

2116 **HSSE DIN 371** **M** **Form. B "Gun"** **Tol. 6H** **3XD** **R** **TIN+**
DIN 13

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 15-30	● 12-18	○ 8-12		● 6-12	○ 6-10	● 10-15	● 15-20		● 15-25	● 15-25		○ 12-18					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	∠ mm	d mm
M2,0	0,40	32,91	45	10	2,10	2,8
M2,5	0,45	32,91	50	9	2,10	2,8
M3,0	0,50	23,08	56	11	2,70	3,5
M3,5	0,60	27,17	56	12	3,00	4,0
M4,0	0,70	23,27	63	13	3,40	4,5

Ø	P	€	L mm	I mm	∠ mm	d mm
M5,0	0,80	25,45	70	16	4,90	6,0
M6,0	1,00	26,37	80	19	4,90	6,0
M8,0	1,25	31,58	90	22	6,20	8,0
M10,0	1,50	41,52	100	24	8,00	10,0

2115 **HSSE DIN 376/374** **M-MF** **Form. B "Gun"** **Tol. 6H** **3XD** **D** **TIN+**
DIN 13

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 15-30	● 12-18	○ 8-12		● 6-12	○ 6-10	● 10-15	● 15-20		● 15-25	● 15-25		○ 12-18					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	∠ mm	d mm
M3,0	0,50	25,46	56	11	2,00	2,2
M4,0	0,70	27,42	63	13	2,10	2,8
M5,0	0,80	29,74	70	16	2,70	3,5
M6,0	1,00	30,73	80	19	3,40	4,5
M8,0	1,00	47,25	90	20	4,90	6,0
M8,0	1,25	36,72	90	22	4,90	6,0
M10,0	1,00	55,70	90	20	5,50	7,0
M10,0	1,25	60,84	100	20	5,50	7,0
M10,0	1,50	46,47	100	24	5,50	7,0
M12,0	1,00	69,29	100	20	7,00	9,0
M12,0	1,25	76,74	100	20	7,00	9,0
M12,0	1,50	66,46	100	20	7,00	9,0
M12,0	1,75	57,61	110	29	7,00	9,0
M14,0	1,00	91,36	100	20	9,00	11,0
M14,0	1,25	85,16	100	20	9,00	11,0
M14,0	1,50	88,07	100	20	9,00	11,0
M14,0	2,00	76,00	110	30	9,00	11,0

Ø	P	€	L mm	I mm	∠ mm	d mm
M16,0	1,00	105,93	100	20	9,00	12,0
M16,0	1,50	92,16	100	22	9,00	12,0
M16,0	2,00	82,33	110	30	9,00	12,0
M18,0	1,00	131,12	110	24	11,00	14,0
M18,0	1,50	117,01	110	24	11,00	14,0
M18,0	2,50	111,80	125	34	11,00	14,0
M20,0	1,00	124,41	125	24	12,00	16,0
M20,0	1,50	131,76	125	25	12,00	16,0
M20,0	2,50	122,42	140	34	12,00	16,0
M22,0	1,00	168,83	125	25	14,50	18,0
M22,0	1,50	164,86	125	25	14,50	18,0
M22,0	2,50	164,93	140	34	14,50	18,0
M24,0	1,50	179,43	140	27	14,50	18,0
M24,0	2,00	196,89	140	27	14,50	18,0
M24,0	3,00	168,76	160	38	14,50	18,0
M27,0	3,00	210,95	160	38	16,00	20,0
M30,0	3,50	263,69	180	40	18,00	22,0

2254 HSSE-PM DIN 371

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
20-40	15-30	10-20	5-10	5-15	5-10	10-30	10-30	5-15	10-30	10-30	5-15	10-30	2-8	2-15			

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	l mm	mm	d mm
M2,0*	0,40	46,29	45	10	2,10	2,8
M3,0	0,50	33,77	56	5	2,70	3,5
M4,0	0,70	35,56	63	7	3,40	4,5
M5,0	0,80	38,63	70	8	4,90	6,0

Ø	P	€	L mm	l mm	mm	d mm
M6,0	1,00	40,03	80	10	4,90	6,0
M8,0	1,25	48,08	90	13	6,20	8,0
M10,0	1,50	63,23	100	15	8,00	10,0

*Tol 6H

2255 HSSE-PM DIN 376/374

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
20-40	15-30	10-20	5-10	5-15	5-10	10-30	10-30	5-15	10-30	10-30	5-15	10-30	2-8	2-15			

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	l mm	mm	d mm
M8,0	1,25	61,17	90	15	4,90	6,0
M10,0	1,00	71,68	90	10	5,50	7,0
M10,0	1,50	74,66	100	17	5,50	7,0
M12,0	1,00	136,90	100	10	7,00	9,0
M12,0	1,25	136,90	100	15	7,00	9,0
M12,0	1,50	99,82	100	15	7,00	9,0
M12,0	1,75	86,90	110	18	7,00	9,0
M14,0	1,50	136,84	100	15	9,00	11,0
M14,0	2,00	117,46	110	20	9,00	11,0

Ø	P	€	L mm	l mm	mm	d mm
M16,0	1,50	137,80	100	15	9,00	12,0
M16,0	2,00	123,59	110	20	9,00	12,0
M18,0	1,50	187,57	110	17	11,00	14,0
M18,0	2,50	186,84	125	25	11,00	14,0
M20,0	1,50	212,23	125	17	12,00	16,0
M20,0	2,50	217,00	140	25	12,00	16,0
M22,0	2,50	276,21	140	25	14,50	18,0
M24,0	3,00	280,20	160	30	14,50	18,0

2195

HSSE-PM DIN 371

M
DIN 13
Form.
B
"Gun"
Tol.
6HX
3XD
R
HL

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
20-50	20-50	20-50	20-50	5-25	5-25	10-50	10-50	5-15	10-50	10-50	10-50	10-50	1-8	1-8			

Vc (m/min). • Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY

NEW



Ø	P	€	L mm	l mm	∠ mm	d mm
M5,0	0,80	62,65	70	8	4,90	6,0
M6,0	1,00	64,00	80	10	4,90	6,0

Ø	P	€	L mm	l mm	∠ mm	d mm
M8,0	1,25	74,70	90	13	6,20	8,0
M10,0	1,50	98,35	100	15	8,00	10,0

2196

HSSE-PM DIN 376

M
DN 13
Form.
B
"Gun"
Tol.
6HX
3XD
D
HL

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
20-50	20-50	20-50	20-50	5-25	5-25	10-50	10-50	5-15	10-50	10-50	10-50	10-50	1-8	1-8			

Vc (m/min). • Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY

NEW



Ø	P	€	L mm	l mm	∠ mm	d mm
M12,0	1,75	147,20	110	18	7,00	9,0
M14,0	2,00	191,40	110	20	9,00	11,0

Ø	P	€	L mm	l mm	∠ mm	d mm
M16,0	2,00	211,05	110	20	9,00	12,0

2252

HSSE DIN 371

M
DIN 13

Form.
C



Tol.
6H



3XD

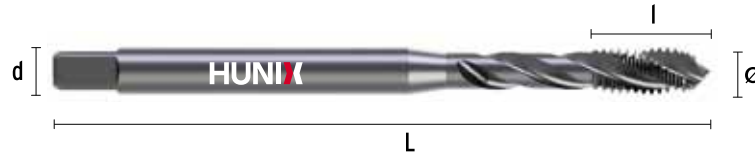


VAP

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	○ 10-15			● 5-10	○ 5-8		○ 10-15			● 10-20		○ 10-15					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	∠ mm	d mm
M2,0	0,40	36,10	45	5	2,10	2,8
M2,5	0,45	36,10	50	5	2,10	2,8
M3,0	0,50	20,03	56	6	2,70	3,5
M3,5	0,60	24,02	56	6	3,00	4,0
M4,0	0,70	20,37	63	7	3,40	4,5

Ø	P	€	L mm	I mm	∠ mm	d mm
M5,0	0,80	21,52	70	8	4,90	6,0
M6,0	1,00	21,52	80	10	4,90	6,0
M8,0	1,25	25,01	90	14	6,20	8,0
M10,0	1,50	32,01	100	16	8,00	10,0

2253

HSSE DIN 376/374

M-MF
DIN13

Form.
C



Tol.
6H



3XD



VAP

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	○ 10-15			● 5-10	○ 5-8		○ 10-15			● 10-20		○ 10-15					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	∠ mm	d mm
M3,0	0,50	22,98	56	5	2,00	2,2
M4,0	0,70	23,47	63	7	2,10	2,8
M5,0	0,80	24,68	70	8	2,70	3,5
M6,0	1,00	24,68	80	10	3,40	4,5
M8,0	1,00	37,40	90	10	4,90	6,0
M8,0	1,25	28,76	90	14	4,90	6,0
M10,0	1,00	42,29	90	10	5,50	7,0
M10,0	1,25	49,29	100	15	5,50	7,0
M10,0	1,50	35,26	100	16	5,50	7,0
M12,0	1,00	54,42	100	10	7,00	9,0
M12,0	1,25	59,07	100	15	7,00	9,0
M12,0	1,50	54,42	100	15	7,00	9,0
M12,0	1,75	45,39	110	18	7,00	9,0
M14,0	1,00	74,31	100	10	9,00	11,0
M14,0	1,25	68,21	100	15	9,00	11,0
M14,0	1,50	74,31	100	15	9,00	11,0
M14,0	2,00	62,02	110	20	9,00	11,0

Ø	P	€	L mm	I mm	∠ mm	d mm
M16,0	1,00	86,14	100	10	9,00	12,0
M16,0	1,50	76,25	100	15	9,00	12,0
M16,0	2,00	66,32	110	20	9,00	12,0
M18,0	1,00	118,39	110	13	11,00	14,0
M18,0	1,50	91,08	110	20	11,00	14,0
M18,0	2,50	91,08	125	25	11,00	14,0
M20,0	1,00	115,77	125	13	12,00	16,0
M20,0	1,50	106,07	125	20	12,00	16,0
M20,0	2,50	96,47	140	25	12,00	16,0
M22,0	1,00	194,03	125	13	14,50	18,0
M22,0	1,50	137,44	125	17	14,50	18,0
M22,0	2,50	137,44	140	27	14,50	18,0
M24,0	1,50	140,13	140	20	14,50	18,0
M24,0	2,00	152,85	140	20	14,50	18,0
M24,0	3,00	127,34	160	30	14,50	18,0
M27,0	3,00	159,18	160	30	16,00	20,0
M30,0	3,50	198,97	180	35	18,00	22,0

2118 **HSSE DIN 371** **M** **DIN 13** **Form. C** **Tol. 6H** **3XD** **R** **TIN+**

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	● 12-18	○ 8-12		● 6-12	○ 6-10		● 15-20			● 15-25		○ 12-18					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative



MICRO FINISH
THREADING TECHNOLOGY

Ø	P	€	L mm	I mm	∠ mm	d mm
M2,0	0,40	38,82	45	5	2,10	2,8
M2,5	0,45	38,82	50	5	2,10	2,8
M3,0	0,50	24,12	56	6	2,70	3,5
M3,5	0,60	30,65	56	6	3,00	4,0
M4,0	0,70	24,32	63	7	3,40	4,5

Ø	P	€	L mm	I mm	∠ mm	d mm
M5,0	0,80	26,49	70	8	4,90	6,0
M6,0	1,00	27,42	80	10	4,90	6,0
M8,0	1,25	32,96	90	14	6,20	8,0
M10,0	1,50	43,30	100	16	8,00	10,0

2117 **HSSE DIN 376/374** **M-MF** **DIN 13** **Form. C** **Tol. 6H** **3XD** **D** **TIN+**

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	● 12-18	○ 8-12		● 6-12	○ 6-10		● 15-20			● 15-25		○ 12-18					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative



MICRO FINISH
THREADING TECHNOLOGY

Ø	P	€	L mm	I mm	∠ mm	d mm
M3,0	0,50	25,99	56	5	1,80	2,2
M4,0	0,70	29,80	63	7	2,10	2,8
M5,0	0,80	32,23	70	8	2,70	3,5
M6,0	1,00	33,22	80	10	3,40	4,5
M8,0	1,00	51,29	90	10	4,90	6,0
M8,0	1,25	39,68	90	14	4,90	6,0
M10,0	1,00	60,13	90	10	5,50	7,0
M10,0	1,25	65,78	100	15	5,50	7,0
M10,0	1,50	50,10	100	16	5,50	7,0
M12,0	1,00	74,76	100	10	7,00	9,0
M12,0	1,25	83,18	100	15	7,00	9,0
M12,0	1,50	71,66	100	15	7,00	9,0
M12,0	1,75	61,96	110	18	7,00	9,0
M14,0	1,00	99,08	100	10	9,00	11,0
M14,0	1,25	92,08	100	15	9,00	11,0
M14,0	1,50	95,25	100	15	9,00	11,0
M14,0	2,00	81,94	110	20	9,00	11,0

Ø	P	€	L mm	I mm	∠ mm	d mm
M16,0	1,00	114,64	100	10	9,00	12,0
M16,0	1,50	99,47	100	15	9,00	12,0
M16,0	2,00	88,80	110	20	9,00	12,0
M18,0	1,00	136,70	110	13	11,00	14,0
M18,0	1,50	125,91	110	20	11,00	14,0
M18,0	2,50	120,63	125	25	11,00	14,0
M20,0	1,00	134,22	125	13	12,00	16,0
M20,0	1,50	142,07	125	20	12,00	16,0
M20,0	2,50	131,76	140	25	12,00	16,0
M22,0	1,00	182,92	125	13	14,50	18,0
M22,0	1,50	178,18	125	17	14,50	18,0
M22,0	2,50	178,11	140	27	14,50	18,0
M24,0	1,50	192,94	140	20	14,50	18,0
M24,0	2,00	224,06	140	20	14,50	18,0
M24,0	3,00	181,07	160	30	14,50	18,0
M27,0	3,00	226,35	160	30	16,00	20,0
M30,0	3,50	282,93	180	35	18,00	22,0

2256 **HSSE-PM DIN 371** **M** **DIN 13** **Form. C** **Tol. 6HX** **3XD** **R** **HL**

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
20-40	15-30	10-20	5-10	5-15	5-15	10-30	10-30	5-15	10-30	10-30	5-15	10-30	2-8	2-15			

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	l mm	∠ mm	d mm
M2,0*	0,40	51,51	45	10	2,10	2,8
M3,0	0,50	38,41	56	5	2,70	3,5
M4,0	0,70	40,42	63	7	3,40	4,5
M5,0	0,80	43,90	70	8	4,90	6,0

Ø	P	€	L mm	l mm	∠ mm	d mm
M6,0	1,00	45,50	80	10	4,90	6,0
M8,0	1,25	54,64	90	13	6,20	8,0
M10,0	1,50	71,90	100	15	8,00	10,0

*Tol 6H

2257 **HSSE-PM DIN 376/374** **M** **DIN 13** **Form. C** **Tol. 6HX** **3XD** **D** **HL**

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
20-40	15-30	10-20	5-10	5-15	5-15	10-30	10-30	5-15	10-30	10-30	5-15	10-30	2-8	2-15			

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	l mm	∠ mm	d mm
M8,0	1,25	66,17	90	15	4,90	6,0
M10,0	1,00	83,25	90	10	5,50	7,0
M10,0	1,50	97,13	100	17	5,50	7,0
M12,0	1,00	109,99	100	10	7,00	9,0
M12,0	1,25	148,81	100	15	7,00	9,0
M12,0	1,50	116,11	100	15	7,00	9,0
M12,0	1,75	100,44	110	18	7,00	9,0
M14,0	1,50	153,58	100	15	9,00	11,0
M14,0	2,00	132,24	110	20	9,00	11,0

Ø	P	€	L mm	l mm	∠ mm	d mm
M16,0	1,50	160,49	100	15	9,00	12,0
M16,0	2,00	143,36	110	20	9,00	12,0
M18,0	1,50	218,58	110	17	11,00	14,0
M18,0	2,50	202,06	125	25	11,00	14,0
M20,0	1,50	249,42	125	17	12,00	16,0
M20,0	2,50	241,16	140	25	12,00	16,0
M22,0	2,50	299,02	140	25	14,50	18,0
M24,0	3,00	293,96	160	30	14,50	18,0

2288 **HSSE-PM DIN 371** **M**
DIN 13 **Form.**
C **Tol.**
6HX **45°** **3XD** **R** **HL**

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
●	●	●	●	●	●	●	●	○	●	●	●	●	●	●			
20-50	20-50	20-50	20-50	5-25	5-25	10-50	10-50	5-15	10-50	10-50	10-50	10-50	1-8	1-8			

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

NEW

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	mm	d mm
M5,0	0,80	68,40	70	8	4,90	6,0
M6,0	1,00	70,10	80	10	4,90	6,0

Ø	P	€	L mm	I mm	mm	d mm
M8,0	1,25	83,65	90	13	6,20	8,0
M10,0	1,50	109,20	100	15	8,00	10,0

2289 **HSSE-PM DIN 376** **M**
DIN 13 **Form.**
C **Tol.**
6HX **45°** **3XD** **D** **HL**

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
●	●	●	●	●	●	●	●	○	●	●	●	●	●	●			
20-50	20-50	20-50	20-50	5-25	5-25	10-50	10-50	5-15	10-50	10-50	10-50	10-50	1-8	1-8			

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

NEW

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	mm	d mm
M12,0	1,75	126,15	110	18	7,00	9,0
M14,0	2,00	220,15	110	20	9,00	11,0

Ø	P	€	L mm	I mm	mm	d mm
M16,0	2,00	229,05	110	20	9,00	12,0

2262 HSSE DIN 371

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	○ 10-15			● 5-10	○ 5-8		○ 10-15		○ 10-15	● 10-20		○ 10-15					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	∠ mm	d mm
Nº4	40,00	30,11	56	10	2,70	3,5
Nº5	40,00	28,07	56	10	2,70	3,5
Nº6	32,00	28,07	56	12	3,00	4,0
Nº8	32,00	28,07	63	12	3,40	4,5
Nº10	24,00	28,40	70	14	4,90	6,0

Ø	P	€	L mm	I mm	∠ mm	d mm
Nº12	24,00	30,04	80	18	4,90	6,0
1/4	20,00	30,04	80	18	5,50	7,0
5/16	18,00	32,46	90	20	6,20	8,0
3/8	16,00	38,35	100	20	8,00	10,0

2263 HSSE DIN 376

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	○ 10-15			● 5-10	○ 5-8		○ 10-15		○ 10-15	● 10-20		○ 10-15					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	∠ mm	d mm
7/16	14,00	54,49	100	22	6,20	8,0
1/2	13,00	54,49	110	24	7,00	9,0
9/16	12,00	74,39	110	25	9,00	11,0
5/8	11,00	72,95	110	32	9,00	12,0

Ø	P	€	L mm	I mm	∠ mm	d mm
3/4	10,00	106,13	125	32	11,00	14,0
7/8	9,00	151,18	140	32	14,50	18,0
1"	8,00	140,07	160	38	16,00	20,0

2234

HSSE DIN 371

UNC
ANSI/ASME
B1.1

Form.
B
"Gun"



Tol.
2B



3XD

TIN+

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 15-30	● 12-18	○ 8-12		● 6-12	○ 6-10	● 10-15	● 15-20		● 15-25	● 15-30		○ 12-18					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	∠ mm	d mm
N°4	40,00	41,13	56	10	2,70	3,5
N°5	40,00	37,10	56	10	2,70	3,5
N°6	32,00	37,10	56	12	3,00	4,0
N°8	32,00	37,10	63	12	3,40	4,5
N°10	24,00	39,87	70	14	4,90	6,0

Ø	P	€	L mm	I mm	∠ mm	d mm
N°12	24,00	41,68	80	18	4,90	6,0
1/4	20,00	41,68	80	18	5,50	7,0
5/16	18,00	46,75	90	20	6,20	8,0
3/8	16,00	57,43	100	20	8,00	10,0

2235

HSSE DIN 376

UNC
ANSI/ASME
B1.1

Form.
B
"Gun"



Tol.
2B



3XD

TIN+

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 15-30	● 12-18	○ 8-12		● 6-12	○ 6-10	● 10-15	● 15-20		● 15-25	● 15-30		○ 12-18					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	∠ mm	d mm
7/16	14,00	80,30	100	22	6,20	8,0
1/2	13,00	82,75	110	24	7,00	9,0
9/16	12,00	112,96	110	25	9,00	11,0
5/8	11,00	107,10	110	32	9,00	12,0

Ø	P	€	L mm	I mm	∠ mm	d mm
3/4	10,00	158,05	125	32	11,00	14,0
7/8	9,00	236,83	140	32	14,50	18,0
1"	8,00	218,57	160	38	16,00	20,0

2264

HSSE DIN 371

UNC
ANSI/ASME
B1.1

Form.
C



Tol.
2B



3XD

VAP

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	○ 10-15			● 5-10	○ 5-8		○ 10-15			● 10-20		○ 10-15					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	∠ mm	d mm
Nº4	40,00	33,17	56	5	2,70	3,5
Nº5	40,00	30,82	56	7	2,70	3,5
Nº6	32,00	30,82	56	6	3,00	4,0
Nº8	32,00	30,82	63	7	3,40	4,5
Nº10	24,00	31,37	70	8	4,90	6,0

Ø	P	€	L mm	I mm	∠ mm	d mm
Nº12	24,00	33,08	80	10	4,90	6,0
1/4	20,00	33,08	80	13	5,50	7,0
5/16	18,00	35,76	90	13	6,20	8,0
3/8	16,00	42,19	100	15	8,00	10,0

2265

HSSE DIN 376

UNC
ANSI/ASME

Form.
C



Tol.
2B



3XD

VAP

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	○ 10-15			● 5-10	○ 5-8		○ 10-15			● 10-20		○ 10-15					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	∠ mm	d mm
7/16	14,00	59,88	100	15	6,20	8,0
1/2	13,00	59,88	110	18	7,00	9,0
9/16	12,00	81,73	110	20	9,00	11,0
5/8	11,00	80,31	110	22	9,00	12,0

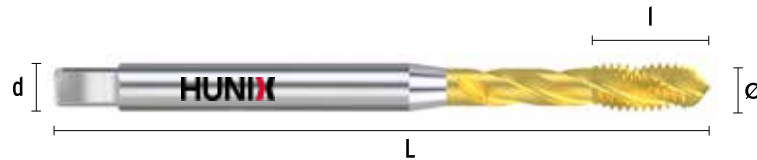
Ø	P	€	L mm	I mm	∠ mm	d mm
3/4	10,00	116,68	125	25	11,00	14,0
7/8	9,00	166,27	140	30	14,50	18,0
1"	8,00	154,13	160	30	16,00	20,0

2236 HSE DIN 371

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	● 12-18	○ 8-12		● 6-12	○ 6-10		● 10-20			● 15-25		○ 12-18					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	∠ mm	d mm
Nº4	40,00	41,13	56	5	2,70	3,5
Nº5	40,00	41,13	56	7	2,70	3,5
Nº6	32,00	40,33	56	6	3,00	4,0
Nº8	32,00	40,33	63	7	3,40	4,5
Nº10	24,00	43,20	70	8	4,90	6,0

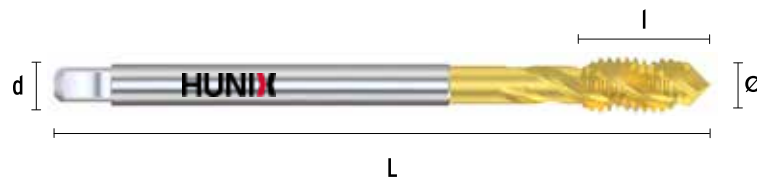
Ø	P	€	L mm	I mm	∠ mm	d mm
Nº12	24,00	45,24	80	10	4,90	6,0
1/4	20,00	45,24	80	13	5,50	7,0
5/16	18,00	50,47	90	13	6,20	8,0
3/8	16,00	61,94	100	15	8,00	10,0

2237 HSE DIN 376

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	● 12-18	○ 8-12		● 6-12	○ 6-10		● 10-20			● 15-25		○ 12-18					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	∠ mm	d mm
7/16	14,00	86,62	100	15	6,20	8,0
1/2	13,00	89,15	110	18	7,00	9,0
9/16	12,00	122,06	110	20	9,00	11,0
5/8	11,00	115,50	110	22	9,00	12,0

Ø	P	€	L mm	I mm	∠ mm	d mm
3/4	10,00	170,46	125	25	11,00	14,0
7/8	9,00	255,34	140	30	14,50	18,0
1"	8,00	234,86	160	30	16,00	20,0

2276 HSSE DIN 371

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	○ 10-15			● 5-10	○ 5-8		○ 10-15		○ 10-15	● 10-20		○ 10-15					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	∠ mm	d mm
Nº4	48,00	31,75	56	11	2,70	3,5
Nº5	44,00	31,74	56	11	2,70	3,5
Nº6	40,00	31,99	56	12	3,00	4,0
Nº8	36,00	32,26	63	12	3,40	4,5
Nº10	32,00	32,79	70	14	4,90	6,0

Ø	P	€	L mm	I mm	∠ mm	d mm
Nº12	28,00	34,44	80	18	4,90	6,0
1/4	28,00	36,04	80	18	5,50	7,0
5/16	24,00	37,36	90	20	6,20	8,0
3/8	24,00	44,27	90	20	8,00	10,0

2277 HSSE DIN 374

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	○ 10-15			● 5-10	○ 5-8		○ 10-15		○ 10-15	● 10-20		○ 10-15					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	∠ mm	d mm
7/16	20,00	62,64	100	20	6,20	8,0
1/2	20,00	62,64	100	20	7,00	9,0
9/16	18,00	85,41	100	20	9,00	11,0
5/8	18,00	83,88	100	20	9,00	12,0

Ø	P	€	L mm	I mm	∠ mm	d mm
3/4	16,00	122,07	110	24	11,00	14,0
7/8	14,00	173,86	125	24	14,50	18,0
1"	12,00	161,23	140	27	14,50	18,0

2280 HSS DIN 371

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 15-30	● 12-18	○ 8-12		● 6-12	○ 6-10	● 10-15	● 15-20		● 15-25	● 15-25		○ 12-18					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	∠ mm	d mm
Nº4	48,00	46,87	56	11	2,70	3,5
Nº5	44,00	42,29	56	11	2,70	3,5
Nº6	40,00	42,29	56	12	3,00	4,0
Nº8	36,00	42,29	63	12	3,40	4,5
Nº10	32,00	45,09	70	14	4,90	6,0

Ø	P	€	L mm	I mm	∠ mm	d mm
Nº12	28,00	47,15	80	18	4,90	6,0
1/4	28,00	47,15	80	18	5,50	7,0
5/16	24,00	53,39	90	20	6,20	8,0
3/8	24,00	66,46	90	20	8,00	10,0

2281 HSS DIN 374

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 15-30	● 12-18	○ 8-12		● 6-12	○ 6-10	● 10-15	● 15-20		● 15-25	● 15-25		○ 12-18					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	∠ mm	d mm
7/16	20,00	90,66	100	20	6,20	8,0
1/2	20,00	95,24	100	20	7,00	9,0
9/16	18,00	129,89	100	20	9,00	11,0
5/8	18,00	123,08	100	20	9,00	12,0

Ø	P	€	L mm	I mm	∠ mm	d mm
3/4	16,00	181,94	110	24	11,00	14,0
7/8	14,00	267,20	125	24	14,50	18,0
1"	12,00	250,91	140	27	14,50	18,0

2278 HSSE DIN 371

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	○ 10-15			● 5-10	○ 5-8		○ 10-15			● 10-20		○ 10-15					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	∠ mm	d mm
Nº4	48,00	34,94	56	5	2,70	3,5
Nº5	44,00	34,94	56	5	2,70	3,5
Nº6	40,00	35,38	56	6	3,00	4,0
Nº8	36,00	35,59	63	7	3,40	4,5
Nº10	32,00	36,04	70	8	4,90	6,0

Ø	P	€	L mm	I mm	∠ mm	d mm
Nº12	28,00	37,91	80	10	4,90	6,0
1/4	28,00	39,70	80	10	5,50	7,0
5/16	24,00	41,14	90	13	6,20	8,0
3/8	24,00	48,77	90	15	8,00	10,0

2279 HSSE DIN 374

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	○ 10-15			● 5-10	○ 5-8		○ 10-15			● 10-20		○ 10-15					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	∠ mm	d mm
7/16	20,00	68,94	100	20	6,20	8,0
1/2	20,00	68,94	100	20	7,00	9,0
9/16	18,00	94,19	100	20	9,00	11,0
5/8	18,00	92,33	100	20	9,00	12,0

Ø	P	€	L mm	I mm	∠ mm	d mm
3/4	16,00	134,25	110	24	11,00	14,0
7/8	14,00	191,33	125	24	14,50	18,0
1"	12,00	177,27	140	20	14,50	18,0

2282 **HSSE DIN 371** **UNF** **Form. C** **Tol. 2B** **3XD** **R** **TIN+**

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	○ 12-18	○ 8-12		● 6-12	○ 6-10		● 15-20			● 15-25		○ 12-18					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
 THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	mm	d mm
N°4	48,00	51,69	56	5	2,70	3,5
N°5	44,00	46,47	56	5	2,70	3,5
N°6	40,00	46,47	56	6	3,00	4,0
N°8	36,00	46,47	63	7	3,40	4,5
N°10	32,00	48,89	70	8	4,90	6,0

Ø	P	€	L mm	I mm	mm	d mm
N°12	28,00	51,11	80	10	4,90	6,0
1/4	28,00	51,11	80	10	5,50	7,0
5/16	24,00	57,74	90	13	6,20	8,0
3/8	24,00	71,20	90	15	8,00	10,0

2283 **HSSE DIN 374** **UNF** **Form. C** **Tol. 2B** **3XD** **D** **TIN+**

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	○ 10-15			○ 5-10			○ 10-15		○ 10-15	● 10-20		○ 10-15					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative



Ø	P	€	L mm	I mm	mm	d mm
7/16	20,00	97,86	100	15	6,20	8,0
1/2	20,00	102,52	100	15	7,00	9,0
9/16	18,00	140,40	100	15	9,00	11,0
5/8	18,00	131,54	100	15	9,00	12,0

Ø	P	€	L mm	I mm	mm	d mm
3/4	16,00	196,02	110	17	11,00	14,0
7/8	14,00	288,41	125	17	14,50	18,0
1"	12,00	268,88	140	20	14,50	18,0

2145

HSSE DIN 5156

G
ISO 228

Form.
B
"Gun"



3XD

D

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	○ 10-15			○ 5-10			○ 10-15		○ 10-15	● 10-20		○ 10-15					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative



Ø	P	€	L mm	I mm	mm	d mm
1/8	28,00	40,81	90	20	5,50	7,0
1/4	19,00	73,25	100	22	9,00	11,0
3/8	19,00	72,26	100	22	9,00	12,0
1/2	14,00	96,47	125	25	12,00	16,0
5/8	14,00	149,91	125	25	14,50	18,0
3/4	14,00	170,54	140	28	16,00	20,0

Ø	P	€	L mm	I mm	mm	d mm
7/8	14,00	217,93	150	30	18,00	22,0
1"	11,00	320,85	160	32	20,00	25,0
1*1/8	11,00	479,54	170	30	22,00	28,0
1*1/4	11,00	477,29	170	30	24,00	32,0
1*3/8	11,00	488,66	190	32	29,00	36,0
1*1/2	11,00	508,09	190	32	29,00	36,0

2284

HSSE DIN 5156

G
ISO 228

Form.
B
"Gun"



3XD

D

VAP

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	○ 10-15			○ 5-10			○ 10-15		○ 10-15	● 10-20		○ 10-15					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative



MICRO FINISH
THREADING TECHNOLOGY

Ø	P	€	L mm	I mm	mm	d mm
1/8	28,00	44,88	90	20	5,50	7,0
1/4	19,00	80,58	100	22	9,00	11,0
3/8	19,00	79,49	100	22	9,00	12,0
1/2	14,00	106,13	125	25	12,00	16,0

Ø	P	€	L mm	I mm	mm	d mm
5/8	14,00	164,90	125	25	14,50	18,0
3/4	14,00	187,59	140	28	16,00	20,0
7/8	14,00	239,73	150	30	18,00	22,0
1"	11,00	352,94	160	32	20,00	25,0

2286

HSSE DIN 5156

G
ISO 228

Form.
B
"Gun"



3XD

D

TIN+

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 15-30	● 12-18	○ 8-12		● 6-12	○ 6-10	● 10-15	● 15-20		● 15-25	● 15-25		○ 12-18					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
 THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	∠ mm	d mm
1/8	28,00	69,06	90	20	5,50	7,0
1/4	19,00	112,88	100	22	9,00	11,0
3/8	19,00	127,03	100	22	9,00	12,0
1/2	14,00	161,37	125	25	12,00	16,0

Ø	P	€	L mm	I mm	∠ mm	d mm
5/8	14,00	244,04	125	25	14,50	18,0
3/4	14,00	273,77	140	28	16,00	20,0
7/8	14,00	359,68	150	30	18,00	22,0
1"	11,00	490,83	160	32	20,00	25,0

2146

HSSE DIN 5156

G
ISO 228

Form.
C



3XD

D

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	○ 10-15			○ 5-10			○ 10-15		○ 10-15	● 10-20		○ 10-15					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative



Ø	P	€	L mm	I mm	∠ mm	d mm
1/8	28,00	44,74	90	10	5,50	7,0
1/4	19,00	80,59	100	14	9,00	11,0
3/8	19,00	79,60	100	15	9,00	12,0
1/2	14,00	106,07	125	17	12,00	16,0
5/8	14,00	164,90	125	20	14,50	18,0
3/4	14,00	187,57	140	20	16,00	20,0

Ø	P	€	L mm	I mm	∠ mm	d mm
7/8	14,00	239,86	150	22	18,00	22,0
1"	11,00	352,86	160	24	20,00	25,0
1" 1/8	11,00	527,51	170	24	22,00	28,0
1" 1/4	11,00	525,01	170	25	24,00	32,0
1" 3/8	11,00	537,52	190	32	29,00	36,0
1" 1/2	11,00	558,90	190	32	29,00	36,0

2285 **HSSE DIN 5156** **G** **ISO 228** **Form- C** **3XD** **D** **VAP**

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	○ 10-15			● 5-10	○ 5-8		○ 10-15			● 10-20		○ 10-15					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative

MICRO FINISH
THREADING TECHNOLOGY



Ø	P	€	L mm	I mm	mm	d mm
1/8	28,00	49,21	90	10	5,50	7,0
1/4	19,00	88,64	100	14	9,00	11,0
3/8	19,00	87,57	100	15	9,00	12,0
1/2	14,00	116,68	125	17	12,00	16,0

Ø	P	€	L mm	I mm	mm	d mm
5/8	14,00	181,39	125	20	14,50	18,0
3/4	14,00	206,31	140	20	16,00	20,0
7/8	14,00	263,84	150	22	18,00	22,0
1"	11,00	388,15	160	24	20,00	25,0

2287 **HSSE DIN 5156** **G** **ISO 228** **Form- C** **3XD** **D** **TIN+**

P				M		K			N				S		H		
<800	<1.000	<1.200	<1.400	<950	<1.200	<500	<800	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
● 10-25	● 12-18			● 6-12	○ 6-10		○ 15-20			● 15-25		○ 12-18					

Vc (m/min). ● Optima / Optimun ○ Alternativo / Alternative



Ø	P	€	L mm	I mm	mm	d mm
1/8	28,00	74,36	90	10	5,50	7,0
1/4	19,00	122,29	100	14	9,00	11,0
3/8	19,00	139,77	100	15	9,00	12,0
1/2	14,00	173,78	125	17	12,00	16,0

Ø	P	€	L mm	I mm	mm	d mm
5/8	14,00	263,25	125	20	14,50	18,0
3/4	14,00	292,13	140	20	16,00	20,0
7/8	14,00	387,44	150	22	18,00	22,0
1"	11,00	531,73	160	24	20,00	25,0