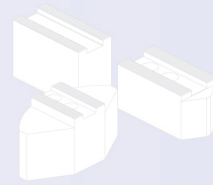


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**Soft top jaws**

Steel | Aluminium  
Inch serration  
1/16" x 90° or 3/32" x 90°

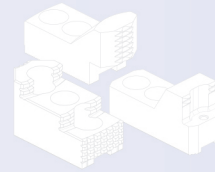


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**Hard top jaws**

Inch serration  
1/16" x 90° or 3/32" x 90°

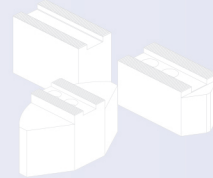


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**Soft top jaws**

Steel | Aluminium  
Metric serration  
1.5 x 60° or 3 x 60°

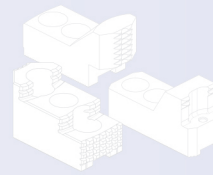


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**Hard top jaws**

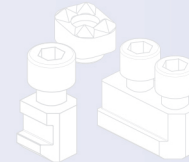
Metric serration  
1.5 x 60° or 3 x 60°



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**T-Nuts  
Grippers**

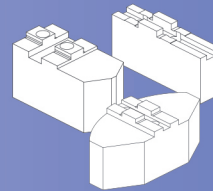


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**Soft top jaws**

Tongue & groove

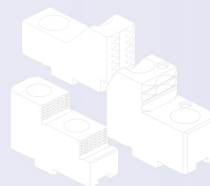


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**Hard top jaws**

Tongue & groove

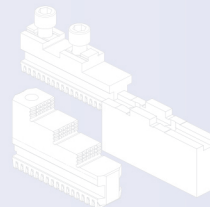


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**Quick jaw change**

For manual and power chucks  
straight modular serration System SMW

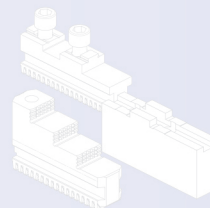


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**Quick jaw change**

For manual and power chucks  
helix modular serration System Forkardt



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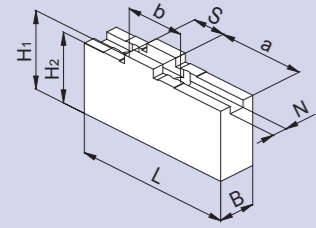
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**Special jaws | Boring rings**  
**Cleaning plate | Gripping force tester**  
**Repair service | Calculations**



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# WAKS

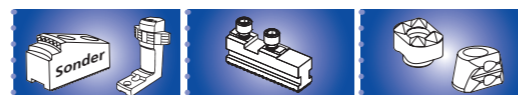


**Soft top jaws  
wide version, for quick jaw change**

- Tongue & groove
- Material: 16MnCr5

Type	Id. No.	B	H <sub>1</sub>	H <sub>2</sub>	L	N	S	a	b	kg/ Set	SMW-AUTOBLOK
WAKS 140-10	012496	35	40	36	63	8	18	26	32	1.62	KNCS-N 140
WAKS 160-10	080931	25	50	46	85	8	18	42	32	1.94	HG-N 160
WAKS 160-20	080932	30	55.5	51.5	85			48	32	2.69	HG-F 160
WAKS 160-30	080933	40	80	76	70			26	32	4.43	KNCS-N 170 KNCS-2G 170
WAKS 200-10	080934	30	55.5	51.5	100	10	20	57	40	3.21	HG-N 210
WAKS 200-20	080935	30	70	66	100			45	40	4.09	HG-F 210
WAKS 200-30	012497	40	40	36	70			27	40	2.11	KNCS-N 210
WAKS 200-31	080936	40	60	56	85			42	40	4.02	KNCS-N 225
WAKS 200-32	036733	40	80	76	95			52	40	6.19	KNCS-NB 210 KNCS-NB 225 KNCS-2G 210 KNCS-2G 225
WAKS 250-10	080937	40	60	55	125	12	20	70	40	5.70	HG-N 260
WAKS 250-11	080938	40	80	75	125			70	40	7.71	HG-N 315
WAKS 250-12	080939	40	100	95	125			70	40	9.75	HG-F 260
WAKS 250-13	080940	40	120	115	125			70	40	11.80	KNCS-N 260/275
WAKS 250-20	012498	60	60	55	90			44	40	6.30	KNCS-N 325/340
WAKS 250-21	080942	60	60	55	110			60	40	7.78	KNCS-NB 260
WAKS 250-22	080943	60	80	75	90			44	40	8.50	KNCS-NB 325
WAKS 250-23	080944	60	80	75	110			60	40	10.58	KNCS-NB 340
WAKS 250-30	012499	80	60	55	90			44	40	8.68	KNCS-2G 260
WAKS 250-31	080945	80	80	75	110			60	40	14.48	KNCS-2G 325
WAKS 400-10	080946	40	60	54	110	12	26	54	54	4.88	HG-N 400
WAKS 400-11	080947	40	60	54	145			89	54	6.60	HG-2G 400
WAKS 400-12	080948	40	100	94	145			89	54	11.44	HG-F 315
WAKS 400-13	080949	40	120	114	145			89	54	13.86	KNCS-N 400
WAKS 400-14	080950	40	150	144	145			89	54	17.49	KNCS-NB 400
WAKS 400-20	080951	60	60	54	110			54	54	7.73	KNCS-2G 400
WAKS 400-21	080952	60	80	74	110			54	54	10.52	
WAKS 400-22	080953	60	100	94	110			54	54	13.32	
WAKS 400-30	012500	80	70	64	100			44	54	11.38	
WAKS 500-10	080954	60	80	73	155	18	30	90	60	14.17	HG-N 500
WAKS 500-12	080956	60	120	113	155			90	60	21.91	HG-N 630
WAKS 500-20	080957	80	80	73	155			90	60	19.70	HG-2G 500
WAKS 500-21	080958	80	100	93	155			90	60	25.04	HG-2G 630
WAKS 500-30	012501	90	80	73	130			65	60	18.50	HG-F 400/500
WAKS 500-31	012502	100	80	73	150			85	60	24.28	KNCS-N 500 KNCS-N 630 KNCS-NB 500 KNCS-NB 630 KNCS-NB 800 KNCS-2G 500 KNCS-2G 630

Forkardt	Samchully	Kitagawa	Röhm	Schunk
F 160 KTNC 160 KTNCV 160 KTNCV 175 FNC 175 F+160	QJC-206	QJ306	Duro-NC 140 Duro-NC 168 Duro 160 Duro-NC 160 Duro-NC 175 Duro-NCE 160 Duro-NCE 175 Duro-NCES 175	ROTA-S plus 160 ROTA THW 165 ROTA THW plus 165/185 ROTA-G 160 THW165 ROTA-S 160 ROTA NCW 185 ROTA-NCR 200
F 200 KTNC 200 KTNCV 200 FNC 200 F+200	QJC-208	QJ308 QJ 8" (QJ 210-43)	Duro 200 Duro-NC 200 Duro-NC 225 Duro-NCE 200 Duro-NCES 200	ROTA-S plus 200 ROTA THW 210 ROTA THW plus 215 ROTA-G 200 THW 210R/F ROTA NCW 225 ROTA-S 200 ROTA NCWF 210 ROTA THWB 210 ROTA THW vario 215
F 250 UNC 250/315 KTNC 250/265 KTNC 280 KTNC 315 KTNCV 250 KTNCV 315 FNC 250 FNC 315 F+250	QJC-210 QJC-212	QJ310 QJ312 QJ 10" (QJ 254-65) QJ 12" (QJ 315-78)	Duro 250 Duro-NC 250 Duro-NCE 250 Duro-NCE 315 Duro-NCES 250 Duro-NCES 315	ROTA-S plus 250 ROTA-THW 250/315 ROTA THW plus 260/315 ROTA-G 250/315 THW 250/265-R/F ROTA NCW 265/315 ROTA-S 250 ROTA-NCWF 250/315 ROTA THWB 265 THW 315-R
F 315 UNC 400 KTNC 360 KTNC 400 KTNCV 400 FNC 400 F+315	QJC-215	QJ15	Duro 315 Duro-NC 315 Duro-NCE 400 Duro-NCES 400	ROTA-S plus 315 ROTA THW 400 THW 400-R/F ROTA-G 400 ROTA-S 315 ROTA THWB 315 THW 315-F
F 400/500 L UNC 500 KTNC 500/630 KTNCV 500/630 FNC 500/630 F+400 F+500	QJC-220	QJ21 QJ24	Duro 400/500 Duro-NC 400/500 Duro-NCE 500	ROTA-S plus 400/500 ROTA THW 500/630/800 ROTA-G 500 THW 630-R ROTA-S 400/500 THW 500-R/F ROTA THWB 400/500

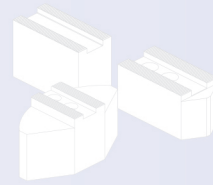


SMW-AUTOBLOK 94, 108, 184    SMW-AUTOBLOK 112, 152    SMW-AUTOBLOK 74

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**Soft top jaws**

Steel | Aluminium  
Inch serration  
1/16" x 90° or 3/32" x 90°

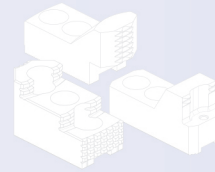


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**Hard top jaws**

Inch serration  
1/16" x 90° or 3/32" x 90°

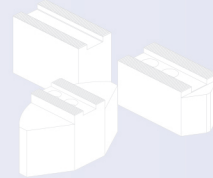


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**Soft top jaws**

Steel | Aluminium  
Metric serration  
1.5 x 60° or 3 x 60°

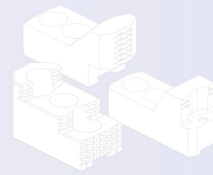


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**Hard top jaws**

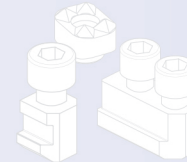
Metric serration  
1.5 x 60° or 3 x 60°



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**T-Nuts  
Grippers**

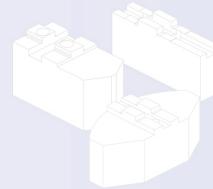


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**Soft top jaws**

Tongue & groove

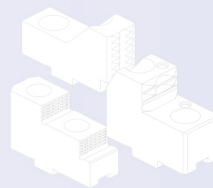


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**Hard top jaws**

Tongue & groove

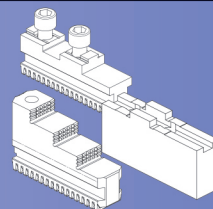


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**Quick jaw change**

For manual and power chucks  
straight modular serration System SMW

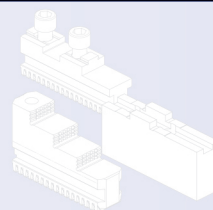


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**Quick jaw change**

For manual and power chucks  
helix modular serration System Forkardt



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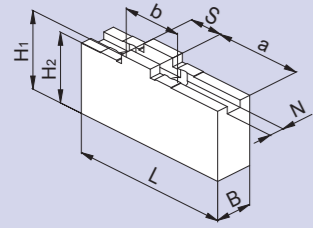
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**Special jaws | Boring rings**  
**Cleaning plate | Gripping force tester**  
**Repair service | Calculations**



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# WAKS

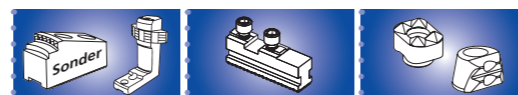


**Soft top jaws  
wide version, for quick jaw change**

- Tongue & groove
- Material: 16MnCr5

Type	Id. No.	B	H <sub>1</sub>	H <sub>2</sub>	L	N	S	a	b	kg/ Set	SMW-AUTOBLOK
WAKS 140-10	012496	35	40	36	63	8	18	26	32	1.62	KNCS-N 140
WAKS 160-10	080931	25	50	46	85	8	18	42	32	1.94	HG-N 160
WAKS 160-20	080932	30	55.5	51.5	85			48	32	2.69	HG-F 160
WAKS 160-30	080933	40	80	76	70			26	32	4.43	KNCS-N 170 KNCS-2G 170
WAKS 200-10	080934	30	55.5	51.5	100	10	20	57	40	3.21	HG-N 210
WAKS 200-20	080935	30	70	66	100			45	40	4.09	HG-F 210
WAKS 200-30	012497	40	40	36	70			27	40	2.11	KNCS-N 210
WAKS 200-31	080936	40	60	56	85			42	40	4.02	KNCS-N 225
WAKS 200-32	036733	40	80	76	95			52	40	6.19	KNCS-NB 210 KNCS-NB 225 KNCS-2G 210 KNCS-2G 225
WAKS 250-10	080937	40	60	55	125	12	20	70	40	5.70	HG-N 260
WAKS 250-11	080938	40	80	75	125			70	40	7.71	HG-N 315
WAKS 250-12	080939	40	100	95	125			70	40	9.75	HG-F 260
WAKS 250-13	080940	40	120	115	125			70	40	11.80	KNCS-N 260/275
WAKS 250-20	012498	60	60	55	90			44	40	6.30	KNCS-N 325/340
WAKS 250-21	080942	60	60	55	110			60	40	7.78	KNCS-NB 260
WAKS 250-22	080943	60	80	75	90			44	40	8.50	KNCS-NB 325
WAKS 250-23	080944	60	80	75	110			60	40	10.58	KNCS-NB 340
WAKS 250-30	012499	80	60	55	90			44	40	8.68	KNCS-2G 260
WAKS 250-31	080945	80	80	75	110			60	40	14.48	KNCS-2G 325
WAKS 400-10	080946	40	60	54	110	12	26	54	54	4.88	HG-N 400
WAKS 400-11	080947	40	60	54	145			89	54	6.60	HG-2G 400
WAKS 400-12	080948	40	100	94	145			89	54	11.44	HG-F 315
WAKS 400-13	080949	40	120	114	145			89	54	13.86	KNCS-N 400
WAKS 400-14	080950	40	150	144	145			89	54	17.49	KNCS-NB 400
WAKS 400-20	080951	60	60	54	110			54	54	7.73	KNCS-2G 400
WAKS 400-21	080952	60	80	74	110			54	54	10.52	
WAKS 400-22	080953	60	100	94	110			54	54	13.32	
WAKS 400-30	012500	80	70	64	100			44	54	11.38	
WAKS 500-10	080954	60	80	73	155	18	30	90	60	14.17	HG-N 500
WAKS 500-12	080956	60	120	113	155			90	60	21.91	HG-N 630
WAKS 500-20	080957	80	80	73	155			90	60	19.70	HG-2G 500
WAKS 500-21	080958	80	100	93	155			90	60	25.04	HG-2G 630
WAKS 500-30	012501	90	80	73	130			65	60	18.50	HG-F 400/500
WAKS 500-31	012502	100	80	73	150			85	60	24.28	KNCS-N 500 KNCS-N 630 KNCS-NB 500 KNCS-NB 630 KNCS-NB 800 KNCS-2G 500 KNCS-2G 630

Forkardt	Samchully	Kitagawa	Röhm	Schunk
F 160 KTNC 160 KTNCV 160 KTNCV 175 FNC 175 F+160	QJC-206	QJ306	Duro-NC 140 Duro-NC 168 Duro 160 Duro-NC 160 Duro-NC 175 Duro-NCE 160 Duro-NCE 175 Duro-NCES 175	ROTA-S plus 160 ROTA THW 165 ROTA THW plus 165/185 ROTA-G 160 THW165 ROTA-S 160 ROTA NCW 185 ROTA-NCR 200
F 200 KTNC 200 KTNCV 200 FNC 200 F+200	QJC-208	QJ308 QJ 8" (QJ 210-43)	Duro 200 Duro-NC 200 Duro-NC 225 Duro-NCE 200 Duro-NCES 200	ROTA-S plus 200 ROTA THW 210 ROTA THW plus 215 ROTA-G 200 THW 210R/F ROTA NCW 225 ROTA-S 200 ROTA NCWF 210 ROTA THWB 210 ROTA THW vario 215
F 250 UNC 250/315 KTNC 250/265 KTNC 280 KTNC 315 KTNCV 250 KTNCV 315 FNC 250 FNC 315 F+250	QJC-210 QJC-212	QJ310 QJ312 QJ 10" (QJ 254-65) QJ 12" (QJ 315-78)	Duro 250 Duro-NC 250 Duro-NCE 250 Duro-NCE 315 Duro-NCES 250 Duro-NCES 315	ROTA-S plus 250 ROTA-THW 250/315 ROTA THW plus 260/315 ROTA-G 250/315 THW 250/265-R/F ROTA NCW 265/315 ROTA-S 250 ROTA-NCWF 250/315 ROTA THWB 265 THW 315-R
F 315 UNC 400 KTNC 360 KTNC 400 KTNCV 400 FNC 400 F+315	QJC-215	QJ15	Duro 315 Duro-NC 315 Duro-NCE 400 Duro-NCES 400	ROTA-S plus 315 ROTA THW 400 THW 400-R/F ROTA-G 400 ROTA-S 315 ROTA THWB 315 THW 315-F
F 400/500 L UNC 500 KTNC 500/630 KTNCV 500/630 FNC 500/630 F+400 F+500	QJC-220	QJ21 QJ24	Duro 400/500 Duro-NC 400/500 Duro-NCE 500	ROTA-S plus 400/500 ROTA THW 500/630/800 ROTA-G 500 THW 630-R ROTA-S 400/500 THW 500-R/F ROTA THWB 400/500

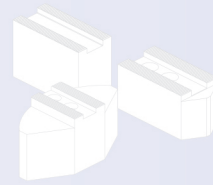


SMW-AUTOBLOK 94, 108, 184    SMW-AUTOBLOK 112    SMW-AUTOBLOK 74

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**Soft top jaws**

Steel | Aluminium  
Inch serration  
1/16" x 90° or 3/32" x 90°

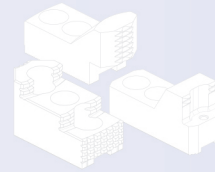


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**Hard top jaws**

Inch serration  
1/16" x 90° or 3/32" x 90°

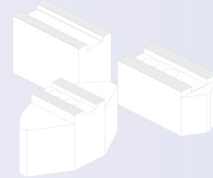


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**Soft top jaws**

Steel | Aluminium  
Metric serration  
1.5 x 60° or 3 x 60°

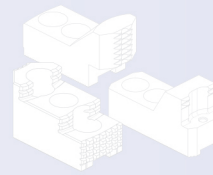


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**Hard top jaws**

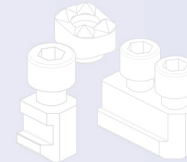
Metric serration  
1.5 x 60° or 3 x 60°



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**T-Nuts  
Grippers**

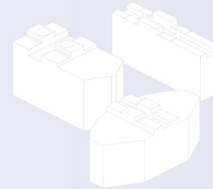


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**Soft top jaws**

Tongue & groove

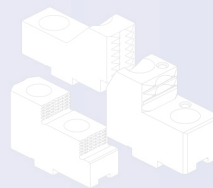


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**Hard top jaws**

Tongue & groove

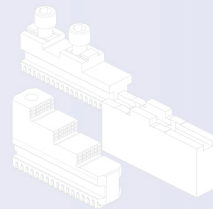


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**Quick jaw change**

For manual and power chucks  
straight modular serration System SMW

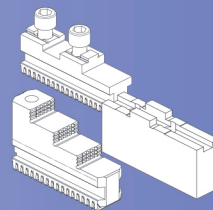


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**Quick jaw change**

For manual and power chucks  
helix modular serration System Forkardt



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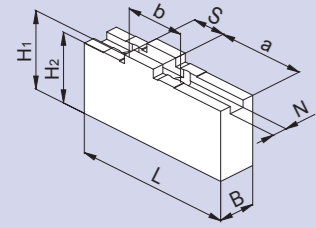
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**Special jaws | Boring rings**  
**Cleaning plate | Gripping force tester**  
**Repair service | Calculations**



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# WAKS

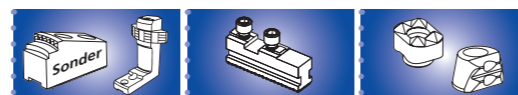


**Soft top jaws  
wide version, for quick jaw change**

- Tongue & groove
- Material: 16MnCr5

Type	Id. No.	B	H <sub>1</sub>	H <sub>2</sub>	L	N	S	a	b	kg/ Set	SMW-AUTOBLOK
WAKS 140-10	012496	35	40	36	63	8	18	26	32	1.62	KNCS-N 140
WAKS 160-10	080931	25	50	46	85	8	18	42	32	1.94	HG-N 160
WAKS 160-20	080932	30	55.5	51.5	85			48	32	2.69	HG-F 160
WAKS 160-30	080933	40	80	76	70			26	32	4.43	KNCS-N 170 KNCS-2G 170
WAKS 200-10	080934	30	55.5	51.5	100	10	20	57	40	3.21	HG-N 210
WAKS 200-20	080935	30	70	66	100			45	40	4.09	HG-F 210
WAKS 200-30	012497	40	40	36	70			27	40	2.11	KNCS-N 210
WAKS 200-31	080936	40	60	56	85			42	40	4.02	KNCS-N 225
WAKS 200-32	036733	40	80	76	95			52	40	6.19	KNCS-NB 210 KNCS-NB 225 KNCS-2G 210 KNCS-2G 225
WAKS 250-10	080937	40	60	55	125	12	20	70	40	5.70	HG-N 260
WAKS 250-11	080938	40	80	75	125			70	40	7.71	HG-N 315
WAKS 250-12	080939	40	100	95	125			70	40	9.75	HG-F 260
WAKS 250-13	080940	40	120	115	125			70	40	11.80	KNCS-N 260/275
WAKS 250-20	012498	60	60	55	90			44	40	6.30	KNCS-N 325/340
WAKS 250-21	080942	60	60	55	110			60	40	7.78	KNCS-NB 260
WAKS 250-22	080943	60	80	75	90			44	40	8.50	KNCS-NB 325
WAKS 250-23	080944	60	80	75	110			60	40	10.58	KNCS-NB 340
WAKS 250-30	012499	80	60	55	90			44	40	8.68	KNCS-2G 260
WAKS 250-31	080945	80	80	75	110			60	40	14.48	KNCS-2G 325
WAKS 400-10	080946	40	60	54	110	12	26	54	54	4.88	HG-N 400
WAKS 400-11	080947	40	60	54	145			89	54	6.60	HG-2G 400
WAKS 400-12	080948	40	100	94	145			89	54	11.44	HG-F 315
WAKS 400-13	080949	40	120	114	145			89	54	13.86	KNCS-N 400
WAKS 400-14	080950	40	150	144	145			89	54	17.49	KNCS-NB 400
WAKS 400-20	080951	60	60	54	110			54	54	7.73	KNCS-2G 400
WAKS 400-21	080952	60	80	74	110			54	54	10.52	
WAKS 400-22	080953	60	100	94	110			54	54	13.32	
WAKS 400-30	012500	80	70	64	100			44	54	11.38	
WAKS 500-10	080954	60	80	73	155	18	30	90	60	14.17	HG-N 500
WAKS 500-12	080956	60	120	113	155			90	60	21.91	HG-N 630
WAKS 500-20	080957	80	80	73	155			90	60	19.70	HG-2G 500
WAKS 500-21	080958	80	100	93	155			90	60	25.04	HG-2G 630
WAKS 500-30	012501	90	80	73	130			65	60	18.50	HG-F 400/500
WAKS 500-31	012502	100	80	73	150			85	60	24.28	KNCS-N 500 KNCS-N 630 KNCS-NB 500 KNCS-NB 630 KNCS-NB 800 KNCS-2G 500 KNCS-2G 630

Forkardt	Samchully	Kitagawa	Röhm	Schunk
F 160 KTNC 160 KTNCV 160 KTNCV 175 FNC 175 F+160	QJC-206	QJ306	Duro-NC 140 Duro-NC 168 Duro 160 Duro-NC 160 Duro-NC 175 Duro-NCE 160 Duro-NCE 175 Duro-NCES 175	ROTA-S plus 160 ROTA THW 165 ROTA THW plus 165/185 ROTA-G 160 THW165 ROTA-S 160 ROTA NCW 185 ROTA-NCR 200
F 200 KTNC 200 KTNCV 200 FNC 200 F+200	QJC-208	QJ308 QJ 8" (QJ 210-43)	Duro 200 Duro-NC 200 Duro-NC 225 Duro-NCE 200 Duro-NCES 200	ROTA-S plus 200 ROTA THW 210 ROTA THW plus 215 ROTA-G 200 THW 210R/F ROTA NCW 225 ROTA-S 200 ROTA NCWF 210 ROTA THWB 210 ROTA THW vario 215
F 250 UNC 250/315 KTNC 250/265 KTNC 280 KTNC 315 KTNCV 250 KTNCV 315 FNC 250 FNC 315 F+250	QJC-210 QJC-212	QJ310 QJ312 QJ 10" (QJ 254-65) QJ 12" (QJ 315-78)	Duro 250 Duro-NC 250 Duro-NCE 250 Duro-NCE 315 Duro-NCES 250 Duro-NCES 315	ROTA-S plus 250 ROTA-THW 250/315 ROTA THW plus 260/315 ROTA-G 250/315 THW 250/265-R/F ROTA NCW 265/315 ROTA-S 250 ROTA-NCWF 250/315 ROTA THWB 265 THW 315-R
F 315 UNC 400 KTNC 360 KTNC 400 KTNCV 400 FNC 400 F+315	QJC-215	QJ15	Duro 315 Duro-NC 315 Duro-NCE 400 Duro-NCES 400	ROTA-S plus 315 ROTA THW 400 THW 400-R/F ROTA-G 400 ROTA-S 315 ROTA THWB 315 THW 315-F
F 400/500 L UNC 500 KTNC 500/630 KTNCV 500/630 FNC 500/630 F+400 F+500	QJC-220	QJ21 QJ24	Duro 400/500 Duro-NC 400/500 Duro-NCE 500	ROTA-S plus 400/500 ROTA THW 500/630/800 ROTA-G 500 THW 630-R ROTA-S 400/500 THW 500-R/F ROTA THWB 400/500



SMW-AUTOBLOK 94, 108, 184    SMW-AUTOBLOK 152    SMW-AUTOBLOK 74