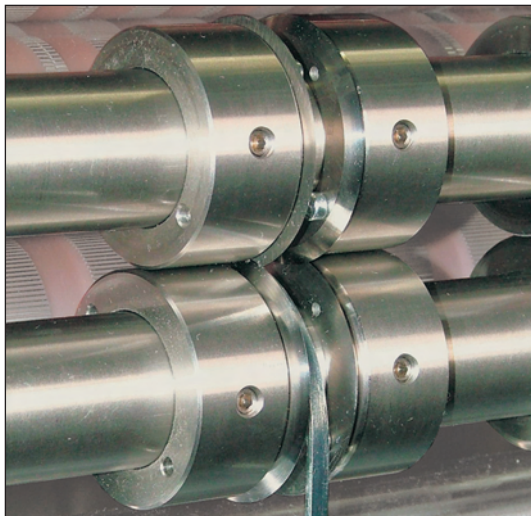
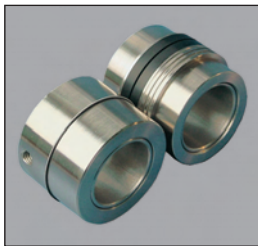


Schneiden
Perforieren
Rillen
Krimpen

Cutting
Perforating
Creasing
Crimping



Notizen ***Notices***



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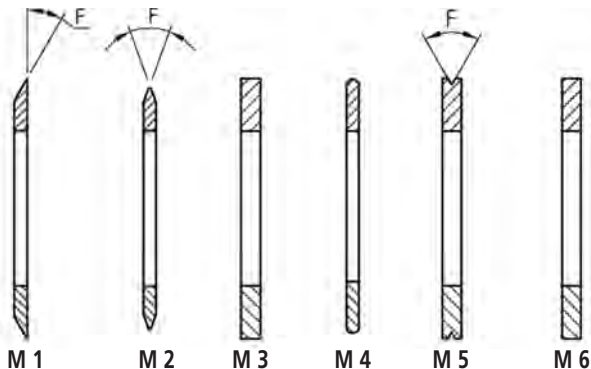
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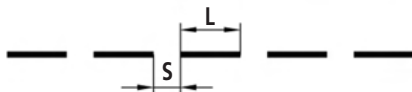
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Erläuterungen *Explanations*

Messerformen M / *Knife shapes*



L = Schnitt ca., S = Steg ca., / L = Slots approx, S = Distance slots approx



Perforiereinrichtung komplett



perforation unit complete

Perforiereinrichtung in der Maschine

Perforation unit fitted to the machine



Krimpeinrichtung komplett



crimp-lock unit complete

Mikroperforation komplett



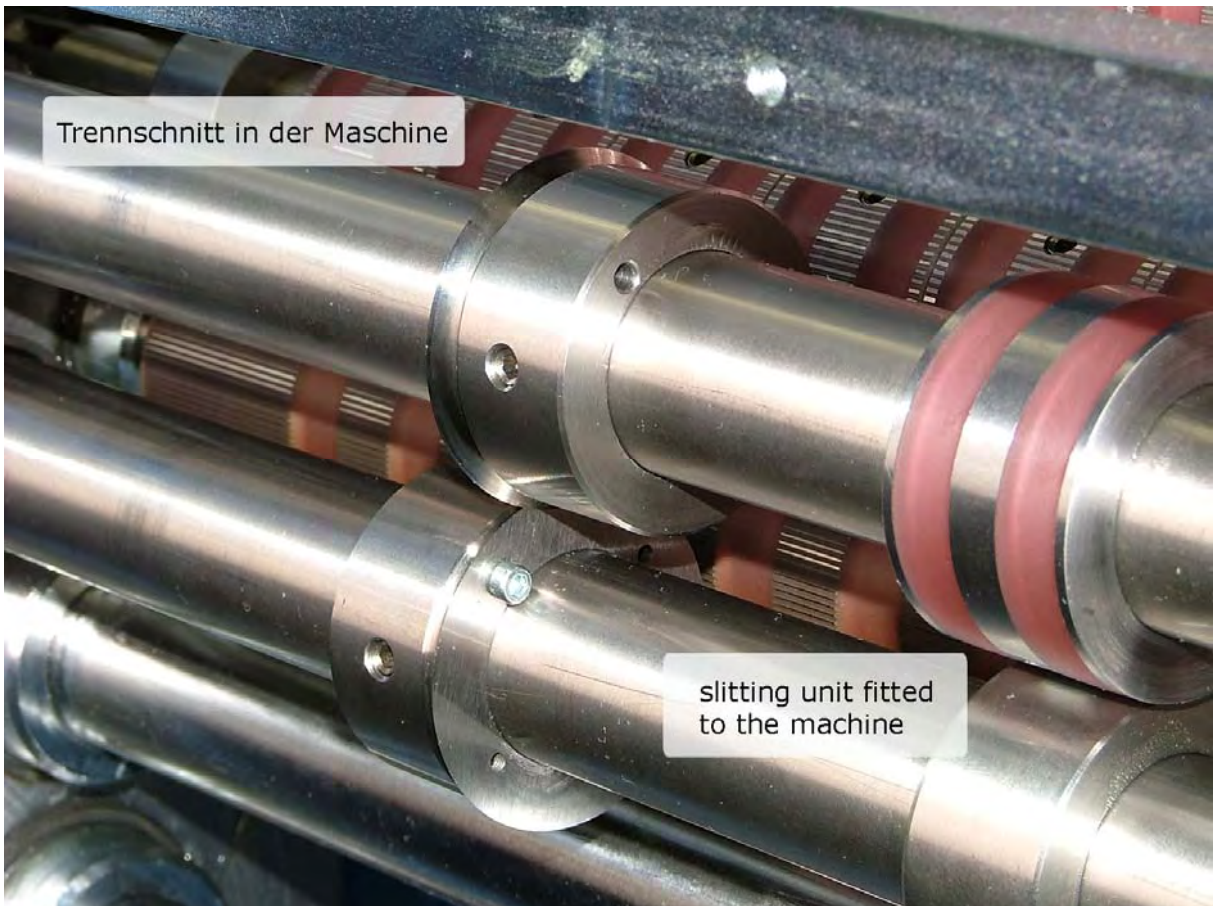
micro perforation unit complete

Trennschnitteinrichtung komplett



slitting unit complete

Trennschnitt in der Maschine

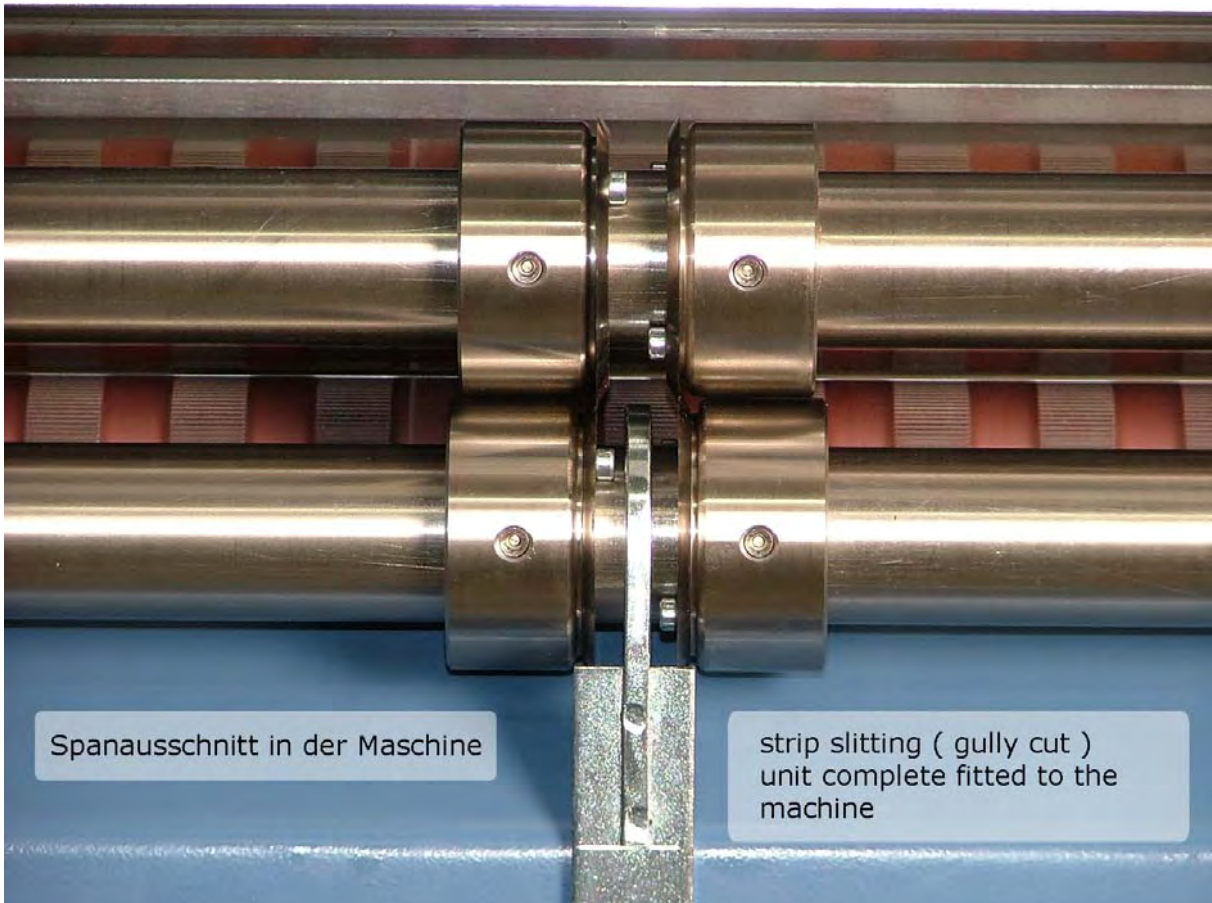


slitting unit fitted
to the machine

Spanausschnitt komplett



strip slitting (gully cut) unit complete



Spanausschnitt in der Maschine

strip slitting (gully cut)
unit complete fitted to the
machine

Randbeschnitteinrichtung komplett



Head and tail slitting unit complete



Randbeschnitteinrichtung
in der Maschine

head and tail slitting unit
fitted in the machine

M7 Nuteinrichtung komplett



M7 creasing unit complete

Nuteinrichtung in der Maschine

creasing unit fitted to the machine

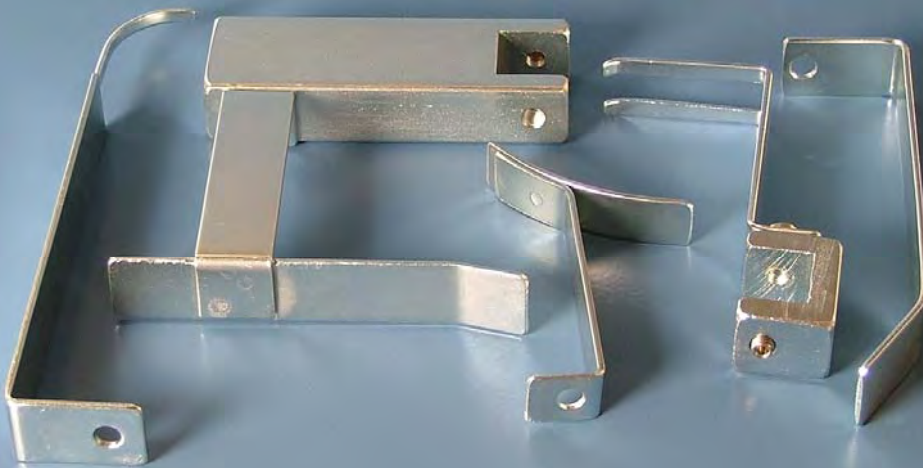


Universal Nuteinrichtung komplett



Universal creasing unit complete

Verschiedene Abweiser für
Perforier,-Span,-Randbeschnitt



Different stripper for perforator,-
creasing,-head and tail slitting

Erläuterungen

Explanations



Außendurchmesser	A
Innendurchmesser Messerwerkzeug	I
Materialstärke	ST
Messerform	M
Schnittwinkel	F
Schnitt ca.	L
Steg ca.	S
Anzahl der Zähne	Z
Bestell-Nr.	ID-Nr.
Ø Messerwellen	20 bis 50
Maße in mm	

<i>Outer diameter</i>	<i>A</i>
<i>Inner diameter knife tool</i>	<i>I</i>
<i>Thickness</i>	<i>ST</i>
<i>Knife shape</i>	<i>M</i>
<i>True cutting angle</i>	<i>F</i>
<i>Slots approx.</i>	<i>L</i>
<i>Distance slots approx.</i>	<i>S</i>
<i>Number of teeth</i>	<i>Z</i>
<i>Order-No.</i>	<i>ID-Nr.</i>
<i>Ø Cutter shafts</i>	<i>20 up to 50</i>
<i>Dimensions in mm</i>	

20 I = 20 mm Ø für/for KL 112 + KL 212

25 I = 25 mm Ø für/for M 7.32

30 I = 30 mm Ø für/for M 7.40/46, 281, 291

35 I = 40 mm Ø für/for M 7.46, 381, 382, 392

40 I = 43 mm Ø für/for M 7.46, 381, 382, 392 ab/from 100 cm

45 I = 50 mm Ø für/for M 7.58

50 I = 50 mm Ø für/for M 7.64

Perforiermesser Perforating blades

20

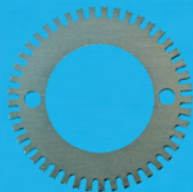
$l = 20 \text{ mm } \varnothing$



A	I	ST	M
35	20	0,5	1

F	L	S	Z
16°	16,3	2	6

ID-Nr. 510058



A	I	ST	M
35	20	0,5	3

F	L	S	Z
-	1,44	1	45

ID-Nr. 510075



A	I	ST	M
35	20	0,5	1

F	L	S	Z
16°	7,16	2	12

ID-Nr. 510059



A	I	ST	M
34	20	0,5	1

F	L	S	Z
16°	1,74	0,8	42

ID-Nr. 510135



A	I	ST	M
35	20	0,5	1

F	L	S	Z
16°	3	2	22

ID-Nr. 510060



A	I	ST	M
33	20	0,5	1

F	L	S	Z
16°	1,57	0,82	42

ID-Nr. 510161

Perforiermesser Perforating blades

20

I = 20 mm \varnothing



A	I	ST	M
33	20	0,5	1

F	L	S	Z
16°	3	2	20

ID-Nr. 510192



A	I	ST	M
35	20	0,5	1

F	L	S	Z
16°	1,98	0,41	42

ID-Nr. 510234

Schneidmesser / Cutting blades



A	I	ST	M
34	20	2	1

F	L	S	Z
45°	-	-	-

ID-Nr. 510102



A	I	ST	M
35,5	20	2	1

F	L	S	Z
30°	-	-	-

ID-Nr. 510187

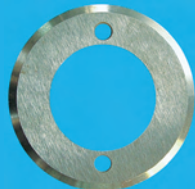
Rillmesser / Creasing blades



A	I	ST	M
35,5	20	1	1

F	L	S	Z
30°	-	-	-

ID-Nr. 510259



A	I	ST	M
33,5	20	2	2

F	L	S	Z
40°	-	-	-

ID-Nr. 510057

Perforiermesser

Perforating blades

25

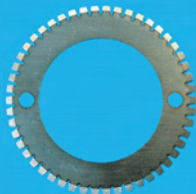
$l = 25 \text{ mm } \varnothing$



A	I	ST	M
39,5	25	0,5	1

F	L	S	Z
45°	4,2	1,5	20

ID-Nr. 510337



A	I	ST	M
38,5	25	0,5	1

F	L	S	Z
20°	1,6	0,7	50

ID-Nr. 510338



A	I	ST	M
38,5	25	0,5	1

F	L	S	Z
30°	1,7	0,6	50

ID-Nr. 510339



A	I	ST	M
38,5	25	0,5	1

F	L	S	Z
45°	1,2	1,1	50

ID-Nr. 510340



A	I	ST	M
36,6	25	2	3

F	L	S	Z
-	-	-	-

ID-Nr. 510330

Schneidmesser *Cutting blades*

25

l = 25 mm \emptyset



A	I	ST	M
38,5	25	1	1

F	L	S	Z
30°	-	-	-

ID-Nr. 510331



A	I	ST	M
38,5	25	2	1

F	L	S	Z
45°	-	-	-

ID-Nr. 510332

Rillmesser / *Creasing blades*



A	I	ST	M
38	25	2	2

F	L	S	Z
40°	-	-	-

ID-Nr. 510335

Perforiermesser Perforating blades

30

l = 30 mm ø



A	I	ST	M
49	30	0,5	1

F	L	S	Z
16°	21,5	2,5	6

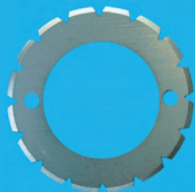
ID-Nr. 510039



A	I	ST	M
49	30	0,5	1

F	L	S	Z
16°	12	2,5	10

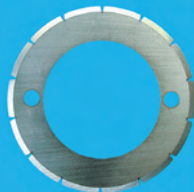
ID-Nr. 510040



A	I	ST	M
49	30	0,5	1

F	L	S	Z
16°	6,5	2,5	16

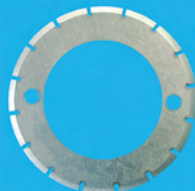
ID-Nr. 510041



A	I	ST	M
48	30	0,5	1

F	L	S	Z
16°	9,8	1	14

ID-Nr. 510142



A	I	ST	M
48	30	0,5	1

F	L	S	Z
16°	8	1	16

ID-Nr. 510143



A	I	ST	M
49	30	0,5	1

F	L	S	Z
16°	2,5	2,5	28

ID-Nr. 510042

Perforiermesser Perforating blades

30

I = 30 mm ϕ



A	I	ST	M
49	30	0,5	1
F	L	S	Z
16°	3,3	1,3	30

ID-Nr. 510098



A	I	ST	M
49	30	0,5	1
F	L	S	Z
16°	2,8	1,5	34

ID-Nr. 510120



A	I	ST	M
48	30	0,5	1
F	L	S	Z
16°	2	1,8	40

ID-Nr. 510139



A	I	ST	M
49	30	0,5	1
F	L	S	Z
16°	2	1	48

ID-Nr. 510121



A	I	ST	M
49,5	30	0,5	1
F	L	S	Z
16°	2,25	1	48

ID-Nr. 510162



A	I	ST	M
48	30	0,5	1
F	L	S	Z
16°	2	1	50

ID-Nr. 510140

Perforiermesser

Perforating blades

30

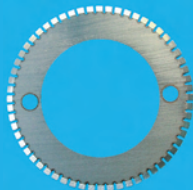
I = 30 mm ø



A	I	ST	M
48	30	0,5	1

F	L	S	Z
16°	2,4	0,5	50

ID-Nr. 510159



A	I	ST	M
48	30	0,5	1

F	L	S	Z
16°	1,7	0,8	60

ID-Nr. 510133



A	I	ST	M
49,5	30	0,5	1

F	L	S	Z
16°	1,8	0,8	60

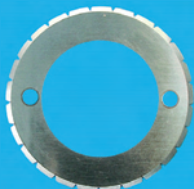
ID-Nr. 510163



A	I	ST	M
49	30	0,5	3

F	L	S	Z
-	0,8	1	80

ID-Nr. 510043



A	I	ST	M
48,8	30	0,5	1

F	L	S	Z
16°	5,68	0,8	25

ID-Nr. 510264



A	I	ST	M
48	30	0,5	1

F	L	S	Z
30°	1,4	0,69	70

ID-Nr. 510274

Perforiermesser Perforating blades

30

$l = 30 \text{ mm } \varnothing$



A	I	ST	M
49,5	30	0,5	1
F	L	S	Z
16°	1,05	0,61	50

ID-Nr. 510313



A	I	ST	M
52	30	0,8	3
F	L	S	Z
-	10,8	4,8	10

ID-Nr. 510250



A	I	ST	M
52	30	1,2	3
F	L	S	Z
-	10,8	4,8	10

ID-Nr. 510301

Schneidmesser Cutting blades

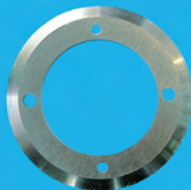
30

l = 30 mm ø



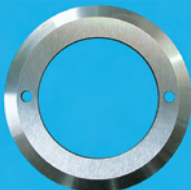
A	I	ST	M
49	30	1	1
F	L	S	Z
30°	-	-	-

ID-Nr. 510035



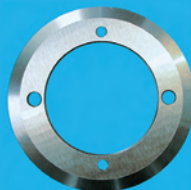
A	I	ST	M
49	30	2	1
F	L	S	Z
30°	-	-	-

ID-Nr. 510036



A	I	ST	M
48	30	2	1
F	L	S	Z
30°	-	-	-

ID-Nr. 510129



A	I	ST	M
51	30	2	1
F	L	S	Z
27,5°	-	-	-

ID-Nr. 510164



A	I	ST	M
46	30	1	3
F	L	S	Z
-	-	-	-

ID-Nr. 510038



A	I	ST	M
46	30	2	3
F	L	S	Z
-	-	-	-

ID-Nr. 510125

Schneidmesser Cutting blades

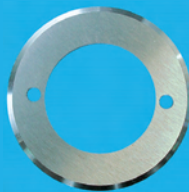
30

l = 30 mm \varnothing



A	I	ST	M
46	30	4	3
F	L	S	Z
-	-	-	-

ID-Nr. 510148



A	I	ST	M
51	30	1	1
F	L	S	Z
30°	-	-	-

ID-Nr. 510263



A	I	ST	M
49	30	1	1
F	L	S	Z
30°	-	-	-

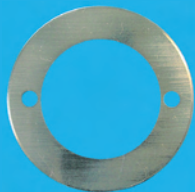
ID-Nr. 510273

Rillmesser

Creasing blades

30

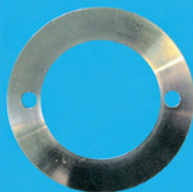
$l = 30 \text{ mm } \varnothing$



A	I	ST	M
47,5	30	0,5	6

F	L	S	Z
-	-	-	-

ID-Nr. 510037



A	I	ST	M
47,5	30	1	6

F	L	S	Z
-	-	-	-

ID-Nr. 510037-1



A	I	ST	M
47,5	30	2	6

F	L	S	Z
-	-	-	-

ID-Nr. 510037-2



A	I	ST	M
46,6	30	4	2

F	L	S	Z
60°	-	-	-

ID-Nr. 510152



A	I	ST	M
46	30	4	5

F	L	S	Z
60°	-	-	-

ID-Nr. 510153

Perforiermesser Perforating blades

35

I = 40 mm ø



A	I	ST	M
62	40	0,5	1

F	L	S	Z
16°	10,1	2,1	15

ID-Nr. 510207



A	I	ST	M
61,5	40	0,5	1

F	L	S	Z
16°	4,2	0,9	36

ID-Nr. 510208



A	I	ST	M
61,5	40	0,5	1

F	L	S	Z
16°	2,2	0,9	60

ID-Nr. 510209



A	I	ST	M
60,5	40	0,5	1

F	L	S	Z
16°	2	0,65	72

ID-Nr. 510210



A	I	ST	M
61,5	40	0,5	1

F	L	S	Z
16°	5,5	0,9	30

ID-Nr. 510270



A	I	ST	M
58,3	40	2	3

F	L	S	Z
-	-	-	-

ID-Nr. 510201

35

l = 40 mm ø



Perforiermesser Perforating blades



A	I	ST	M
58,3	40	4	3
F	L	S	Z
-	-	-	-

ID-Nr. 510202

Rillmesser / Creasing blades



A	I	ST	M
60	40	0,5	4
F	L	S	Z
-	-	-	-

ID-Nr. 510206



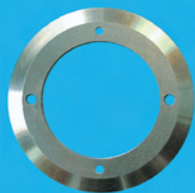
A	I	ST	M
60	40	0,5	4
F	L	S	Z
-	-	-	-

ID-Nr. 510212

Schneidmesser Cutting blades

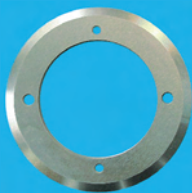
35

$l = 40 \text{ mm } \varnothing$



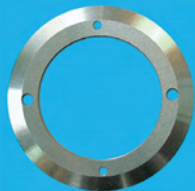
A	I	ST	M
65	40	2	1
F	L	S	Z
16°	-	-	-

ID-Nr. 510266



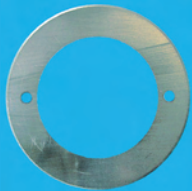
A	I	ST	M
65	40	2	1
F	L	S	Z
30°	-	-	-

ID-Nr. 510267



A	I	ST	M
62	40	2	1
F	L	S	Z
20°	-	-	-

ID-Nr. 510204



A	I	ST	M
62,5	40	0,5	1
F	L	S	Z
16°	-	-	-

ID-Nr. 510211



A	I	ST	M
62,5	40	0,5	1
F	L	S	Z
16°	-	-	-

ID-Nr. 510205



A	I	ST	M
53	40	4	3
F	L	S	Z
-	-	-	-

ID-Nr. 510203

Perforiermesser

Perforating blades

40

I = 43 mm \varnothing



A	I	ST	M
62	43	0,5	1

F	L	S	Z
16°	10,1	2,12	15

ID-Nr. 510390



A	I	ST	M
61,5	43	0,5	1

F	L	S	Z
16°	5,25	0,85	30

ID-Nr. 510391



A	I	ST	M
61,5	43	0,5	1

F	L	S	Z
16°	4,2	0,85	36

ID-Nr. 510392



A	I	ST	M
61,5	43	0,5	1

F	L	S	Z
16°	2,2	0,85	60

ID-Nr. 510393



A	I	ST	M
60,5	43	0,5	1

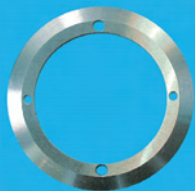
F	L	S	Z
16°	1,9	0,64	72

ID-Nr. 510394

Schneidmesser Cutting blades

40

I = 43 mm \varnothing



A	I	ST	M
62	43	2	1

F	L	S	Z
20°	-	-	-

ID-Nr. 510386



A	I	ST	M
58,3	43	4	3

F	L	S	Z
-	-	-	-

ID-Nr. 510396



A	I	ST	M
53	43	4	3

F	L	S	Z
-	-	-	-

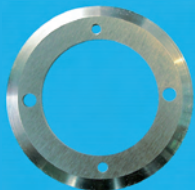
ID-Nr. 510398



A	I	ST	M
65	43	2	1

F	L	S	Z
30°	-	-	-

ID-Nr. 510387



A	I	ST	M
65	43	2	1

F	L	S	Z
16°	-	-	-

ID-Nr. 510388



A	I	ST	M
58,3	43	2	3

F	L	S	Z
-	-	-	-

ID-Nr. 510395

Rillmesser

Creasing blades

40

l = 43 mm \varnothing



A	I	ST	M
60	43	0,5	4

F	L	S	Z
-	-	-	-

ID-Nr. 510389



A	I	ST	M
57,3	43	4	5

F	L	S	Z
60°	-	-	-

ID-Nr. 510400

Perforiermesser Perforating blades

45/50

$l = 50 \text{ mm } \varnothing$



A	I	ST	M
71	50	0,5	1

F	L	S	Z
16°	10,9	2,3	16

ID-Nr. 510227



A	I	ST	M
71	50	0,5	1

F	L	S	Z
16°	3,5	1,6	41

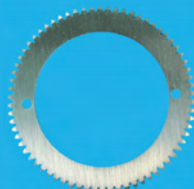
ID-Nr. 510228



A	I	ST	M
73	50	0,5	1

F	L	S	Z
16°	11	2,46	16

ID-Nr. 510268



A	I	ST	M
71	50	0,5	1

F	L	S	Z
16°	2,24	0,74	70

ID-Nr. 510298



A	I	ST	M
75	50	0,8	3

F	L	S	Z
-	9,7	5,3	15

ID-Nr. 510265



A	I	ST	M
75	50	1,2	3

F	L	S	Z
-	9,7	5,3	15

ID-Nr. 510316

Schneidmesser Cutting blades

45/50

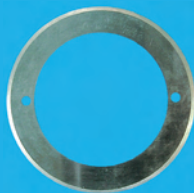
$l = 50 \text{ mm } \varnothing$



A	I	ST	M
71	50	0,5	1

F	L	S	Z
16°	-	-	-

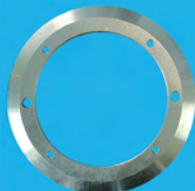
ID-Nr. 510222



A	I	ST	M
71	50	0,5	1

F	L	S	Z
16°	-	-	-

ID-Nr. 510222u



A	I	ST	M
72	50	2	1

F	L	S	Z
20°	-	-	-

ID-Nr. 510223

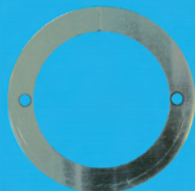


A	I	ST	M
67,5	50	2	3

F	L	S	Z
-	-	-	-

ID-Nr. 510224

Rillmesser / Creasing blades



A	I	ST	M
69,5	50	0,5	4

F	L	S	Z
-	-	-	-

ID-Nr. 510221

Komplett-Werkzeugeinrichtungen

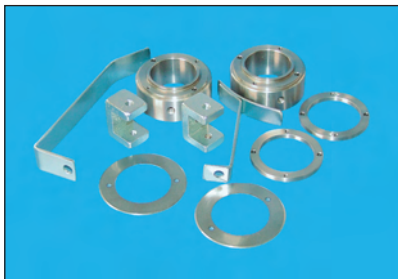
für KL 112, KL 212, M 7.32/40/46/58/64, 281, 381, 382, 391, 392

Tool equipments, complete

for KL 112, KL 212, M 7.32/40/46/58/64, 281, 381, 382, 391, 392



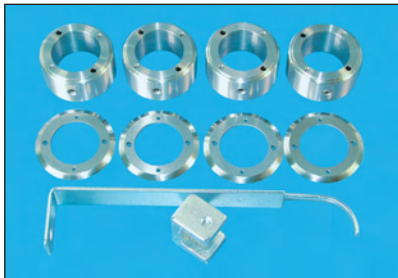
Perforiereinrichtung
Perforating equipment



Randbeschnitt
Head- or tail slitting



Trennschnitt
Slitting



Spanausschnitt
Strip slitting

Komplett-Werkzeugeinrichtungen

für KL 112, KL 212, M 7.32/40/46/58/64, 281, 381, 382, 391, 392

Tool equipments, complete

for KL 112, KL 212, M 7.32/40/46/58/64, 281, 381, 382, 391, 392



Rilleinrichtung
Creasing equipment



Universal-Rilleinrichtung, $l = 35 \text{ mm}$
Universal creasing equipment, $l = 35 \text{ mm}$

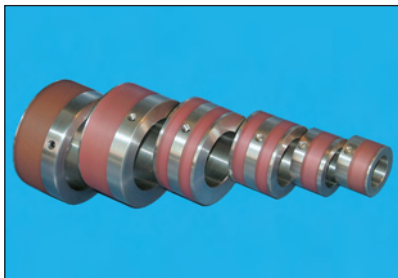


Einrichtung für Mikroperforation
Equipment for Micro-perforation



Krimpeinrichtung
Crimping equipment

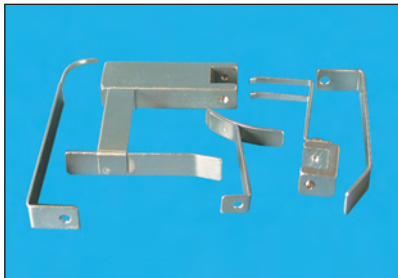
Halte-/Ausführungsringe / Collars Abweiser / Stripper



Halte-/Ausführungsringe Kunststoff-Stahl*.
*Collar plastic/steel**



Halte-/Ausführungsringe Stahl*.
*Collar steel**



Abweiser*.
*Stripper**

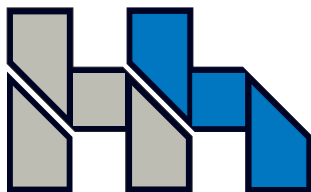
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