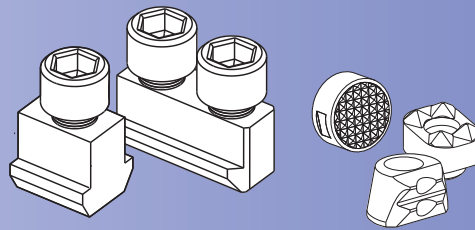
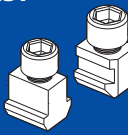
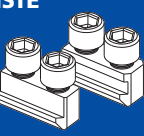
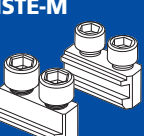

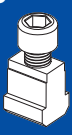





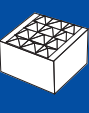
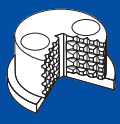


■ **Nutensteine**
 ■ **Spanneinsätze**



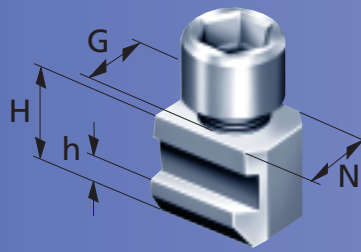
SMW-AUTOBLOK Berg Forkardt Geiger + Haag Howa Kitagawa Röhms Schunk

<p>NST Nutenstein Für Futter</p> <p>Spitzverzahnung Zoll 1/16" x 90° bzw. 3/32" x 90°</p>	<p>NST</p>  <p>Seite 56</p>	
<p>NSTE Doppel-Nutenstein Für Futter</p> <p>Spitzverzahnung Zoll 1/16" x 90° bzw. 3/32" x 90°</p>	<p>NSTE</p>  <p>Seite 60</p>	
<p>NSTE-M Doppel-Nutenstein Für Futter</p> <p>Spitzverzahnung metrisch 1,5 x 60°</p>	<p>NSTE-M</p>  <p>Seite 62</p>	
<p>TS Nutenschraube TM Nutenmutter</p> <p>nur für Berg-Futter Typ KH</p>	<p>TS, TM</p>  <p>Seite 64</p>	
<p>NSO Sondernutensteine nach Kundenwunsch</p>	<p>NSO</p>  <p>Seite 65</p>	
<p>UGE 10 Spanneinsatz UGE 20 Spanneinsatz</p> <p>Feinguss, gehärtet</p>	<p>UGE 10</p>  <p>Seite 66</p>	<p>UGE 20</p>  <p>Seite 66</p>
<p>UGE 30 Spanneinsatz MGH Spannspitze</p> <p>Hartmetall HSS</p>	<p>UGE 30</p>  <p>Seite 67</p>	<p>MGH</p>  <p>Seite 67</p>
<p>HDS-R Spanneinsatz HDS-Q Spanneinsatz</p> <p>rund/Hartmetall quadratisch/Hartmetall</p>	<p>HDS-R</p>  <p>Seite 68</p>	<p>HDS-Q</p>  <p>Seite 68</p>
<p>PPE Prismeneinsatz</p>	<p>PPE</p>  <p>Seite 69</p>	

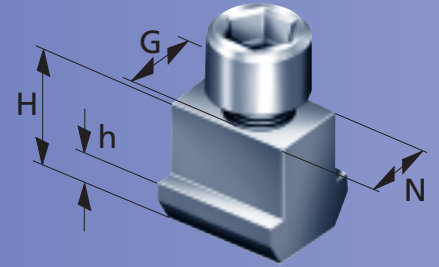
Nutenstein

NST

incl. Zylinderschraube
DIN 912 – 12.9

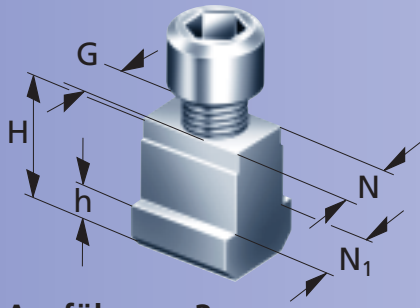


Ausführung 1



Ausführung 2

Typ	Id.-Nr.	Ausf.	N	H	h	G	Zyl.-Schraube DIN 912	Anzugsmoment Md max. (Nm)	SMW-AUTOBLOK	SMW	Autoblok
NST 11	013862	2	11	21,5	7,5	M8	M8 x 30	30		SP 125 • STP 125 STWP 125	
NST 12	081966	2	12	17	7	M8	M8 x 20	30		KDV 130	
NST 12-1	089810	2	12	21,5	7,5	M8	M8 x 25	30	SP 125/98		
NST 14	013863	2	14	26,5	9,5	M10	M10 x 35	50	SP 160	SP 160 • STP 160 STWP 160	
NST 14-1	085874	2	14	20	7,5	M10	M10 x 25	50			ODN 170 • HDB 170 ODL 170 • HDN 170 HDL 170 • GHDN 165 GHD/FC 165
NST 14-2	035958	1	14	18,5	6,5	M10	M10 x 20	50	HFKN-D 165 • AN-D 165 AL-D 165 • BH-D 165		
NST 17-5	064921	1	17	18,5	6,5	M12	M12 x 25	70	BHD-FC 165 • BB-D 175 HB-D 165 • PB-D 165 PBI-D 165 • HYDN-S 180		
NST 17	016021	2	17	23	9	M12	M12 x 30	70		HFK 160/200 HFKS 160/200 KDV 160/200/250 KDVG 160/200/250 KFV 160/200 KFMF 160/200	
NST 17-1	085877	2	17	22,3	8,3	M12	M12 x 30	70			ODN 200 • ODN 220 ODL 200 • HDB 200 HDN 200 • HDN 220 HDL 200 • GHDN 210 CD 200 • GHD/FC 210
NST 17-2	034245	1	17	20,5	7,5	M12	M12 x 25	70	HFKN-D 210 • AN-D 210 AL-D 210 • BH-D 210 BHD-FC 210 • BB-D 210 HB-D 210 • PB-D 210 PBI-D 210 HYDN-S 210/226		
NST 17-3	081825	2	17	21,5	9	M12	M12 x 25	70			
NST 17-4	013864	2	17	26,5	9,5	M12	M12 x 25	70	SP 200	SP 200 • STP 200 STWP 200 • LP 205	
NST 21	014788	2	21	27	11	M16	M16 x 35	150		HFK 250/270/315 HFKS 250/315	
NST 21/17	081812	3	21/17	27	11	M12	M12 x 35	70		KDV 315/400 KDVG 315/400 KZF-ES 200 KZF 200 KFV 250/315 KFMF 250/315	



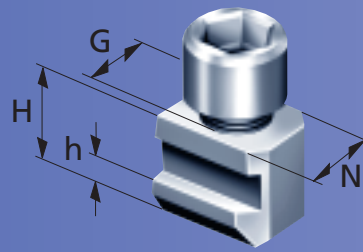
Ausführung 3

Forkardt	Geiger + Haag	Röhm	Schunk
			TP 125
3 KTH 130-33 3 KTH 140-37	GHGY 120/130 GHGY 160/200	KFD 130 • KFH 140 LVE 125 • KFD-HS 160	
		LVE 160	TP 160
			ROTA NC0 165 ROTA NC0 F 165
3 KGH 160/175 • 3 KGHF 160/175 KS 160 • KSPS 160 • KT 160 KL 160 • KSH 160 • UVE 160 KSF 175 • 3 KGH 200 • 3 KGHF 200 3 KTGF 200 • 3 NH 200 • 3 NHF 200 KSF 200 • KS 200 • KT 200 • KL 200 KSH 200 • UVE 200 • KSHF 200 KSPS 200 • KLNC 200 • KG 200 KP 200 • KS 250 • UVE 250 KSHF 250-55 (Index) 3 NHF 250-65 (Index) 3 NHF 290-104 (Index) KS 250 Mo • KL 250 Mo 2 BLE-PS 160 • 2 BLE-PS 200 2 BLEF 200 QLC 175/210	GSH 160 GSH 200 GHKS 160 GHKS 200 GHKS 250 GHL 160 GHL 200 GHL 250 Mo GHHL 160 GHHL 200 GHHL 250 GHHFA 200 GHHFA 250		ROTA NC-0 160 HSL 165 TH 165 THF 165 ROTA NC-D 200 ROTA NC-O 200 HSL 210 TH 210 THF 210
			ROTA NC0 210 ROTA NC0 F 210
	GHN 160/200 GHGY 250/300	KFH 160/200 KFD-HF 160/200 KFD 160/200 KL 250 • KFA 200 KFD-HS 200/250	HSG 200/250
		LVE 200	TP 200
3 NH 250/315 • 3 NHF 250/315 KT 250/315 • KSH 250/315 KSHF 250/315 • 3 KTGF 250/315 KG 250/315 • KP 250-315 KLNC 250/315 • KL 250 KSPS 250/300 • 3 NHF 290 KS 315/400 • KSH 400 • KSHF 400 UVE 315 • 3 NHF 400 (Index) 2 BLE 200 • 2 BLE 250 Mo • 2 BLN 200 QLC 250/315	GSH 250 • GSH 315 GHKS 315 • GHL 250 GHL 280 • GHHL 280 GHSP 300 GHHSP 300 GHG 215/250 GHG 300 GHV 250-300 GHE 200 GHE 250 Mo		ROTA NC-D 250 ROTA NC-O 250 HSL 250 TH 250 • THF 250 HSG 315 • HSL 315 ROTA NC-D 315 ROTA NC-O 315 TH 315 • THF 315

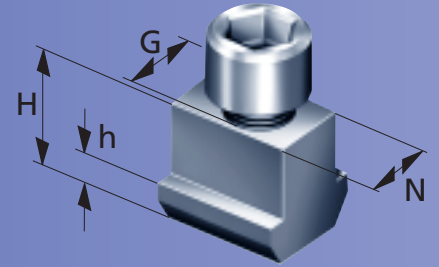
Nutenstein

NST

incl. Zylinderschraube
DIN 912 – 12.9



Ausführung 1



Ausführung 2

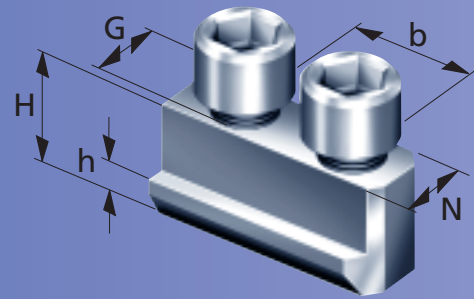
Typ	Id.-Nr.	Ausf.	N	H	h	G	Zyl.-Schraube DIN 912	Anzugsmoment Md max. (Nm)	SMW-AUTOBLOK	SMW	Autoblok
NST 21-2	013865	2	21	30	11	M14	M14 x 40	130		SP 250 • STP 250 STWP 250 • LP 250 SP 315 • STP 315 STWP 315 • LP 305	
NST 21-3	081826	2	21	25,5	11	M16	M16 x 35	150	BHD-FC 400 BHM-FC 400 GH-D 400 GH-M 400 RC-D 400		ODN 250-315-400 ODL 250-315-400 HDN 250-315-400 HDL 250-315-400 GHDN 250-315-400 GHD/FC 250-305-400 CD 250/315 • HDB 300 2 CLD 200 • US-2 CLD 200
NST 21-5	033429	2	21	30	11	M16	M16 x 35	150	SP 250/98 SP 350 STP 250/98 SP 280/350	SP 250/315 LP 250/305 STP 250/315 STWP 250/315	
NST 21-6	034197	1	21	26,5	10	M16	M16 x 35	150	HFKN-D 260/315 AN-D 250/315		
NST 21/17-1	034208		21/17	26,5	10	M12	M12 x 30	70	AL-D 250/315 AN-M 315 • AL-M 315 HB-D 250/315 BH-D 250/315 BHD-FC 250/315 BH-M 315 • BB-M 315 PB-D 250/315 BB-D 250/315 RC-D 250/305 BHM-FC 315 • RC-M 305 PBI-D 250/315 HYDN-S 250/315		
NST 25	014812	2	25,5	29	11	M20	M20 x 40	300	HFKN-D 400 HFKN-D 500	HFK 400/500 HFKS 400/500 KDV 500 • KDVG 500 KDS 630 • KZF 250 KZF 315/400 KZF-ES 315/400 KFV 400/500 KFV 630/800	
NST 25-1	013866	2	25,5	34,5	14,5	M18	M18 x 55	220		STP 400/500 LP 380/460/500 BB 400/500 BB 400/500-ES	
NST 25-2	013867	2	25,5	67	14,5	M18	M18 x 90	220		BB 630-265 ES	
NST 25-3	12065020	2	25,5	34	15	M20	M20 x 40	300	BB-N 400 • BB-N 460 BB-N 500 • BB-N ES 400 BB-N ES 460 • BB-N ES 500 BH-FC 630/500 AL-D 400 • AL-M 400 AN-D 400 • AN-M 400 BH-D 400/500	2 CLD 250/315 US-2 CLD 250/315	
NST 25-4	12065002	2	25,5	40	15,5	M20	M20 x 40	300	GH-D 610/640/800 IN-D 500 • IL-D 500 IN-D 630/800 IL-D 630/800		
NST 30	081811	2	30	41	15	M24	M24 x 50	450			
NST 30-1	014827	2	30	36	15	M24	M24 x 50	450		HFKS 630/800	
NST 30-2	013868	2	30	44,5	18,5	M24	M24 x 70	450	BB-N 630 • BB-N 800 BB-N 1000 • BB-N ES 630 BB-N ES 800 • BB-N ES 1000	STP 630/800 BB 630/800-1000 BB 630-325-ES BB 850/1000-ES	

Forkardt	Geiger + Haag	Röh m	Schunk
		LVE 250 LVE 315	
	GHN 250 GHN 315	KFH 250 • KFD 250 • KFD-HF 250 KFH 315 • KFD 315 • KFL 315 KFD-HF 315 • KFL 400 • LVE 305 LVE 250 • KFA 200 • KFD-HE 254 KFD-HS 315 • KFD-HE 315 KFD-HF 250/315 • KFH-F 250/315 KFH-G 250/315 • KFH-NC 250 SPD 300 • SPO 300	TP 250/315
			ROTA NCO 260/315 ROTA NCO 260/315
3 NH 400/500/630 • QLC 400 3 NHF 400/500/630 • 3 KTGF 400/500 LVE 400/500/630/800 • KT 400/500 KG 400/500 • KL 400/500 • KLNC 400/500 KP 400 • KS 500/630 • KSH 500 • KSL 630 KSHF 630 • KL 300 • KSHF 560 • 2 BLE 250 2 BLE 315 • 2 BLE-PS 300 • 2 BLE-PS 315 2 BLE 400 • 2 BLE 500 • 2 BLE-PS 400/500 2 BLN 250/315/400	GHE 250/315	HSL 400 ROTA NC-D 400 ROTA NC-O 400 TH 400 THF 400 TH 500 THF 500	
			TB 400 • TB 500
			TB 630-265 LH HSG 400 • HSG 500
		KFH 400 • KFD 400 • LVE 400 KFH 500 • KFD 500 • LVE 500 KFD-HE 400 • KFD-HF 400 • KFD 630 LVE 630 • KFD-HF 500 • KFD 800 LVE 1000 • KFD-HS 400 • KFL 500 KFA 250 • KFD-HS 500 • KFL 600 KFA 315 • KFH-F 400/500 KFH-G 400/500 • KFH-NC 400/500	
KS 800/1000/1250 • KS 1400 • KSF 1000		KFD 1000/1250	TH 630
			TB 630 • TB 800 • TB 1000

Doppel-Nutenstein

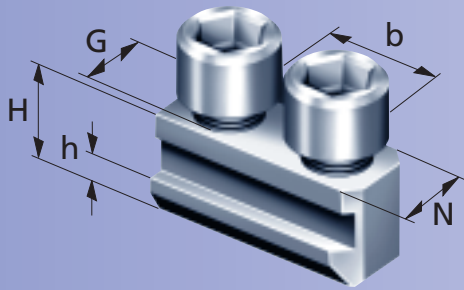
NSTE

incl. Zylinderschrauben
DIN 912 – 12.9



Ausführung 2

Typ	Id.-Nr.	Ausf.	N	H	h	b	G	Zyl.-Schraube DIN 912	Anzugsmoment Md max. (Nm)	SMW-AUTOBLOK
NSTE 08	038265	2	8	13,5	5	12	M6	M6 x 20	16	HFKN-D 110
NSTE 11	014730	2	11	19	7	14	M8	M8 x 20	30	
NSTE 12	12061300	2	12	15	6,5	16	M8	M8 x 20	30	BH-D 130 • BH-M 130 PB-D 130 • PB-M 130 PBI-D 130 • PBI-M 130 HB-D 130 • HB-M 130 BB-D 140 • BB-M 130
NSTE 12-1	12061200	1	12	15	6,5	16	M8	M8 x 20	30	AN-D 125 • AN-M 125 AL-D 125 • AL-M 125
NSTE 14	73061650	1	14	18,5	6,5	16,5	M10	M10 x 20	50	HFKN-D 165 • AN-D 165 • AL-D 165 BH-D 165 • BHD-FC 165 • RC-D 165 PB-D 165 • PBI-D 165 • HB-D 165 • BB-D 175 HYDN-S 180
NSTE 17	081813	2	17	23	9	22	M12	M12 x 30	70	
NSTE 17-1	081814	2	17	23	9	19	M12	M12 x 30		
NSTE 17-2	73062150	1	17	20,5	7,5	23	M12	M12 x 25	70	HFKN-D 210 • AN-D 210 • AL-D 210 BH-D 210 • BHD-FC 210 • RC-D 210 BB-D 210 • PB-D 210 • PBI-D 210 • HB-D 210 HYDN-S 210/226
NSTE 21	081815	2	21	27	11	28	M16	M16 x 35	150	
NSTE 21-2	73063050	1	21	26,5	10	30	M16	M16 x 30	150	HFKN-D 260 • HFKN-D 315 AN-D 250 • AN-D 305/315 • AL-D 250 • AL-D 305/315 BH-D 250 • BH-D 305/315 • BHD-FC 250 • BHD-FC 305/315 RC-D 250 • RC-D 305/315 BB-D 250 • BB-D 305/315 PB-D 250 • PB-D 305/315 • PBI-D 250 • PBI-D 305/315 HB-D 250 • HB-D 305/315 HYDN-S 250/315
NSTE 25,5	081817	2	25,5	29	11	35	M20	M20 x 40	220	HFKN-D 400 • HFKN-M 400 HFKN-D 500 • HFKN-M 500
NSTE 25,5-1	73065030	2	25,5	33	14,5	38	M20	M20 x 40		RC-D 500



Ausführung 1

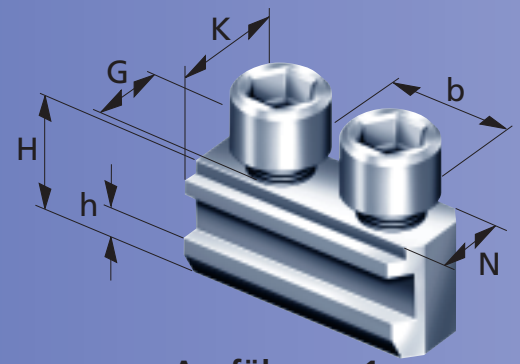
SMW	Forkardt	Geiger + Haag	Schunk
HFKS 130			ROTA NCO 165 ROTA NCO F 165
HFK 160/200 HFKS 160/200 KDV 160/200 KDV 250 KDVG 160/200 KDVG 250 KFV 160/200 KFMF 160/200	3 KGH 160/175/200 • 3 KTH 160-46 3 KTH 175-46 • 3 KTH 200-66 3 KGHF 160/175/200 3 KTGF 200 • 3 NH 200 3 NHF 200 • KSF 175/200 KS 160/200 • KT 160/200 KSH 160/200 • KSHF 200 KSPS 160/200 • KL 160/200 KL 250-Mo • KLNC 250 KG 200 • KP 200 • UVE 160/200 QLC 175 • QLC 210	GSH 160 GSH 200 GHKS 160 GHKS 200 GHKS 250 GHL 160 GHL 200 GHL 250 GHHFA 200 GHHFA 250	ROTA NC-O 160 HSL 165/210 TH 165/210 THF 165/210 ROTA NC-D 200 ROTA NC-O 200 HSG 200 HSG 250
HFK 250/270 HFK 315 HFKS 250/315 KDV 315/400 KDVG 315/400 KZF 200 • KZF-ES 200 KFMF 250/315 KFV 250/315	3 NH 250-315 • 3 NHF 250-315 KT 250-315 • KSH 250-315 KSHF 250-315 • 3 KTGF 250-315 KG 250-315 • KP 250-315 KLNC 250-315 • KL 250 • KSPS 250-300 3 NHF 290 • KS 315-400 • KSH 400 KSHF 400 • UVE 315 • 3 NHD 400 (Index) 2 BLE 200 • 2 BLE 250 Mo • QLC 250/315	GSH 250 GSH 315 GSK 315 GHL 250 • GHL 280 • GHL 280 GHSP 300 • GHHSP 300 GHG 215/250 • GHG 300 GHV 250-300 GHE 200 • GHE 250 Mo	ROTA NCO 210 ROTA NCO F 210 HSL 250/315 ROTA NC-D 250 ROTA NC-O 250 TH 250/315 THF 250/315 HSG 315 ROTA NC-D 315 ROTA NC-O 315
HFK 400/500 • HFKS 400/500 KDV 500 • KDVG 500 KDS 630 KZF 250 • KZF-ES 250 KZF 315 • KZF-ES 315 KZF 400 • KZF 400-800	3 NH 400-500-630 • 3 NHF 400-500-630 3 KTGF 400-500 • UVE 400-500-630-800 KT 400-500 • KG 400-500 • KL 400-500 KLNC 400-500 • KP 400 • KS 500-630 KSH 500 • KSL 630 • KSHF 630 • KL 300 KSHF 560 • 2 BLE 250 • 2 BLE 315 2 BLE-PS 300 • 2 BLE-PS 315 • 2 BLE 400 2 BLE 500 • 2 BLE-PS 400-500 • QLC 400	GHE 250 GHE 315	ROTA NCO 260/315 ROTA NCO F 260/315 HSL 400 ROTA NC-D 400 ROTA NC-O 400 TH 400/500 THF 400/500

Doppel-Nutenstein

NSTE-M

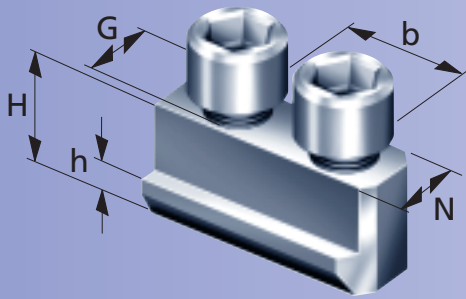
für Grundbacken mit Spitzverzahnung metrisch

incl. Zylinderschrauben
DIN 912 – 12.9

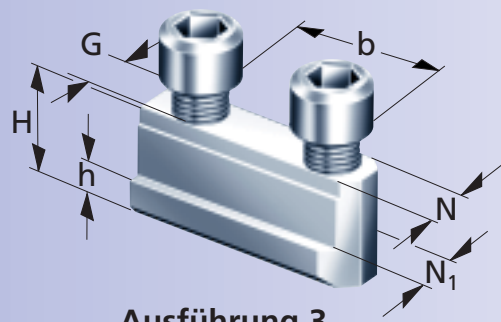


Ausführung 1

Typ	Id.-Nr.	Ausf.	N	H	h	b	G	Zyl.-Schraube DIN 912	Anzugsmoment Md max. (Nm)	SMW-AUTOBLOK
NSTE-M 100	081828	2	10	16	5	14	M8	M8 x 20	30	
NSTE-M 101	081829	2	10	18	5,5	14	M8	M8 x 22	30	
NSTE-M 102	081830	2	10	15,5	5,5	18	M8	M8 x 22	30	
NSTE-M 104	081832	2	10	18	5,5	19	M8	M8 x 22	30	
NSTE-M 105	091508	2	10	15	5	14	M8	M8 x 20	30	
NSTE-M 120	73061602	1	12	18,5	6,5	20	M10	M10 x 20	50	AN-M 165 • AL-M 165 • BH-M 165 • BH-FC 165 • RC-M 165 PB-M 165 • PBI-M 16 • HB-M 165 • BB-M 175
NSTE-M 121	081833	2	12	22	7	20	M10	M10 x 25	50	
NSTE-M 125	012534	2	12	18,5	7,5	20	M10	M10 x 20	50	
NSTE-M 140	73062101	1	14	20,5	7,5	25	M12	M12 x 25	70	AN-M 210 • AL-M 210 • BH-M 210 • BH-FC 210 • RC-M 210 PB-M 210 • PBI-M 210 • HB-M 210 • BB-M 210
NSTE-M 141	081834	2	14	24,5	8,5	25	M12	M12 x 35	70	
NSTE-M 145	012535	2	14	20,5	8,5	25	M12	M12 x 30	70	
NSTE-M 160	73062501	1	16	26,5	10	30	M12	M12 x 30	70	AN-M 250 • AL-M 250 • BH-M 250 • BH-FC 250 • RC-M 250 PB-M 250 • PBI-M 250 • HB-M 250 • BB-M 250
NSTE-M 161	080547	2	16	24,5	8,5	30	M12	M12 x 35	70	
NSTE-M 162	081835	2	16	23	8	30	M12	M12 x 30	70	
NSTE-M 165	012546	2	16	21,5	8,5	30	M12	M12 x 30	70	
NSTE-M 167	081836	2	16	26,5	8,5	25	M12	M12 x 35	70	
NSTE-M 181	081837	2	18	33,5	13,5	30	M14	M14 x 45	130	
NSTE-M 187	019359	2	18	27,5	9,5	30	M14	M14 x 40	130	
NSTE-M 212	081839	2	21	28	11,5	30	M16	M16 x 40	150	
NSTE-M 227	081842	3	22/24	45,5	16,5	43	M20	M20 x 60	300	



Ausführung 2



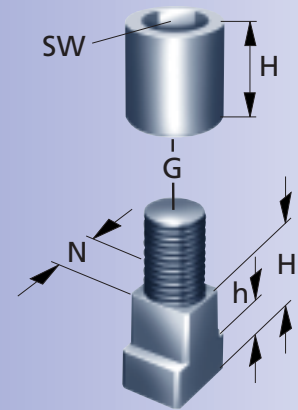
Ausführung 3

Howa	Kitagawa	Schunk
HO 1 MA 4 • HO 24 M 5	HJ-4 • AS 110 • NO-4 HOB-5 • BO-5 NO-5 • HJ-5 B 204 • B 205	
HO 1 MA 6 • HO 7 MA 6 • HO 24 M 6 • HO 27 M 6 HO 15 M 6 • HO 22 M 6 • HO 47 M 6	HJA 5-6 • HO 6 • N-160 • HOS 6 • HOH 06 B 06 • N 06 • B-160 • HOB 6 • AS 165 • HOH-160 B-206 • B 06 • B 106 • B 07 • HOH 106 • HOH 06	HSL 165 (1,5 x 60°) ROTA NCK 165
HO 1 MA 8 • HO 2 MA 8 • HO 23 M 8 • HO 7 M 8 HO 15 M 8	HJA 6-8 • HO 8 • HOH 08 • N-200 • HOS 8 • B 08 B-200 • HOB 8 • B 208 • AS 210 • HOH-200 • N 08 B-208 • B 108 • HOH 108 • HOH 208	HSL 210 (1,5 x 60°) ROTA NCK 210
HO 1 MA 10 • HO 2 M 10	B-250 • AS 250 • N-250 • HOS 10 • B 10 • AS 250 HOB-10 • HO-10 • HJA 8-10 • HOH 250 • B 210 • N 10 B-110 • HOH 110 • B-210 • HOH 210	HSL 250 (1,5 x 60°) ROTA NCK 250
HO 7 MA 10 • HO 15 M 10 • HO 22 M 8 HO 47 M 8 • HO 23 M 10 • HO 27 M 8 HO 24 M 8	B-300 • HO-12 • HOH-300 • HOS 12 • B 12 • N 12 HOH 12 • N-300 • HOB 12 • HLA 6-12 • HLA 6-15 HLA 8-12 • HJA 8-15	HSL 315 (1,5 x 60°) ROTA NCK 315
HO 7 MA 12 • HO 22 M 10 • HO 23 M 12 HO 27 M 12 • HO 24 M 10 • HO 15 M 12	B 212 • HOH 212 • B-112 • HOH 112 B-380 • B-15 • B-18 • B-450 • HOH 380 HOH-18 • HOB-15 • HOB 18 • HOH 15	HSL 400

Nutenstein Berg

TS - Nutenschraube

TM - Nutenmutter



Typ	Id.-Nr.	N	H	h	G	SW	Anzugsmoment Md max. (Nm)	Futter
TS 10	087409	10	20,3	9,3	M10	-	60	KH 140
TM 10	087405	-	16	-	M10	8,1	60	KH 160
TS 12	087410	12	23,2	9	M12	-	100	KH 175
TM 12	087406	-	19	-	M12	10,1	100	KH 200
TS 16	087411	16	26,7	12	M16	-	250	KH 250
TM 16	087407	-	25	-	M16	14,1	250	KH 315
TS 20	087412	20	32,7	16	M20	-	300	KH 400
TM 20	087408	-	32	-	M20	17,1	300	KH 500 KH 630