



2



Catalog No.	d <sub>1</sub>	X	l <sub>1</sub>
SM 1010	02.00	X	0160



Wärmerbeitsstahl 1.2343, 1.2344 oder ähnlich. Anlassbeständigkeit min. 600 °C.  
Nitridable hot working steel like 1,2343 or 1,2344. Retention of hardness min. 600 °C.

Zylindrischer Kopf warm angestaut, Schaft feinstgeschliffen und nitriert; g6.  
Wir führen die Auswerfer in badnitrierter Ausführung (schwarze Oberfläche) sowie in gas- bzw. plasmanitrierter Ausführung (blanke Oberfläche). Besonders geeignet für Druckgießwerkzeuge.

Bath-nitrided, head hot-upset. Dia d<sub>1</sub> is precision-ground ISO tolerance g6.



Schaft: min. 950 HV 0,3 an der Oberfläche. Nitrierhärte tiefe nach DIN 50190 T 3 ca. 100 ∞-m. Kernzugfestigkeit min. 1300 N/mm<sup>2</sup>  
Kopf: HRc 50 ± 5  
shaft: min. 950 HV 0,3 like DIN 50190 T 3 ca. 100 ∞-m. Tensile core strength min. 1300 N/mm<sup>2</sup>.  
head: HRc 50 ± 5

Die Härteprüfung an der Oberfläche darf wegen der dünnen Nitrierschicht nur nach Vickers mit einer max. Prüfkraft von 3 N vorgenommen werden.



mm



●: bevorzugte Maße  
●: preferred sizes



andere Abmessungen  
other dimensions



RoHS  
Konform  
Compliant

d <sub>1</sub>	d <sub>2</sub>	d <sub>4</sub>	k	r	l <sub>3</sub>	l <sub>1</sub>																							
∅	∅	∅	0	+0,2	0	+2																							
g6	-0,2		-0,05			100	€	125	€	160	€	200	€	250	€	315	€	400	€	500	€	630	€	800	€	1000	€		
01,50	03	d <sub>1</sub>	1,5	0,2	05	●	6,06	●	6,56	●	6,90	●	7,55	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
02,00	04		2,0	0,2	05	●	4,92	●	5,23	●	5,52	●	6,00	●	6,48	-	-	-	-	-	-	-	-	-	-	-	-	-	
02,20	04		2,0	0,2	05	●	5,37	●	5,64	●	5,91	●	6,48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
02,50	05		2,0	0,3	05	●	5,64	●	5,96	●	6,17	●	7,00	●	7,08	●	8,09	-	-	-	-	-	-	-	-	-	-	-	-
02,70	05		2,0	0,3	05	●	5,64	●	5,96	●	6,17	●	7,00	●	7,08	●	8,09	-	-	-	-	-	-	-	-	-	-	-	-
03,00	06		3,0	0,3	05	●	4,52	●	4,71	●	4,92	●	5,59	●	6,17	●	6,77	●	8,56	●	9,74	-	-	-	-	-	-	-	-
03,20	06		3,0	0,3	05	●	5,50	●	6,05	●	6,22	●	6,90	●	7,55	●	8,49	●	9,05	-	-	-	-	-	-	-	-	-	-
03,50	07		3,0	0,3	05	●	5,70	●	6,15	●	6,52	●	7,17	●	7,76	●	8,76	●	9,44	-	-	-	-	-	-	-	-	-	-
03,70	07		3,0	0,3	05	●	6,17	●	6,77	●	7,00	●	7,89	●	8,41	●	10,38	●	12,56	-	-	-	-	-	-	-	-	-	-
04,00	08		3,0	0,3	05	●	4,77	●	5,03	●	5,23	●	5,75	●	6,15	●	7,00	●	8,79	●	10,24	-	-	-	-	-	-	-	-
04,20	08	+ 0,03	3,0	0,3	05	●	6,05	●	6,52	●	6,81	●	7,68	●	8,33	●	9,70	●	11,84	-	-	-	-	-	-	-	-	-	
04,50	08		3,0	0,3	05	●	6,45	●	6,69	●	7,04	●	7,85	●	8,59	●	10,14	●	12,61	-	-	-	-	-	-	-	-	-	
05,00	10		3,0	0,3	05	●	5,18	●	5,44	●	5,89	●	6,38	●	7,06	●	7,79	●	9,96	●	10,95	●	12,71	-	-	-	-	-	-
05,20	10		3,0	0,3	05	●	6,50	●	6,93	●	7,25	●	8,31	●	9,22	●	10,40	●	13,76	●	18,52	-	-	-	-	-	-	-	-
05,50	10		3,0	0,3	06	●	6,93	●	7,31	●	7,58	●	8,57	●	9,90	●	11,04	●	14,40	●	19,29	-	-	-	-	-	-	-	-
06,00	12		5,0	0,5	06	●	5,31	●	5,89	●	6,33	●	6,88	●	7,83	●	8,95	●	11,56	●	15,47	●	20,37	-	-	-	-	-	-
06,20	12		5,0	0,5	06	●	7,15	●	7,65	●	8,26	●	9,85	●	11,56	●	12,80	●	17,09	●	21,07	-	-	-	-	-	-	-	-
06,50	12		5,0	0,5	08	●	7,74	●	8,57	●	8,87	●	10,49	●	12,50	●	14,10	●	19,07	●	23,14	-	-	-	-	-	-	-	-
07,00	12		5,0	0,5	08	●	8,13	●	8,91	●	9,42	●	11,04	●	12,97	●	14,52	●	19,82	●	24,23	●	30,26	-	-	-	-	-	-
08,00	14		5,0	0,5	08	●	5,97	●	6,78	●	7,41	●	8,47	●	9,98	●	10,77	●	15,04	●	18,52	●	22,37	●	-	-	-	-	-
08,20	14	+ 0,04	5,0	0,5	08	●	10,19	●	10,79	●	11,43	●	13,26	●	15,10	●	17,64	●	23,00	●	28,95	●	36,27	-	-	-	-	-	
08,50	14		5,0	0,5	10	●	10,49	●	11,22	●	11,91	●	13,91	●	16,00	●	18,55	●	24,23	●	30,43	●	37,53	-	-	-	-	-	-
09,00	14		5,0	0,5	10	●	11,15	●	11,70	●	12,71	●	14,35	●	16,42	●	19,16	●	25,17	●	31,66	●	39,40	-	-	-	-	-	-
10,00	16		5,0	0,5	10	●	7,72	●	8,53	●	9,42	●	11,66	●	12,97	●	14,77	●	21,74	●	27,18	●	33,04	●	-	-	-	-	-
10,20	16		5,0	0,5	10	●	13,11	●	13,81	●	14,81	●	17,58	●	19,88	●	23,38	●	30,12	●	36,84	●	45,54	-	-	-	-	-	-
10,50	16		5,0	0,5	12	●	14,23	●	14,88	●	16,07	●	19,07	●	21,74	●	24,40	●	32,75	●	40,09	●	49,49	-	-	-	-	-	-
11,00	16		5,0	0,5	12	●	15,04	●	15,77	●	16,97	●	20,21	●	22,67	●	25,87	●	34,50	●	42,23	●	52,09	-	-	-	-	-	-
12,00	20		7,0	0,8	12	●	10,32	●	11,96	●	13,58	●	16,71	●	20,54	●	22,60	●	29,32	●	37,30	●	45,24	●	-	-	-	-	-
12,20	20		7,0	0,8	12	●	12,60	●	15,50	●	17,51	●	19,50	●	21,83	●	25,60	●	34,37	●	44,32	●	53,04	●	-	-	-	-	-
12,50	20		7,0	0,8	14	●	12,56	●	15,49	●	17,51	●	19,48	●	21,83	●	25,60	●	34,37	●	44,32	●	53,04	●	-	-	-	-	-
14,00	22	7,0	0,8	14	●	14,33	●	18,84	●	19,34	●	19,50	●	25,02	●	27,58	●	37,43	●	46,13	●	57,95	●	-	-	-	-	-	
16,00	22	7,0	0,8	16	●	16,78	●	20,69	●	21,53	●	26,01	●	29,68	●	33,35	●	42,60	●	55,16	●	72,45	●	-	-	-	-	-	
18,00	24	+ 0,07	7,0	0,8	18	●	31,98	●	35,98	●	36,95	●	44,46	●	51,11	●	61,60	●	86,87	●	111,92	●	136,68	●	-	-	-	-	-
20,00	26		8,0	1,0	20	-	-	27,73	●	25,66	●	35,27	●	41,06	●	49,22	●	69,80	●	89,34	●	110,12	●	-	-	-	-	-	-
25,00	32	+ 0,1	10,0	1,0	25	-	-	-	49,30	●	58,99	●	70,90	●	82,90	●	100,53	●	128,64	●	159,81	●	-	-	-	-	-	-	-
32,00	40		10,0	1,0	32	-	-	-	-	100,29	●	112,43	●	127,20	●	167,91	●	209,98	●	258,25	●	-	-	-	-	-	-	-	-