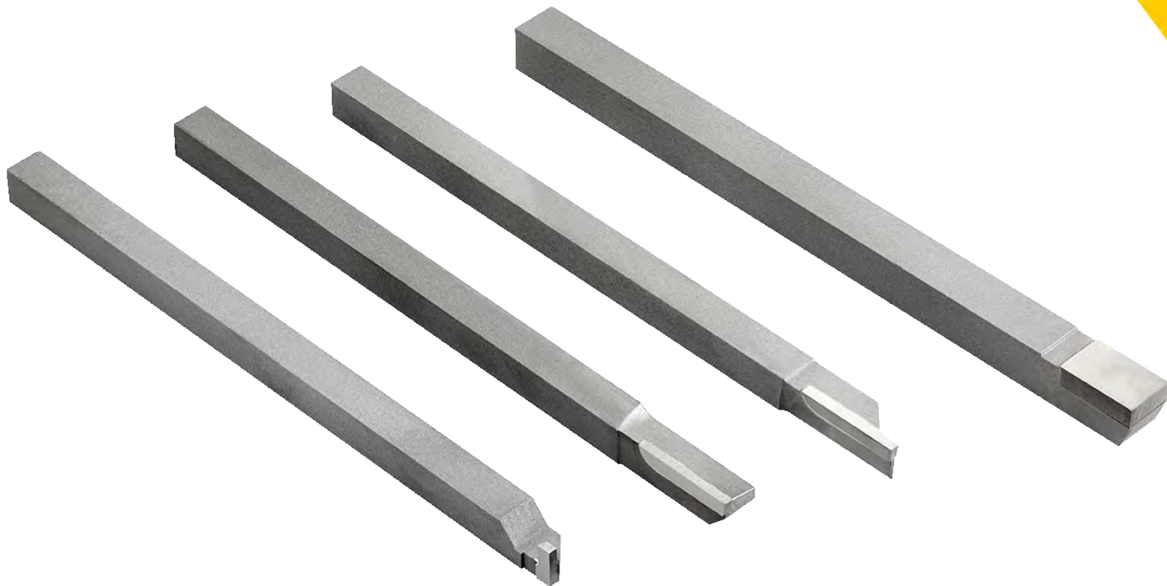









4 HM gelötete Stähle

4.3 HM gelötete Stähle



HM gelötete Stähle

Tabelle der Sorten						
Sorte	Härte HV30	Verschleissfestigkeit	Körnung (µm)	Bruchfestigkeit (N/mm ²)	Gruppe ISO	Anwendungen
UF-A		1900	XXXXXX	0.50	3700	K01 - K05 Alu, Messing, Bronze, Kupfer, Stahl, 20AP (auch für Schichten im rostfreien Stahl)
UF-B		1700	XXXXX	0.50 - 0.60	3800	K10 - K20 Alu, Messing, Bronze, Kupfer, Stahl, 20AP (auch für Schichten im rostfreien Stahl) FH, FHP Stahl, Konstr. Stahl, AC37-2, AC50-2, CK45, Gold
H10-F		1600	XXXX	0.60 - 0.80	4300	K10 - K30 Schwer zerspannbarer Stahl (316L, 904L) ETG25, ETG88, Einsatzstähle, Gold, Titan
VR-52		1750	XXXX	0.60 - 0.80	2600	K05 - K15 Brass, Alu, Konstr. Stahl, Automatenstahl, Schichten allgemein
B-18		1600	XXXX	0.60 - 0.80	3800	K20 - K30 Rostfreie Stähle schwer zerspannbarer Stahl, Legierter Stahl, Titan
Ramet-1		1650	XXX	0.80	3200	K15 - K40 Allg. hohe Zerspannbarkeit, geeignet für Roh- und Halbfertigung mit hohem Spannhub
C-895		1650	XXX	0.80	2600	K15 - K40 Messing, Alu, Konstr. Stahl, Automatenstahl
B-4		2000	XXXXX	0.15	3000	K01 - K05 Ungehärtete Kupfer, Bronze, Inox 4C27A, Messing 60Pb20, Titan, alle Marterialen welche kleben auf Werkzeug.

Sehr weich = Rm : 20 - 150 N/mm²
 Weich = Rm : 150 - 300 N/mm²
 Halb-hart = Rm : 300 - 600 N/mm²
 Hart = Rm : 600 - 800 N/mm²
 Sehr hart = Rm : >700 N/mm²
 (Rm = Zugfestigkeit)

Erklärung :

XXXXXX = hohe Verschleissfestigkeit

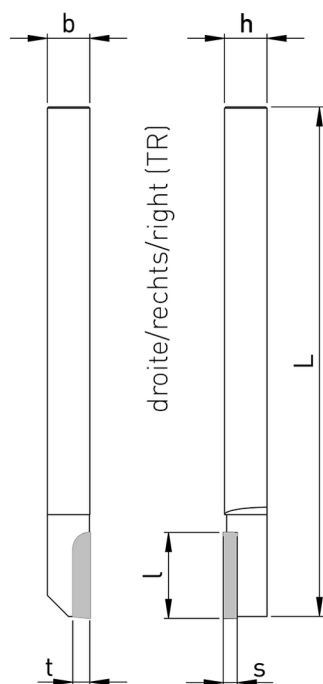
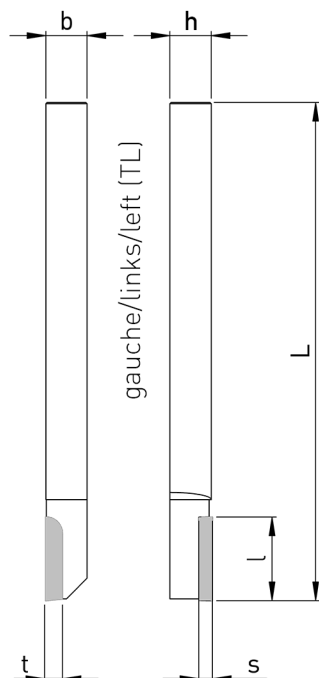
X = schlechte Verschleissfestigkeit

HM gelötete Stähle

Drehstähle (links oder rechts)



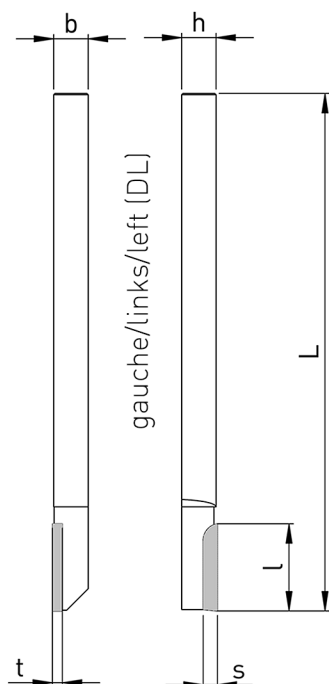
HM gelötete Stähle



Links Art. Nr	Rechts Art. Nr	h x b	l x t x s	L
Drehstahl 6 x 6				
TL060300	TR060300	6 x 6	20 x 3 x 2	120.00
Drehstahl 7 x 7				
TL070300	TR070300	7 x 7	20 x 3 x 2	140.00
TL070400	TR070400	7 x 7	20 x 4 x 3	140.00
TL070500	TR070500	7 x 7	20 x 5 x 3	140.00
TL070600	TR070600	7 x 7	20 x 6 x 3	140.00
Drehstahl 8 x 8				
TL080300	TR080300	8 x 8	20 x 3 x 2	140.00
TL080400	TR080400	8 x 8	20 x 4 x 3	140.00
TL080500	TR080500	8 x 8	20 x 5 x 3	140.00
TL080600	TR080600	8 x 8	20 x 6 x 3	140.00
Drehstahl 10 x 10				
TL100400	TR100400	10 x 10	20 x 4 x 3	150.00
TL100500	TR100500	10 x 10	20 x 5 x 3	150.00
TL100600	TR100600	10 x 10	20 x 6 x 3	150.00
Drehstahl 12 x 12				
TL120400	TR120400	12 x 12	20 x 4 x 3	150.00
TL120500	TR120500	12 x 12	20 x 5 x 3	150.00
TL120600	TR120600	12 x 12	20 x 6 x 3	150.00
Drehstahl 14 x 14				
TL140400	TR140400	14 x 14	20 x 4 x 3	150.00
TL140500	TR140500	14 x 14	20 x 5 x 3	150.00
TL140600	TR140600	14 x 14	20 x 6 x 3	150.00
TL140800	TR140800	14 x 14	20 x 8 x 4	150.00
Drehstahl 16 x 16				
TL160400	TR160400	16 x 16	20 x 4 x 3	150.00
TL160500	TR160500	16 x 16	20 x 5 x 3	150.00
TL160600	TR160600	16 x 16	20 x 6 x 3	150.00
TL160800	TR160800	16 x 16	20 x 8 x 4	150.00
Drehstahl 20 x 20				
TL200400	TR200400	20 x 20	20 x 4 x 3	150.00
TL200500	TR200500	20 x 20	20 x 5 x 3	150.00
TL200600	TR200600	20 x 20	20 x 6 x 3	150.00
TL200800	TR200800	20 x 20	20 x 8 x 4	150.00
TL201000	TR201000	20 x 20	20 x 10 x 4	150.00

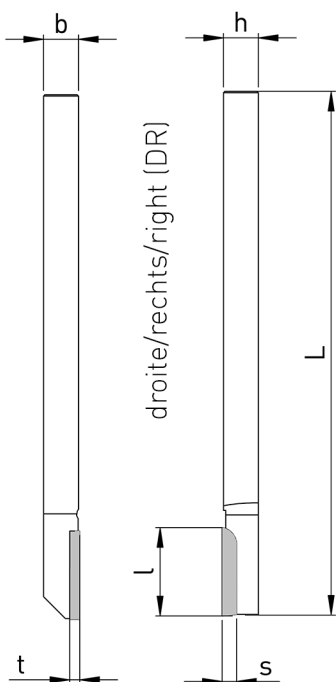
HM gelötete Stähle

Sonderstähle (links oder rechts)



Links Art. Nr	Rechts Art. Nr	h x b	l x s x t	L
Sonderstahl 6 x 6				
DL060150	DR060150	6 x 6	20 x 3 x 2	120.00
Sonderstahl 7 x 7				
DL070200	DR070200	7 x 7	20 x 3 x 2	140.00
Sonderstahl 8 x 8				
DL080200	DR080200	8 x 8	20 x 3 x 2	140.00
Sonderstahl 10 x 10				
DL100300	DR100300	10 x 10	20 x 4 x 3	150.00
Sonderstahl 12 x 12				
DL120300	DR120300	12 x 12	20 x 4 x 3	150.00
Sonderstahl 14 x 14				
DL140300	DR140300	14 x 14	20 x 4 x 3	150.00

4 HM gelötete Stähle

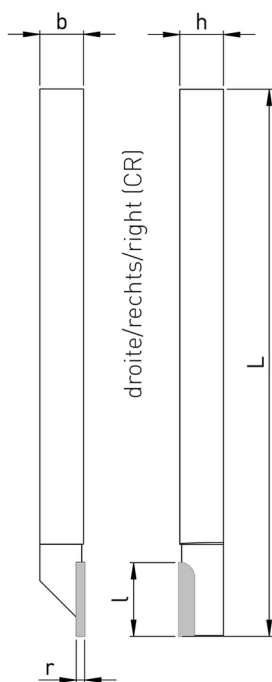
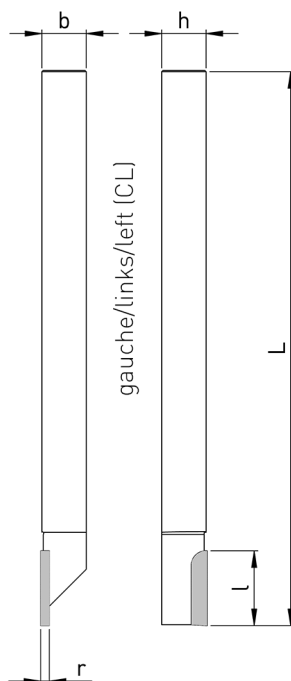


HM gelötete Stähle

Einsteichstähle (links oder rechts)



HM gelötete Stähle

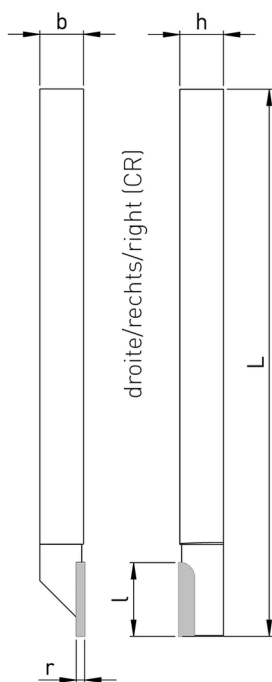
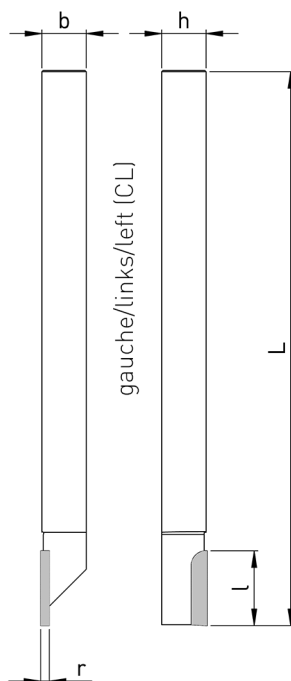


Links Art. Nr	Rechts Art. Nr	h x b	l	r	L
Einsteichstahl 6 x 6					
CL060125	CR060125	6 x 6	20.00	1.25	120.00
CL060150	CR060150	6 x 6	20.00	1.50	120.00
CL060175	CR060175	6 x 6	20.00	1.75	120.00
Einsteichstahl 6 x 6					
CL060200	CR060200	6 x 6	20.00	2.00	120.00
Einsteichstahl 6 x 6					
CL060250	CR060250	6 x 6	20.00	2.50	120.00
CL060300	CR060300	6 x 6	20.00	3.00	120.00
Einsteichstahl 7 x 7					
CL070100	CR070100	7 x 7	20.00	1.00	140.00
CL070125	CR070125	7 x 7	20.00	1.25	140.00
CL070150	CR070150	7 x 7	20.00	1.50	140.00
CL070175	CR070175	7 x 7	20.00	1.75	140.00
CL070200	CR070200	7 x 7	20.00	2.00	140.00
CL070225	CR070225	7 x 7	20.00	2.25	140.00
CL070250	CR070250	7 x 7	20.00	2.50	140.00
CL070300	CR070300	7 x 7	20.00	3.00	140.00
CL070400	CR070400	7 x 7	20.00	4.00	140.00
CL070500	CR070500	7 x 7	20.00	5.00	140.00
Einsteichstahl 8 x 8					
CL080100	CR080100	8 x 8	20.00	1.00	140.00
CL080125	CR080125	8 x 8	20.00	1.25	140.00
CL080150	CR080150	8 x 8	20.00	1.50	140.00
CL080175	CR080175	8 x 8	20.00	1.75	140.00
CL080200	CR080200	8 x 8	20.00	2.00	140.00
CL080225	CR080225	8 x 8	20.00	2.25	140.00
CL080250	CR080250	8 x 8	20.00	2.50	140.00
CL080275	CR080250	8 x 8	20.00	2.75	140.00
CL080300	CR080300	8 x 8	20.00	3.00	140.00
CL080350	CR080350	8 x 8	20.00	3.50	140.00
CL080400	CR080400	8 x 8	20.00	4.00	140.00
CL080500	CR080500	8 x 8	20.00	5.00	140.00
CL080600	CR080600	8 x 8	20.00	6.00	140.00
Einsteichstahl 10 x 10					
CL100150	CR100150	10 x 10	20.00	1.50	150.00
CL100175	CR100175	10 x 10	20.00	1.75	150.00
CL100200	CR100200	10 x 10	20.00	2.00	150.00
CL100225	CR100225	10 x 10	20.00	2.25	150.00
CL100250	CR100250	10 x 10	20.00	2.50	150.00
CL100275	CR100275	10 x 10	20.00	2.75	150.00
CL100300	CR100300	10 x 10	20.00	3.00	150.00
CL100350	CR100350	10 x 10	20.00	3.50	150.00
CL100400	CR100400	10 x 10	20.00	4.00	150.00
CL100500	CR100500	10 x 10	20.00	5.00	150.00

HM gelötete Stähle

Einsteichstähe (links oder rechts)

Folge ...



Links Art. Nr	Rechts Art. Nr	h x b	l	r	L
Einsteichstahl 10 x 10					
CL100600	CR100600	10 x 10	20.00	6.00	150.00
CL100800	CR100800	10 x 10	20.00	8.00	150.00
Einsteichstahl 12 x 12					
CL120150	CR120150	12 x 12	20.00	1.50	150.00
CL120175	CR120175	12 x 12	20.00	1.75	150.00
CL120200	CR120200	12 x 12	20.00	2.00	150.00
CL120225	CR120225	12 x 12	20.00	2.25	150.00
CL120250	CR120250	12 x 12	20.00	2.50	150.00
CL120275	CR120275	12 x 12	20.00	2.75	150.00
CL120300	CR120300	12 x 12	20.00	3.00	150.00
CL120350	CR120350	12 x 12	20.00	3.50	150.00
CL120400	CR120400	12 x 12	20.00	4.00	150.00
CL120500	CR120500	12 x 12	20.00	5.00	150.00
CL120600	CR120600	12 x 12	20.00	6.00	150.00
CL120800	CR120800	12 x 12	20.00	8.00	150.00
CL121000	CR121000	12 x 12	20.00	10.00	150.00
Einsteichstahl 14 x 14					
CL140200	CR140200	14 x 14	20.00	2.00	150.00
CL140250	CR140250	14 x 14	20.00	2.50	150.00
CL140300	CR140300	14 x 14	20.00	3.00	150.00
CL140350	CR140350	14 x 14	20.00	3.50	150.00
CL140400	CR140400	14 x 14	20.00	4.00	150.00
CL140500	CR140500	14 x 14	20.00	5.00	150.00
CL140600	CR140600	14 x 14	20.00	6.00	150.00
CL140800	CR140800	14 x 14	20.00	8.00	150.00
CL141000	CR141000	14 x 14	20.00	10.00	150.00
CL141200	CR141200	14 x 14	20.00	12.00	150.00
Einsteichstahl 16 x 16					
CL160200	CR160200	16 x 16	20.00	2.00	150.00
CL160250	CR160250	16 x 16	20.00	2.50	150.00
CL160300	CR160300	16 x 16	20.00	3.00	150.00
CL160400	CR160400	16 x 16	20.00	4.00	150.00
CL160500	CR160500	16 x 16	20.00	5.00	150.00
CL160600	CR160600	16 x 16	20.00	6.00	150.00
CL160800	CR160800	16 x 16	20.00	8.00	150.00
CL161000	CR161000	16 x 16	20.00	10.00	150.00
CL161200	CR161200	16 x 16	20.00	12.00	150.00
Einsteichstahl 20 x 20					
CL200300	CR200300	20 x 20	20.00	3.00	150.00
CL200400	CR200400	20 x 20	20.00	4.00	150.00
CL200500	CR200500	20 x 20	20.00	5.00	150.00
CL200600	CR200600	20 x 20	20.00	6.00	150.00

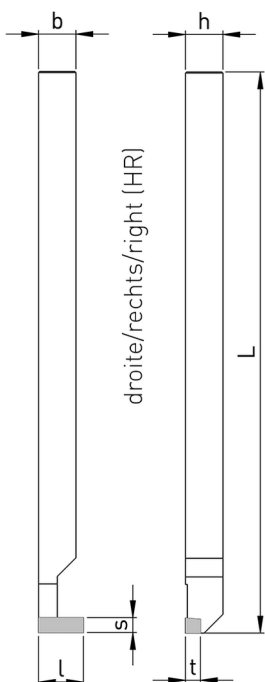
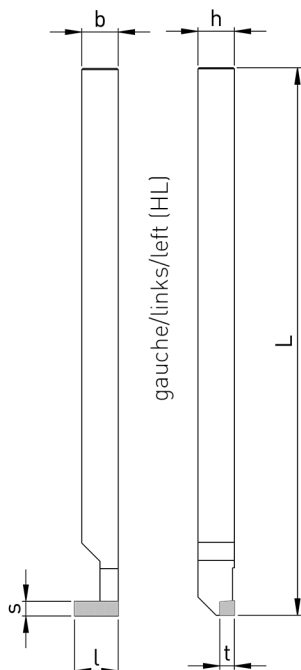
HM gelötete Stähle

HM gelötete Stähle

Hackenstähle (links oder rechts)



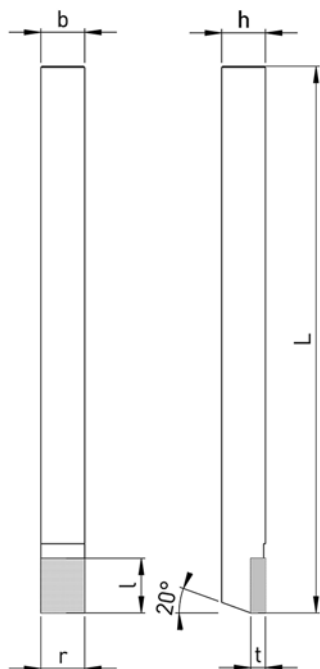
HM gelötete Stähle



Links Art. Nr	Rechts Art. Nr	h x b	l x s x t	l
Hakenstahl 6 x 6				
HL060250	HR060250	6 x 6	6.50 x 2.50 x 2.00	120.00
Hakenstahl 7 x 7				
HL070250	HR070250	7 x 7	7.50 x 2.50 x 2.00	140.00
HL070300	HR070300	7 x 7	7.50 x 3.00 x 2.00	140.00
HL070350	HR070350	7 x 7	7.50 x 3.50 x 3.00	140.00
HL070400	HR070400	7 x 7	7.50 x 4.00 x 3.00	140.00
Hakenstahl 8 x 8				
HL080250	HR080250	8 x 8	8.50 x 2.50 x 2.00	140.00
HL080300	HR080300	8 x 8	8.50 x 3.00 x 2.00	140.00
HL080350	HR080350	8 x 8	8.50 x 3.50 x 3.00	140.00
HL080400	HR080400	8 x 8	8.50 x 4.00 x 3.00	140.00
Hakenstahl 10 x 10				
HL100250	HR100250	10 x 10	10.50 x 2.50 x	150.00
HL100300	HR100300	10 x 10	10.50 x 3.00 x	150.00
HL100350	HR100350	10 x 10	10.50 x 3.50 x	150.00
HL100400	HR100400	10 x 10	10.50 x 4.00 x	150.00
Hakenstahl 12 x 12				
HL120300	HR120300	12 x 12	12.50 x 3.00 x	150.00
HL120400	HR120400	12 x 12	12.50 x 4.00 x	150.00
HL120500	HR120500	12 x 12	12.50 x 5.00 x	150.00
Hakenstahl 14 x 14				
HL140300	HR140300	14 x 14	14.50 x 3.00 x	150.00
HL140400	HR140400	14 x 14	14.50 x 4.00 x	150.00
HL140500	HR140500	14 x 14	14.50 x 5.00 x	150.00
HL140600	HR140600	14 x 14	14.50 x 6.00 x	150.00

HM gelötete Stähle

Kopfstähle



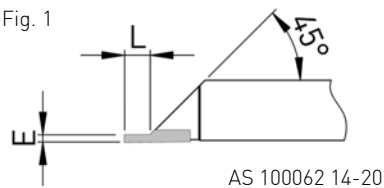
Art. Nr	h x b	l	r	t	L
PE060600	6 x 6	15.00	6.00	3.00	120.00
PE070700	7 x 7	15.00	7.00	3.00	140.00
PE080800	8 x 8	15.00	8.00	3.00	140.00
PE101000	10 x 10	15.00	10.00	4.00	150.00
PE101200	10 x 12	15.00	12.00	4.00	150.00
PE101400	10 x 14	15.00	14.00	4.00	150.00
PE102000	10 x 20	15.00	20.00	4.00	150.00
PE121200	12 x 12	15.00	12.00	4.00	150.00
PE121400	12 x 14	15.00	14.00	4.00	150.00
PE121600	12 x 16	15.00	16.00	4.00	150.00
PE121800	12 x 18	15.00	18.00	4.00	150.00
PE122000	12 x 20	15.00	20.00	4.00	150.00
PE122500	12 x 25	15.00	25.00	4.00	150.00
PE141400	14 x 14	15.00	14.00	4.00	150.00
PE161200	16 x 12	15.00	12.00	4.00	150.00
PE161600	16 x 16	15.00	16.00	4.00	150.00
PE162000	16 x 20	15.00	20.00	4.00	150.00
PE162500	16 x 25	15.00	25.00	4.00	150.00
PE163000	16 x 30	15.00	30.00	4.00	150.00
PE181800	18 x 18	15.00	18.00	4.00	150.00
PE201000	20 x 10	15.00	10.00	4.00	150.00
PE201400	20 x 14	15.00	14.00	4.00	150.00
PE201600	20 x 16	15.00	16.00	4.00	150.00
PE201800	20 x 18	15.00	18.00	4.00	150.00
PE202000	20 x 20	15.00	20.00	4.00	150.00
PE202500	20 x 25	15.00	25.00	4.00	150.00
PE203000	20 x 30	15.00	30.00	4.00	150.00
PE203500	20 x 35	15.00	35.00	4.00	150.00
PE252500	25 x 25	15.00	25.00	4.00	150.00

HM gelötete Stähle

HM gelötete Stähle

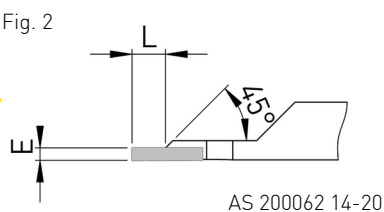
Stähle für Tornos AS 14 / SAS 16

Fig. 1



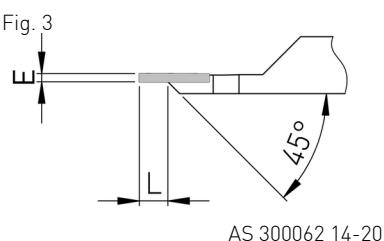
AS 100062 14-20

Fig. 2



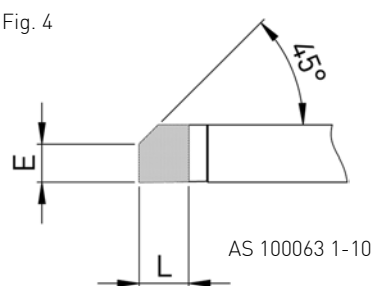
AS 200062 14-20

Fig. 3



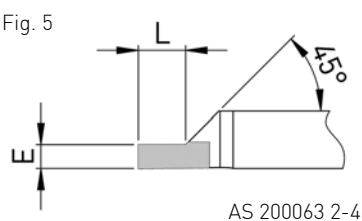
AS 300062 14-20

Fig. 4



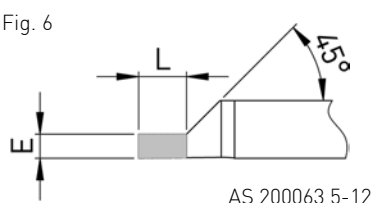
AS 100063 1-10

Fig. 5



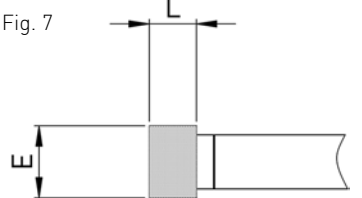
AS 200063 2-4

Fig. 6

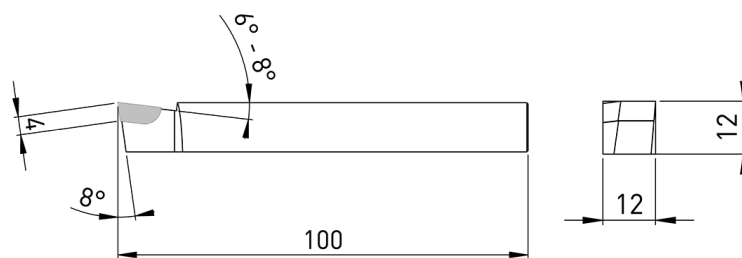


AS 200063 5-12

Fig. 7



AS 200063-14



HM gelötete Stähle

Art. Nr	E	L	Fig.
AS100062-14	1.40	6.00	1
AS100062-16	1.60	7.00	1
AS100062-18	1.80	8.00	1
AS100062-20	2.00	8.00	1
AS200062-14	1.40	6.00	2
AS200062-16	1.60	7.00	2
AS200062-18	1.80	7.00	2
AS200062-20	2.00	7.00	2
AS300062-14	1.40	6.00	3
AS300062-16	1.60	7.00	3
AS300062-18	1.80	7.00	3
AS300062-20	2.00	7.00	3
AS100063-1	1.00	10.00	4
AS100063-2	2.00	10.00	4
AS100063-3	3.00	10.00	4
AS100063-4	4.00	10.00	4
AS100063-5	5.00	10.00	4
AS100063-6	6.00	10.00	4
AS100063-8	8.00	10.00	4
AS100063-10	10.00	10.00	4
AS200063-2	2.00	8.00	5
AS200063-3	3.00	8.00	5
AS200063-4	4.00	8.00	5
AS200063-5	5.00	10.00	6
AS200063-6	6.00	10.00	6
AS200063-7	7.00	10.00	6
AS200063-8	8.00	10.00	6
AS200063-9	9.00	10.00	6
AS200063-10	10.00	10.00	6
AS200063-12	12.00	10.00	6
AS200063-14	14.00	10.00	7