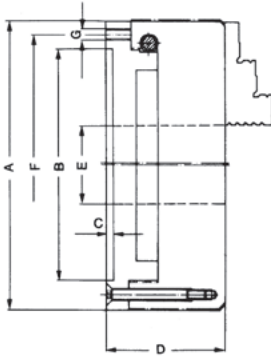


ZS Hi-Tru - with fine adjustment

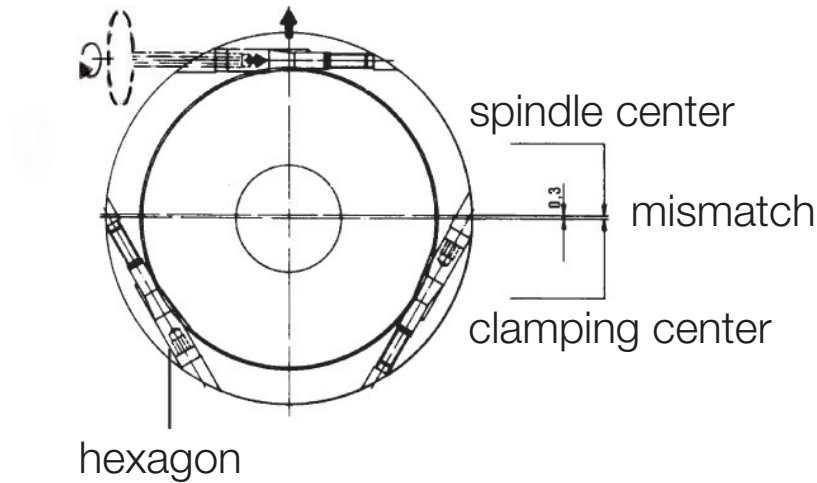
ZS Hi-Tru - with fine adjustment

Dimensions ZS Hi-Tru, DIN 6350, cylindrical centre mount, Form A



Size A	Inch	B+0,02	C	D	F	G	SW	Weight
ZS Hi-Tru, with 1 set each outward or inward stepped jaws								
80	3 1/4	56	3	50,5	67	3xM6	4	1,7
100	4	70	3	63	83	3xM8	5	3,6
125	5	95	4	72	108	3xM8	5	5,6
160	6 1/4	125	4	81	140	3xM10	6	10
200	8	160	4	89,5	176	3xM10	6	17,2
250	10	200	5	102	224	3xM12	8	34,5
315	12 1/2	260	5	122	286	3xM16	8	57,5
ZS Hi-Tru, with special seal for grinding machines								
80	3 1/4	56	3	50,5	67	3xM6	4	1,7
100	4	70	3	63	83	3xM8	5	3,6
125	5	95	4	72	108	3xM8	5	5,6
160	6 1/4	125	4	81	140	3xM10	6	10
200	8	160	4	89,5	176	3xM10	6	17,2
250	10	200	5	102	224	3xM12	8	34,5
315	12 1/2	260	5	122	286	3xM16	8	57,5

Fine adjustment



Video functioning ZS Hi-Tru

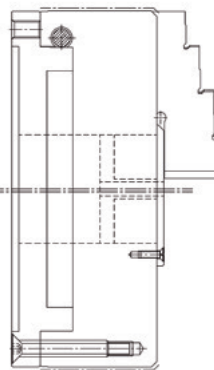
A09
ZS Hi-Tru, with one set outward stepped jaws and one set inward stepped jaws, DIN 6350, cylindrical centre mount, form A



Item no.	Size	ZA	Through-hole mm	Speed max. min ⁻¹	Torque Nm	Total clamping force kN
180259	80	56	19	7000	30	13
180261	100	70	20	6300	60	27
180263	125	95	32	5500	80	31
180265	160	125	42	4600	110	47
180267	200	160	55	4000	140	55
180269	250	200	76	3000	150	63
180271	315	260	103	2300	180	69

On request from size 125 with 6-jaws or with short-taper mount to ISO 702-3 (DIN 55027) or ISO 702-2 (DIN 55029) Camlock
Further sizes and mountings available on request

A09
ZS Hi-Tru, with special seal for grinding machines, DIN 6350, cylindrical centre mount, form A



Item no.	Size	ZA	Through-hole mm	Speed max. min ⁻¹	Torque Nm	Total clamping force kN
180273	80	56		5000	30	13
180275	100	70		4500	60	27
180277	125	95	7	4000	80	31
180279	160	125	7	3600	110	47
180281	200	160	8	3000	140	55
180283	250	200	10	2500	150	63
180285	315	260	16	2000	180	69

On request from size 125 with 6-jaws or with short-taper mount to ISO 702-3 (DIN 55027) or ISO 702-2 (DIN 55029) Camlock

Jaws ZS Hi-Tru

A09
Inside jaw BB, DIN 6350, outward stepped jaw, hardened



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
110155	80	3	set	37	26	12
110156	100	3	set	48	33,5	14
110157	125	3	set	52	41,5	18
110159	160	3	set	61	47,5	18
110160	200	3	set	69	53,5	20
110161	250	3	set	90	67,5	24
110162	315	3	set	130	79,5	34

Additionally or later applied, hardened stepped jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.

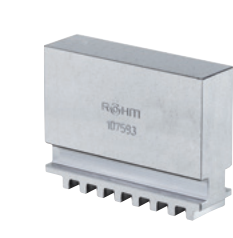
A09
Outside jaw DB, DIN 6350, inward stepped jaw, hardened



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
110165	80	3	set	37	26	12
110166	100	3	set	48	33,5	14
110167	125	3	set	52	41,5	18
110169	160	3	set	61	47,5	18
110170	200	3	set	69	53,5	20
110171	250	3	set	90	67,5	24
110016	315	3	set	130	79,5	34

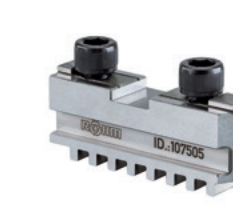
Additionally or later applied, hardened stepped jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.

A09
Unstepped jaw BL, DIN 6350, unstepped, soft, material 16MnCr5



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
107588	80	3	set	37	26	12
107589	100	3	set	48	33,5	14
107590	125	3	set	52	41,5	18
107592	160	3	set	61	47,5	18
107593	200	3	set	69	53,5	20
107594	250	3	set	90	67,5	24
107595	315	3	set	130	79,5	34

A09
Base jaw GB, DIN 6350, with fixing screw



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw width mm
107500	100	3	set	46	14
107501	125	3	set	55	18
107503	160	3	set	65	18
107504	200	3	set	78	20
107505	250	3	set	92	24
107506	315	3	set	108	34

A09
Reversible top jaws UB, DIN 6350, hardened tongue and groove for external and internal clamping, material 16 MnCr5



Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
108045	100	3	set	47	29,5	22
108046	125	3	set	56	37,5	26
107936	160	3	set	66,7	41,5	28
107937	200	3	set	79,5	42,5	30
108049	250	3	set	95,3	52,5	36
108050	315	3	set	109,5	57,5	42

Additionally or later applied, hardened stepped jaws must be ground out in the chuck.
For jaws which are applied later, send in the chuck.

Jaws ZS Hi-Tru

A09
Unstepped top jaw AB DIN 6350, soft, material 16MnCr5

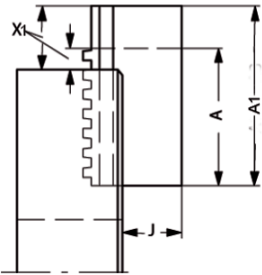


Item no.	Chuck Size	Number of jaws	Contents of delivery	Jaw length mm	Jaw height mm	Jaw width mm
107633	100	3	set	53	30	22,5
107634	125	3	set	62	38	26,5
108581	160	3	set	74	42	28,5
108582	200	3	set	87	43	30,5
107637	250	3	set	103	53	36,5
107638	315	3	set	120	58	42,5

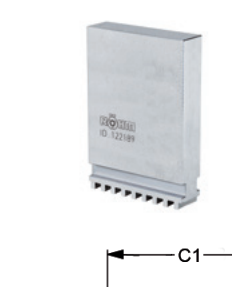
A09
Unstepped jaw BL, special length, soft, material 16MnCr5, DIN 6350



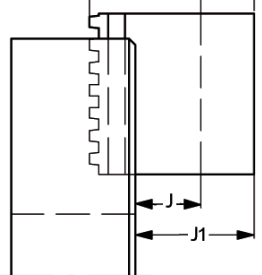
Item no.	Chuck Size	A1 mm	X1 max.	A	J	X max.
130031	200	100	50	69	32,5	19
132658	250	120	56	90	41	26
132184	315	160	70	130	46	40
130033	200	120	70	69	32,5	19
128880	250	140	76	90	41	26
118908	315	200	110	130	46	40
121367	315	250	160	130	46	40



A09
Unstepped jaw BL, special height, soft, material 16MnCr5, DIN 6350

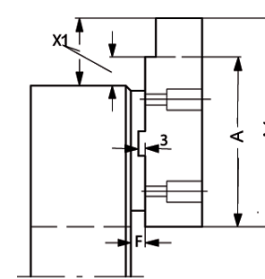


Item no.	Chuck Size	C1	J1	C	J
125710	200	80	58,5	54	32,5
122188	250	100	73	68	41
132186	315	110	76	80	46
125712	200	120	98,5	54	32,5
122189	250	130	103	68	41
137096	315	140	106	80	46
125714	200	150	128,5	54	32,5
137102	250	150	123	68	41
137104	315	160	126	80	46



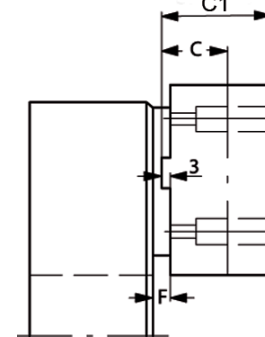
Jaws ZS Hi-Tru

A09
Top jaw AB, special length, soft, material 16MnCr5, DIN 6350



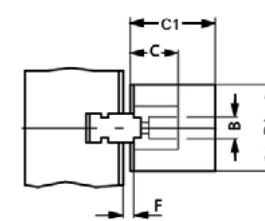
Item no.	Chuck Size	A1 mm	X1 max.	F	A	X max.
110086	200	100	43	6,8	87	30
112122	250	130	63	8	103	36
110624	315	160	76	5,5	120	36
112120	200	120	63	6,8	87	30
125428	250	150	83	8	103	36
112091	315	200	116	5,5	120	36
104710	250	180	113	8	103	36
112089	315	250	166	5,5	120	36

A09
Top jaw AB, special height, soft, material 16MnCr5, DIN 6350



Item no.	Chuck Size	C1	C	F
132155	200	60	43	6,8
119645	250	70	53	8
110435	315	80	58	5,5
128564	200	80	43	6,8
128571	250	100	53	8
110437	315	110	58	5,5
128573	250	150	53	8
128569	315	150	58	5,5

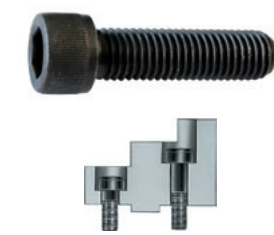
A09
Top jaw AB, special width and height, soft, material 16MnCr5, DIN 6350



Item no.	Chuck Size	B1	C1	B	C
105057	200	40	70	30.5	43
137090	250	50	80	36.5	53
143053	315	60	90	42	58
133259	200	50	80	30.5	43
133653	250	60	90	36.5	53
143057	315	80	110	42	58

Jaws ZS Hi-Tru

C15
Mounting bolt for top jaws, bolt 1



Item no.	Size	Thread	Contents of delivery
249299	100	M6x20	piece
236949	125	M8x25	piece
334571	160/200	M8x30	piece
233025	250	M12x40	piece
233026	315	M12x45	piece

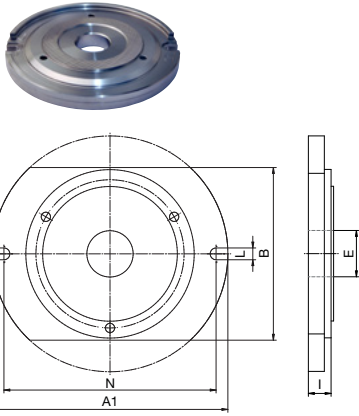
C15
Mounting bolt for top jaws, bolt 2



Item no.	Size	Thread	Contents of delivery
216528	100	M6x16	piece
233058	125/160/200	M8x20	piece
227692	250	M12x25	piece
233030	315	M12x30	piece

Accessories ZS Hi-Tru

A09 Base plates for lathe chucks with cylindrical centre mount, DIN 6350



Item no.	Size	A1 mm	B mm	L mm	N mm	E mm	I mm
162793	160	240	-	14	212	42	27
162401	200	280	-	14	252	55	27
163036	250	330	-	18	303	76	27
133705	315	386	320	18	354	103	27
133706	400	470	405	18	438	136	27

C15 Special grease F80 for lathe chucks
For lubrication and conservation of chucking power



Item no.	Design	Contents
308555	Cartridge (DIN 1284) Ø 53.5x235mm	0,5 kg
028975	Tin	1 kg

A09 Driving pinion



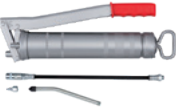
Item no.	Size	Hexagon
178473	100	9
178474	110	9
178475	125	10
178476	140	10
178477	160	11
178478	200	12
178480	250	14
178482	315	17

A09 Standard key



Item no.	Size	Square	Length mm
107426	80/85	6	62
107427	100/110	8	75
107428	125/140	9	80
107429	160	10	90
107430	200/230	11	100
107431	250/270	12	100
107432	315	14	110

C15 Grease gun DIN1283



Item no.	Connec- tion	Contents of delivery
329093	M10x1	150 mm nozzle tube bent, needlepoint mouthpiece, top mouthpiece, 300 mm high pressure hose with 4 jaw hydraulics cross mouthpiece

A09 Chip guard, piece



Item no.	Size	Contents of delivery
108500	80/85	piece
108501	100/110	piece
108502	125	piece
108503	140/160	piece
108504	200	piece
108505	250	piece
108506	315/350/400	piece

C15 Scroll



Item no.	Size
102183	80/85
101754	100
101721	125
100303	160
100003	200
100203	250
101552	315

A09 Pinion holder screw



Item no.	Size
102185	85
100305	100/125/160
100006	200/250
101554	315

A09 Safety key with ejector



Item no.	Size	Square	Length mm
154370	80/85	6	110
154371	100/110	8	130
154372	125/140	9	130
154373	160	10	160
154374	200/230	11	160
154375	250/270	12	160
154376	315	14	200

Accessories ZS Hi-Tru

A09 Elongated safety key with ejector



Item no.	Size	Square	Length mm
154683	125/140	9	170
154685	160	10	180
154687	200/230	11	200
154689	250/270	12	200
154695	315	14	250

A26 Torque wrench



Item no.	Torque Nm	Length mm	Output	Working accuracy
10004116	20-120	435	12,7=1/2"	3%
10004117	60-320	659	12,7=1/2"	3%

A09 Safety adapter with ejector
For actuating the chuck with torque (defined torque introduction)



Item no.	Size	Square	Inch
178566	80/85	6	3/8
178567	100/110	8	1/2
178568	125/140	9	1/2
178569	160	10	1/2
178570	200/230	11	1/2
178571	250/270	12	1/2
178572	315/350	14	1/2

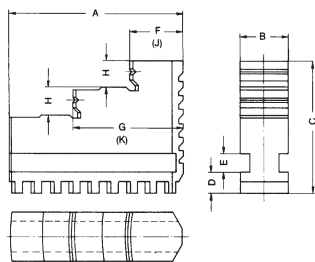
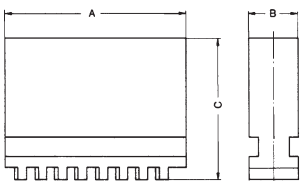
A26 Mounting screws
For cylindrical centre rim



Item no.	Size	Thread	Contents of delivery
249299	74-85	M6x20	piece
334571	100-140	M8x30	piece
249301	160-230	M10x35	piece
233025	250-270	M12x40	piece
220565	315-350	M16x50	piece

Jaw dimensions DURO-M, ZS Hi-Tru

Outward stepped jaw (inside jaw) **BB**

Unstepped jaw, soft (block jaw) **BL**

Dimensions F and G apply to outward stepped jaws **BB**

Dimensions J and K apply to inward stepped jaws **DB**

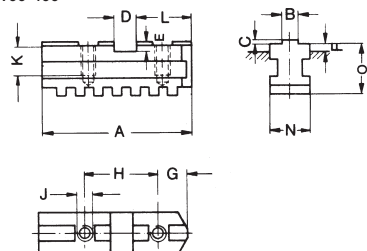
Size		74 ¹⁾	80/85	100/110	125	140	160	200	250	315	350/400	500/630
A		32	37	48	52	61	61	69	90	130	130	190
B		10	12	14	18	18	18	20	24	34	34	42
C		23	26	33,5	41,5	41,5	47,5	53,5	67,5	79,5	79,5	95
D		4,7	4,8	6,3	7,3	8,3	8,3	8,3	10,3	11,3	11,3	14,9
E		4	4,5	6	7	7	7	8	10	15	15	15
F		10	12	15	17	18	18	20	27	41,5	41,5	50
G		21	24,5	31	35	40	40	44	57	86,5	86,5	120
H		5	6	6	8	8	10	10	14	15	15	20
J		-	12	14	16	17	17	19	26	40	40	50
K		-	24,5	30	34	39	39	43	56	85	85	120
Jaw approx. kg	BB	0,03	0,05	0,1	0,2	0,22	0,25	0,3	0,7	1,8	1,8	3,8
	BL	0,05	0,08	0,15	0,27	0,32	0,38	0,52	1	2,4	2,4	5,2

1) Reversible jaws

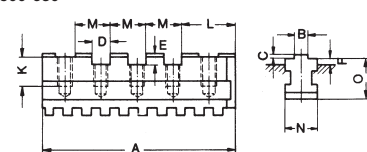
Size	100/110	125	140	160	200	250	315	350/400	500	630
A	46	55	65	65	78	92	108	127	165	203
B-0,05	7,94	7,94	7,94	7,94	7,94	12,7	12,7	12,7	12,7	12,7
C	2,5	3,1	3,1	3,1	3,1	3,1	3,1	3,1	3,1	3,1
D+0,01	9,5	12,68	12,68	12,68	12,68	19,03	19,03	19,03	19,03	19,03
E	6	7,6	7,6	7,6	7,6	7,6	7,6	10,8	10,8	10,8
F	3,4	4,8	7,8	4,8	6,8	8	5,5	10,5 ²⁾	8,5	8,5
G	12	13	15,8	15,8	19	22,2	25,4	28,5	28,5	28,5
H	24	32	38,1	38,1	44,45	54	63,5	76,2	38,1	38,1
J	metr. UNC	M6 1/4"-20	M8 5/16"-18	M8 3/8"-16	M8 3/8"-16	M12 1/2"-13	M12 1/2"-13	M16 5/8"-11	M20 3/4"-10	M20 3/4"-10
K	12	14,5	16	16	16	20	25	29	33	33
L	19,25	22,6	28,5	28,5	34,9	39,7	47,6	57,1	57,1	57,1
M	-	-	-	-	-	-	-	-	38,1	38,1
N	14	18	18	18	20	24	34	34	42	42
O	19,5	24	27	27	28	35	40	45	49	49
Grooves	1	1	1	1	1	1	1	1	2	3
Tapped holes	2	2	2	2	2	2	2	2	4	5
Jaw approx. kg	0,06	0,12	0,17	0,17	0,22	0,4	0,78	1	1,72	2,1

Base jaw GB

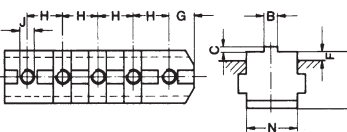
Ø 100-400



Ø 500-630



Ø 700-1250



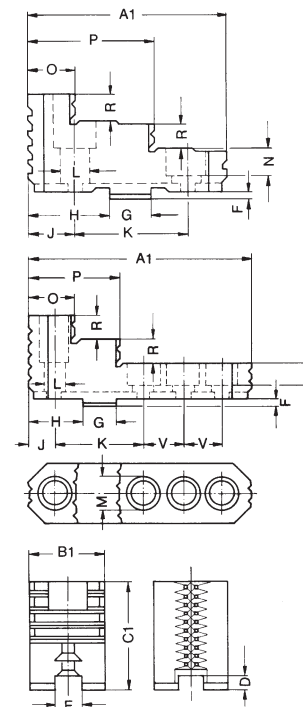
Size		700	800	1000	1250
A		253	291	329	367
B-0,05		12,7	12,7	12,7	12,7
C		3,1	3,1	3,1	3,1
D+0,01		19,03	19,03	19,03	19,03
E		10,8	10,8	10,8	10,8
F		11	11	9	9
G		28,5	28,5	28,5	28,5
H		38,1	38,1	38,1	38,1
J	metr. UNC	M20 3/4"-10	M20 3/4"-10	M20 3/4"-10	M20 3/4"-10
K		37	37	37	37
L		57,1	57,1	57,1	57,1
M		38,1	38,1	38,1	38,1
N		55	55	55	55
O		62	62	62	62
Grooves		4	5	6	7
Tapped holes		6	7	8	9
Jaw approx. kg		6,2	7,1	8	9

1) Reversible jaws

2) Size

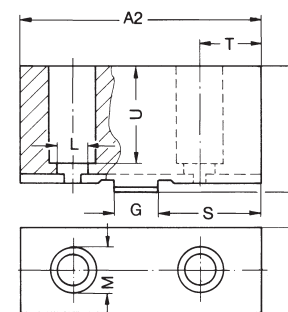
Jaw dimensions DURO-M, ZS Hi-Tru

Reversible top jaw UB



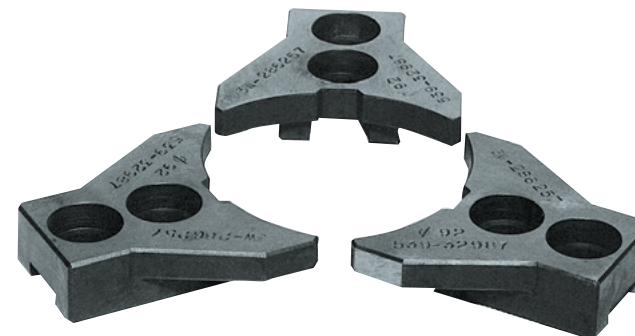
Saw-tooth standard
model

Cross-grooving
from size 250 available
from size 700 standard-model

Unstepped top jaw soft **AB**

Special-design jaws

For non-rotating clamping devices, for symmetrical components for machine vices and NC-compact vices available in all desired modifications.



Chuck Size		100 110	125	140 160	200 230	250 270	315	350 400	500 630	700 800	1000 1250
A	1	47	56	66,7	79,5	95,3	109,5	127	127	210	210
	2	53	62	74	87	103	120	137	140	210	210
B	1	22	26	28	30	36	42	42	50	68	68
	2	22,5	26,5	28,5	30,5	36,5	42,5	42,5	50,5	68	68
C	1	29,5	37,5	41,5	42,5	52,5	57,5	64,5	79,5	89	110
	2	30	38	42	43	53	58	65	80	89	110
D		5,5	7,6	7,6	7,6	7,6	7,6	10,8	10,8	10,8	10,8
E		7,96	7,96	7,96	7,96	12,72	12,72	12,72	12,72	12,72	12,72
F		2,5	3,1	3,1	3,1	3,1	3,1	6,35	6,35	6,35	6,35
G		9,50	12,68	12,68	12,68	19,03	19,03	19,03	19,03	19,03	19,03
H		19,25	22,6	28,5	34,9	39,7	47,6	57,1	57,1	57,1	57,1
J		12	13	15,8	19	22,2	25,4	28,5	28,5	28,5	28,5
K		24	32	38,1	44,45	53,95	63,5	76,2	76,2	76,2	76,2
L		6,6	9	9 ¹⁾ 10,5 ²⁾	9 ¹⁾ 10,5 ²⁾	14	14	18	22	22	22
M		11	15	15 ¹⁾ 16 ²⁾	15 ¹⁾ 16 ²⁾	20	20	26	33	33	33
N		7	9	10	10	13,5	13,5	17	21	21,5	21,5
O		12	13	15,8	19	22,2	25,4	28,5	54,6	51	51
P		29,5	35	42,8	51,5	60,2	67,4	77	88,5	89	89
R		6	8	10	10	14	15	15	20	22	25
S		22,25	25,6	32,2	38,7	43,5	52,9	62,1	63,6	70	70
T		15	16	19,5	22,8	26	30,7	33,55	35	41,5	41,5
U		19	27	30	30	41	43	47	61	65	71
V		-	-	-	-	-	-	-	-	38,1	38,1
Jaw approx. kg	UB	0,12	0,19	0,27	0,39	0,66	1,02	1,27	2	4,45	6,1
	AB	0,21	0,34	0,5	0,7	1,2	1,86	2,18	3,04	8	10,8