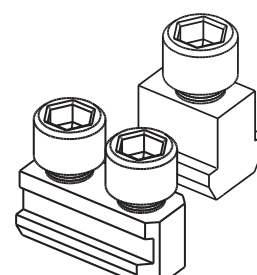
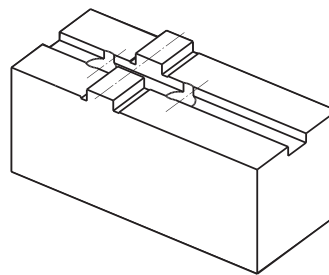
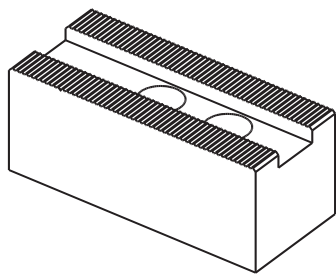
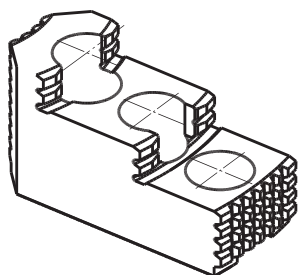


Morsetti duri reversibili, morsetti teneri, tasselli a T

Hard top jaws, soft top jaws, T-nuts



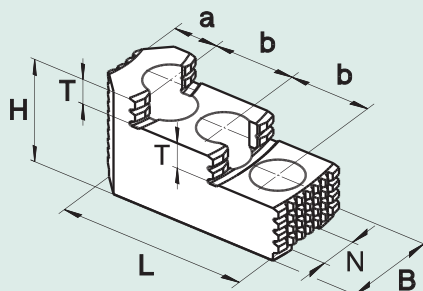
Il modo più semplice di montare i giusti morsetti sul vostro mandrino autocentrante MARIO PINTO

The easy way to mount the right top jaws on your MARIO PINTO chuck

	Diametro mandrino Chuck diameter	Modelli dei mandrini Chuck series					Morsetti duri Hard top jaws		Morsetti teneri Soft top jaws	Tasselli a T T-nuts	
		FN	IN	GP	GB	PB	Set 3 morsetti duri No. Set 3 hard top jaws No.	Set 4 morsetti duri No. Set 4 hard top jaws No.	Morsetti teneri (P2) No. Soft top jaws Id. No.	Tipo di tassello T-nut type	Tassello a T (P2) No. T-nuts Id. No.
Dentatura in pollici "D" Inch serration "D"	125	●					12081306	12081308	12071300	3	12061200
	130			●		●	12081306	12081308	12071300	2	12061300
	140				●						
	165	●		●		●	12081636	12081638	12071680	3	73061650
	175				●						
	210	●		●	●	●	12082036	12082038	12072130	3	73062150
	250	●		●	●	●	12083036	12083038	12072500	3	73063050
	305/315	●		●	●	●	12083036	12083038	12073000	3	73063050
	400						12084006	12084008	12074030	1	12063000
	400	●					12085046	12085048	12074040	1	12065020
	500						12084546	12085048	12075050	1	12065082
	500		●								
	610						12086346	12086348	12075040	1	12065002
630		●									
640											
800		●				12086346	12086348	12075040	1	12065002	
Dentatura metrica "M" Metric serration "M"	125	●					12081307	12081309	12071301	3	12061200
	130			●		●	12081307	12081309	12071301	2	12061300
	140				●						
	165	●		●		●	12081627	12081629	12071621	4	73061602
	175				●						
	210	●		●	●	●	12082127	12082129	12072121	4	73062101
	250	●		●	●	●	12082627	12082629	12072621	4	73062501
	305/315	●		●	●	●	12083037	12083039	12073001	3	73063050
	400						12084007	12084009	12074031	1	12063000
	400	●					12084047	12084049	12074041	1	12065020
Incastro a croce "C" Tongue & groove "C"	165	●				●	-	-	12041660	-	-
	210	●				●	-	-	12042060	-	-
	250	●				●	-	-	12042560	-	-
	305/315	●				●	-	-	12043060	-	-
	400	●				●	-	-	12044050	-	-
	500		●								
	630		●				-	-	12045050	-	-
800		●									

Morsetti duri reversibili, morsetti teneri, tasselli a T

Hard top jaws, soft top jaws, T-nuts

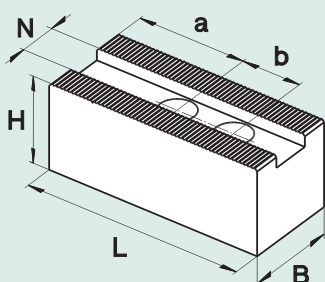


Morsetti duri reversibili con dentatura in POLLICI "D" - Inch serrated hard top jaws "D"

Morsetti di 1ª operazione, se una alta concentricità è richiesta devono essere rettificati sul mandrino
If high concentricity is required, jaws have to be ground on the chuck at clamping pressure

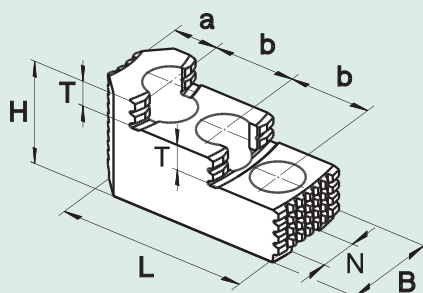
No. * Id. No. *	Dentatura in pollici Inch serration	B mm	H mm	L mm	N mm	T mm	a mm	b mm	Massa/Mass Kg/cad
12081306	1/16" x 90°	30	34	58	12	8.5	13	16	0.20
12081636	1/16" x 90°	34	39	65	14	10	18	16.5	0.30
12082036	1/16" x 90°	40	45	82	17	10.5	19	23	0.57
12082626	1/16" x 90°	45	56	100	17	15.5	23	30	0.85
12083036	1/16" x 90°	45	56	105	21	13.5	26	30	0.95
12084006	1/16" x 90°	55	73	120	21	22	30	34	1.70
12085046	3/32" x 90°	55	73	145	25.5	32	46	38	2.20
12084546	3/32" x 90°	60	75	140	25.5	19	38	38	2.50
12086346	3/32" x 90°	70	75	145	25.5	32	46	38	3.00

* Il numero si riferisce ad una serie di 3 morsetti, per le serie di 4 morsetti esso non termina per 6 ma per 8
The number refers to a set of 3 jaws, for set of 4 jaws the final number is not 6 but 8



Morsetti teneri con dentatura in POLLICI "D" - Inch serrated soft blank top jaws "D"

No. * Id. No. *	Dentatura in pollici Inch serration	B mm	H mm	L mm	N mm	a mm	b mm	Massa/Mass Kg/cad
12071300	1/16" x 90°	30	30	60	12	29	16	0.30
12071680	1/16" x 90°	30	35	70	14	38	16.5	0.42
12072130	1/16" x 90°	35	40	90	17	47	23	0.85
12072500	1/16" x 90°	45	45	110	21	60	30	1.25
12073000	1/16" x 90°	50	50	125	21	73	30	1.85
12074030	1/16" x 90°	60	60	140	21	81	34	3.20
12074040	3/32" x 90°	60	60	140	25.5	75	38	3.20
12075050	3/32" x 90°	60	60	170	25.5	105	38	3.60
12075040	3/32" x 90°	75	75	160	25.5	97	38	5.50

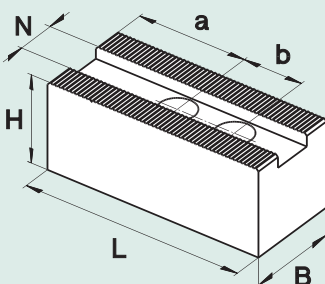


Morsetti duri reversibili con dentatura METRICA "M" - Metric serrated hard top jaws "M"

Morsetti di 1ª operazione, se una alta concentricità è richiesta devono essere rettificati sul mandrino
If high concentricity is required, jaws have to be ground on the chuck at clamping pressure

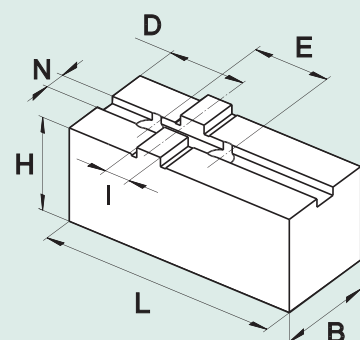
No. * Id. No. *	Dentatura in mm serration mm	B mm	H mm	L mm	N mm	T mm	a mm	b mm	Massa/Mass Kg/cad
12081307	1.5 x 60°	30	34	58	12	8.5	13	16	0.20
12081627	1.5 x 60°	34	39	67	12	10	14	20	0.31
12082127	1.5 x 60°	40	45	86	14	10.5	19	25	0.60
12082627	1.5 x 60°	45	56	100	16	15.5	23	30	0.85
12083037	1.5 x 60°	45	56	105	21	13.5	26	30	0.95
12084007	1.5 x 60°	55	73	120	21	22	30	34	1.70
12084047	1.5 x 60°	55	73	145	25.5	32	46	38	2.20

* Il numero si riferisce ad una serie di 3 morsetti, per le serie di 4 morsetti esso non termina per 6 ma per 8
The number refers to a set of 3 jaws, for set of 4 jaws the final number is not 6 but 8



Morsetti teneri con dentatura METRICA "M" - Metric serrated soft blank top jaws "M"

No. * Id. No. *	Dentatura in mm Serration mm	B mm	H mm	L mm	N mm	a mm	b mm	Massa/Mass Kg/cad
12071301	1.5 x 60°	30	30	60	12	29	16	0.30
12071621	1.5 x 60°	30	35	70	12	34	20	0.42
12072121	1.5 x 60°	35	40	90	14	47	25	0.85
12072621	1.5 x 60°	45	45	110	16	60	30	1.30
12073001	1.5 x 60°	50	50	125	21	73	30	1.85
12074031	1.5 x 60°	60	60	140	21	81	34	3.20
12074041	1.5 x 60°	60	60	140	25.5	75	38	3.20



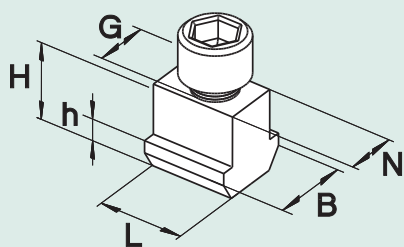
Morsetti teneri con incastro a croce "C" - Tongue & groove soft blank top jaws "C"

Incastro a croce tipo "American Standard"
"American Standard" tongue & groove

No. * Id. No. *	B mm	H mm	L mm	N mm	D mm	E mm	I mm	Massa/Mass Kg/cad
12041660	30	35	80	7.94	30	38.1	12.68	0.58
12042060	40	40	100	7.94	35	44.4	12.68	0.92
12042560	50	50	120	12.70	42	54	19.03	1.25
12043060	50	50	140	12.70	50	63.5	19.03	2.15
12044050	60	60	165	12.70	60	76.2	19.03	3.60
12045050	75	75	165	12.70	60	76.2	19.03	5.50

Tasselli a T T-nuts

NST Tipo 1 Type 1



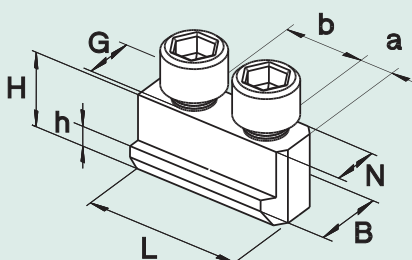
Tasselli a T semplice tipo NST - Single T-nut NST

Tipo 1 (vedere la tabella a pag. 126)
Type 1 (see table at page 126)

No. Id. No.	B mm	H mm	L mm	N mm	G mm	h mm
12065020	35	34	30	25.5	M20	15
12063000	29	25	24	21	M16	11
12065082	36	34	30	25.5*	M20	15
12065002	40	40	32	25.5*	M20	15.5

* 25.5 mm di guida nel morsetto e 28 mm di guida nella griffa base
25.5 mm guide in the top jaw and 28 mm guide in the master jaw

NSTE Tipo 2 Type 2

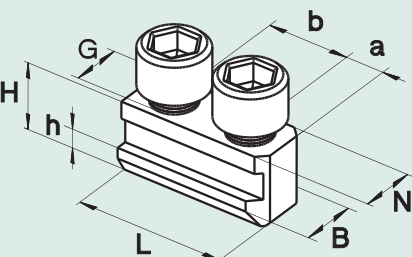


Tasselli a T doppio tipo NSTE - Double T-nut NSTE

Tipo 2 (vedere la tabella a pag. 126)
Type 2 (see table at page 126)

No. Id. No.	B mm	H mm	L mm	N mm	G mm	a mm	b mm	h mm
12061300	17	15	30	12	M8	7	16	6.50

NSTE Tipo 3 Type 3

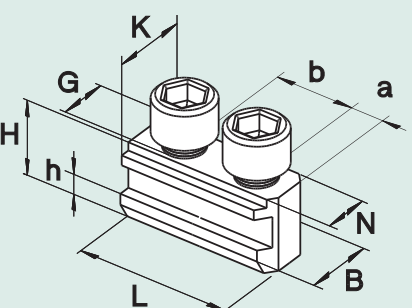


Tasselli a T doppio tipo NSTE - Double T-nut NSTE

Tipo 3 (vedere la tabella a pag. 126) - per mandrini con dentatura in pollici
Type 3 (see table at page 126) - for chucks with inch serration

No. Id. No.	B mm	H mm	L mm	N mm	G mm	a mm	b mm	h mm
12061200	15	15	32	12	M8	6.5	16	6.5
73061650	17	18.5	32	14	M10	8	16.5	6.5
73062150	19	20.5	43	17	M12	10	23	7.5
73063050	25	26.5	56	21	M16	13	30	10

NSTE-M Tipo 4 Type 4



Tasselli a T doppio tipo NSTE-M - Double T-nut NSTE-M

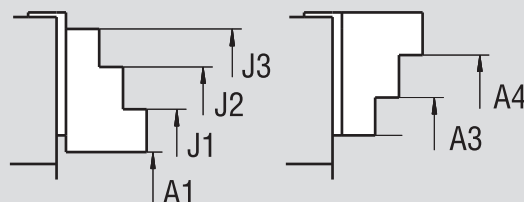
Tipo 4 (vedere la tabella a pag. 126) - per mandrini con dentatura metrica compatibili con i morsetti dei mandrini giapponesi
Type 4 (see table at page 126) - for metric master jaws to use existing Kitagawa top jaws

No. Id. No.	B mm	H mm	L mm	N mm	K mm	G mm	a mm	b mm	h mm
73061602	17	18.5	36	12	14	M10	8	20	6.5
73062101	19	20.5	45	14	17	M12	10	25	7.5
73062501	25	26.5	56	16	21	M12	13	30	10

Campi di presa con morsetti duri reversibili standard

Clamping ranges with standard stepped hard top jaws

mandrini autocentranti automatici standard Ø 125-800 mm
 standard power chucks Ø 125-800 mm



Diametro Chuck dia.	Modelli di mandrino Chuck type	Mors. duri/Top jaws Id. No.		A1 mm	A2 mm	A3 mm	A4 mm	J1 mm	J2 mm	J3 mm
		Denti/Serr. "D"	Denti/Serr. "M"							
125	FN-D	12081306	12081307	10-54	-	54-92	90-120	56-100	90-135	125-170
165	FN-D	12081636	12081627	14-80	-	62-125	110-155	65-125	115-175	145-210
210	FN-D	12082036	12082127	20-100	-	72-150	150-200	75-150	145-230	190-265
250	FN-D	12083036	12082627	20-115	-	105-205	190-235	80-165	155-250	230-325
315	FN-D	12083036	12083037	30-170	-	120-265	205-300	95-225	165-310	240-380
400	FN-D	12085046	12084047	40-190	85-235	-	270-380	150-300	-	330-480
500	IN-D	12086346	-	80-320	125-365	-	320-475	180-420	-	370-610
630	IN-D	12086346	-	80-440	125-485	-	320-600	180-540	-	370-730
800	IN-D	12086346	-	80-610	125-655	-	320-760	180-710	-	370-900
130	GP-D, GP-M	12081306	12081307	10-58	-	55-97	90-120	58-105	90-140	125-175
140	GB-D, GB-M	12081306	12081307	16-65	-	55-105	90-130	65-110	98-148	132-182
165	GP-D, GP-M	12081636	12081627	12-80	-	62-125	110-155	62-125	105-170	145-210
175	GB-D, GB-M	12081636	12081627	25-92	-	74-138	120-165	74-138	118-185	155-220
210	GP-D, GP-M	12082036	12082127	14-100	-	65-150	140-200	65-150	135-230	180-265
210	GB-D, GB-M	12082036	12082127	25-100	-	80-150	155-200	80-150	150-230	195-265
250	GP-D, GP-M	12083036	12083037	20-115	-	105-205	190-235	80-165	155-250	230-325
250	GB-D, GB-M	12083036	12083037	25-115	-	115-205	200-235	85-165	165-250	240-325
315	GP-D, GP-M	12083036	12083037	40-170	-	135-265	220-300	100-225	180-310	250-380
315	GB-D, GB-M	12083036	12083037	75-170	-	165-265	250-300	130-225	210-310	320-415
400	GHD, GHM	12084006	12084007	90-250	-	195-355	285-380	155-315	240-400	330-490