

ZG-ZS



The spiral ring chuck - a proven and universal suitable clamping system - finds its application wherever a high Clamping force, high runout accuracy and very high repeatability are required. For use on lathes, rotary tables, dividing heads, etc.

The jaws can be moved across the entire clamping range by turning a key. Due to this, workpieces with different diameters can be clamped without changing or shifting the jaws. Special flat design with direct mounting.

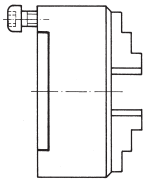
Technical features:

- with one-piece jaws
- with scroll
- self-centering
- lathe chucks must be lubricated regularly to maintain their gripping force

Delivery includes:

- 1 set of outward stepped jaws (BB) mounted in the chuck
- 1 set of inward stepped jaws (DB),
- 1 operating key, mounting bolts

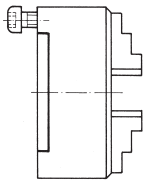
Tool group A09
Type 300 **3-jaw-chuck**
cast iron body DIN 6350;
cylindrical centre mount, Shape A



Item no.	Size	ZA	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
102528 ¹⁾	74	56	15	5000	30	11
102509	80	56	19	5000	30	13
112537 ²⁾	85	60	19	5000	30	13
101781	100	70	20	4500	60	27
112538 ²⁾	110	80	27	4300	60	27
101628	125	95	32	4000	80	31
105783 ²⁾	140	105	40	3700	90	40
100300	160	125	42	3600	110	47
100000	200	160	55	3000	140	55
100200	250	200	76	2500	150	63
101248	315	260	103	2000	180	69
104132 ²⁾	350	290	115	1700	210	74
102061	400	330	136	1600	240	92
106753	500	420	190	1000	260	100
102719	630	545	240	800	280	105

¹⁾ with one set reversible jaws
²⁾ intermediate size

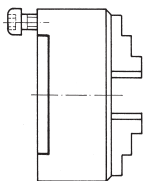
Tool group A09
Type 600 **3-jaw-chuck**
steel body DIN 6350;
cylindrical centre mount, Shape A



Item no.	Size	ZA	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
102513	80	56	19	7000	30	13
101782	100	70	20	6300	60	27
101672	125	95	32	5500	80	31
105784 ¹⁾	140	105	40	5000	90	40
100717	160	125	42	4600	110	47
100186	200	160	55	4000	140	55
100533	250	200	76	3000	150	63
101344	315	260	103	2300	180	69
104800 ¹⁾	350	290	115	1900	210	74
102062	400	330	136	1800	240	92
102555	500	420	190	1300	260	100
102720	630	545	240	850	280	105

¹⁾ intermediate size

Tool group A09
Type 400 **4-jaw-chuck**
cast iron body DIN 6350;
cylindrical centre mount, Shape A

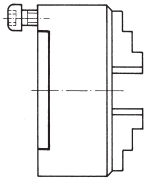


Item no.	Size	ZA	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
102501	80	56	19	5000	30	13
112591 ¹⁾	85	60	19	5000	30	13
102129	100	70	20	4500	60	27
112592 ¹⁾	110	80	27	4300	60	27
106074	125	95	32	4000	80	31
105799 ¹⁾	140	105	40	3700	90	40
100325	160	125	42	3600	110	47
100465	200	160	55	3000	140	55
100834	250	200	76	2500	150	63
101567	315	260	103	2000	180	69
104868 ¹⁾	350	290	115	1700	210	74
102329	400	330	136	1600	240	92
102954	500	420	190	1000	260	100
102855	630	545	240	800	280	105

¹⁾ intermediate size

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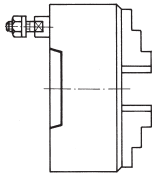
Tool group A09
Type 800 **4-jaw-chuck**
steel body DIN 6350;
cylindrical centre mount, Shape A



Item no.	Size	ZA	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
102505	80	56	19	7000	30	13
102130	100	70	20	6300	60	27
106075	125	95	32	5500	80	31
105800 ¹⁾	140	105	40	5000	90	40
101164	160	125	42	4600	110	47
100466	200	160	55	4000	140	55
101030	250	200	76	3000	150	63
101598	315	260	103	2300	180	69
104936 ¹⁾	350	290	115	1900	210	74
102330	400	330	136	1800	240	92
103340	500	420	190	1300	260	100
102856	630	545	240	850	280	105

¹⁾ intermediate size

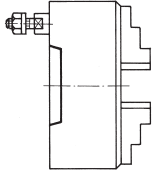
Tool group A09
Type 315 **3-jaw-chuck**
cast iron body DIN 55027,
ISO 702/III; with studs and
locknuts, optional DIN 55021
with set screw and nut



Item no.	Size	Mount short taper	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
102105	100	3	20	4500	60	27
101644	125	3	32	4000	80	31
101648	125	4	32	4000	80	31
105236	140	3	40	3700	90	40
105237	140	4	40	3700	90	40
105238	140	5	40	3700	90	40
105012	160	3	42	3600	110	47
100358	160	4	42	3600	110	47
100362	160	5	42	3600	110	47
100053	200	3	51,2	3000	140	55
100057	200	4	55	3000	140	55
100045	200	5	55	3000	140	55
100047	200	6	55	3000	140	55
123120	250	4	60,7	2500	150	63
100241	250	5	76	2500	150	63
100239	250	6	76	2500	150	63
100240	250	8	76	2500	150	63
111195	315	5	79,6	2000	180	69
101268	315	6	103	2000	180	69
101269	315	8	103	2000	180	69
101270	315	11	103	2000	180	69
104156	350	6	103	1700	210	74
104148	350	8	115	1700	210	74
104152	350	11	115	1700	210	74
102217	400	6	103	1600	240	92
102201	400	8	136	1600	240	92
102209	400	11	136	1600	240	92
109734	500	8	136	1000	260	100
102547	500	11	190	1000	260	100
102914	500	15	190	1000	260	100
102751	630	11	192,7	800	280	105
102759	630	15	240	800	280	105

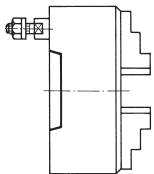
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Tool group A09
Type 615 **3-jaw-chuck**
steel body DIN 55027,
ISO 702/III; with studs and
locknuts, optional DIN 55021
with set screw and nut



Item no.	Size	Mount short taper	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
102106	100	3	20	6300	60	27
101688	125	3	32	5500	80	31
101692	125	4	32	5500	80	31
105556	140	3	40	5000	90	40
105557	140	4	40	5000	90	40
105558	140	5	40	5000	90	40
105032	160	3	42	4600	110	47
100740	160	4	42	4600	110	47
100744	160	5	42	4600	110	47
100160	200	3	51,2	4000	140	55
100164	200	4	55	4000	140	55
100152	200	5	55	4000	140	55
100156	200	6	55	4000	140	55
123124	250	4	60,7	3000	150	63
100557	250	5	76	3000	150	63
100555	250	6	76	3000	150	63
100556	250	8	76	3000	150	63
111193	315	5	79,6	2300	180	69
101364	315	6	103	2300	180	69
101365	315	8	103	2300	180	69
101366	315	11	103	2300	180	69
104824	350	6	103	1900	210	74
104816	350	8	115	1900	210	74
104820	350	11	115	1900	210	74
102218	400	6	103	1800	240	92
102202	400	8	136	1800	240	92
102210	400	11	136	1800	240	92
104413	500	8	136	1300	260	100
102548	500	11	190	1300	260	100
102915	500	15	190	1300	260	100
102752	630	11	192,7	850	280	105
102760	630	15	240	850	280	105

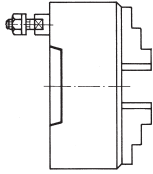
Tool group A09
Type 415 **4-jaw-chuck**
cast iron body DIN 55027,
ISO 702/III; with studs and
locknuts, optional DIN 55021
with set screw and nut



Item no.	Size	Mount short taper	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
102153	100	3	20	4500	60	27
107006	125	3	32	4000	80	31
107014	125	4	32	4000	80	31
105249	140	3	40	3700	90	40
105250	140	4	40	3700	90	40
105251	140	5	40	3700	90	40
105052	160	3	42	3600	110	47
101109	160	4	42	3600	110	47
101113	160	5	42	3600	110	47
101429	200	3	51,2	3000	140	55
101437	200	4	55	3000	140	55
100471	200	5	55	3000	140	55
101421	200	6	55	3000	140	55
123122	250	4	60,7	2500	150	63
100856	250	5	76	2500	150	63
100854	250	6	76	2500	150	63
100855	250	8	76	2500	150	63
118915	315	5	79,6	2000	180	69
101585	315	6	103	2000	180	69
101586	315	8	103	2000	180	69
101587	315	11	103	2000	180	69
104892	350	6	103	1700	210	74
104884	350	8	115	1700	210	74
104888	350	11	115	1700	210	74
101891	400	6	103	1600	240	92
101875	400	8	136	1600	240	92
101883	400	11	136	1600	240	92
105630	500	8	136	1000	260	100
102970	500	11	190	1000	260	100
103226	500	15	190	1000	260	100
102887	630	11	192,7	800	280	105
103083	630	15	240	800	280	105

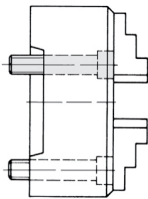
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Tool group A09
Type 815 **4-jaw-chuck**
steel body DIN 55027, ISO 702/III;
with studs and locknuts, optional
DIN 55021 with set screw and nut



Item no.	Size	Mount short taper	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
102154	100	3	20	6300	60	27
107007	125	3	32	5500	80	31
107015	125	4	32	5500	80	31
105569	140	3	40	5000	90	40
105570	140	4	40	5000	90	40
105571	140	5	40	5000	90	40
105072	160	3	42	4600	110	47
101184	160	4	42	4600	110	47
101188	160	5	42	4600	110	47
101430	200	3	51,2	4000	140	55
101438	200	4	55	4000	140	55
100472	200	5	55	4000	140	55
101422	200	6	55	4000	140	55
123125	250	4	60,7	3000	150	63
101052	250	5	76	3000	150	63
101050	250	6	76	3000	150	63
101051	250	8	76	3000	150	63
127863	315	5	79,6	2300	180	69
101919	315	6	103	2300	180	69
101923	315	8	103	2300	180	69
101927	315	11	103	2300	180	69
104960	350	6	103	1900	210	74
104952	350	8	115	1900	210	74
104956	350	11	115	1900	210	74
101892	400	6	103	1800	240	92
101876	400	8	136	1800	240	92
101884	400	11	136	1800	240	92
105656	500	8	136	1300	260	100
102971	500	11	190	1300	260	100
103227	500	15	190	1300	260	100
102888	630	11	192,7	850	280	105
103084	630	15	240	850	280	105

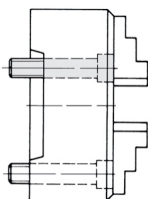
Tool group A09
Type 320 **3-jaw-chuck**
cast iron body DIN 55026;
DIN 55021, ASA B 5.9, A1/A2
metr.; mounting from front



Item no.	Size	Mount short taper	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
100371 ¹⁾	160	5	42	3600	110	47
100061 ¹⁾	200	5	42	3000	140	55
100067 ¹⁾	200	6	55	3000	140	55
100257	250	5	76	2500	150	63
100251 ¹⁾	250	6	55	2500	150	63
100254 ¹⁾	250	8	76	2500	150	63
101280	315	6	103	2000	180	69
101281 ¹⁾	315	8	76	2000	180	69
114642	350	6	103	1700	210	74
116659 ¹⁾	350	8	76	1700	210	74
102225	400	8	136	1600	240	92
102233 ¹⁾	400	11	125	1600	240	92
102561	500	11	190	1000	260	100
102767	630	11	190	800	280	105
102783 ¹⁾	630	15	190	800	280	105

¹⁾ mounting from front in the inner bolt circle

Tool group A09
Type 620 **3-jaw-chuck steel body**
DIN 55026; DIN 55021, ASA B 5.9,
A1/A2 metr.; mounting from front

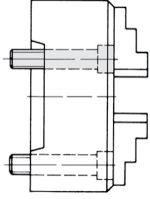


Item no.	Size	Mount short taper	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
100753 ¹⁾	160	5	42	4600	110	47
100168 ¹⁾	200	5	42	4000	140	55
100173 ¹⁾	200	6	55	4000	140	55
100571	250	5	76	3000	150	63
100567 ¹⁾	250	6	55	3000	150	63
100569 ¹⁾	250	8	76	3000	150	63
101376	315	6	103	2300	180	69
101377 ¹⁾	315	8	76	2300	180	69
114643	350	6	103	1900	210	74
117319 ¹⁾	350	8	76	1900	210	74
102226	400	8	136	1800	240	92
102234 ¹⁾	400	11	125	1800	240	92
102562	500	11	190	1300	260	100
102768	630	11	190	850	280	105
102784 ¹⁾	630	15	190	850	280	105

¹⁾ mounting from front in the inner bolt circle

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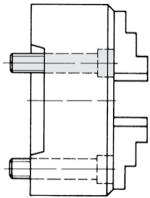
Tool group A09
Type 420 **4-jaw-chuck**
cast iron body DIN 55026;
DIN 55021, ASA B 5.9,
A1/A2 metr.; mounting from front



Item no.	Size	Mount short taper	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
101121 ¹⁾	160	5	42	3600	110	47
101445 ¹⁾	200	5	42	3000	140	55
101453 ¹⁾	200	6	55	3000	140	55
100868	250	5	76	2500	150	63
100866 ¹⁾	250	6	55	2500	150	63
100867 ¹⁾	250	8	76	2500	150	63
101597	315	6	103	2000	180	69
101938 ¹⁾	315	8	76	2000	180	69
114644	350	6	103	1700	210	74
117057 ¹⁾	350	8	76	1700	210	74
103322	400	8	136	1600	240	92
102360 ¹⁾	400	11	125	1600	240	92
102978	500	11	190	1000	260	100
102895	630	11	190	800	280	105
103011 ¹⁾	630	15	190	800	280	105

¹⁾ mounting from front in the inner bolt circle

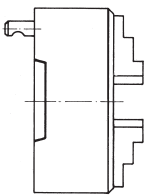
Tool group A09
Type 820 **4-jaw-chuck**
steel body DIN 55026;
DIN 55021, ASA B 5.9,
A1/A2 metr.; mounting from front



Item no.	Size	Mount short taper	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
101196 ¹⁾	160	5	42	4600	110	47
101446 ¹⁾	200	5	42	4000	140	55
101454 ¹⁾	200	6	55	4000	140	55
101064	250	5	76	3000	150	63
101062 ¹⁾	250	6	55	3000	150	63
101063 ¹⁾	250	8	76	3000	150	63
101931	315	6	103	2300	180	69
101939 ¹⁾	315	8	76	2300	180	69
127557	350	6	103	1900	210	74
117320 ¹⁾	350	8	76	1900	210	74
102353	400	8	136	1800	240	92
102361 ¹⁾	400	11	125	1800	240	92
102979	500	11	190	1300	260	100
102896	630	11	190	850	280	105
103012 ¹⁾	630	15	190	850	280	105

¹⁾ mounting from front in the inner bolt circle

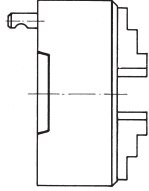
Tool group A09
Type 330 **3-jaw-chuck**
cast iron body DIN 55029;
ASA B 5.9, Type D,
with studs for Camlock



Item no.	Size	Mount short taper	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
108677	100	3	20	4500	60	27
108678	125	3	32	4000	80	31
108682	125	4	32	4000	80	31
108679	140	3	40	3700	90	40
108683	140	4	40	3700	90	40
108686	140	5	40	3700	90	40
108680	160	3	42	3600	110	47
108684	160	4	42	3600	110	47
108687	160	5	42	3600	110	47
108681	200	3	51,2	3000	140	55
108685	200	4	55	3000	140	55
108688	200	5	55	3000	140	55
108691	200	6	55	3000	140	55
127860	250	4	60,7	2500	150	63
108689	250	5	76	2500	150	63
108692	250	6	76	2500	150	63
108696	250	8	76	2500	150	63
124918	315	5	79,6	2000	180	69
108693	315	6	103	2000	180	69
108697	315	8	103	2000	180	69
108883	315	11	103	2000	180	69
108695	350	6	103	1700	210	74
108699	350	8	115	1700	210	74
108887	350	11	115	1700	210	74
108694	400	6	103	1600	240	92
108698	400	8	136	1600	240	92
108884	400	11	136	1600	240	92
108834	500	8	136	1000	260	100
108885	500	11	190	1000	260	100
108888	500	15	190	1000	260	100
108886	630	11	192,7	800	280	105
108889	630	15	240	800	280	105

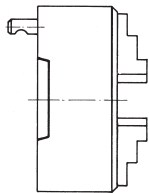
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Tool group A09
 Type 630 **3-jaw-chuck**
steel body DIN 55029; ASA B 5.9,
 Type D, with studs for Camlock



Item no.	Size	Mount short taper	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
108890	100	3	20	6300	60	27
108891	125	3	32	5500	80	31
108895	125	4	32	5500	80	31
108892	140	3	40	5000	90	40
108896	140	4	40	5000	90	40
108899	140	5	40	5000	90	40
108893	160	3	42	4600	110	47
108897	160	4	42	4600	110	47
109150	160	5	42	4600	110	47
108894	200	3	51,2	4000	140	55
108898	200	4	55	4000	140	55
109151	200	5	55	4000	140	55
109154	200	6	55	4000	140	55
127861	250	4	60,7	3000	150	63
109152	250	5	76	3000	150	63
109155	250	6	76	3000	150	63
109159	250	8	76	3000	150	63
127862	315	5	79,6	2300	180	69
109156	315	6	103	2300	180	69
109160	315	8	103	2300	180	69
109165	315	11	103	2300	180	69
109158	350	6	103	1900	210	74
109162	350	8	115	1900	210	74
109169	350	11	115	1900	210	74
109157	400	6	103	1800	240	92
109161	400	8	136	1800	240	92
109166	400	11	136	1800	240	92
109163	500	8	136	1300	260	100
109167	500	11	190	1300	260	100
109170	500	15	190	1300	260	100
109168	630	11	192,7	850	280	105
109171	630	15	240	850	280	105

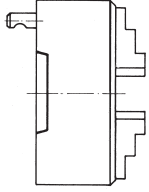
Tool group A09
 Type 430 **4-jaw-chuck**
cast iron body DIN 55029;
 ASA B 5.9, Type D,
 with studs for Camlock



Item no.	Size	Mount short taper	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
109017	100	3	20	4500	60	27
109172	125	3	32	4000	80	31
109176	125	4	32	4000	80	31
109173	140	3	40	3700	90	40
109177	140	4	40	3700	90	40
109180	140	5	40	3700	90	40
109178	160	4	42	3600	110	47
109181	160	5	42	3600	110	47
109175	200	3	51,2	3000	140	55
109179	200	4	55	3000	140	55
109182	200	5	55	3000	140	55
109185	200	6	55	3000	140	55
127864	250	4	60,7	2500	150	63
109183	250	5	76	2500	150	63
109186	250	6	76	2500	150	63
109190	250	8	76	2500	150	63
127865	315	5	79,6	2000	180	69
109187	315	6	103	2000	180	69
109191	315	8	103	2000	180	69
109196	315	11	103	2000	180	69
109189	350	6	103	1700	210	74
109193	350	8	115	1700	210	74
109200	350	11	115	1700	210	74
109188	400	6	103	1600	240	92
109192	400	8	136	1600	240	92
109197	400	11	136	1600	240	92
109194	500	8	136	1000	260	100
109198	500	11	190	1000	260	100
109201	500	15	190	1000	260	100
109199	630	11	192,7	800	280	105
109202	630	15	240	800	280	105

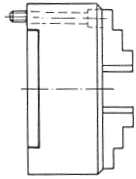
ZG-ZS

Tool group A09
Type 830 **4-jaw-chuck**
steel body DIN 55029;
ASA B 5.9, Type D,
with studs for Camlock



Item no.	Size	Mount short taper	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
109203	100	3	20	6300	60	27
109204	125	3	32	5500	80	31
109208	125	4	32	5500	80	31
109205	140	3	40	5000	90	40
109209	140	4	40	5000	90	40
109212	140	5	40	5000	90	40
109210	160	4	42	4600	110	47
109213	160	5	42	4600	110	47
109207	200	3	51,2	4000	140	55
109211	200	4	55	4000	140	55
109214	200	5	55	4000	140	55
109217	200	6	55	4000	140	55
127866	250	4	60,7	3000	150	63
109215	250	5	76	3000	150	63
109218	250	6	76	3000	150	63
109222	250	8	76	3000	150	63
127867	315	5	79,6	2300	180	69
109219	315	6	103	2300	180	69
109223	315	8	103	2300	180	69
109228	315	11	103	2300	180	69
109221	350	6	103	1900	210	74
109225	350	8	115	1900	210	74
109232	350	11	115	1900	210	74
109220	400	6	103	1800	240	92
109224	400	8	136	1800	240	92
109229	400	11	136	1800	240	92
109226	500	8	136	1300	260	100
109230	500	11	190	1300	260	100
109233	500	15	190	1300	260	100
109231	630	11	192,7	850	280	105
109234	630	15	240	850	280	105

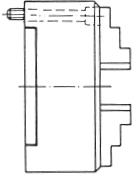
Tool group A09
Type 300 **3-jaw-chuck**
cast iron body
mounting from front;
cylindrical centre mount



Item no.	Size	ZA	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
116304	125	95	32	4000	80	31
115566	160	125	42	3600	110	47
109127	200	160	55	3000	140	55
114301	250	200	76	2500	150	63
109128	315	260	103	2000	180	69
123474	400	330	136	1600	240	92
117327	500	420	190	1000	260	100
111346	630	545	240	800	280	105

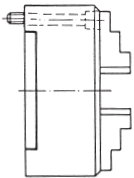
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Tool group A09
Type 600 **3-jaw-chuck**
steel body
mounting from front;
cylindrical centre mount



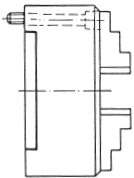
Item no.	Size	ZA	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
120155	125	95	32	5500	80	31
115568	160	125	42	4600	110	47
113158	200	160	55	4000	140	55
114304	250	200	76	3000	150	63
120270	315	260	103	2300	180	69
123475	400	330	136	1800	240	92
127616	500	420	190	1300	260	100
128545	630	545	240	850	280	105

Tool group A09
Type 400 **4-jaw-chuck**
cast iron body
mounting from front;
cylindrical centre mount



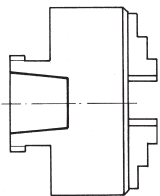
Item no.	Size	ZA	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
103053	125	95	32	4000	80	31
115570	160	125	42	3600	110	47
111339	200	160	55	3000	140	55
127916	250	200	76	2500	150	63
120743	315	260	103	2000	180	69
146263	400	330	136	1600	240	92
129858	500	420	190	1000	260	100
137545	630	545	240	800	280	105

Tool group A09
Type 800 **4-jaw-chuck**
steel body
mounting from front;
cylindrical centre mount



Item no.	Size	ZA	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
124447	125	95	32	5500	80	31
125802	160	125	42	4600	110	47
113160	200	160	55	4000	140	55
114306	250	200	76	3000	150	63
129946	315	260	103	2300	180	69
134401	400	330	136	1800	240	92
123465	500	420	190	1300	260	100
135061	630	545	240	850	280	105

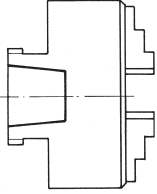
Tool group A09
Type 340 **3-jaw-chuck**
cast iron body ASA B 5.9;
long taper, mounting
with union nut



Item no.	Size	Mount long taper	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
108585	125	L00	32	4000	80	31
108580	160	L00	40	3600	110	47
108589	160	L0	42	3600	110	47
108587	200	L00	55	3000	140	55
108590	200	L0	55	3000	140	55
108593	200	L1	55	3000	140	55
108588	250	L00	56	2500	150	63
108591	250	L0	66	2500	150	63
108594	250	L1	76	2500	150	63
108592	315	L0	66	2000	180	69
108595	315	L1	84,5	2000	180	69
108599	315	L2	103	2000	180	69
108597	400	L1	84	1600	240	92
108601	400	L2	109	1600	240	92
108604	400	L3	136	1600	240	92
108605	500	L3	137	1000	260	100
108606	630	L3	137	800	280	105

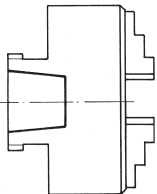
ZG-ZS

Tool group A09
Type 640 **3-jaw-chuck**
steel body ASA B 5.9;
long taper, mounting
with union nut



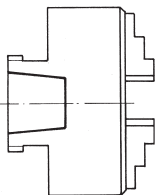
Item no.	Size	Mount long taper	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
108607	125	L00	32	5500	80	31
108609	160	L00	40	4600	110	47
108612	160	L0	42	4600	110	47
108610	200	L00	55	4000	140	55
108613	200	L0	55	4000	140	55
108616	200	L1	55	4000	140	55
108611	250	L00	56	3000	150	63
108614	250	L0	66	3000	150	63
108617	250	L1	76	3000	150	63
108615	315	L0	66	2300	180	69
108618	315	L1	84,5	2300	180	69
108622	315	L2	103	2300	180	69
108620	400	L1	84	1800	240	92
108624	400	L2	109	1800	240	92
108627	400	L3	136	1800	240	92
108628	500	L3	137	1300	260	100
108629	630	L3	137	850	280	105

Tool group A09
Type 440 **4-jaw-chuck**
cast iron body ASA B 5.9;
long taper,
mounting with union nut



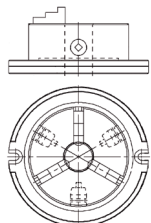
Item no.	Size	Mount long taper	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
108630	125	L00	32	4000	80	31
108632	160	L00	40	3600	110	47
108635	160	L0	42	3600	110	47
108633	200	L00	55	3000	140	55
108636	200	L0	55	3000	140	55
108639	200	L1	55	3000	140	55
108634	250	L00	56	2500	150	63
108637	250	L0	66	2500	150	63
108640	250	L1	76	2500	150	63
108638	315	L0	66	2000	180	69
108641	315	L1	84,5	2000	180	69
108645	315	L2	103	2000	180	69
108643	400	L1	84	1600	240	92
108647	400	L2	109	1600	240	92
108650	400	L3	136	1600	240	92
108651	500	L3	137	1000	260	100
108652	630	L3	137	800	280	105

Tool group A09
Type 840 **4-jaw-chuck**
steel body ASA B 5.9;
long taper,
mounting with union nut



Item no.	Size	Mount long taper	Through-hole	Speed max. min-1	Torque Nm	Total Clamping force kN
108653	125	L00	32	5500	80	31
108655	160	L00	40	4600	110	47
108659	160	L0	42	4600	110	47
108656	200	L00	55	4000	140	55
108660	200	L0	55	4000	140	55
108663	200	L1	55	4000	140	55
108657	250	L00	56	3000	150	63
108661	250	L0	66	3000	150	63
108664	250	L1	76	3000	150	63
108662	315	L0	66	2300	180	69
108665	315	L1	84,5	2300	180	69
108669	315	L2	103	2300	180	69
108667	400	L1	84	1800	240	92
108671	400	L2	109	1800	240	92
108674	400	L3	136	1800	240	92
108675	500	L3	137	1300	260	100
108676	630	L3	137	850	280	105

Tool group A09
Type 300 ZG **with base plate**
3-jaw-chuck cast iron body



Item no.	Size	Through-hole	Torque Nm	Total Clamping force kN
127857	160	42	110	47
127858	200	55	140	55
127859	250	76	150	63
150594	315	103	180	69