9.0	3.0	5.5	2



REPUESTOS

Referencia herramienta	*1					
	Placa base	Tornillo	Cuña	Tornillo roscado	Llave	Llave
LSE445 -063A05R/L-E				LS10T		
LSE445 -080A04R/L-E						
LSE445-100A07R/L-E	STBE445NF	CS300890T	CWSE445TR	LS15T	TKY25T	TKY08F
LSE445-125B09R/L-E						
LSE445 -160B11R/L-E						

*1 Par de fijación (N • m) : LS10T=8.5. LS15T=8.5. CS300890T=1.0

PLACAS

P	Acero	●	●		●	●	●	●	●	●					
M	Acero Inoxidable	●	●		●	●	●	●	●	●	Condiciones de corte: ●:Corte Estable ●:Corte General ✖:Corte Inestable				
K	Fundición				✖	✖	●	●	✖	✖	Honing: E:Redondeo F:Afilado S:Chaflán + Piedra de afilar T:Chaflán Z:Duro				
N	Metales no férricos										E:Redondeo F:Afilado S:Chaflán + Piedra de afilar T:Chaflán Z:Duro				

Tipo de placa	Clase	Honing	F7010	F7030	MC5020	VP15TF	NX2525	NX4545	UTI20T	HT10	IC	S	BS	RE	Forma
SECN1203AFTN1	C	T							★		12.7	3.18	1.4	1.0	
SEEN1203AFFN1	E	F							●	12.7	3.18	1.4	1.0		
SEEN1203AFEN1	E	E				●				12.7	3.18	1.4	1.0		
SEEN1203AFTN1	E	T	●				●	●	●	12.7	3.18	1.4	1.0		
SEEN1203AFTN3	E	T	●					●	★	12.7	3.18	1.4	—		
SEEN1203AFSN1	E	S		●	●					12.7	3.18	1.4	1.0		
SEEN1203AFSN3	E	S		●						12.7	3.18	1.4	—		
SEEN1203AFZN1	E	Z					●			12.7	3.18	1.4	1.0		

Placas con rompevirutas

SEER1203AFEN-JS	E	E	●	●	●	●					12.7	3.18	1.4	1.0	
SEER1204AFEN-JS	E	E	●								12.7	3.18	1.4	1.0	

Placas wiper

WEC42AFTR5C	C	T					●				—	3.18	5	1.0	
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LSE445

CONDICIONES DE CORTE RECOMENDADAS

Material	Dureza	Calidad	Vc	fz
P Acero dulce	<180HB	F7030	300 (200-360)	0.2 (0.1-0.3)
		NX4545		
		UTi20T	240 (170-300)	
		UP20M		
Acero al carbono Acero aleado	180-280HB	F7030	250 (170-300)	0.2 (0.1-0.3)
		NX4545		
	280-350HB	UTi20T	200 (140-240)	0.15 (0.1-0.2)
		UP20M		
M Acero inoxidable	<200HB	UP20M	200 (140-240)	0.2 (0.1-0.3)
K Fundición	Resistencia a la tracción <450MPa	MC5020	200 (130-240)	0.2 (0.1-0.3)
		F5010		
		F5020	160 (110-190)	
		HTi10		
N Aleación de aluminio	—	MD220	1000 (200-1500)	0.15 (0.05-0.25)
		HTi10	1000 (700-1200)	0.12 (0.05-0.2)

1. Revoluciones (min^{-1}) = $(1000 \times \text{Velocidad de corte}) \div (3.14 \times \text{ØD1})$

2. Avance de mesa (mm/min) = Avance por mesa \times Número de dientes \times Revoluciones de corte



NSE300/400



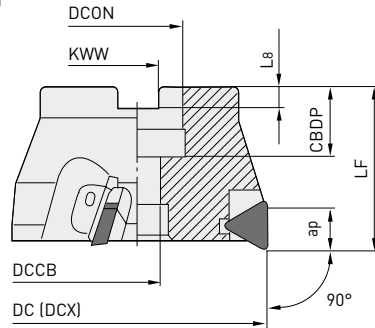
FRESADO ESCUADRADO GENERAL EN 90°

P M K N

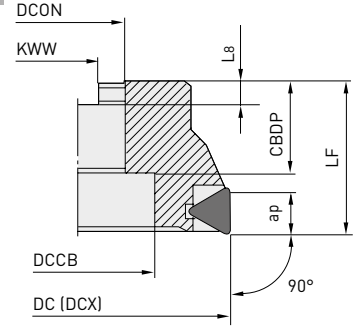


C H: 0°
A.R: +16° T: +5° - +8°
R.R: +5° - +8° l: +16°

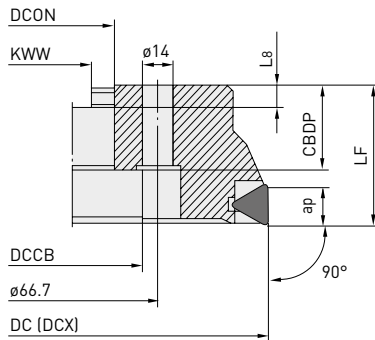
1



2



3



Solo herramienta a mano derecha.

TIPO FRONTAL

Referencia	Stock	ZEFP	DC	DCX	LF	DCON	CBDP	DCCB	KWW	L8	WT	APMX	Tipo
NSE300-050A04R-E	●	4	50	50	40	22	20	11	10.4	6.3	0.3	12.5	1
NSE300-063A05R-E	●	5	63	63	40	22	20	11	10.4	6.3	0.5	12.5	1
NSE300-080A06R-E	●	6	80	80	50	27	22	13.5	12.4	7	1.1	12.5	1
NSE300-100A08R-E	●	8	100	100	50	32	25	17.5	14.4	8	2.1	12.5	1
NSE300-125B10R-E	●	10	125	125	63	40	32	56	16.4	9	3.2	12.5	2
NSE300-160C12R-E	□	12	160	160	63	40	29	56	16.4	9	5.4	12.5	3
NSE400-080A06R-E	□	6	80	80	50	27	22	13.5	12.4	7	1.1	17	1
NSE400-100A07R-E	□	7	100	100	50	32	25	17.5	14.4	8	2.1	17	1
NSE400-125B08R-E	□	8	125	125	63	40	32	56	16.4	9	3.2	17	2
NSE400-160C10R-E	□	10	160	160	63	40	29	56	16.4	9	5.4	17	3



REPUESTOS

Referencia herramienta	Apoyo	Cuña-T	Apoyo	Cuña-T	Tornillo roscado *	Tornillo roscado *	Llave (Tornillo)	Llave (Se vende por separado)
NSE300-050A04R-E		CWTSE300TR			LS19T		TKY15T	
NSE300-063A05R-E	SPTSE300R							
NSE300-080A06R-E		CWNSE300TR			LS10T	TS32		TKY08F
NSE300-160C12R-E							TKY25T	
NSE400-E			SPTSE400R	CWSE300TR	LS10TS			

* Par de fijación (N • m) : LS10T=8.5. LS10TS=8.5. LS19T=5.0. TS32=1.0

● : Stock Europa. □ : A fabricar según demanda.

PLACAS

P	Acero												Condiciones de corte :
M	Acero Inoxidable												●:Corte Estable ●:Corte General ✚:Corte Inestable
K	Fundición												Honing:
N	Metales no férricos												E:Redondeo F:Afilado S:Chaflán + Piedra de afilar T:Chaflán Z:Duro

Tipo de placa	Clase	Honing	F7030	MC5020	VP15TF	UP20M	NX2525	NX4545	UT120T	HT10	IC	S	BS	RE	Forma
TECN1603PEFR1W	C	F								★	9.525	3.175	1.4	0.4	
TECN1603PEER1W	C	E								★	9.525	3.175	1.4	0.4	
TECN1603PETR1W	C	T					★	★	★		9.525	3.175	1.4	0.4	
TEEN1603PEFR1	E	F								●	9.525	3.175	1.4	0.4	
TEEN1603PEER1	E	E								●	9.525	3.175	1.4	0.4	
TEEN1603PETR1	E	T				●	●	●	●		9.525	3.175	1.4	0.4	
TEEN1603PESR1	E	S	●	●							9.525	3.175	1.4	0.4	
TEEN1603PEZR1	E	Z					●				9.525	3.175	1.4	0.4	
TECN2204PEFR1	C	F								★	12.7	4.76	1.4	1.0	
TECN2204PETR1	C	T							★		12.7	4.76	1.4	1.0	
TEEN2204PEFR1	E	F								●	12.7	4.76	1.4	1.0	
TEEN2204PEER1	E	E			★					●	12.7	4.76	1.4	1.0	
TEEN2204PETR1	E	T				●	★	●	●		12.7	4.76	1.4	1.0	
TEEN2204PESR1	E	S	●	●							12.7	4.76	1.4	1.0	
Placas con rompevirutas															
TEER1603PEER-JS	E	E	●							●	9.525	3.175	1.4	0.4	
TEER2204PEER-JS	E	E	●							★	12.7	4.76	1.4	1.0	

NSE300/400

CONDICIONES DE CORTE RECOMENDADAS

Material	Dureza	Calidad	Vc	fz	
P Acero dulce Acero al carbono Acero aleado	<180HB	F7030	240 (160-290)	0.2 (0.1-0.3)	
		NX4545			
		UTi20T			
	180-280HB	UP20M	190 (125-230)		
		F7030			200 (135-240)
		NX4545			
UTi20T					
280-350HB	UP20M	160 (110-190)			
	UTi20T		110 (80-135)		
	UTi20T				
M Acero inoxidable	<200HB	UP20M		160 (125-200)	0.2 (0.1-0.3)
		UTi20T			
K Fundición	Resistencia a la tracción <450MPa	MC5020	200 (130-240)	0.2 (0.1-0.3)	
		F5010			
		F5020			
		HTi10			
		UTi20T			160 (110-190)
MD220	1000 (200-1500)	0.15 (0.05-0.25)			
N Aleación de aluminio			-	HTi10	800 (560-960)

1. Revoluciones (min^{-1}) = $(1000 \times \text{Velocidad de corte}) \div (3.14 \times \text{ØD1})$

2. Avance de mesa (mm/min) = Avance por mesa \times Número de dientes \times Revoluciones de corte





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