

JOGOS DE MACHOS HSS TR

DIREITOS

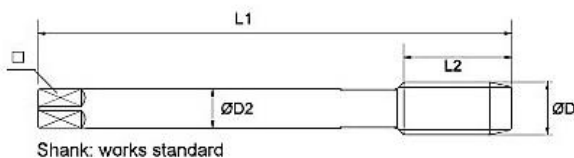
ESQUERDOS

TR Trapezoidal thread
DIN 103

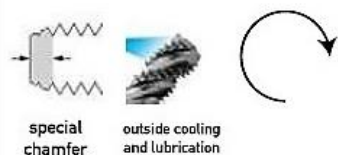
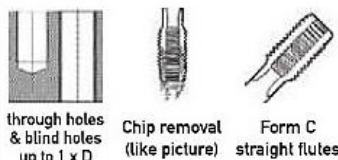
Efficient internal thread cutting.
The short structural type makes that tap usable by hand. The Short-Machine-Tap is also usable by machine.

A Hand-Tap-Set includes 3 taps:

- Taper Tap
- Intermediate Tap
- Finish Tap

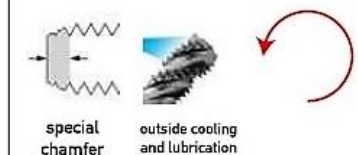
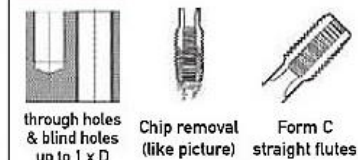


**Hand Tap Sets
for general use**



**Hand Tap Sets
for general use**

Left Hand



TR

D2 L1 L2 □

No.

€

No.

€

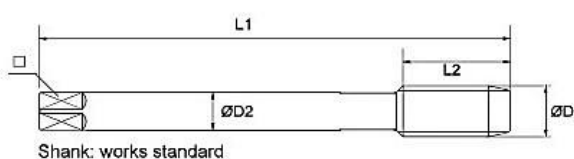
TR	D2	L1	L2	□		No.	€	No.	€
TR 9 x 1,5	7,0	100,0	22	5,5	7,60	230301001	*	230302001	*
TR 10 x 1,5	7,0	100,0	22	5,5	8,60	230301002	436,71	230302002	681,39
TR 10 x 2	7,0	90,0	34	5,5	8,20	230301003	330,79	230302003	749,42
TR 10 x 3	7,0	100,0	40	5,5	7,60	230301004	330,79	230302004	749,42
TR 11 x 2	8,0	100,0	22	6,2	9,20	230301005	553,01	230302005	862,44
TR 12 x 2	9,0	110,0	25	7,0	10,20	230301006	480,27	230302006	749,42
TR 12 x 3	8,0	110,0	40	6,2	9,25	230301007	344,25	230302007	749,42
TR 14 x 2	11,0	110,0	26	9,0	12,20	230301008	652,86	230302008	989,72
TR 14 x 3	10,0	130,0	45	8,0	11,25	230301009	438,77	230302009	899,75
TR 14 x 4	10,0	130,0	55	8,0	10,70	230301010	438,77	230302010	899,75
TR 16 x 2	12,0	110,0	27	9,0	14,20	230301011	652,86	230302011	989,72
TR 16 x 4	11,0	140,0	55	9,0	12,25	230301012	438,80	230302012	899,75
TR 18 x 2	14,0	125,0	27	11,0	16,20	230301013	921,69	230302013	1437,40
TR 18 x 4	12,0	150,0	55	9,0	14,25	230301014	624,42	230302014	1330,96
TR 20 x 2	16,0	140,0	27	12,0	18,20	230301015	987,53	230302015	1538,34
TR 20 x 4	14,0	160,0	55	11,0	16,25	230301016	658,18	230302016	1424,23
TR 22 x 3	18,0	160,0	34	14,5	19,25	230301017	1245,38	230302017	1943,23
TR 22 x 5	16,0	175,0	65	12,0	17,30	230301018	833,65	230302018	1799,49
TR 24 x 3	18,0	160,0	36	14,5	21,25	230301019	1382,54	230302019	2145,12
TR 24 x 5	18,0	190,0	65	14,5	19,30	230301020	914,72	230302020	1986,02
TR 26 x 3	20,0	160,0	36	16,0	23,25	230301021	1525,18	230302021	2368,96
TR 26 x 5	20,0	210,0	70	16,0	21,30	230301022	1015,86	230302022	2164,87
TR 28 x 3	22,0	180,0	40	18,0	25,25	230301023	1662,33	230302023	2588,41
TR 28 x 5	22,0	220,0	70	18,0	23,30	230301024	1107,07	230302024	2398,59
TR 30 x 3	22,0	180,0	40	18,0	27,25	230301025	1811,45	230302025	2827,61
TR 30 x 6	22,0	240,0	80	18,0	24,30	230301026	1181,26	230302026	2547,81
TR 32 x 6	25,0	255,0	80	20,0	26,30	230301027	1437,90	230302027	2946,12

Machine Nut Taps

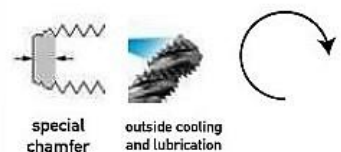
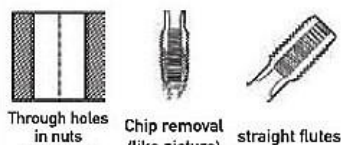
TR

Trapezoidal thread
DIN 103

Machine Nut Tap with long shank for cutting Nuts.
For all through holes up to a max. thread depth of 1,0 x diameter.
Please note that this tap can only take cutting forces up to 1,0 times diameter.

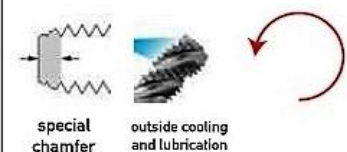
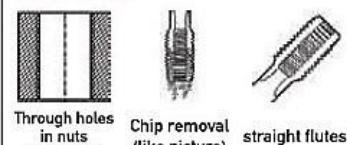


Machine Nut Taps for general use



Machine Nut Taps for general use

Left Hand



TR	D2	L1	L2	□		No.	€	No.	€
TR 8 x 1,5	6,0	90,0	55	4,9	6,70				
TR 9 x 2	7,0	110,0	63	5,5	7,20				
TR 10 x 2	7,0	110,0	63	5,5	8,20	230901001	231,74	230902001	325,31
TR 10 x 3	7,0	125,0	75	5,5	7,60	230901002	231,74	230902002	325,31
TR 12 x 2	9,0	135,0	75	7,0	10,20				
TR 12 x 3	8,0	165,0	111	6,2	9,25	230901003	200,52	230902003	280,67
TR 14 x 2	10,0	150	90	8,0	12,20				
TR 14 x 3	10,0	140	85	8,0	11,25	230901004	213,83	230902004	300,81
TR 14 x 4	10,0	170	112	8,0	10,70	230901005	213,83	230902005	300,81
TR 16 x 2	12,0	160	90	9,0	14,20				
TR 16 x 4	11,0	180	116	9,0	12,25	230901006	233,96	230902006	325,31
TR 18 x 2	14,0	175	90	11,0	16,20				
TR 18 x 4	12,0	190	120	9,0	14,25	230901007	239,55	230902007	325,26
TR 20 x 2	16,0	185	105	12,0	18,20				
TR 20 x 4	14,0	200	124	11,0	16,25	230901008	248,46	230902008	348,59
TR 22 x 3	16,0	220	125	12,0	19,25				
TR 22 x 4	16,0	210	130	12,0	18,25	230901009	322,99		
TR 22 x 5	16,0	235	155	12,0	17,30	230901010	322,99	230902009	451,05
TR 24 x 3	18,0	220	130	14,5	21,25				
TR 24 x 5	18,0	245	160	14,5	19,30	230901011	369,81	230902010	517,90
TR 26 x 3	20,0	235	130	16,0	23,25				
TR 26 x 5	20,0	255	165	16,0	21,30	230901012	389,88	230902011	541,31
TR 28 x 3	22,0	245	140	18,0	25,25				
TR 28 x 5	22,0	265	170	18,0	23,30	230901013	434,41	230902012	602,57
TR 30 x 3	22,0	250	140	18,0	27,25				
TR 30 x 6	22,0	290	185	18,0	24,30	230901014	506,80	230902013	707,33
TR 32 x 6	25,0	300	191	20,0	26,30	230901015	623,74	230902014	857,58
TR 36 x 6	28,0	310	200	22,0	30,50	230901016	634,94	230902015	879,92

TR Trapezoidal thread
DIN 103
HSSE-nitrated - 900N/mm2



PREÇOS POR CONSULTA

TR

Trapezoidal thread
DIN 103

Round Dies
for general use

Round Dies
for general use
Left Hand



material:
HSS

7e

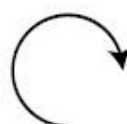


material:
HSS

7e



Chamfer:
1.75 threads



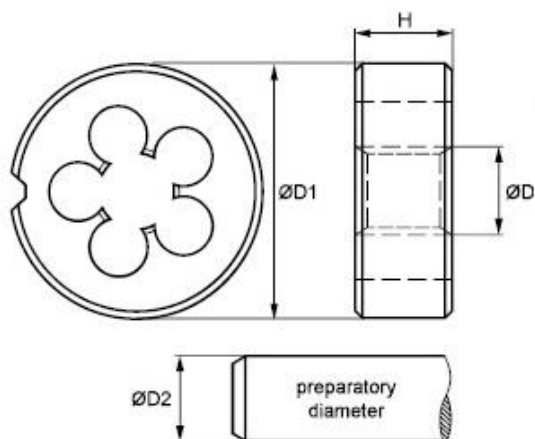
right hand
thread



Chamfer:
1.75 threads



left hand
thread



Round Dies



TR

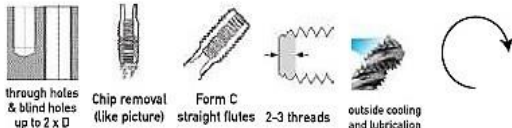
	D1	H	D2	No.	€	No.	€
TR 10 x 2	38,0	14	9,91	231401001	110,85	231402001	253,05
TR 10 x 3	38,0	14	9,88	231401002	158,05	231402002	*
TR 12 x 2	38,0	14	11,91	231401003	158,05	231402003	*
TR 12 x 3	38,0	14	11,88	231401004	120,20	231402004	352,28
TR 14 x 2	38,0	14	13,91	231401005	158,05	231402005	*
TR 14 x 3	45,0	18	13,88	231401006	169,18	231402006	399,00
TR 14 x 4	45,0	18	13,85	231401007	187,27	231402007	319,20
TR 16 x 2	45,0	18	15,91	231401008	220,37	231402008	*
TR 16 x 4	45,0	18	15,85	231401009	154,15	231402009	361,73
TR 18 x 2	45,0	18	17,91	231401010	247,09	231402010	*
TR 18 x 4	45,0	18	17,85	231401011	155,82	231402011	361,73
TR 20 x 2	45,0	18	19,91	231401012	251,54	231402012	*
TR 20 x 4	55,0	22	19,85	231401013	202,57	231402013	399,53
TR 22 x 5	55,0	22	21,84	231401014	268,23	231402014	822,15
TR 24 x 5	65,0	25	23,84	231401015	268,23	231402015	573,30
TR 26 x 5	65,0	25	25,84	231401016	268,23	231402016	822,15
TR 28 x 5	65,0	25	27,84	231401017	287,15	231402017	939,75
TR 30 x 6	65,0	25	29,82	231401018	323,88	231402018	930,30

* on request

JOGOS DE MACHOS E CAÇONETES HSS BA

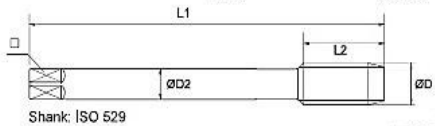
BA

British Association thread
BS 93



TOL
material: HSSG medium
N/mm² HRC
to 900 N/mm² 27.1 HRC

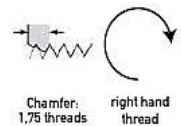
**(conical)
Hand Tap Sets**



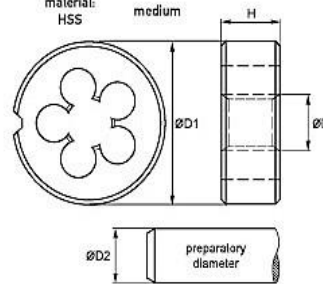
BA	D1	D2	L1	L2			No.	€
BA 0	6,00	6,3	66	19,0	5,0	5,10	290313001	19,38
BA 1	5,30	5,6	62	17,0	4,5	4,50	290313002	19,38
BA 2	4,70	5,0	58	16,0	4,0	4,00	290313003	19,38
BA 3	4,10	4,5	53	13,0	3,6	3,40	290313004	19,38
BA 4	3,60	3,6	50	13,0	2,8	3,00	290313005	19,38
BA 5	3,20	3,2	48	11,0	2,5	2,65	290313006	19,38
BA 6	2,80	2,8	45	9,5	2,2	2,30	290313007	19,38

OUTRAS CONFIGURAÇÕES – FAVOR CONSULTAR

TOL
material: HSS medium



Round Dies



BA	D	D1	H	D2	No.	€
BA 0	6,00	20,6	6,35	5,90	291401001	13,30
BA 1	5,30	20,6	6,35	5,21	291401002	13,30
BA 2	4,70	20,6	6,35	4,61	291401003	13,30
BA 3	4,10	20,6	6,35	4,02	291401004	13,30
BA 4	3,60	20,6	6,35	3,52	291401005	13,30
BA 5	3,20	20,6	6,35	3,14	291401006	13,30
BA 6	2,80	20,6	6,35	2,74	291401007	13,30
BA 7	2,50	20,6	6,35	2,44	291401008	*
BA 8	2,20	20,6	6,35	2,15	291401009	*
BA 10	1,70	20,6	6,35	1,66	291401010	*

* on request

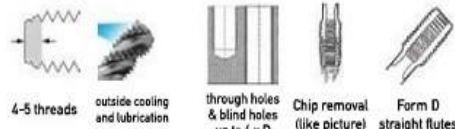
MACHOS E CAÇONETES HSS PG

PG

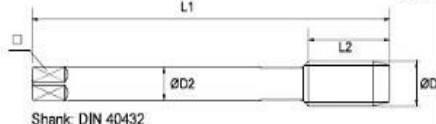
Steel Conduit Thread
DIN 40430

Application:
non abrasive material up to 900 N/mm²
unalloyed and low alloyed steel

TOL
material: HSSG medium
N/mm² HRC
to 900 N/mm² 27.1 HRC



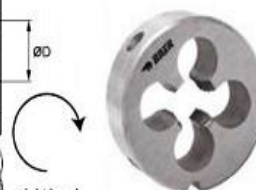
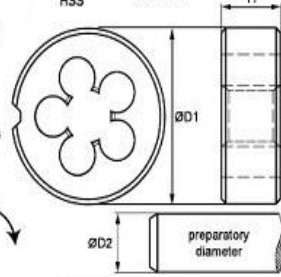
Short Machine Taps



TOL
material: HSS medium



Round Dies



PG	D1	D2	L1	L2			No.	€
PG 7 x 20	12,50	9,0	70	22	7,0	11,35	320101001	11,69
PG 9 x 18	15,20	12,0	70	22	9,0	13,95	320101002	15,60
PG 11 x 18	18,60	14,0	80	22	11,0	17,35	320101003	25,73
PG 13,5 x 18	20,40	16,0	80	22	12,0	19,15	320101004	30,40
PG 16 x 18	22,50	18,0	80	22	14,5	21,25	320101005	36,86
PG 21 x 16	28,30	22,0	90	22	18,0	26,90	320101006	50,34
PG 29 x 16	37,00	28,0	100	25	22,0	35,60	320101007	83,53
PG 36 x 16	47,00	36,0	140	40	29,0	45,60	320101008	133,65
PG 42 x 16	54,00	40,0	140	40	32,0	52,60	320101009	211,60
PG 48 x 16	59,30	45,0	160	40	35,0	57,90	320101010	250,59

PG	D	D1	H	D2	No.	€
PG 7 x 20	12,50	38	10	12,50	321401001	43,22
PG 9 x 18	15,20	45	14	15,20	321401002	52,63
PG 11 x 18	18,60	45	14	18,60	321401003	52,63
PG 13,5 x 18	20,40	45	14	20,40	321401004	52,63
PG 16 x 18	22,50	55	16	22,50	321401005	62,05
PG 21 x 16	28,30	65	18	28,30	321401006	95,30
PG 29 x 16	37,00	65	18	37,00	321401007	95,30
PG 36 x 16	47,00	90	22	47,00	321401008	188,39
PG 42 x 16	54,00	105	22	54,00	321401009	239,34
PG 48 x 16	59,30	105	22	59,30	321401010	239,34

OUTRAS CONFIGURAÇÕES – FAVOR CONSULTAR

ON REQUEST ANY OTHER EXECUTION