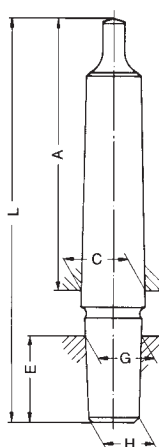


Tool group A04
Type 236 **Taper shank arbors with drill chuck taper DIN 238**
completely hardened and ground

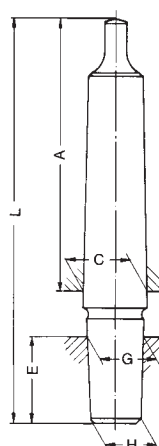


Item no.	Morse taper DIN 228 B	Hole for alignment pin	L	A	C	E	G	H	Weight
014893 ●	0	B10	79	56,5	9,045	14,5	10,095	9,4	35
014894 ●	0	B12	85	56,5	9,045	18,5	12,065	11,1	40
014897 ●	1	B10	86	62	12,065	14,5	10,095	9,4	55
014898 ●	1	B12	89	62	12,065	18,5	12,065	11,1	65
014899 ●	1	B16	97	62	12,065	24	15,733	14,5	90
014900 ●	1	B18	106	62	12,065	32	17,78	16,2	110
018755 ¹⁾ ●	1	B18	97	62	12,065	25	17,431	16,2	95
014904 ●	2	B10	103,5	75	17,78	14,5	10,095	9,4	130
014905 ●	2	B12	106,5	75	17,78	18,5	12,065	11,1	135
014906 ●	2	B16	110,5	75	17,78	24	15,733	14,5	160
014907 ●	2	B18	117,5	75	17,78	32	17,78	16,2	180
018756 ¹⁾ ●	2	B18	108,5	75	17,78	25	17,431	16,2	165
014908 ●	2	B22	128,5	75	17,78	40,5	21,793	19,8	245
014911 ●	3	B12	125	94	23,825	18,5	12,065	11,1	280
014912 ●	3	B16	134	94	23,825	24	15,733	14,5	310
014913 ●	3	B18	141	94	23,825	32	17,78	16,2	320
018757 ¹⁾ ●	3	B18	132	94	23,825	25	17,431	16,2	320
014914 ●	3	B22	147	94	23,825	40,5	21,793	19,8	390
014915 ●	3	B24	158	94	23,825	50,5	23,825	21,3	440
014916 ●	4	B16	159	117,5	31,267	24	15,733	14,5	625
014917 ●	4	B18	168	117,5	31,267	32	17,78	16,2	660
018758 ¹⁾ ●	4	B18	159	117,5	31,267	25	17,431	16,2	640
014918 ●	4	B22	176	117,5	31,267	40,5	21,793	19,8	715
014919 ●	4	B24	185	117,5	31,267	50,5	23,825	21,3	770
014920 ●	5	B16	196	149,5	44,399	24	15,733	14,5	1600
014921 ●	5	B18	204,5	149,5	44,399	32	17,78	16,2	1600
018759 ¹⁾ ●	5	B18	195,5	149,5	44,399	25	17,431	16,2	1560
014922 ●	5	B22	213,5	149,5	44,399	40,5	21,793	19,8	1650
014923 ●	5	B24	224,5	149,5	44,399	50,5	23,825	21,3	1700

¹⁾ for Supra and Spiro with shortened pick up taper

Taper shank arbors with tapped shank (type 238) or cylindrical shank type (type 237) on request

Tool group A04
Type 236 **Taper shank arbors with Jacobs drill chuck taper**
completely hardened and ground



Item no.	Morse taper DIN 228 B	Hole for alignment pin	L	A	C	E	G	H	Weight
014970 ●	1	J1	86,5	62	12,065	16,7	9,754	8,5	50
014971 ●	1	J2	92	62	12,065	22,2	14,199	12,4	70
014972 ●	1	J3	101	62	12,065	31	20,599	19	50
014974 ●	1	J6	95	62	12,065	25,4	17,17	15,9	50
014976 ●	2	J1	101	75	17,78	16,7	9,754	8,5	130
014977 ●	2	J2	106,5	75	17,78	22,2	14,199	12,4	160
014978 ●	2	J3	115,5	75	17,78	31	20,599	19	200
014980 ●	2	J33	109,5	75	17,78	25,4	15,85	14,2	160
014981 ●	2	J6	109,5	75	17,78	25,4	17,17	15,9	165
014983 ●	3	J2	126	94	23,825	22,2	14,199	12,4	310
014984 ●	3	J3	135	94	23,825	31	20,599	19	350
014987 ●	3	J33	129	94	23,825	25,4	15,85	14,2	310
014988 ●	3	J6	129	94	23,825	25,4	17,17	15,9	310
014991 ●	4	J3	161	117,5	31,267	31	20,599	19	475
014995 ●	4	J6	155	117,5	31,267	25,4	17,17	15,9	620

Tool group A05
Type 261 **Standard version**
similar to DIN 2185
ground external taper



Item no.	External taper MT	Internal taper MT	L	Weight approx. g
017002 ●	1	0	80	30
017003 ●	2	1	92	95
017001 ●	3	1	99	250
017004 ●	3	2	112	190
017005 ●	4	1	124	550
017006 ●	4	2	124	480
017007 ●	4	3	140	360
017008 ●	5	1	156	1700
017009 ●	5	2	156	1520
017010 ●	5	3	156	1360
017011 ●	5	4	171	950
017013 ●	6	2	218	4300
017014 ●	6	3	218	4100
017015 ●	6	4	218	3600
017016 ●	6	5	218	2550

Tool group A05
Type 262 **Precision version**
DIN 2185
completely hardened, ground
internal and external



Item no.	External taper MT	Internal taper MT	L	Weight approx. g
017017 ●	1	0	80	30
017018 ●	2	1	92	95
017019 ●	3	1	99	250
017020 ●	3	2	112	190
017021 ●	4	1	124	550
017022 ●	4	2	124	480
017023 ●	4	3	140	360
017024 ●	5	1	156	1700
017025 ●	5	2	156	1520
017026 ●	5	3	156	1360
017027 ●	5	4	171	950
017028 ●	6	2	218	4300
017029 ●	6	3	218	4100
017030 ●	6	4	218	3600
017031 ●	6	5	218	2550

Tool group A05
Type 263 **with internal cones**
reduced by the length of the tang
ground external taper



Item no.	External taper MT	Internal taper MT	L	Weight approx. g
017032 ●	1	0	80	30
017033 ●	2	1	92	95
017034 ●	3	2	112	190
017035 ●	4	3	140	360
017036 ●	5	4	171	950
017037 ■	6	5	218	2550

For use with spiral drills with broken off flat tang. The broken off shaft is provided with a new flat tang. The drill shortened in this way can then be reinserted and later ejected.

Tool group A05
Type 274 with **forcing nuts**
completely hardened, ground
internal and external



Item no.	External taper MT	Internal taper MT	L	Weight approx. g
032112	2	1	95	140
032113	3	1	115	360
032114	3	2	115	270
032115	4	1	137	670
032116	4	2	137	590
032117	4	3	137	470
032119	5	2	173	1750
032120	5	3	173	1590
032121	5	4	173	1270
032124	6	3	240	4630
032125	6	4	240	4110
032126	6	5	240	3020

Tool group A05
Type 266-00 **Taper drift**



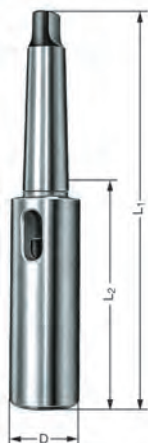
Item no.	for MT	Length	Weight
017075	0	90	14
017076	1+2	140	70
017077	3	190	150
017078	4	225	310
017079	5+6	265	650

Tool group A05
Type 266-50 **Taper drift**
for one-hand-operation



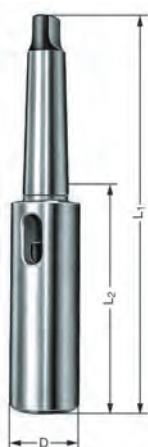
Item no.	for MT	Length	Weight
317236	1-3	320	320
317258	4-6	380	520

Tool group A05
Type 265 **Standard version**
similar to DIN 2187
ground external taper



Item no.	External taper MT	Internal taper MT	D	L1	L2	Weight
017054 ●	1	1	20	145	83	190
017055 ●	1	2	30	160	98	340
017056 ●	2	1	20	160	85	250
017057 ●	2	2	30	175	100	400
017058 ●	2	3	36	196	121	840
017059 ●	3	1	20	175	81	400
017060 ●	3	2	30	194	100	550
017061 ●	3	3	36	215	121	1000
017062 ●	3	4	48	240	146	1500
017063 ●	4	1	20	200	82,5	800
017064 ●	4	2	30	215	97,5	850
017065 ●	4	3	36	240	122,5	1300
017066 ●	4	4	48	265	147,5	1900
017067 ●	4	5	63	300	182,5	3310
017068 ●	5	1	20	232	82,5	1800
017069 ●	5	2	30	247	97,5	1900
017070 ●	5	3	36	268	118,5	2150
017071 ●	5	4	48	300	150,5	2750
017072 ●	5	5	63	335	185,5	4200
017073 ●	6	4	48	355	145	5420
017074 ●	6	5	63	390	180	6750

Tool group A05
Type 275 **Precision version**
DIN 2187
completely hardened, ground
internal and external



Item no.	External taper MT	Internal taper MT	D	L1	L2	Weight
029122 ●	1	1	20	145	83	190
029123 ●	1	2	30	160	98	340
029124 ●	2	1	20	160	85	250
029125 ●	2	2	30	175	100	400
029126 ●	2	3	36	196	121	840
029127 ●	3	1	20	175	81	400
029128 ●	3	2	30	194	100	550
029129 ●	3	3	36	215	121	1000
029130 ●	3	4	48	240	146	1500
029131 ●	4	1	20	200	82,5	800
029132 ●	4	2	30	215	97,5	850
029133 ●	4	3	36	240	122,5	1300
029134 ●	4	4	48	265	147,5	1900
029135 ●	4	5	63	300	182,5	3310
029136 ■	5	1	20	232	82,5	1800
029137 ●	5	2	30	247	97,5	1900
029138 ●	5	3	36	268	118,5	2150
029139 ●	5	4	48	300	150,5	2750
029140 ●	5	5	63	335	185,5	4200
029141 ■	6	4	48	355	145	5420
029142 ●	6	5	63	390	180	6750

Tool group A05
Type 268 **Standard version**
ground external taper



Item no.	External taper MT	Internal taper MT	D	L1	L2	Weight approx. g
017082 ●	1	1	20	200	138	250
017083 ●	1	1	20	250	188	375
017084 ●	1	1	20	300	238	500
017085 ●	1	1	20	350	288	625
017086 ●	1	1	20	400	338	750
017087 ●	1	1	20	450	388	875
017088 ●	1	1	20	500	438	1000
017000 ●	2	2	25	300	225	820
017090 ●	2	2	25	200	125	430
017091 ●	2	2	25	250	175	625
017092 ●	2	2	25	350	275	1015
017093 ●	2	2	25	400	325	1200
017094 ●	2	2	25	450	375	1400
017095 ●	2	2	25	500	425	1600
017096 ●	2	2	25	600	525	1800
017098 ●	3	3	32	250	156	1000
017099 ●	3	3	32	300	206	1300
017100 ●	3	3	32	350	256	1550
017101 ●	3	3	32	400	306	1850
017102 ●	3	3	32	450	356	2100
017103 ●	3	3	32	500	406	2400
017104 ●	3	3	32	600	506	2700
017107 ●	4	4	40	300	182,5	1650
017108 ●	4	4	40	350	232,5	2150
017109 ●	4	4	40	400	282,5	2650
017110 ●	4	4	40	450	332,5	3100
017111 ●	4	4	40	500	382,5	3600
017112 ●	4	4	40	600	482,5	4200

Tool group A05
Type 278 **Precision version**
completely hardened, ground
internal and external



Item no.	External taper MT	Internal taper MT	D	L1	L2	Weight approx. g
029143 ■	1	1	20	200	138	250
029144 ■	1	1	20	250	188	375
029145 ■	1	1	20	300	238	500
029146 ■	1	1	20	350	288	625
029147 ■	1	1	20	400	338	750
029148 ■	1	1	20	450	388	875
029149 ■	1	1	20	500	438	1000
029150 ■	2	2	25	200	125	430
029151 ■	2	2	25	250	175	625
029152 ■	2	2	25	300	225	820
029153 ■	2	2	25	350	275	1015
029154 ■	2	2	25	400	325	1200
029155 ■	2	2	25	450	375	1400
029156 ■	2	2	25	500	425	1600
029157 ■	2	2	25	600	525	1800
029158 ■	3	3	32	250	156	1000
029159 ■	3	3	32	300	206	1300
029160 ■	3	3	32	350	256	1550
029161 ■	3	3	32	400	306	1850
029162 ■	3	3	32	450	356	2100
029163 ■	3	3	32	500	406	2400
029164 ■	3	3	32	600	506	2700
029165 ■	4	4	40	300	182,5	1650
029166 ■	4	4	40	350	232,5	2150
029167 ■	4	4	40	400	282,5	2650
029168 ■	4	4	40	450	332,5	3100
029169 ■	4	4	40	500	382,5	3600
029170 ■	4	4	40	600	482,5	4200

Tool group A05
Type 273 **Open**, for lathes
completely hardened, ground
internal and external



Item no.	External taper MT	External taper metric D ¹⁾	Internal taper MT	L	Weight
220101	-	40	3	70	420
220102	-	40	4	70	250
042554	-	50	3	86	940
032031	-	50	4	86	740
058264	-	50	5	86	260
042644	-	60	4	100	1480
220103	-	60	5	100	950
098667	-	70	4	110	2480
077140	-	70	5	110	1850
220104	-	80	4	110	3450
042551	-	80	5	110	2850
042552	-	80	6	110	1560
058313	-	90	5	120	4300
058314	-	90	6	120	2110
031931	2	-	1	60	50
031932	3	-	1	70	160
031933	3	-	2	70	100
031935	4	-	2	70	270
031936	4	-	3	70	170
031938	5	-	2	77	700
031939	5	-	3	77	650
031940	5	-	4	77	460
031942	6	-	3	110	2160
031943	6	-	4	110	1900
031944	6	-	5	110	1350

¹⁾ taper ratio 1:20

Collets

Type 8210-E, DIN 6328

for mounting screw taps with cylindrical shank and DIN square

Tool group 16
Type 8210-E, DIN 6328



External taper DIN 228 MK	0		1			2			3		4	
Bore diameter A Standard-model	2,5	2,8	2,5	2,8	3,15	4,5	5,0	5,5	8,0	9,0	12,0	12,5
	3,15	3,5	3,5	3,55	4,0	5,6	6,0	6,3	9,5	10,0	14,0	16,0
	3,55	4,0	4,5	5,0	5,5	7,0	7,0	8,0	11,0	11,2	18,0	20,0
	4,5		5,6	6,0	6,3	9,0	9,5	10,0	12,0	12,5	22,0	22,4
			7,0	7,1	8,0	11,0	11,2	12,0	14,0	16,0	25,0	

Collets be available in intermediate dimensions, short drill 1-2,9 and intermediate dimensions and short drill 1-2,9.
Please contact us.

Typ 8211-E, DIN 6329

for mounting twist drills and other tools with cylindrical shank and driver

Tool group 16
Type 8211-E, DIN 6329



External taper DIN 228 MK	0	1	2	3	4
Bore diameter A	1,5-5,5	3,0-8,0	5,0-13,0	8,0-18,0	12,0-20,0
Standard-model	rising by 0,1 mm			rising by 0,5 mm	rising by 1,0 mm

Collets be available in intermediate dimensions, short drill 1-2,9 and intermediate dimensions and short drill 1-2,9.
Please contact us.

Tool group A16

Type 250 **Short model**

Form D without counterbore for tools with flat tang

Form E with counterbore for tools with draw-in thread



Item no.	Design	Size Ø A	MT	Thread Tr	Weight
336093 ■	D	16	0	16 x 1,5	100
336076 ●	D	16	1	16 x 1,5	75
331344 ●	D	20	1	20 x 2	155
222802 ■	D	25	1	25 x 2	280
331347 ●	D	28	1	28 x 2	360
222803 ●	D	25	2	25 x 2	210
331165 ●	D	28	2	28 x 2	300
222804 ■	D	32	2	32 x 2	595
336183 ■	D	36	2	36 x 2	755
222805 ■	D	32	3	32 x 2	390
336211 ●	D	36	3	36 x 2	605
336224 ■	D	48	3	48 x 2	1645
336220 ●	D	48	4	48 x 2	1315
222800 ■	D	10	6	10 x 1,5	
222801 ■	D	12	6	12 x 1,5	
222806 ●	E	16	1	16 x 1,5	75
603203 ■	E	20	1	20 x 2	155
222808 ■	E	25	1	25 x 2	280
353515 ■	E	28	1	28 x 2	360
222809 ■	E	25	2	25 x 2	210
339117 ●	E	28	2	28 x 2	300
222812 ■	E	32	2	32 x 2	595
336603 ■	E	36	2	36 x 2	755
222813 ■	E	32	3	32 x 2	390
339038 ■	E	36	3	36 x 2	605
222816 ■	E	48	3	48 x 2	1645
379867 ●	E	48	4	48 x 2	1315

Locknuts must be ordered separately

Tool group A16

Type 252 **Offset model**

Form H offset model, for tools with flat tang



Item no.	Design	Size Ø A	MT	Thread Tr	Weight
222897 ■	H	10	0	10 x 1,5	150
222898 ■	H	12	0	12 x 1,5	155
222899 ■	H	16	1	16 x 1,5	365
336626 ■	H	16	2	16 x 1,5	325
082953 ●	H	20	2	20 x 2	495
222901 ■	H	25	3	25 x 2	600
082954 ●	H	28	3	28 x 2	1040
222902 ■	H	32	4	32 x 2	1100
082955 ■	H	36	4	36 x 2	1255
222896 ■	H	8	metr. 6	8 x 1	

Locknuts must be ordered separately

Tool group A16

Type 251 **Long model****Form F** long model, without counterbore for tools with flat tang**Form G** long model, with counterbore for tools with draw-in thread

Item no.	Design	Size Ø A	MT	L	Thread Tr	D	Weight
082924	F	16	0	50	16 x 1,5	135	160
082925	F	16	0	75	16 x 1,5	160	190
082926	F	16	0	100	16 x 1,5	185	210
336644	F	16	0	25	16 x 1,5	110	130
082930	F	16	1	100	16 x 1,5	185	235
336633	F	16	1	25	16 x 1,5	110	115
336637	F	16	1	50	16 x 1,5	135	155
336641	F	16	1	75	16 x 1,5	160	195
331351	F	20	1	75	20 x 2	163	275
331544	F	20	1	25	20 x 2	113	195
336648	F	20	1	50	20 x 2	138	235
336652	F	20	1	100	20 x 2	188	315
222832	F	25	1	25	25 x 2	120	365
222833	F	25	1	50	25 x 2	145	425
222834	F	25	1	75	25 x 2	170	485
222835	F	25	1	100	25 x 2	195	545
336471	F	28	1	25	28 x 2	120	460
336672	F	28	1	100	28 x 2	195	760
336683	F	28	1	50	28 x 2	145	560
336687	F	28	1	75	28 x 2	170	660
222836	F	25	2	25	25 x 2	120	285
222837	F	25	2	50	25 x 2	145	375
222838	F	25	2	75	25 x 2	170	465
222839	F	25	2	100	25 x 2	195	555
336656	F	28	2	25	28 x 2	120	390
336660	F	28	2	50	28 x 2	145	490
336664	F	28	2	75	28 x 2	170	590
336668	F	28	2	100	28 x 2	195	690
222840	F	32	2	30	32 x 2	148	725
222841	F	32	2	60	32 x 2	178	855
222842	F	32	2	90	32 x 2	208	985
222843	F	32	2	120	32 x 2	238	1115
082939	F	36	2	90	36 x 2	208	1355
082940	F	36	2	120	36 x 2	238	1555
339182	F	36	2	30	36 x 2	148	955
379985	F	36	2	60	36 x 2	178	1155
222844	F	32	3	30	32 x 2	148	540
222845	F	32	3	60	32 x 2	178	740
222846	F	32	3	90	32 x 2	208	940
222847	F	32	3	120	32 x 2	238	1140
082943	F	36	3	90	36 x 2	208	1205
082944	F	36	3	120	36 x 2	238	1405
364941	F	36	3	60	36 x 2	178	1005
364945	F	36	3	30	36 x 2	148	805
082945	F	48	3	40	48 x 2	184	2155
082946	F	48	3	80	48 x 2	224	2660
082947	F	48	3	120	48 x 2	264	3165
082948	F	48	3	160	48 x 2	304	3675
082949	F	48	4	40	48 x 2	184	1815
082950	F	48	4	80	48 x 2	224	2315
082951	F	48	4	120	48 x 2	264	2815
082952	F	48	4	160	48 x 2	304	3315
222824	F	10	6	10	10 x 1,5	72	
222825	F	10	6	20	10 x 1,5	82	
222826	F	10	6	30	10 x 1,5	92	
222827	F	12	6	10	12 x 1,5	72	
222828	F	12	6	20	12 x 1,5	82	
222829	F	12	6	30	12 x 1,5	92	
222830	F	12	6	40	12 x 1,5	102	
222848	G	16	1	25	16 x 1,5	110	115
222849	G	16	1	50	16 x 1,5	135	155
222850	G	16	1	75	16 x 1,5	160	195
222851	G	16	1	100	16 x 1,5	185	235
222852	G	20	1	25	20 x 2	113	195
222853	G	20	1	50	20 x 2	138	235
222854	G	20	1	75	20 x 2	163	275
222855	G	20	1	100	20 x 2	188	315
222856	G	25	1	25	25 x 2	120	365

Locknuts must be ordered separately

Tool group A16

Type 251 **Long model**

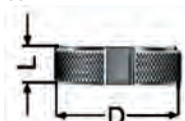
Form F long model, without counterbore for tools with flat tang
Form G long model, with counterbore for tools with draw-in thread



Item no.	Design	Size Ø A	MT	L	Thread Tr	D	Weight
222857	G	25	1	50	25 x 2	145	425
222858	G	25	1	75	25 x 2	170	485
222859	G	25	1	100	25 x 2	195	545
222864	G	28	1	25	28 x 2	120	460
222865	G	28	1	50	28 x 2	145	560
222866	G	28	1	75	28 x 2	170	660
222867	G	28	1	100	28 x 2	195	760
222860	G	25	2	25	25 x 2	120	285
222861	G	25	2	50	25 x 2	145	375
222862	G	25	2	75	25 x 2	170	465
222863	G	25	2	100	25 x 2	195	555
222868	G	28	2	25	28 x 2	120	390
222869	G	28	2	50	28 x 2	145	490
222870	G	28	2	75	28 x 2	170	590
222871	G	28	2	100	28 x 2	195	690
222872	G	32	2	30	32 x 2	148	725
222873	G	32	2	60	32 x 2	178	855
222874	G	32	2	90	32 x 2	208	985
222875	G	32	2	120	32 x 2	238	1115
222880	G	36	2	30	36 x 2	148	955
222881	G	36	2	60	36 x 2	178	1155
222882	G	36	2	90	36 x 2	208	1355
222883	G	36	2	120	36 x 2	238	1555
222876	G	32	3	30	32 x 2	148	540
222877	G	32	3	60	32 x 2	178	740
222878	G	32	3	90	32 x 2	208	940
222879	G	32	3	120	32 x 2	238	1140
222884	G	36	3	30	36 x 2	148	805
222885	G	36	3	60	36 x 2	178	1005
222886	G	36	3	90	36 x 2	208	1205
222887	G	36	3	120	36 x 2	238	1405
222888	G	48	3	40	48 x 2	184	2155
222889	G	48	3	80	48 x 2	224	2660
222890	G	48	3	120	48 x 2	264	3165
222891	G	48	3	160	48 x 2	304	3675
222892	G	48	4	40	48 x 2	184	1815
222893	G	48	4	80	48 x 2	224	2315
222894	G	48	4	120	48 x 2	264	2815
222895	G	48	4	160	48 x 2	304	3315

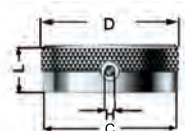
Locknuts must be ordered separately

Tool group A16

Type 0483-Y **Grooved nuts** to DIN 6327


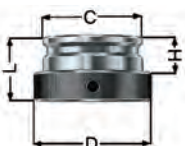
Item no.	Size	Ø D	L	Weight
200115	TR 10 x 1,5	17,8-0,2	6	10
200116	TR 12 x 1,5	19,7-0,2	6	10
200114	TR 8 x 1	14,8-0,2	5	10

Tool group A16

Type 250 **Locknuts** to DIN 6327


Item no.	Size	Ø D	Ø C	H	L	Threaded pin AM DIN 9131	Weight
069913	TR 16 x 1,5	24,6-0,4	24	M 5	12	5 x 3	25
072723	TR 20 x 2	31,6-0,4	31	M 5	12	5 x 4	40
222821	TR 25 x 2	36,6-0,4	36	M 6	12	6 x 4	45
069914	TR 28 x 2	39,6-0,4	39	M 6	12	6 x 4	50
222822	TR 32 x 2	44,6-0,4	44	M 6	14	6 x 4	75
074575	TR 36 x 2	49,6-0,4	49	M 6	14	6 x 4	90
021385	TR 48 x 2	66,6-0,4	66	M 8	18	8 x 8	220
082673	TR 55 x 2	74,6-0,4	74	M 8	18	8 x 8	

Tool group A16

Type 375-91 **Quick-change locating nuts** with guide on both sides - highest accuracy


Item no.	Size	Ø D	Ø C	H	L	Weight
368694	TR 12 x 1,5	21,5	16,4	9	18	20
601490	TR 16 x 1,5	26	19,9	9,5	18,5	30
601493	TR 20 x 2	33	25,4	11	20	50
601496	TR 25 x 2	40	31,9	12	22	80
601499	TR 28 x 2	42	33,9	12	22	80
341200	TR 32 x 2	47	37,9	13,4	23,5	100
608205	TR 36 x 2	54	43,4	16	26	140
341202	TR 48 x 2	72	57,9	19,9	34	350
341203	TR 55 x 2	79	66,9	25	41	