



RICAMBI RECAMBIOS

RICAMBI PER TORNITURA RECAMBIOS PARA TORNEADO

Vite **J02-05**
Tornillos

Perni di bloccaggio **J06**
Pivotes

Staffe **J06-09**
Bridas

Sottoplacchette **J10-15**
Placas base

Cartucce **J15**
Cartuchos

Leve **J16-17**
Palancas

Altri **J17-18**
Otros

Chiavi **J19**
Llaves

RICAMBI PER FRESATURA RECAMBIOS PARA FRESADO

Vite **J20-22**
Tornillos

Rondelle **J22**
Arandelas

Sottoplacchette **J23**
Placas base

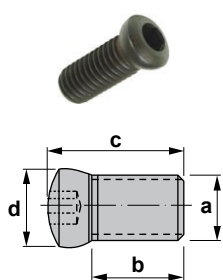
Cunei e Cartucce **J24**
Cuñas y cartuchos

Cartucce **J25-27**
Cartuchos y bases

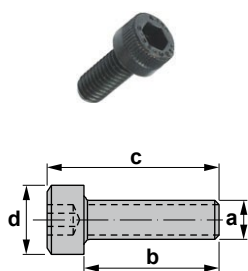
Chiavi **J28**
Llaves



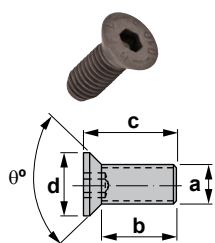
Vite (Brugola) / Tornillos (Allen)



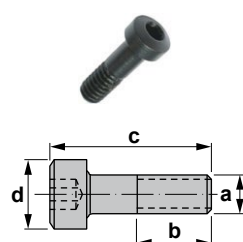
Riferimento Referencia	a	b	c	d	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1006	M6x1	11,2	17,0	9,0	A4	3.5



Riferimento Referencia	a	b	c	d	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1075	M5x0.8	25,0	30,1	8,35	A4	3.5
1076	M6x1	30,0	36,0	10,00	A5	4.0
1078	M8x1.25	40,0	48,1	12,60	A6	-
1093	M3x0.5	8,0	11,2	5,40	A2.5	2.0
1095	M5x0.8	8,2	11,8	8,40	A4	3.5
1096	M6x1	25,0	31,0	10,00	A5	4.0
1296	M6x1	10,0	14,0	9,80	A5	4.0
1392	M2.5	9,6	12,5	4,40	A2	1.4
1393	M3x0.5	4,0	7,0	5,50	A2.5	2.0
1394	M4	6,1	8,6	6,90	A2.5	2.0
1396	M6x1	16,0	21,9	9,75	A5	4.0
1494	M4x0.7	12,0	16,0	7,00	A3	3.0
1495	M5x0.8	16,0	21,2	8,40	A4	3.5
1496	M6x1	12,0	16,0	9,80	A4	3.5
1695	M5x0.8	20,0	23,6	8,30	A4	3.5
1696	M6x1	25,0	29,0	10,00	A4	3.5
1905	M5x0.8	12,0	16,9	8,30	A4	3.5
1906	M6x1	20,0	26,0	10,00	A5	4.0
1916	M6x1	12,0	18,0	10,00	A5	4.0
1924	M4x0.7	12,0	14,8	7,00	A2.5	2.0
1925	M5x0.8	12,0	15,5	8,50	A3	3.0
1926	M6x1	12,0	16,0	10,00	A4	3.5
1928	M8x1.25	16,0	17,0	13,00	A5	4.0

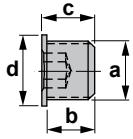


Riferimento Referencia	a	b	c	d	θ°	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1059	M10x1.5	13,2	18,5	11,5	60	A6	
1192	M8x1.25	13,8	20,0	14,1	70	A5	4.0

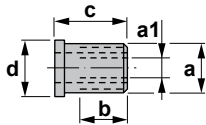


Riferimento Referencia	a	b	c	d	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1614	W1/4	12	25	10	A4	3.5

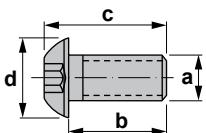
Vite (Brugola) / Tornillos (Allen)



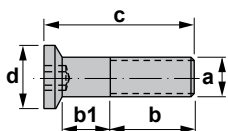
Riferimento Referencia	a	b	c	d	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1598	1/8 GAS	7,0	8,0	11,5	A5	4.0



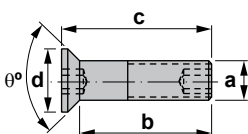
Riferimento Referencia	a	a1	b	c	d	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1750	M5x0.5	M3.5x0.6	5,0	8,5	6,2	A3.5	-
1760	M6x0.75	M4x0.5	5,5	10,0	7,7	A4	3.5
1764	M5x0.8	-	5,8	8,0	6,3	A2	1.4
1765	M6x0.75	M4x0.5	6,0	10,0	7,5	A4	3.5
1766	M6x1	-	6,5	10,0	7,8	A2.5	2.0
1768	M6x1	-	13,3	15,5	10,4	A3	3.0
1770	M6x1	-	11,0	15,0	11,9	A3	3.0



Riferimento Referencia	a	b	c	d	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1803	M3	8,0	9,4	5,5	A2	1.4
1804	M4x0.7	10,0	12,1	7,5	A2.5	2.0
1806	M6x1	25,0	28,2	10,5	A4	3.5
1808	M8x1.25	30,0	34,3	14,0	A5	4.0
1810	M10x1.5	40,0	45,3	18,0	A6	-
1813	M3	4,5	5,9	5,5	A2	1.4
1814	M4	3,5	5,5	7,5	A2.5	2.0
1815	M5x0.8	12,5	15,0	9,3	A3	3.0
1816	M6x1	20,0	23,2	10,5	A4	3.5



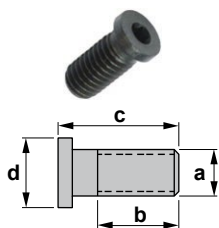
Riferimento Referencia	a	b	b1	c	d	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1907	M7x0.75	14,0	10,6	27,5	10,7	A4	3.5
1915	M5x0.8	12,1	8,0	23,0	8,7	A2.5	2.0



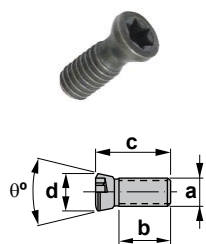
Riferimento Referencia	a	b	c	d	θ°	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1935	M3.5x0.6	11,5	13	5,6	90	A2	1.4
1950	M5x0.8	16,7	19	7,9	92	A2.5	2.0
1955	M5x0.8	16,9	19	8,9	90	A3	3.0



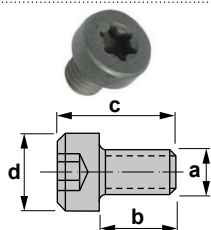
Vite (Torx) / Tornillos (Torx)



Riferimento Referencia	a	b	c	d	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1140	M4x0.7	3,2	7,5	5,0	T15	3.0
1150	M5x0.8	10,0	13,5	6,4	T9	1.4
1151	M5x0.8	7,0	10,5	6,4	T9	1.4
1160	M6x1	9,5	13,5	7,8	T20	4.0
1161	M6x1	6,5	10,5	7,9	T20	4.0
1180	M8x1	9,5	13,5	11,0	T25	5.0



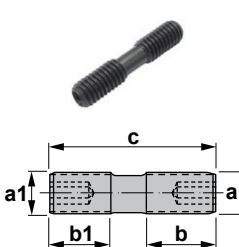
Riferimento Referencia	a	b	c	d	θ°	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1182	M8x1	9,5	13,5	10,5	60	T25	5.0
1220	M2x0.4	3,7	5,5	3,3	55	T6	0.6
1222	M2.2x0.45	3,5	6,0	3,3	55	T6	0.6
1225	M2.5x0.45	4,0	7,0	3,3	55	T7	0.9
1226	M2.6	6,0	8,3	4,0	94	T8	1.2
1230	M3x0.5	5,6	9,0	4,4	55	T8	1.2
1235	M3.5	6,5	9,5	5,3	55	T15	3.0
1240	M4x0.7	6,2	11,0	5,3	55	T15	3.0
1244	M4x0.7	8,0	12,0	7,0	55	T20	4.0
1250	M5x0.8	6,0	12,0	7,0	55	T20	4.0
1255	M5x0.8	9,0	12,0	7,0	94	T20	4.0
1260	M6x1	11,5	16,0	7,9	55	T25	5.0
1334	M3.5x0.6	7,2	12,0	5,3	55	T15	3.0
1335	M3.5x0.6	10,2	15,0	5,3	55	T20	3.0
1340	M4x0.7	11,2	16,0	5,3	55	T15	3.0
1350	M5x0.8	17,8	22,0	7,0	55	T20	4.0
1360	M6x1	17,0	22,5	7,9	55	T25	5.0
1415	M1.6x0.35	1,5	3,2	2,6	60	T6	0.6
1420	M2x0.4	2,2	4,3	3,3	55	T6	0.6
1422	M2.2x0.45	1,8	4,3	3,3	55	T6	0.6
1425	M2.5x0.45	3,0	5,5	3,3	55	T7	0.9
1430	M3x0.5	2,8	5,8	4,4	55	T8	1.2
1440	M4x0.7	3,2	7,5	5,3	55	T15	3.0
1450	M5x0.8	11,0	17,0	7,0	55	T20	4.0
1535	M3.5	7,5	10,0	5,0	94	T10	2.0
1540	M4x0.5	7,9	14,1	6,8	60	T15	3.0
1622	M2.2x0.45	4,0	6,0	3,4	60	T7	0.9
1625	M2.5x0.45	3,6	6,5	3,8	60	T8	1.2
1630	M3x0.5	5,2	8,3	4,3	60	T9	1.4
1635	M3.5x0.6	5,5	9,0	4,7	60	T10	2.0
1640	M4	7,0	10,5	5,5	60	T15	3.0
SA3	5-40UNC-3A	12,0	15,0	5,5	60	T10	2.0
SA3T	5-40UNC-3A	9,5	12,5	5,5	60	T10	2.0
SA4	8-UNC	11,0	15,0	7,5	60	T20	4.0
SA5	10-32UNF	16,8	22,0	8,2	60	T25	5.0
SN3	5-40UNC-3A	6,5	9,5	5,5	60	T10	2.0
SN4	8-UNC	8,0	12,0	7,5	60	T20	4.0



Riferimento Referencia	a	b	c	d	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
SY3	5-40UNC	4,2	6,9	5,4	T10	2.0
SY4	8-32UNC	5,3	9,1	6,8	T20	4.0
SY5	10-32UNF	5,8	9,2	8,4	T25	5.0

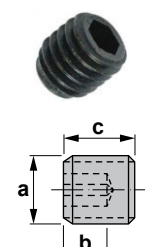
Vite per staffe / Tornillos para brida

Riferimento Referencia	a	a1	b	b1	c	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1085	M5x0.8L	M5x0.8R	7,9	7,9	21,3	A2.5	2.0
1086	M6x1L	M6x1R	11,4	11,4	29,4	A3	3.0
1098	M8x1L	M8x1R	12,7	10,4	29,4	A4	3.5
1186	M6x1L	M6x1R	7,1	7,1	20,5	A3	3.0



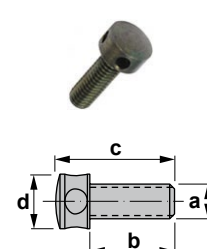
Grani / Prisioneros

Riferimento Referencia	a	b	c	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1503	M3x0.5	2,0	4	A1.5	0.6
1504	M4x0.7	2,0	4	A2	1.4
1505	M5x0.8R	3,0	5	A2.5	2.0
1506	M6x1R	4,0	5	A3	3.0
1508	M8x1.25R	5,0	8	A4	3.5
1592	1/8 GAS	3,7	8	A5	4.0



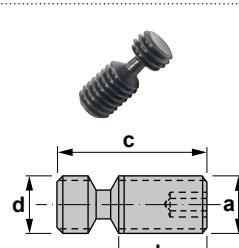
Vite di regolazione / Tornillos de regulaci3n

Riferimento Referencia	a	b	c	d	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1403	M3x0.5	6,5	9,5	4	A4	3.5
1404	M4x0.7	9,0	12,5	7	A2.5	2.0
1405	M5x0.8	10,5	16,5	9	A2	1.4
1406	M6x1	12,0	18,0	11	A2.5	2.0
1408	M8x1.25	15,0	21,0	13	A3	3.0

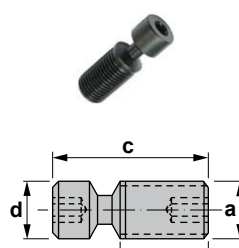


Vite per sistema di fissaggio a leva / Tornillos para palancas

Riferimento Referencia	a	b	c	d	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1605	M5x0.8	6,1	12,0	5	A2	1.4
1705	M5x0.8	8,1	14,0	5	A2	1.4
1715	M5x0.8	4,3	9,6	5	A2	1.4



Riferimento Referencia	a	b	c	d	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1606	M6x1	8,6	16,7	6	A2.5	2.0
1608	M8x1	8,7	20,7	8	A3	3.0
1610	M10x1	13,3	27,2	10	A4	3.5
1612	M12x1	17,3	36,0	12	A5	4.0
1618	M8x1	11,2	22,5	8	A3	3.0
1626	M6x1	8,0	13,4	6	A2.5	2.0
1638	M8x1	10,3	21,1	8	A3	3.0
1648	M8x1	9,1	17,0	8	A3	3.0
1706	M6x1	12,6	20,7	6	A2.5	2.0
1708	M8x1	12,2	23,5	8	A3	3.0
1710	M10x1	17,3	30,4	10	A4	3.5



Perni di bloccaggio / Pivotes

Riferimento Referencia	a	a1	b	c	d	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1642	4,5	M3x0.5	7,6	13,2	3,7		
1643	4,5	M3x0.5	3,4	8,5	3,7		
1644	4,5	M3x0.5	5,0	10,1	3,7		
1647	6,0	M4x0.7	3,1	8,5	5,0		
1661	6,0	M4x0.7	5,6	13,5	5,0		
1682	8,0	M6x1	9,2	16,5	7,7		

Riferimento Referencia	a	b	b1	c	d	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1656	1/4" 26	4,0	5,5	17,2	4,9	A2.5	2.0
1657	M6x1	5,0	7,0	18,6	5,0	A2.5	2.0
1665	M5x0.8	2,3	5,0	13,0	3,6	A2	1.4
1666	1/4" 26	2,9	6,9	18,6	5,0	A2.5	2.0
1670	3/8" 24	4,5	7,8	21,9	7,4	A4	3.5
1673	M6	4,8	6,3	22,0	6,3	A3	3.0
1674	M6	4,5	6,3	21,9	7,7	A4	3.5
1675	M5x0.8	3,4	5,0	16,2	3,6	A2	1.4
1686	1/4" 26	3,5	5,5	13,3	5,0	A2.5	2.0

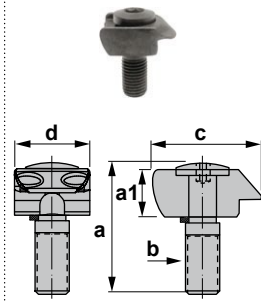
Staffe per il sistema di fissaggio C / Bridas tipo "C"

Riferimento Referencia	a	b	c	d	e	f	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
2000	9,5	M3x0.5	9,5	5,4	3,2	2	A1.5	0.6
2304	14,0	M4x0.7	13,2	8,0	5,0	2	A2.5	2.0
2305	18,7	M5x0.8	16,8	10,0	5,5	2	A3	3.0

Riferimento Referencia	a	b	c	d	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
2107	14,0	M5x0.8	13,8	4,1	A2.5	2.0
2109	16,3	M6x1	16,2	5,0	A3	3.0
2119	15,3	M6x1	16,5	5,2	A3	3.0
2207	15,8	M5x0.8	13,8	4,1	A2.5	2.0
2209	21,0	M6x1	16,5	5,0	A3	3.0
2211	24,0	M8x1	20,5	7,6	A4	3.5
2307	14,0	M5x0.8	13,8	4,1	A2.5	2.0
2516	15,8	M5x0.8	14,8	7,3	T15	3.0
2522	20,0	M6x1	18,0	9,5	T15	3.0
2527	26,0	M8x1.25	24,5	13,0	T25	5.0

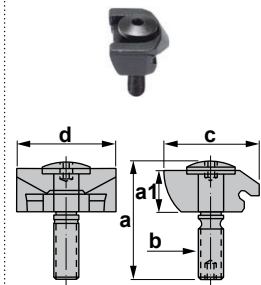
Staffe per il sistema di fissaggio M / Bidas tipo "M"

Riferimento Referencia	a	a1	b	c	d	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N·m)
2006	19,5	6,8	M5x0.5	14,7	11	A2.5	2.0
2011	26,0	8,1	M8x1	22,0	17	A5	4.0
2014	26,0	8,3	M8x1	21,4	15	A5	4.0
2015	26,0	8,2	M8x1	22,1	12	A5	4.0
2024	24,0	9,2	M8x1	22,5	17	A5	4.0

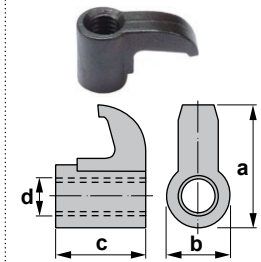


Staffe per il sistema di fissaggio M-K / Bidas tipo "M/K"

Riferimento Referencia	a	a1	b	c	d	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N·m)
2017	24	8,0	M5x0.8	15,7	18,6	A2.5	2.0
2018	24	8,4	M5x0.8	15,7	18,6	A2.5	2.0
2023	24	7,3	M6x1	15,7	24,4	A3	3.0

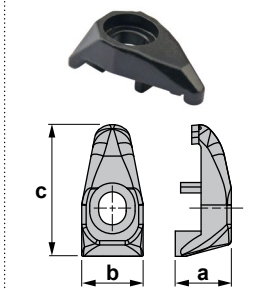


Riferimento Referencia	a	b	c	d
2604	14,8	7,9	11,2	M5x0.8L
2613	18,5	9,5	13,5	M6x1L
2614	21,7	9,5	13,5	M6x1L
2616	24,0	9,5	13,5	M6x1L
2621	22,4	10,9	16,8	M8x1L



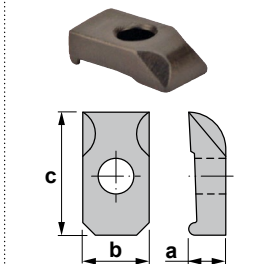
Staffe per il sistema di fissaggio Dimple Lock / Bidas tipo "D"

Riferimento Referencia	a	b	c
2308	9,4	10,9	24,8
2312	12,0	14,0	28,8
2319	13,4	15,9	33,3
2708	11,3	12,9	24,2
2712	12,6	13,8	29,6
2716	14,2	13,8	33,9
2719	14,2	13,8	35,4

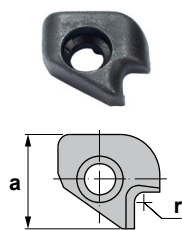


Staffe per filettatura / Bidas para herramientas de roscar

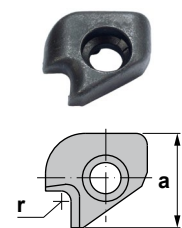
Riferimento Referencia	a	b	c	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N·m)
2101	5,3	9,5	17,8	T15	0.6



Staffe per gli inserti KNUX / Bridas para plaquitas KNUX

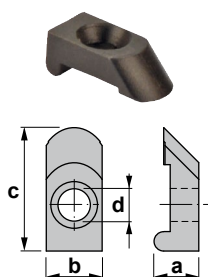


Riferimento Referencia	a	r
2316	23,5	2,5

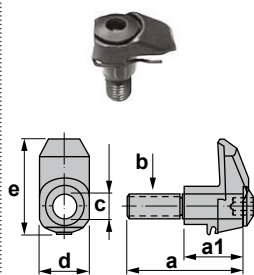


Riferimento Referencia	a	r
2326	23,5	2,5

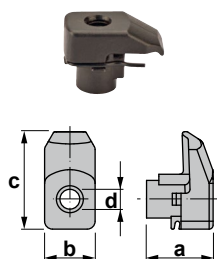
Staffe per utensili ceramici / Bridas para herramientas de cerámica



Riferimento Referencia	a	b	c	d	θ°	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N·m)
2120	7,0	5,5	18,7	5,1	40	T15	3.0
2121	6,9	8,6	19,0	7,5	45	T20	4.0
2122	8,5	11,8	24,7	8,2	45	T25	5.0


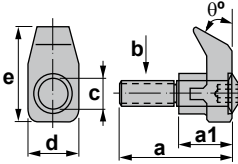



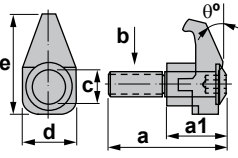
Riferimento Referencia	a	a1	b	c	d	e	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N·m)
2413	29,7	16,0	M8x1.25	8,2	12,7	21,9	A4	3.5
2417	29,7	17,6	M8x1.25	8,0	12,7	24,6	A4	3.5




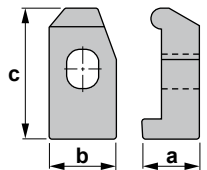
Riferimento Referencia	a	b	c	d	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N·m)
2713	8,2	12,7	22,4	5,0	A3	3.0
2717	8,1	12,7	24,6	5,0	A3	3.0


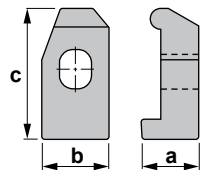
Staffe per utensili ceramici / Bridas para herramientas de cerámica

 	Riferimento Referencia	a	a1	b	c	d	e	θ°	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
	2414	29,7	15,1	M8x1.25	8,2	12,7	22,5	20	A4	3.5

 	Riferimento Referencia	a	a1	b	c	d	e	θ°	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
	2415	29,7	15,7	M8x1.25	8,2	13	25,9	8	A4	3.5
	2428	29,7	15,7	M8x1.25	8,2	13	28,6	7	A4	3.5
	2432	29,7	15,7	M8x1.25	8,2	13	28,6	7	A4	3.5
	2471	29,7	15,7	M8x1.25	8,2	13	25,9	8	A4	3.5

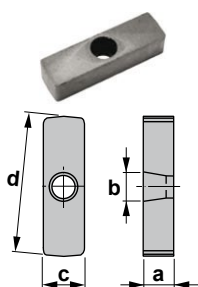
Staffe per utensili Top Notch / Bridas "Top-Notch"

 	Riferimento Referencia	a	b	c
	TF-146	5,5	9,0	13,7
	TF-72	9,7	11,3	22,0
	TF-74	7,2	9,0	13,7

 	Riferimento Referencia	a	b	c
	TF-147	5,5	9,0	13,7
	TF-73	9,7	11,3	22,0
	TF-75	7,2	9,0	13,7

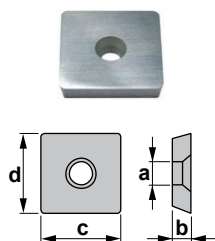


Sottoplacchette / Placas base

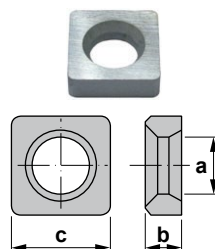


Riferimento Referencia	a	b	c	d
3521	4,76	4,2	6,3	22,2

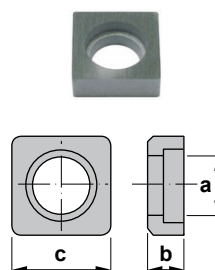
Sottoplacchette quadrate / Placas base cuadradas



Riferimento Referencia	a	b	c	d
3109	2,3	3,18	8,14	8,14
3112	2,3	3,18	11,3	11,3
3119	3,3	3,18	17,3	17,3



Riferimento Referencia	a	b	c
3509	4,9	3,18	8,5
3512	6,4	3,18	11,6
3515	7,9	4,76	14,6
3519	9,6	4,76	17,8
3525	12,8	6,35	24,2



Riferimento Referencia	a	b	c
3514	6,6	3,97	11,4
ISSN-422	8,0	3,18	12,4
ISSN-432	7,4	4,76	12,4
ISSN-434	7,4	4,76	12,4
ISSN-442	7,4	6,35	12,4
ISSN-454	7,4	7,94	12,4
ISSN-533	9,3	4,76	15,6
ISSN-534	9,6	4,76	15,7
ISSN-633	11,3	4,76	18,8



Sottoplacchette romboidali 80° / Placas base rómbicas 80°

Riferimento Referencia	a	b	c	d
3609	4,8	3,18	8,5	12,4
3612	6,4	3,18	11,6	17,1
3616	7,9	4,76	14,6	20,9
3619	9,6	4,76	17,8	26,0
3625	12,8	6,35	24,2	36,0

Riferimento Referencia	a	b	c	d
3614	6,5	3,97	11,4	11,4
ICSN-332	6,2	5,00	9,0	9,0
ICSN-422	7,2	3,00	12,5	12,5
ICSN-432	7,4	4,76	12,4	12,4
ICSN-434	7,4	4,76	12,4	12,4
ICSN-442	7,4	6,35	12,4	12,4
ICSN-443	7,7	6,40	12,4	12,4
ICSN-454	7,4	7,94	12,4	12,4
ICSN-523	9,9	3,18	15,6	15,6
ICSN-533	9,9	4,76	15,6	15,6
ICSN-623	11,3	3,18	18,8	18,8
ICSN-633	11,3	4,76	18,8	18,8

Sottoplacchette romboidali 75° / Placas base rómbicas 75°

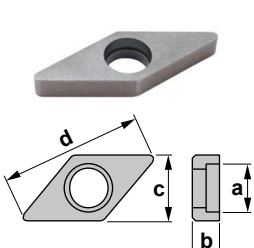
Riferimento Referencia	a	b	c	d
IESN-432	7,4	4,76	12,4	12,4

Sottoplacchette romboidali 55° / Placas base rómbicas 55°

Riferimento Referencia	a	b	c	d
3711	4,9	2,70	8,5	17,0
3715	6,4	3,18	11,6	23,4
3725	6,5	4,76	11,7	23,4

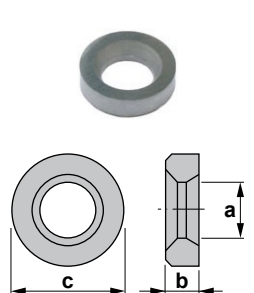
Riferimento Referencia	a	b	c	d
3714	6,6	3,18	8,50	17,4
IDSN-322	6,4	3,18	9,39	18,2
IDSN-334	6,8	4,76	9,95	17,8
IDSN-354	6,8	7,94	9,95	17,8
IDSN-422	8,2	4,76	12,60	25,6
IDSN-432	8,2	4,76	12,50	25,6
IDSN-434	8,2	4,76	12,50	23,4

Sottopiacchette romboidali 35° / Placas base rómbicas 35°

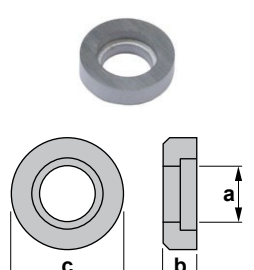


Riferimento Referencia	a	b	c	d
3718	6,7	3,18	8,4	26,0
3722	8,1	3,97	11,0	27,3
IVSN-322	6,6	3,18	9,4	25,9
IVSN-342	6,6	6,35	9,2	26,9

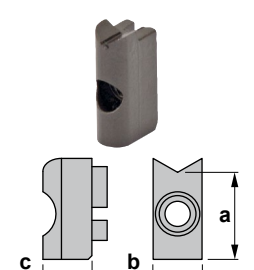
Sottopiacchette rotonde / Placas base redondas



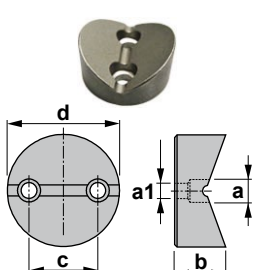
Riferimento Referencia	a	b	c
3810	4,9	3,18	8,34
3812	4,9	3,18	9,90
3816	6,4	4,76	13,55
3820	8,0	4,76	17,25
3825	9,6	6,35	21,90
3832	12,6	6,35	28,00
3909	4,9	3,18	8,80
3912	6,4	3,18	11,60
3915	8,0	4,76	15,20
3919	9,6	4,76	18,40
3925	12,9	6,35	24,80



Riferimento Referencia	a	b	c
3811	5,3	3,18	8,80
3814	5,3	3,18	10,60
IRSN-42	7,4	3,18	12,45
IRSN-43	7,4	4,76	12,45
IRSN-44	7,3	6,40	12,45
IRSN-45	7,4	7,92	12,45
IRSN-53	9,8	4,76	15,60
IRSN-63	11,3	4,76	18,80
IRSN-84	14,5	6,35	25,15



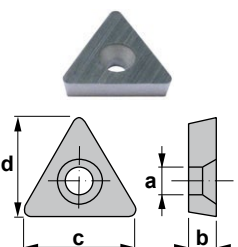
Riferimento Referencia	a	b	c
3806	13,95	5,0	8,6
3807	15,55	5,0	8,6
3808	17,15	5,0	8,6
3849	13,75	7,7	7,7
3852	15,20	11,1	10,8



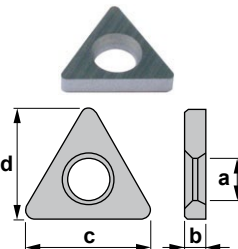
Riferimento Referencia	a	a1	b	c	d
3817	4,5	3	7,75	7,0	13,55
3819	4,5	3	8,51	8,4	16,55
3835	4,5	3	10,04	13,5	22,00

Sottoplacchette triangolari / Placas base triangulares

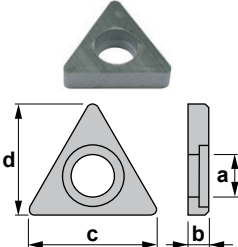
Riferimento Referencia	a	b	c	d
3116	2,3	3,18	13,03	11,5
3122	3,3	3,18	17,19	15,1



Riferimento Referencia	a	b	c	d
3416	4,9	2,76	13,52	11,9
3422	6,3	3,18	18,92	16,6
3427	8,0	4,76	24,60	24,6
3433	9,8	4,76	28,50	27,8

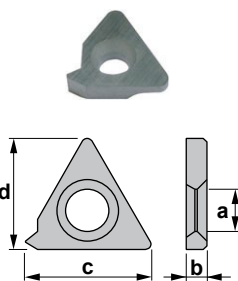


Riferimento Referencia	a	b	c	d
3414	5,30	3,18	13,55	11,9
ITSN-322	5,90	3,18	14,60	12,9
ITSN-324	5,70	3,30	14,25	12,8
ITSN-342	5,90	6,35	14,90	13,1
ITSN-433	7,40	4,76	19,70	17,3
ITSN-443	7,65	6,35	20,20	17,8

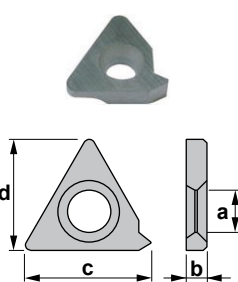


Sottoplacchette per filettatura / Placas base para herramientas de roscar

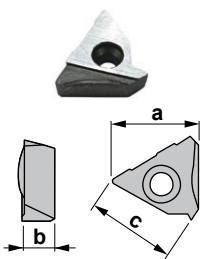
Riferimento Referencia	a	b	c	d
3424+1°	3,95	3,2	12,8	12,8
3424+2°	3,95	3,2	12,8	12,8
3424+3°	3,95	3,2	12,8	12,8
3424-1°	3,95	3,2	12,8	12,8
3424-2°	3,95	3,2	12,8	12,8
3424-3°	3,95	3,2	12,8	12,8
YE3	3,95	3,2	12,7	12,4
YE4	5,30	4,0	17,3	17,3
YE5	6,30	5,8	23,6	22,3

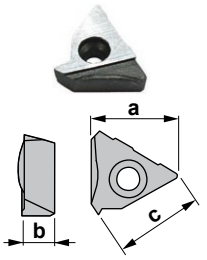


Riferimento Referencia	a	b	c	d
3425+1°	3,95	3,2	12,8	12,8
3425+2°	3,95	3,2	12,8	12,8
3425+3°	3,95	3,2	12,8	12,8
3425-1°	3,95	3,2	12,8	12,8
3425-2°	3,95	3,2	12,8	12,8
3425-3°	3,95	3,2	12,8	12,8
YI3	3,95	3,2	12,8	12,8
YI4	5,30	4,0	17,3	17,3
YI5	6,30	5,8	23,6	22,3

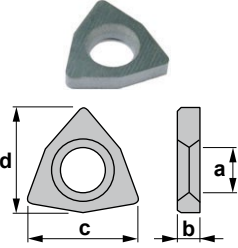


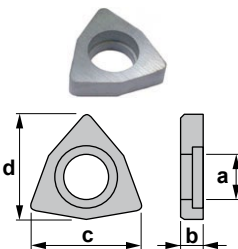

Sottoplacchette per filettatura / Placas base para herramientas de roscar

	Riferimento Referencia	a	b	c
	3126R	12,8	4,76	11,2
3132R	16,9	4,76	14,0	

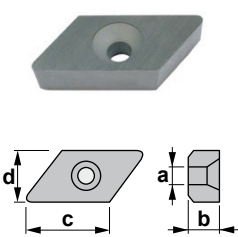
	Riferimento Referencia	a	b	c
	3132L	16,9	4,76	14,0

Sottoplacchette trigone / Placas base trigonas

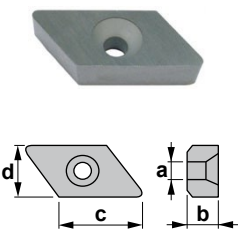
	Riferimento Referencia	a	b	c	d
	3007	4,9	3,18	11,3	10,8
3008	6,4	3,18	15,8	15,2	

	Riferimento Referencia	a	b	c	d
	3006	5,1	3,18	11,3	10,8
IWSN-322	5,7	3,18	11,9	11,4	
IWSN-433	7,3	4,76	16,0	15,3	

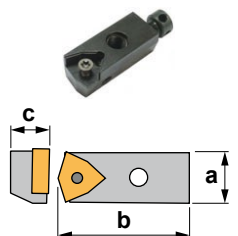
Sottoplacchette per gli inserti KNUX / Placas base para plaquitas KNUX

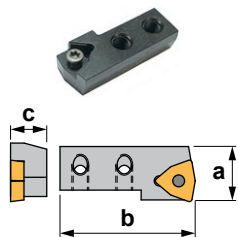
	Riferimento Referencia	a	b	c	d
	3226	3,3	4,76	14,5	9,25

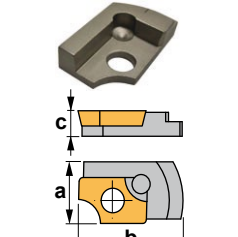
Sottoplacchette per gli inserti KNUX / Placas base para plaquitas KNUX

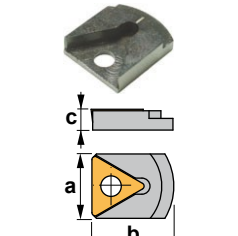
	Riferimento Referencia	a	b	c	d
	3236	3,3	4,76	14,5	9,25

Cartucce / Cartuchos

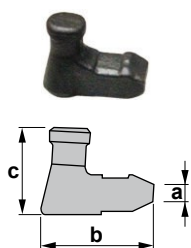
	Riferimento Referencia	a	b	c
	6806	12,8	32	10,7

	Riferimento Referencia	a	b	c
	6816	16,3	40	10,7

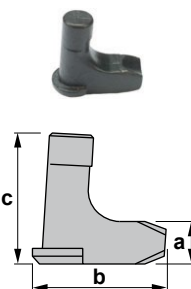
	Riferimento Referencia	a	b	c
	6925	12,7	22	4,8

	Riferimento Referencia	a	b	c
	6926	16	19,5	4,8

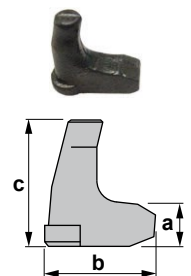
Leve / Palancas



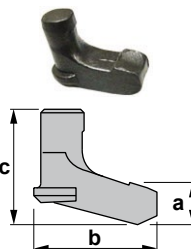
Riferimento Referencia	a	b	c
8005	2,3	10,1	7,8



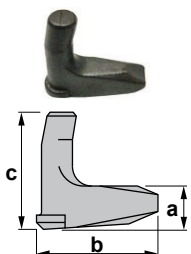
Riferimento Referencia	a	b	c
8009	3,4	10,2	12,0
8012	4,2	13,5	13,1
8015	5,3	19,2	17,2
8016	5,4	16,5	17,1
8019	8,2	20,6	21,0
8025	8,2	25,7	25,2



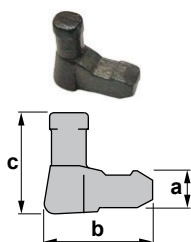
Riferimento Referencia	a	b	c
8110	4,0	11,0	11,6
8112	4,2	13,0	13,1
8120	6,8	20,4	18,4
8125	7,6	23,7	22,9
8132	9,0	30,2	26,7



Riferimento Referencia	a	b	c
8212	4,7	13,4	12,1
8219	7,2	20,5	20,2



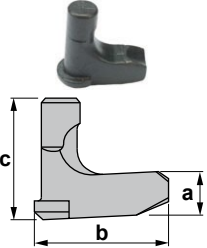
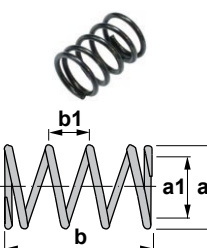
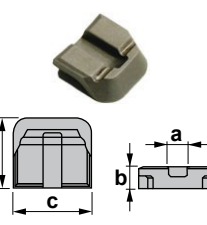
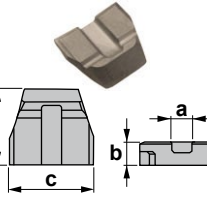
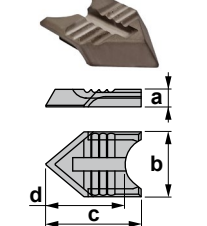
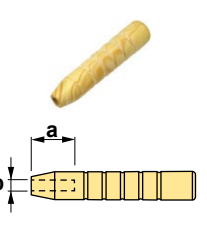
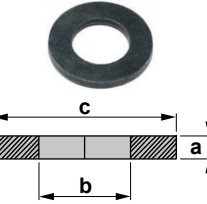
Riferimento Referencia	a	b	c
8116	6,7	18,6	17,7
8312	4,2	13,5	13,2



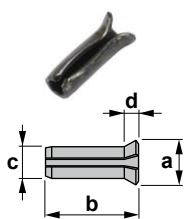
Riferimento Referencia	a	b	c
8216	3,4	10,1	9,5



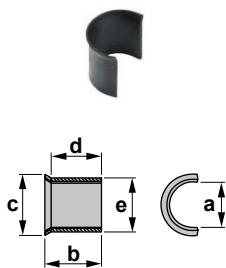
Leve e altri / Palancas y otros

	Riferimento Referencia	a	b	c	
	8415	5,9	16,2	14,7	
	Riferimento Referencia	a	a1	b	b1
	4294	6,9	5,3	12,5	2,5
	4295	9,5	7,0	16,5	3,5
	Riferimento Referencia	a	b	c	d
	9414	2,6	2	12,6	11
	Riferimento Referencia	a	b	c	d
	9416	3	3,5	12,6	11
	Riferimento Referencia	a	b	c	d
	9419	3,4	12,6	18,5	15,4
	Riferimento Referencia	a	b		
	0009	15	4,0		
	0012	15	5,0		
	0015	15	6,3		
	0019	12	8,5		
	0025	14	12,0		
	Riferimento Referencia	a	b	c	
	2803	0,5	3,2	6,8	
	2804	0,8	4,3	9,0	
	2806	1,5	6,4	12,0	
	2808	1,6	8,4	16,0	
	2810	2,5	10,5	21,0	

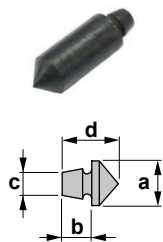
Altri / Otros



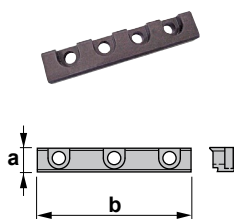
Riferimento Referencia	a	b	c	d
4002	2,7	10,0	2,1	1,1
4012	3,6	10,0	3,0	1,5
4016	3,8	8,2	2,8	2,6
4022	4,5	10,0	4,0	1,5



Riferimento Referencia	a	b	c	d	e
4109	4,4	5,2	5,7	4,6	4,9
4110	4,4	6,8	5,6	6,1	4,9
4112	5,5	5,9	7,0	5,2	6,6
4115	7,0	9,2	9,0	7,7	8,2
4116	5,4	9,2	6,8	8,5	6,5
4119	8,5	11,3	10,5	9,8	9,7
4125	10,0	11,9	15,2	9,7	13,2
4129	8,3	9,2	10,5	8,4	9,8
4133	8,3	9,2	10,4	8,4	9,8
4135	5,5	7,7	7,2	6,8	6,6



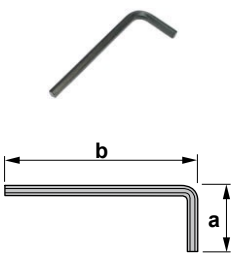
Riferimento Referencia	a	b	c	d
4201	4,8	3,1	2,5	5,9
4202	4,8	3,1	2,5	8,1
4203	4,8	3,1	2,5	12,5
4204	4,8	3,1	2,5	14,5



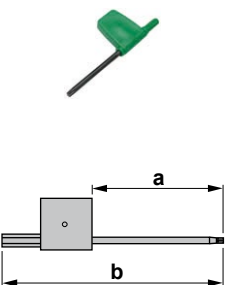
Riferimento Referencia	a	b
2916	10,0	64
2920	16,2	75
2930	19,3	84
2935	19,3	94
2942	19,3	104
2950	21,0	110



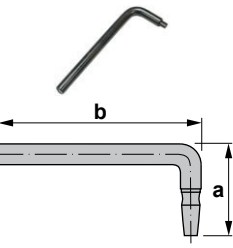
Chiavi (Brugola) / Llaves (Allen)

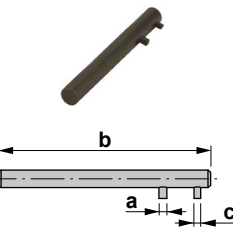
	Riferimento Referencia	a	b	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
	5002	18,0	51,5	A2	1.4
5003	22,2	64,4	A3	3.0	
5004	27,6	72,6	A4	3.5	
5005	32,0	83,0	A5	4.0	
5006	37,0	96,0	A6	-	
5015	14,4	45,5	A1.5	0.6	
5025	19,0	57,3	A2.5	2.0	

Chiavi (Torx) / Llaves (Torx)

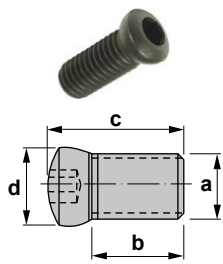
	Riferimento Referencia	a	b	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
	5506	34,5	62,0	T6	0.6
5507	35,0	63,0	T7	0.9	
5508	44,0	72,0	T8	1.2	
5509	38,0	74,0	T9	1.4	
5510	38,0	74,0	T10	2.0	
5515	45,5	82,5	T15	3.0	
5516	42,7	86,7	T15 / A3.5	3.0 / -	
5517	45,7	95,7	T15 / A4	3.0 / 3.5	
5520	45,9	80,0	T20	4.0	
5525	53,0	92,0	T25	5.0	

Chiavi per le lame / Llaves para lamas

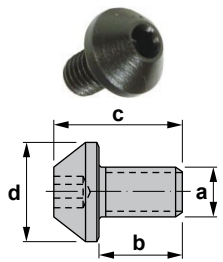
	Riferimento Referencia	a	b
	5732	27,5	81

	Riferimento Referencia	a	b	c
	5735	3	80	2,5

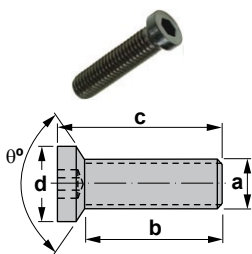
Vite (Brugola) / Tornillos (Allen)



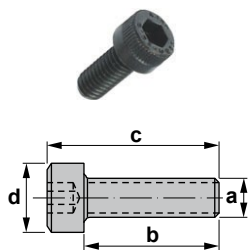
Riferimento Referencia	a	b	c	d	θ°	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1004	M4x0.7	6,8	10,0	5,6	-	A2	1.4
1005	M5x0.8	8,7	12,0	6,8	-	A2.5	2.0
1006	M6x1	11,2	17,0	9,0	-	A4	3.5
1006L	M6x1L	11,2	17,0	9,0	-	A4	3.5
1008	M8x1.25	16,6	22,0	11,0	-	A5	4.0
1016	M6x1	6,6	12,4	9,0	-	A4	3.5



Riferimento Referencia	a	b	c	d	θ°	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1025	M5x0.8	8,0	12,5	9,8	-	A3	3.0



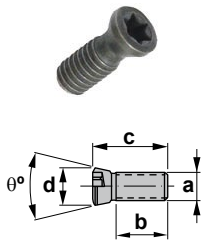
Riferimento Referencia	a	b	c	d	θ°	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1058	M8x1.25	29,0	35,0	11,0	45	A5	4.0
1175	M5x0.8	9,7	14,7	8,6	88	A4	3.5



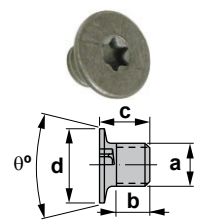
Riferimento Referencia	a	b	c	d	θ°	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1076	M6x1	30,0	36,0	10,0	-	A5	4.0
1095	M5x0.8	8,2	11,8	8,4	-	A4	3.5
1195	M5x0.8	6,0	10,8	8,3	-	A4	3.5
1296	M6x1	10,0	14,0	9,8	-	A5	4.0
1396	M6x1	16,0	21,9	9,75	-	A5	4.0
1788	M8x1.25	16,0	21,0	13,0	-	A5	4.0
912.10	M10x1.5	25,0	35,0	16,0	-	A8	-
912.11	M10	25,0	31,0	16,0	-	A7	-
912.12	M12x1.7	30,0	42,0	18,0	-	A10	-
912.16	M16x2	35,0	51,0	24,0	-	A14	-
912.17	M16x2	35,0	44,0	24,0	-	A12	-
912.20	M20x2.5	39,5	51,0	30,0	-	A14	-
912.52	M12	50,0	62,0	18,0	-	A10	-
912.56	M16x2	47,0	63,0	24,0	-	A14	-



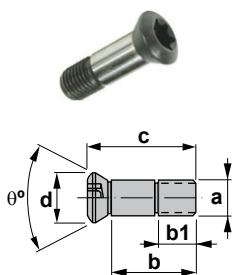
Vite (Torx) / Tornillos (Torx)



Riferimento Referencia	a	b	c	d	θ°	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1182	M8x1	9,5	13,5	10,5	60	T25	5.0
1222	M2.2x0.45	3,5	6,0	3,3	55	T6	0.6
1225	M2.5x0.45	4,0	7,0	3,3	55	T7	0.9
1230	M3x0.5	5,6	9,0	4,4	55	T8	1.2
1235	M3.5	6,5	9,5	5,3	55	T15	3.0
1240	M4x0.7	6,2	11,0	5,3	55	T15	3.0
1240-IP	M4x0.7	6,5	10,0	5,3	60	T15-IP	3.5
1244	M4x0.7	8,0	12,0	7,0	55	T20	4.0
1245	M4.5x0.75	7,4	11,4	6,4	55	T15	3.0
1250	M5x0.8	6,0	12,0	7,0	55	T20	4.0
1261	M6x1	8,5	13,0	7,9	55	T25	5.0
1335	M3.5x0.6	10,2	15,0	5,3	55	T15	3.0
1341	M4x0.7	4,7	9,0	5,3	55	T15	3.0
1425	M2.5x0.45	3,0	5,5	3,3	55	T7	0.9
1430	M3x0.5	2,8	5,8	4,4	55	T8	1.2
1430-IP	M3x0.5	4,0	6,7	3,9	60	T10-IP	2.5
1435	M3.5	3,1	7,0	5,3	55	T15	3.0
1440	M4x0.7	3,2	7,5	5,3	55	T15	3.0
1440-IP	M4x0.7	4,2	8,0	5,3	60	T15-IP	3.5
1445	M4.5x0.75	5,4	9,0	6,3	55	T15	3.0
1550	M5x0.8	5,9	11,0	6,4	43	T20	4.0
1622	M2.2x0.45	4,0	6,0	3,4	60	T7	0.9
1625	M2.5x0.45	3,6	6,5	3,8	60	T8	1.2
1630	M3x0.5	5,2	8,3	4,3	60	T9	1.4
1635	M3.5x0.6	5,5	9,0	4,7	60	T10	2.0
1640	M4	7,0	10,5	5,5	60	T15	3.0
1840	M4	3,2	7,5	5,0	40	T15	3.0
1845	M4.5x0.75	6,9	9,0	6,5	90	T15	3.0
1846	M4.5x0.75	6,5	7,0	6,5	90	T15	3.0
1847	M4.5x0.75	8,0	11,0	6,7	90	T15	3.0
1908	M8x1	13,0	20,0	10,4	60	T15	3.0
1910	M10x2.5	17,5	25,0	15,0	60	T15	3.0



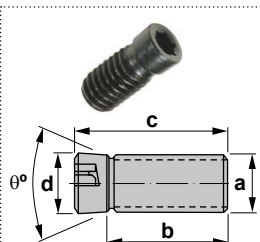
Riferimento Referencia	a	b	c	d	θ°	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1735	M3.5	1,0	3,0	5,2	90	T7	0.9
1745	M4.5x0.75	3,8	5,2	6,7	100	T15	3.0
1835	M3.5x0.6	2,0	4,0	5,2	90	T7	0.9



Riferimento Referencia	a	b	b1	c	d	θ°	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1353	M3x0.35	6,0	2,8	7,9	3,7	40	T8	1.2
1354	M3.5x0.6	7,2	3,7	9,6	4,7	40	T10	2.0
1359	M4x0.5	6,8	3,2	8,8	5,8	62	T15	3.0
1509	M5x0.5	7,9	3,6	9,5	6,7	62	T20	4.0
1519	M5x0.5	10,0	4,5	12,8	7,5	62	T20	4.0
1529	M5x0.5	12,7	4,7	15,5	7,5	62	T20	4.0
1609	M6x0.75	17,6	7,1	20,6	9,5	62	T30	7.0
1619	M4x0.7	10,4	5,6	13,6	5,7	42	T15	3.0
1629	M5x0.8	13,5	6,0	16,8	6,9	40	T20	4.0
1649	M8x1	21,2	8,0	26,4	11,9	60	T30	7.0
1809	M8x0.75	21,5	8,8	26,2	11,9	62	T30	7.0

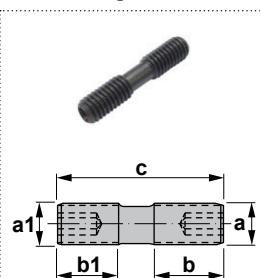


Vite (Torx) / Tornillos (Torx)



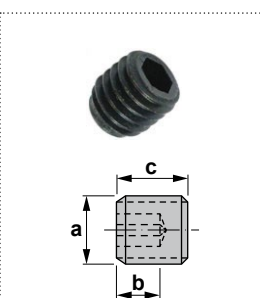
Riferimento Referencia	a	b	c	d	θ°	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1460	M6x1	8,7	13,6	6,3	120	T20	4.0

Vite per staffe / Tornillos para brida



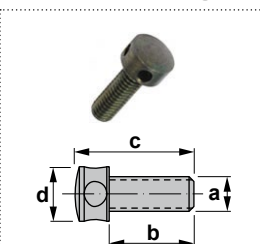
Riferimento Referencia	a	a1	b	b1	c	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1066	M6x1R	M6x1L	8,0	9,0	21	T15	3.0
1077	M7x0.75R	M7x0.75L	7,5	7,5	18	T20	4.0
1088	M8x1.25R	M8x1.25L	10,0	10,0	24	A4	3.5
1166	M6x1R	M6x1L	4,5	4,5	13	T15	3.0
1188	M8x1R	M8x1L	7,0	7,2	18	A4	3.5
1266	M6x1R	M6x1L	6,0	6,0	16	T15	3.0
1388	M8x1.25R	M8x1.25L	8,0	8,0	20	A4	3.5
1888	M8x1R	M8x1L	9,5	9,5	22	A4	3.5

Grani / Prisioneros



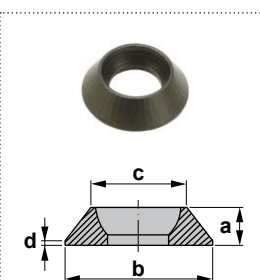
Riferimento Referencia	a	b	c	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1503	M3x0.5	2,0	4	A1.5	0.6
1504	M4x0.7	2,0	4	A2	1.4
1505	M5x0.8	3,0	5	A2.5	2.0
1506	M6x1	4,0	5	A3	3.0
1508	M8x1.25	5,0	8	A4	3.5
1515	M5x0.8	4,0	8	A4	3.5
1517	M5x0.8	3,5	12	A2.5	2.0
1518	M5x0.8	3,5	16	A2.5	2.0
1534	M4x0.7	3,5	8	A2	1.4

Vite di regolazione / Tornillos de regulaci3n



Riferimento Referencia	a	b	c	d	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
1405	M5x0.8	10,5	16,5	9	A2	1.4

Rondelle / Arandelas



Riferimento Referencia	a	b	c	d
2009	3,0	9	6,2	0,4
2010	3,2	10	7,2	0,6
2054	3,7	14	7,2	0,6
2063	4,2	14	10,2	0,6
2064	4,2	14	10,2	0,6
2066	4,2	16	10,2	0,6
2088	5,2	18	12,2	1,4

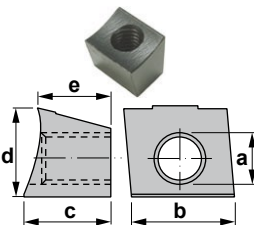
Sottoplacchette quadrate / Placas base cuadradas

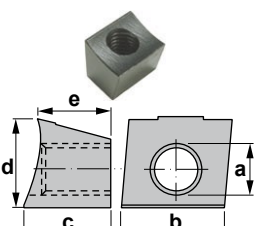
	Riferimento Referencia	a	b	c	d	e	f
	3010	3,2	10,35	3,18	10,3	2,44	12
	Riferimento Referencia	a	b	c	d		
	3012	3,3	3,18	11,2	11,2		
	Riferimento Referencia	a	b	c	d		
	3212	3,3	3,18	12,5	12,5		

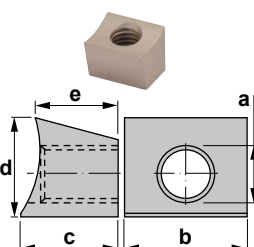
Sottoplacchette triangolari / Placas base triangulares

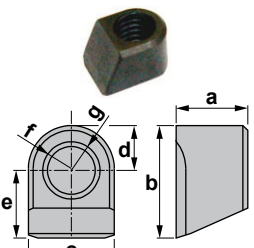
	Riferimento Referencia	a	b	c	d
	3016	3,3	3,18	13,00	11,5
	3022	4,3	3,18	17,19	15,1

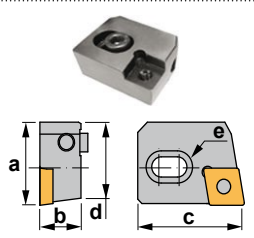
Cunei e cartucce / Cuñas y cartuchos

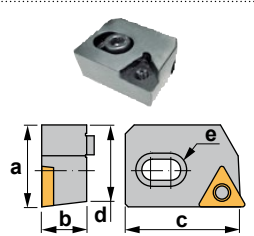
	Riferimento Referencia	a	b	c	d	e
	6031	M6x1L	13,0	6,0	8,3	4,8
	6032	M6x1L	13,0	6,0	8,5	4,8
	6055	M8x1L	14,6	10,0	13,5	10,0
	6434	M7x0.75L	15,0	10,0	11,8	10,0
	6437	M7x0.75L	13,8	8,5	11,8	8,5

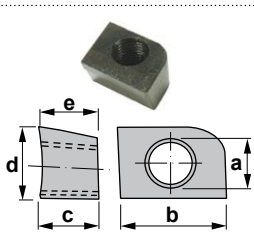
	Riferimento Referencia	a	b	c	d	e
	6432	M7x0.75L	12,3	8,5	14,0	8,5
	6433	M7x0.75L	15,0	8,5	11,8	8,5
	6488	M7x0.75L	12,0	8,0	12,4	8,0
	6490	M7x0.75L	10,7	8,0	11,9	8,0

	Riferimento Referencia	a	b	c	d	e
	6109					
	6112	M6x1L	10,2	10,0	10,2	8,5
	6113	M8x1.25L	17,0	13,5	13,9	11,5

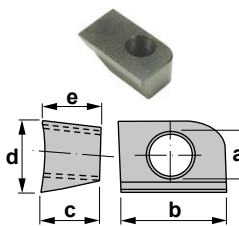
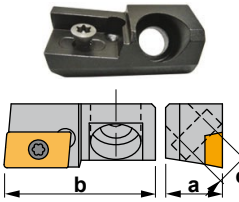
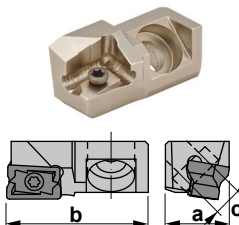
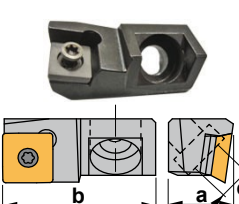
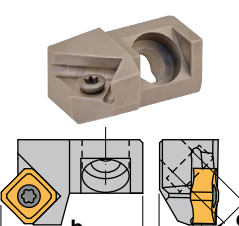

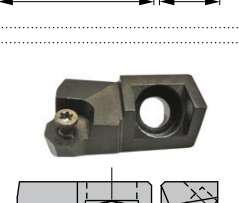
	Riferimento Referencia	a	b	c	d	e	f	g
	6226	7,5	11,8	9	4,7	7,1	R4,5	M6

	Riferimento Referencia	a	b	c	d	e
	6412	27,8	15,3	38,2	25,9	R5.5

	Riferimento Referencia	a	b	c	d	e
	6416	27,8	17,5	38,5	25,9	R5.5

	Riferimento Referencia	a	b	c	d	e
	6435	M7x0.75L	15,0	8,5	11,8	8,5

Cartucce / Cartuchos y bases

	Riferimento Referencia	a	b	c	d	e
	6436	M7x0.75L	15,5	10,0	11,8	10,0
	6438	M7x0.75L	18,0	8,5	11,8	8,5
	6489	M7x0.75L	21,8	8,0	12,5	8,0
	6491	M7x0.75L	21,0	8,0	12,6	8,0
	Riferimento Referencia	a	b	c		
	6230	15	40	8,3		
	Riferimento Referencia	a	b	c		
	6232	15	40	8,3		
	Riferimento Referencia	a	b	c		
	6255	15	40	8,3		
	Riferimento Referencia	a	b	c		
	6742	15	40	8,3		
	Riferimento Referencia	a	b	c		
	6748	15	40	8,3		
	Riferimento Referencia	a	b	c		
	6845	15	40	8,3		
	6846	15	40	8,3		

Cartucce / Cartuchos y bases

Riferimento Referencia	a	b	c
6936	17,5	14	13,0
6937	17,5	14	13,0
6938	17,5	14	13,0
6939	17,5	14	13,0
6940	19,0	18	16,2
6941	19,0	18	16,2

Riferimento Referencia	a	b	c
6526	11,5	27	5,93

Riferimento Referencia	a	b	c
6912	18,9	33,2	12
6914	19,0	32,6	12

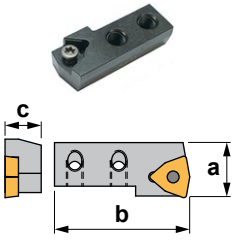
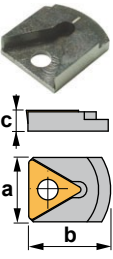
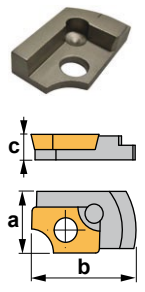
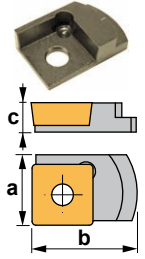
Riferimento Referencia	a	b	c
6918	19,2	35	11,2
6920	20,6	35	11,3

Riferimento Referencia	a	b	c
6927	15,5	33,2	11,8
6942	18,1	31,2	12,5

Riferimento Referencia	a	b	c
6806	12,8	32	10,7



Cartucce / Cartuchos y bases

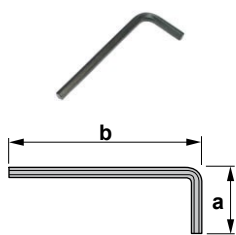
	Riferimento Referencia	a	b	c
	6816	16,3	40	10,7
	Riferimento Referencia	a	b	c
	6921	11	12,9	2,9
	6926	16	19,5	4,8
	Riferimento Referencia	a	b	c
	6925	12,7	22	4,8
	Riferimento Referencia	a	b	c
	6944	14,3	21,7	5,9



J

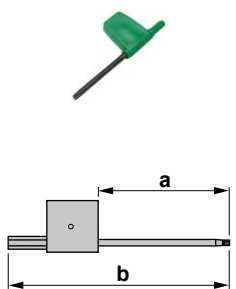
Chiavi (Brugola) / Llaves (Allen)

Riferimento Referencia	a	b	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
5002	18,0	51,5	A2	1.4
5003	22,2	64,4	A3	3.0
5004	27,6	72,6	A4	3.5
5005	32,0	83,0	A5	4.0
5006	37,0	96,0	A6	-
5015	14,4	45,5	A1.5	0.6
5025	19,0	57,3	A2.5	2.0

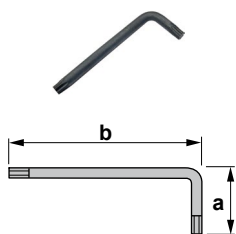


Chiavi (Torx) / Llaves (Torx)

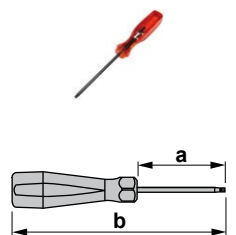
Riferimento Referencia	a	b	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
5506	34,5	62,0	T6	0.6
5507	35,0	63,0	T7	0.9
5508	44,0	72,0	T8	1.2
5509	38,0	74,0	T9	1.4
5510	38,0	74,0	T10	2.0
5510-IP	38,0	74,0	T10-IP	2.5
5515	45,5	82,5	T15	3.0
5515-IP	45,5	82,5	T15-IP	3.5
5520	45,9	80,0	T20	4.0
5525	53,0	92,0	T25	5.0



Riferimento Referencia	a	b	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
5530	27,6	77,6	T30	7.0



Riferimento Referencia	a	b	Chiave Llave	Coppia serraggio (N.m) Par de apriete (N-m)
5607	50,8	129,3	T7	0.9
5608	59,0	136,0	T8	1.2
5610	79,2	177,0	T10	2.0
5615	66,6	99,0	T15	3.0
5620	100,0	207,7	T20	4.0
5625	100,0	208,0	T25	5.0



Chiavi per le lame / Llaves para lamas

Riferimento Referencia	a	b
5732	27,5	81

