

Formstechsysteme Maschinen- bezogene Schnittstellen

Form Grooving Systems Machine Related Interfaces

Systèmes de profilage en plongée réf. aux interfaces de la machine



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Ihr Anspruch - unsere Zerspanungslösung

Your Requirement - our Machining Solution / Votre Besoin - notre Solution d'Usinage



Sehr geehrter Kunde,

Unser Spezialwissen im technischen Bereich der Drehteilefertigung ermöglicht es uns, Problemlösungen im Werkzeugbereich zu schaffen, welche außerhalb des üblichen Standards liegen. Wir sind überzeugt, dass vor allem die qualitative Leistung den Erfolg und die Stabilität eines Unternehmens im Wesentlichen beeinflusst. Deshalb sehen wir unsere Aufgabe in der ständigen Neuorientierung der qualitativen und produktiven Anforderungen, mit welchen sich unsere Kunden auseinandersetzen müssen. Die Zielsetzung unserer Firma ist es, die Kunden durch die optimale Lösung ihrer fertigungs-technischen Probleme zum Erfolg zu verhelfen.

Dear user,

Our special knowledge in the technically advanced field of producing turned parts enables us to produce tooling solutions which are beyond typical standards. We are convinced that quality is the most important factor for the future prospects of every company in that market. This is why we are always searching for new solutions to solve new problems of our customers. It is our aim to help our customers succeed in their market through supplying best solutions for their manufacturing problems.

Cher utilisateur,

Nos spéciales expériences dans le domaine technique de la fabrication des pièces tournées nous permet de fournir des solutions aux problèmes dans le domaine de l'outil, qui se trouvent en dehors des normes habituelles. Nous pensons que, en particulier la performance qualitative affecte le succès et la stabilité d'une société essentiellement, et nous voyons notre tâche dans la réorientation continue des besoins qualitatifs et productifs dont nos clients ont besoin. L'objectif de notre société est d'aider les clients à trouver la solution optimale de ses problèmes techniques.

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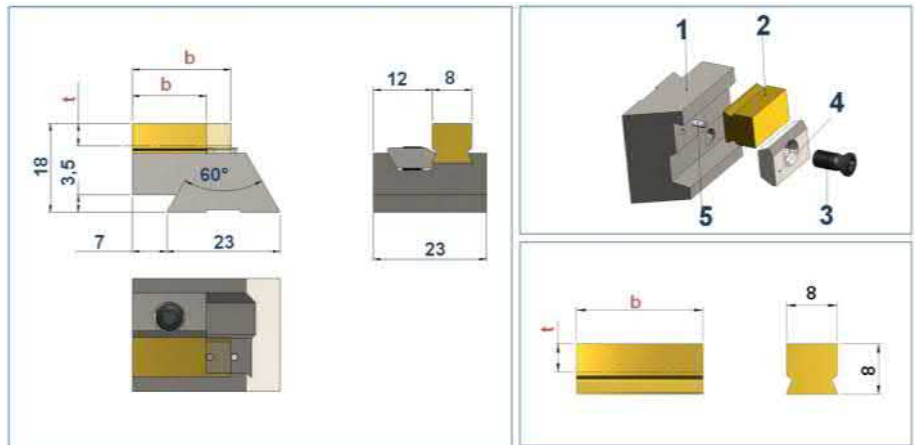
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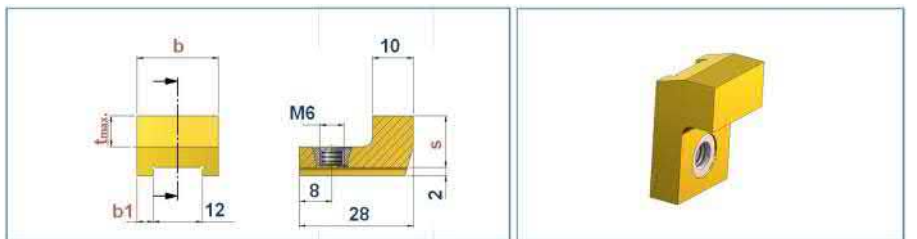
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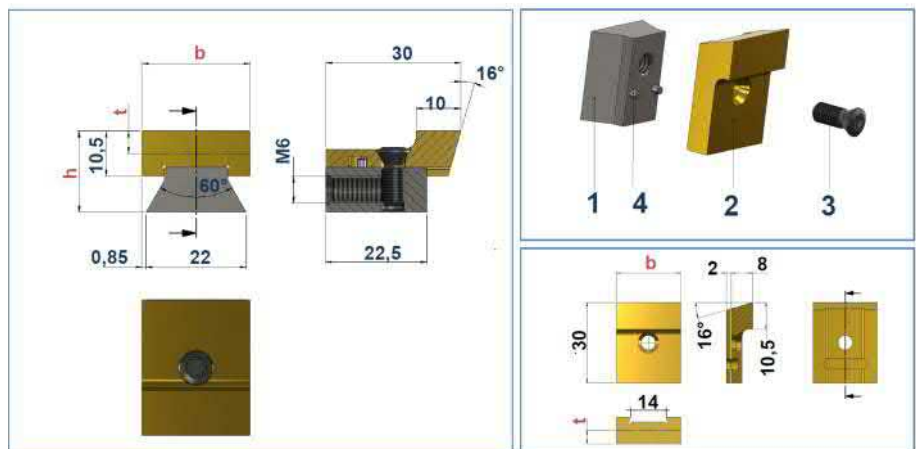
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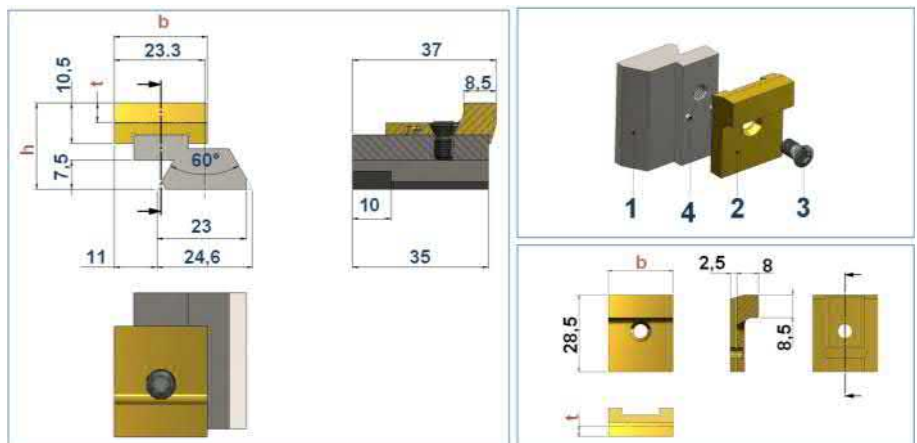
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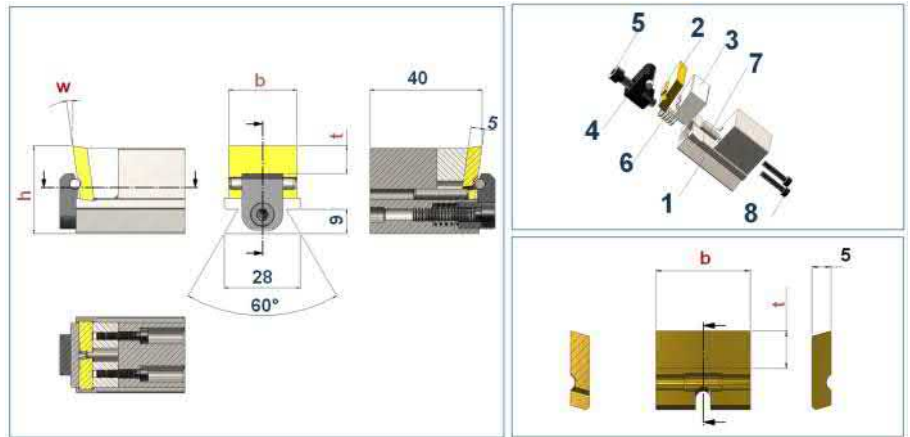
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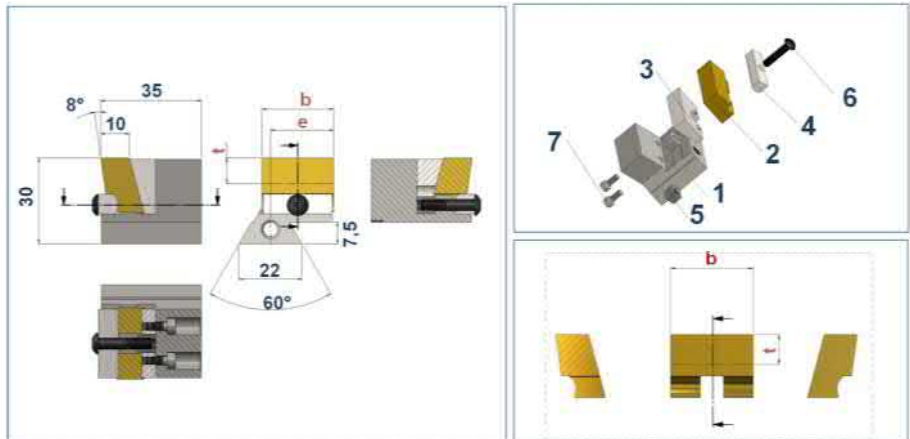
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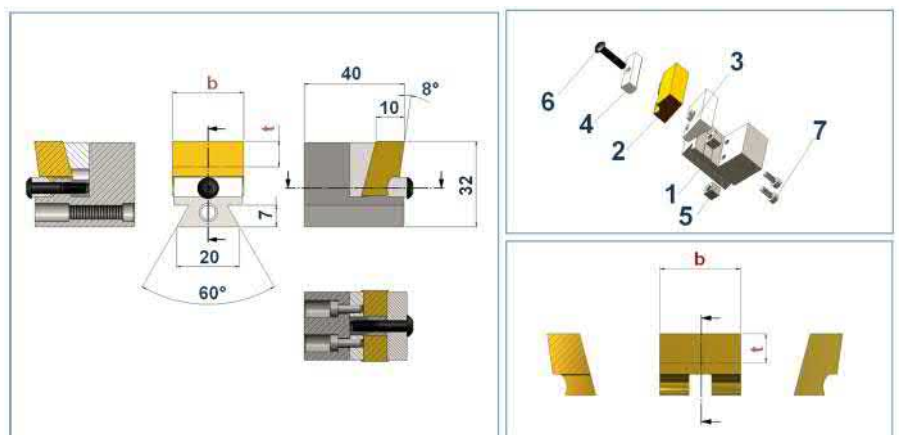
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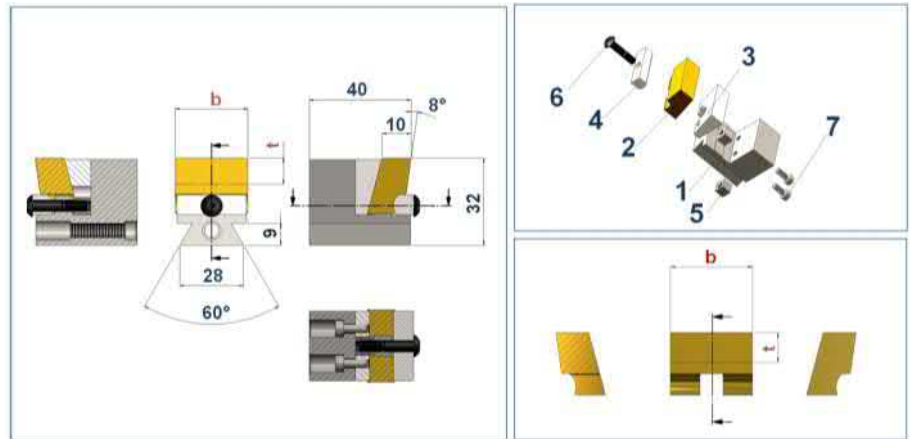
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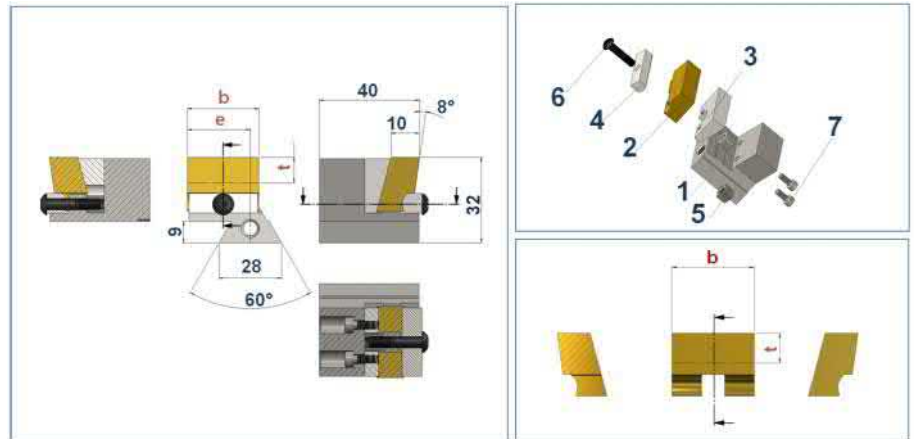
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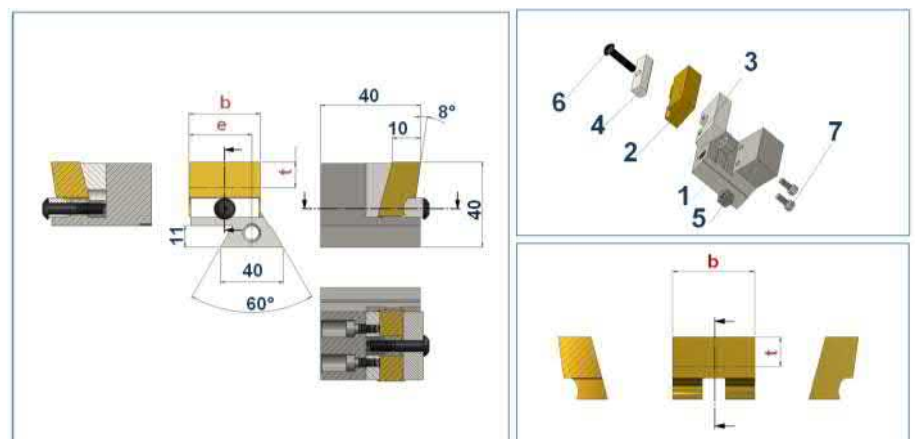
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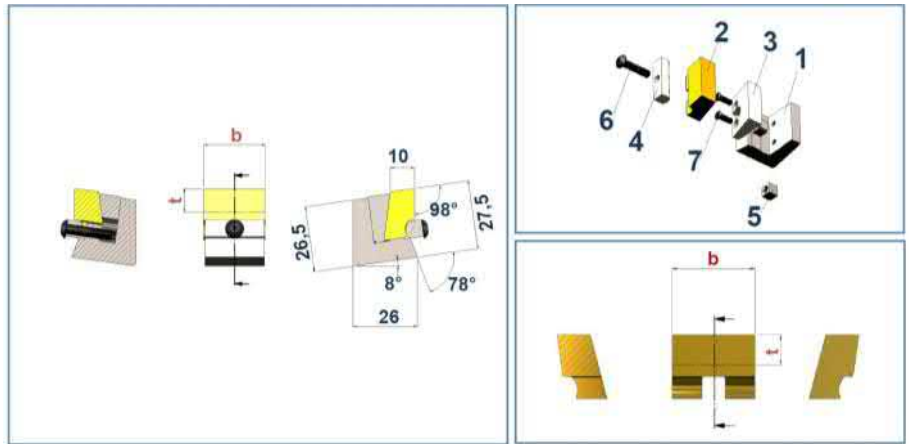
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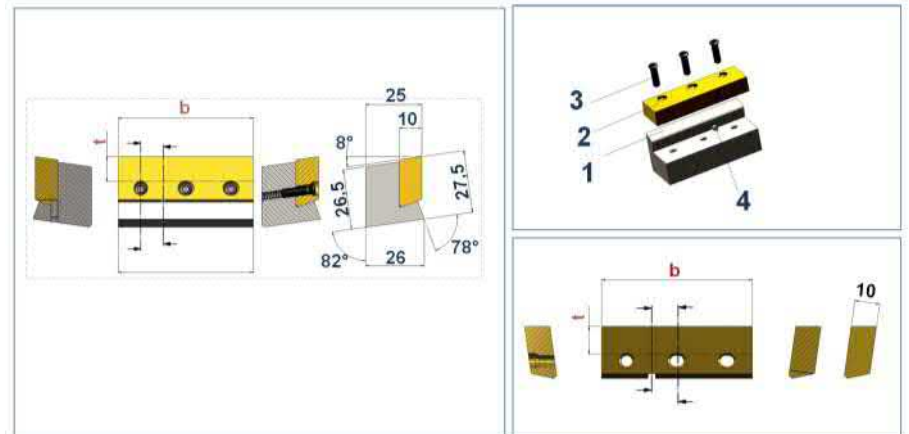
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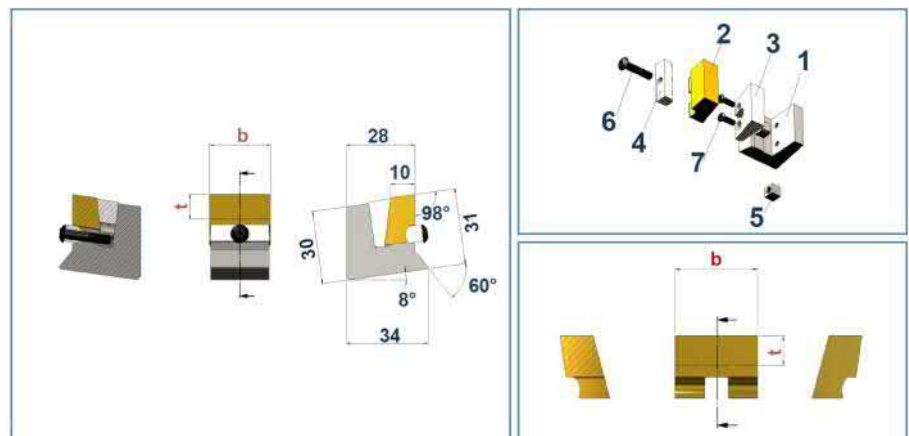
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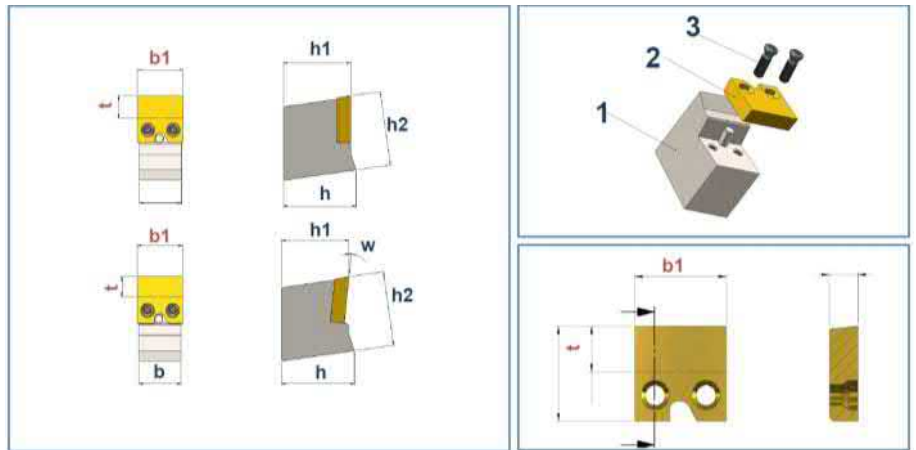


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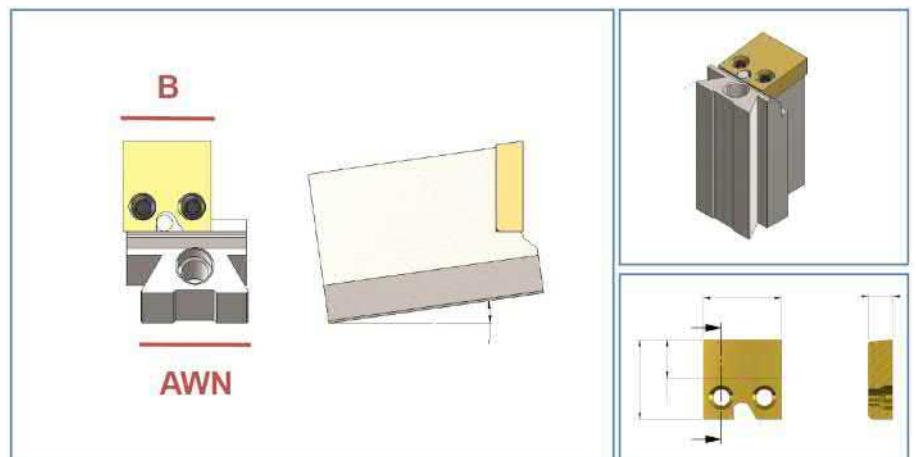
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System GS20-338

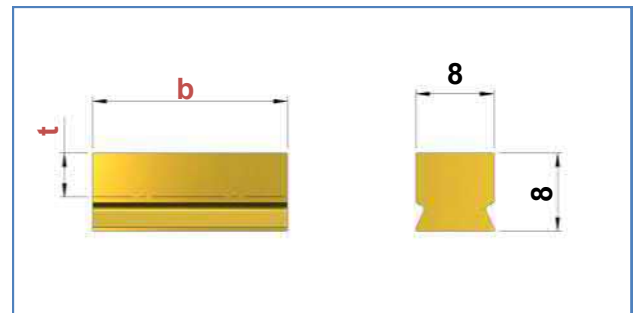
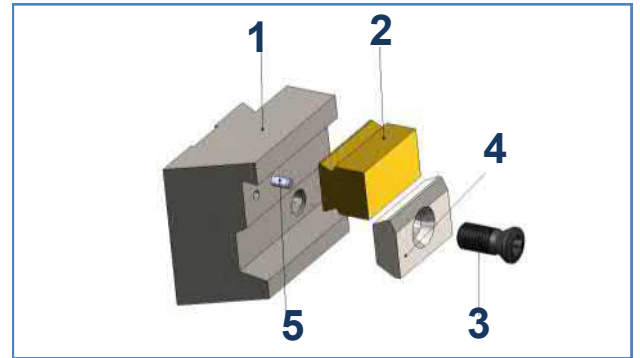
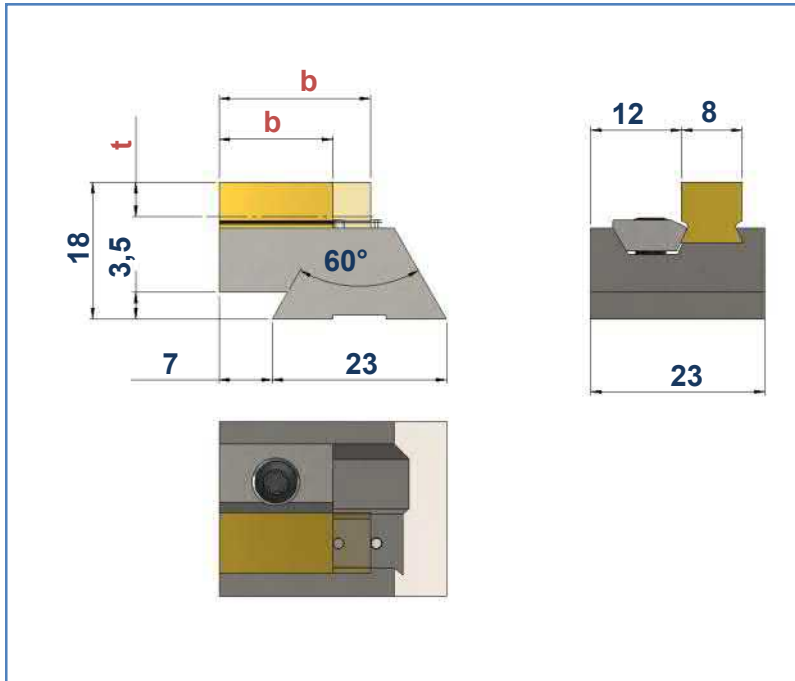
System GS20-338 / Système GS20-338

GS20-338-15-20

max. Formtiefe: $t = 4,5$ mm

max. depth of form: $t = 4,5$ mm

max. profondeur de profil: $t = 4,5$ mm



1	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation
	108447	GS20-338-15/20	Grundhalter / Basic tool holder / Porte-outil de base

2	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	HM-Sorte Carbide grade Nuance de carbure
	108721	WP-338-15-K10	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	15	K10
	108722	WP-338-20-K10	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	20	K10

	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation
3	102217	M4x9,5-T15	Spannschraube / Fixing screw / Vis de fixation
4	108732	KL-15-338	Klemme / Clamp / Mors de serrage
5	103960	Ø1,5m6 x 8- DIN 6325	Anschlagstift / Dowel / Goujon de butée



System GS20-338

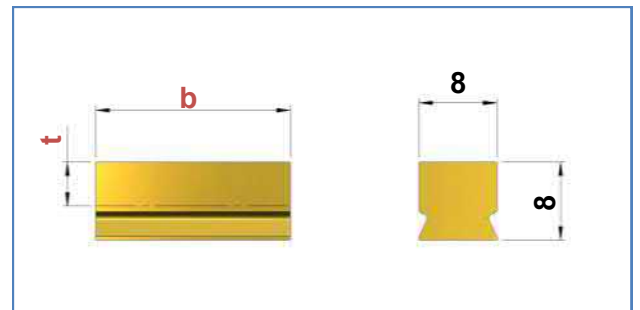
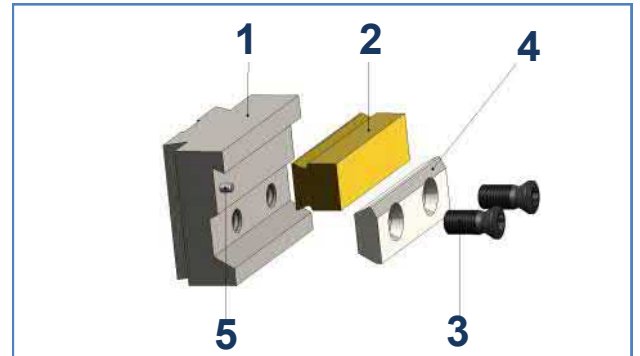
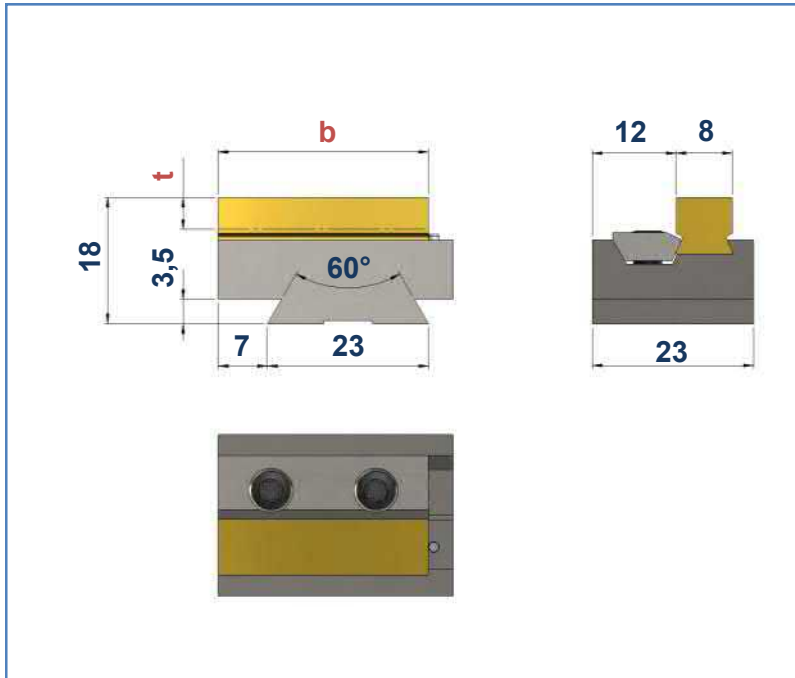
System GS20-338 / Système GS20-338

GS20-338-30

max. Formtiefe: $t = 4,5$ mm

max. depth of form: $t = 4,5$ mm

max. profondeur de profil: $t = 4,5$ mm



1	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation
	108543	GS20-338-30	Grundhalter / Basic tool holder / Porte-outil de base

2	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	HM-Sorte Carbide grade Nuance de carbure
	108725	WP-338-30-K10	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	30	K10

	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation
3	102217	M4x9,5-T15	Spannschraube / Fixing screw / Vis de fixation
4	108731	KL-30.338	Klemme / Clamp / Mors de serrage
5	103960	Ø1,5 _{m6} x 8- DIN 6325	Anschlagstift / Dowel / Goujon de butée

System TOKP-614

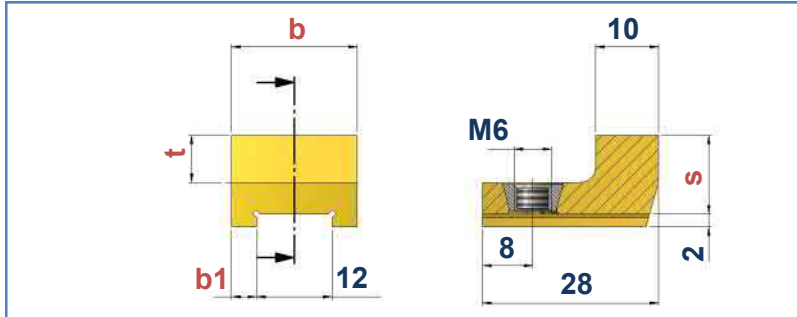
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TOKP-614

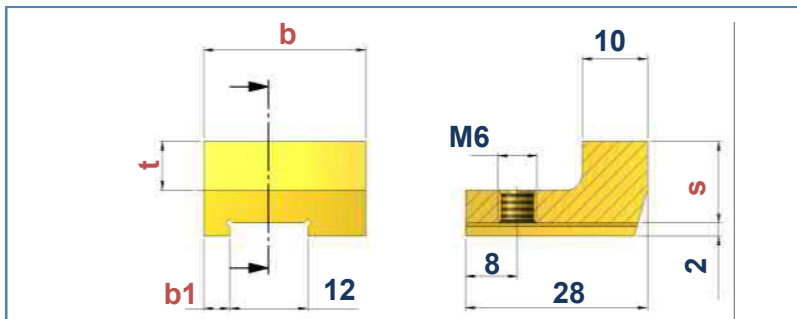
max. Formtiefe: t
max. depth of form: t
max. profondeur de profil: t

Für / for / pour:

Tornos AS14/SAS16/BS20



Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	b1 mm	t _{max.} mm	S mm	HM-Sorte Carbide grade Nuance de carbure
103764	TOKP-614-K10	VHM-Kalibrierplatte / Carbide calibration insert / Plaquette de calibrage en carbure	20	4	6	11	K10
103763	TOKP-614-FK	VHM-Kalibrierplatte / Carbide calibration insert / Plaquette de calibrage en carbure	20	4	6	11	FK
103762	TOKP-614-12-K10	VHM-Kalibrierplatte / Carbide calibration insert / Plaquette de calibrage en carbure	20	4	7,5	12,5	K10
108713	TOKP-614-12-FK	VHM-Kalibrierplatte / Carbide calibration insert / Plaquette de calibrage en carbure	20	4	7,5	12,5	FK



Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	b1 mm	t _{max.} mm	S mm	HM-Sorte Carbide grade Nuance de carbure
108801	TOKP-614-25-UFK2	VHM-Kalibrierplatte / Carbide calibration insert / Plaquette de calibrage en carbure	25	6,5	6	11	UFK2
162593	TOKP-614-25-FK	VHM-Kalibrierplatte / Carbide calibration insert / Plaquette de calibrage en carbure	25	6,5	6	11	FK
108790	TOKP-614-25-R-UFK2	VHM-Kalibrierplatte / Carbide calibration insert / Plaquette de calibrage en carbure	25	4	6	11	UFK2

108798	TOKP-614-30-UFK2	VHM-Kalibrierplatte / Carbide calibration insert / Plaquette de calibrage en carbure	30	9	6	11	K10
108789	TOKP-614-30-R-UFK2	VHM-Kalibrierplatte / Carbide calibration insert / Plaquette de calibrage en carbure	20	4	6	11	FK



System TOFP

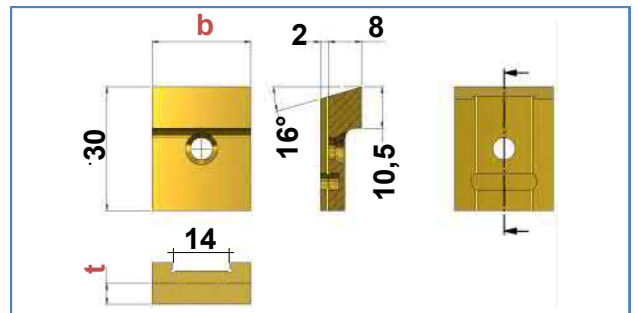
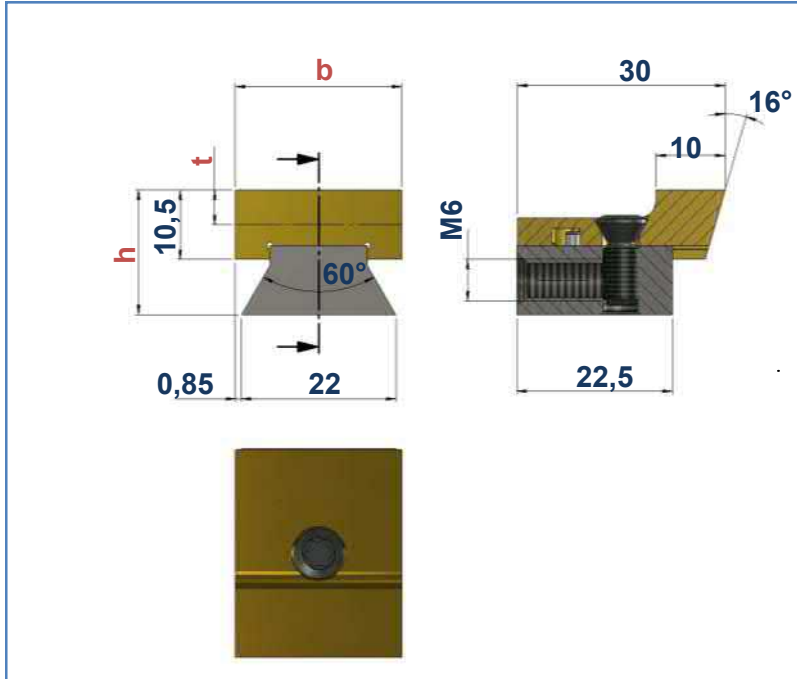
System TOFP / Système TOFP

TOFP-24-M / TOGH-613

max. Formtiefe: t = 5 mm

max. depth of form: t = 5 mm

max. profondeur de profil: t = 5 mm



1	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	h mm
	103760	TOGH-613	Grundhalter / Basic tool holder / Porte-outil de base	24	18

2	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	HM-Sorte Carbide grade Nuance de carbure
	103739	TOFP-24-M-FK	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	24	FK
	103740	TOFP-24-M-K10	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	24	FK

3	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation
	102219	M5x13-T25	Spannschraube / Fixing screw / Vis de fixation
4	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation
	103961	Ø2m6 x 10- DIN 6325	Anschlagstift / Dowel / Goujon de butée

System TOFP

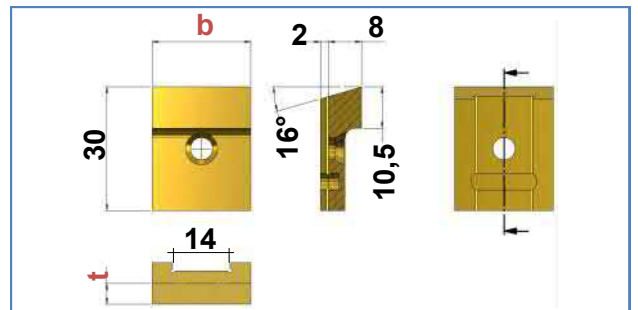
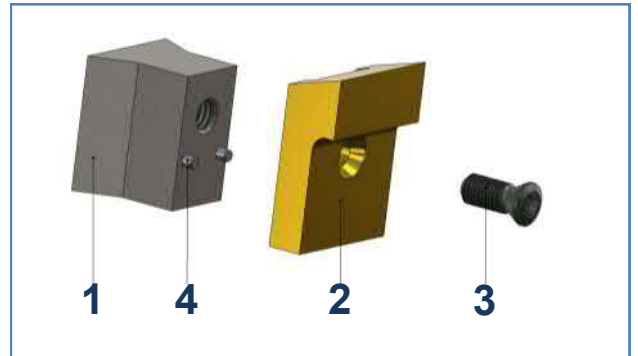
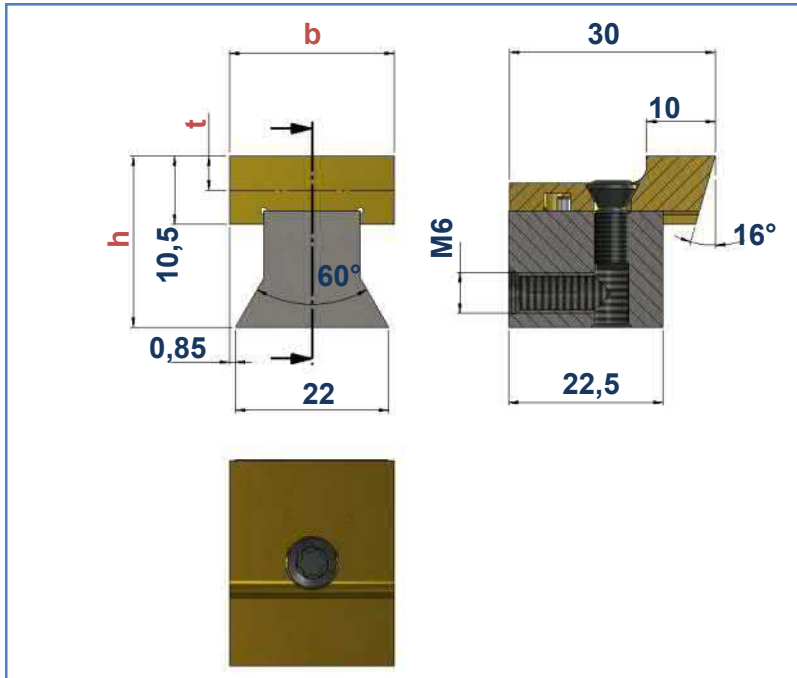
System TOFP / Système TOFP

TOFP-24-M / TOGH-613-25

max. Formtiefe: t = 5 mm

max. depth of form: t = 5 mm

max. profondeur de profil: t = 5 mm



1	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	h mm
	103761	TOGH-613-25	Grundhalter / Basic tool holder / Porte-outil de base	24	25

2	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	HM-Sorte Carbide grade Nuance de carbure
	103739	TOFP-24-M-FK	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	24	FK
	103740	TOFP-24-M-K10	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	24	FK

3	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation
	102220	M5x18-T25	Spannschraube / Fixing screw / Vis de fixation
4	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation
	103961	Ø2m6 x 10- DIN 6325	Anschlagstift / Dowel / Goujon de butée

System TOFP

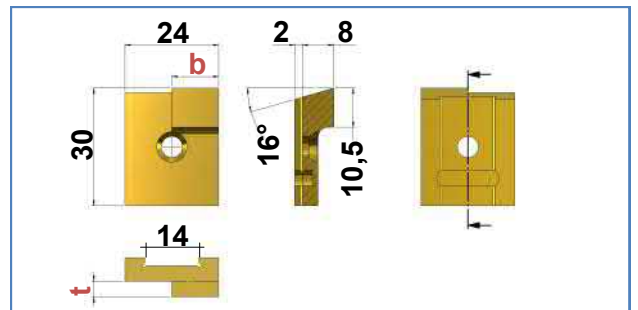
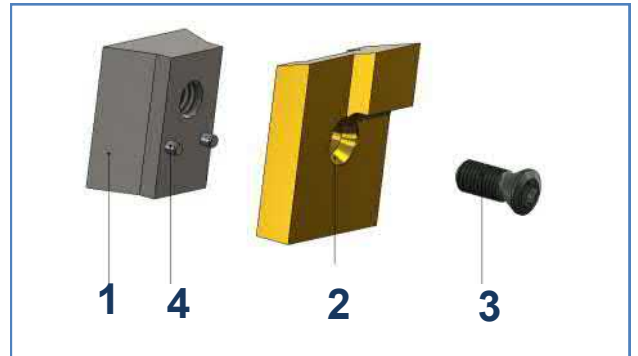
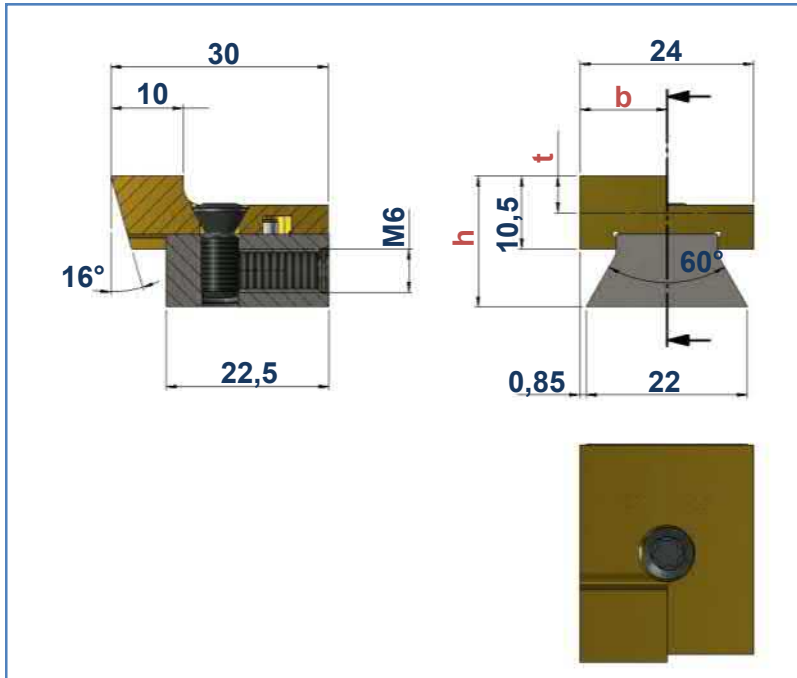
System TOFP / Système TOFP

TOFP-12-R/ TOGH-613

max. Formtiefe: t = 5 mm

max. depth of form: t = 5 mm

max. profondeur de profil: t = 5 mm



1	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	h mm
	103760	TOGH-613	Grundhalter / Basic tool holder / Porte-outil de base	12	18

2	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	HM-Sorte Carbide grade Nuance de carbure
	103735	TOFP-12-R-FK	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	12	FK
	103736	TOFP-12-R-K10	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	12	K10

3	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation
	102219	M5x13-T25	Spannschraube / Fixing screw / Vis de fixation
4	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation
	103961	Ø2m6 x 10- DIN 6325	Anschlagstift / Dowel / Goujon de butée

System TOFP

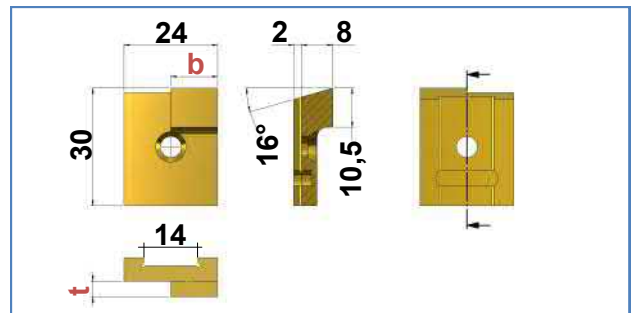
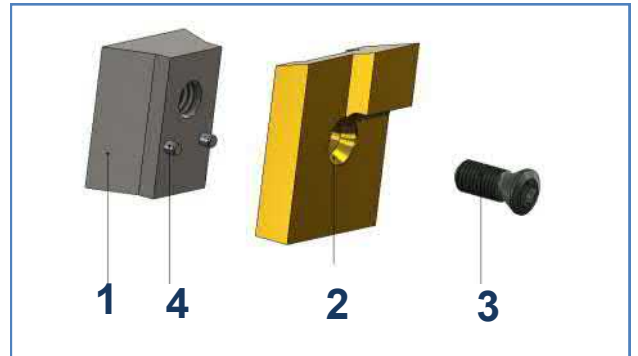
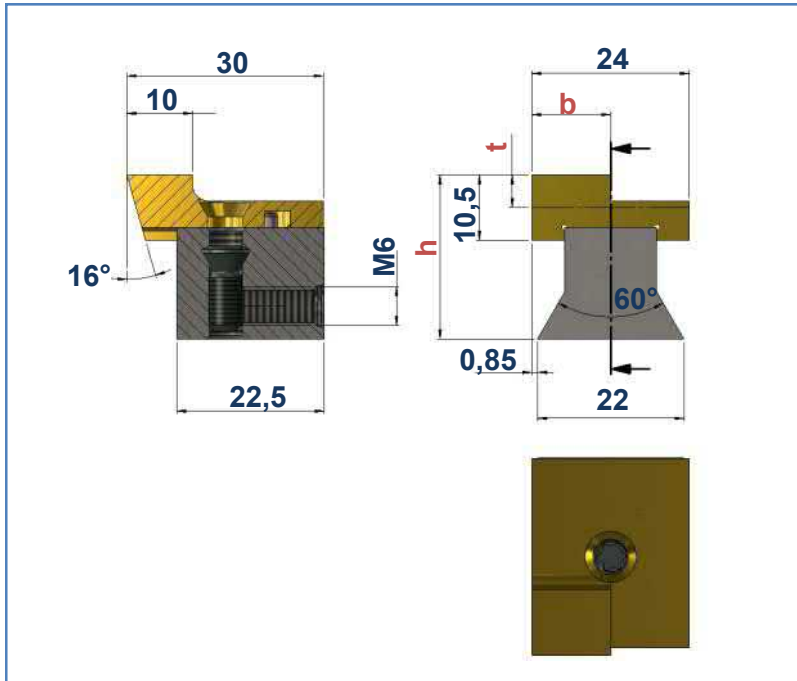
System TOFP / Système TOFP

TOFP-12-R/ TOGH-613-25

max. Formtiefe: $t = 5$ mm

max. depth of form: $t = 5$ mm

max. profondeur de profil: $t = 5$ mm



1	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	h mm
	103761	TOGH-613-25	Grundhalter / Basic tool holder / Porte-outil de base	12	25

2	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	HM-Sorte Carbide grade Nuance de carbure
	103735	TOFP-12-R-FK	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	12	FK
	103736	TOFP-12-R-K10	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	12	K10

	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation
3	102220	M5x18-T25	Spannschraube / Fixing screw / Vis de fixation
4	103961	Ø2m6 x 10- DIN 6325	Anschlagstift / Dowel / Goujon de butée



System TOFP

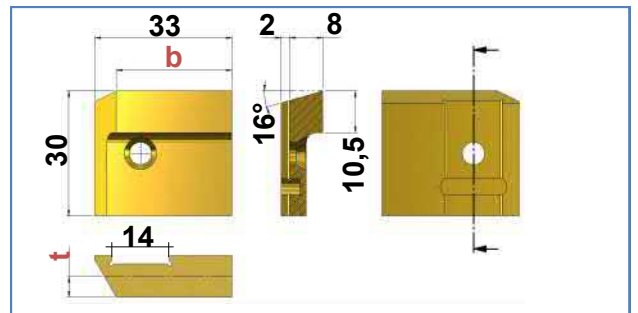
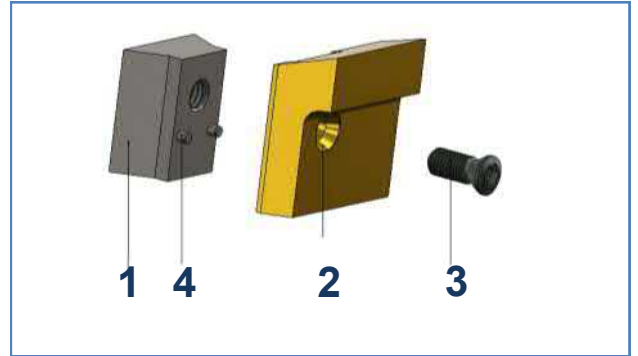
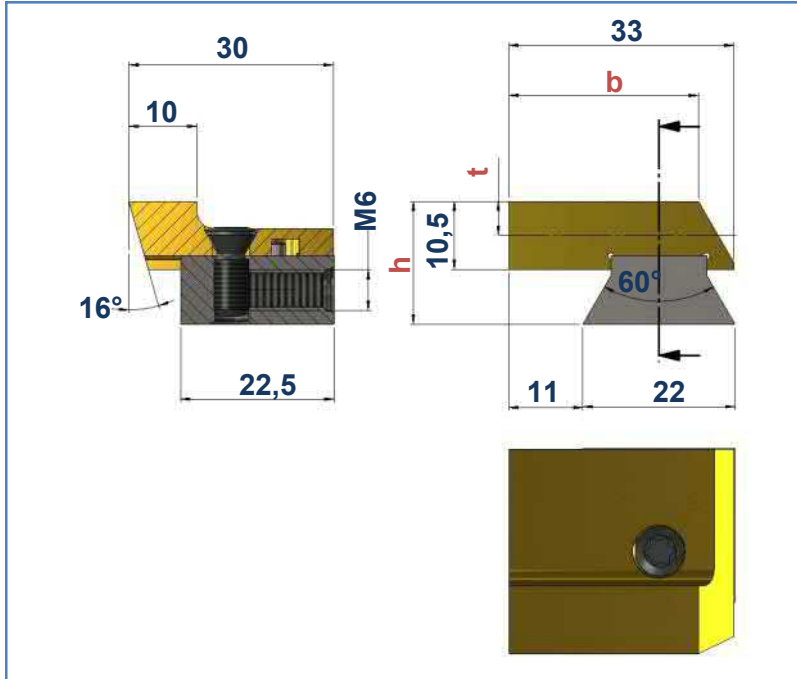
System TOFP / Système TOFP

TOFP-22-R/ TOGH-613

max. Formtiefe: t = 5 mm

max. depth of form: t = 5 mm

max. profondeur de profil: t = 5 mm



1	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	h mm
	103760	TOGH-613	Grundhalter / Basic tool holder / Porte-outil de base	27,8	18

2	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	HM-Sorte Carbide grade Nuance de carbure
	115660	TOFP-22-R-FK	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	27,8	FK
	103738	TOFP-22-R-K10	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	27,8	K10

3	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation
	102219	M5x13-T25	Spannschraube / Fixing screw / Vis de fixation
4	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation
	103961	Ø2m6 x 10- DIN 6325	Anschlagstift / Dowel / Goujon de butée

System TOFP

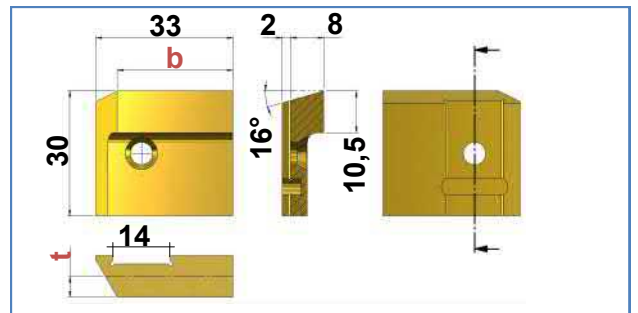
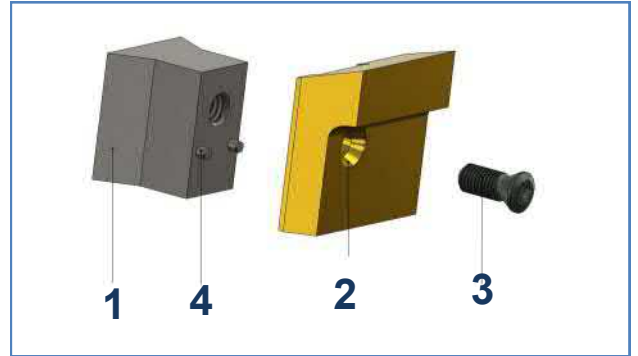
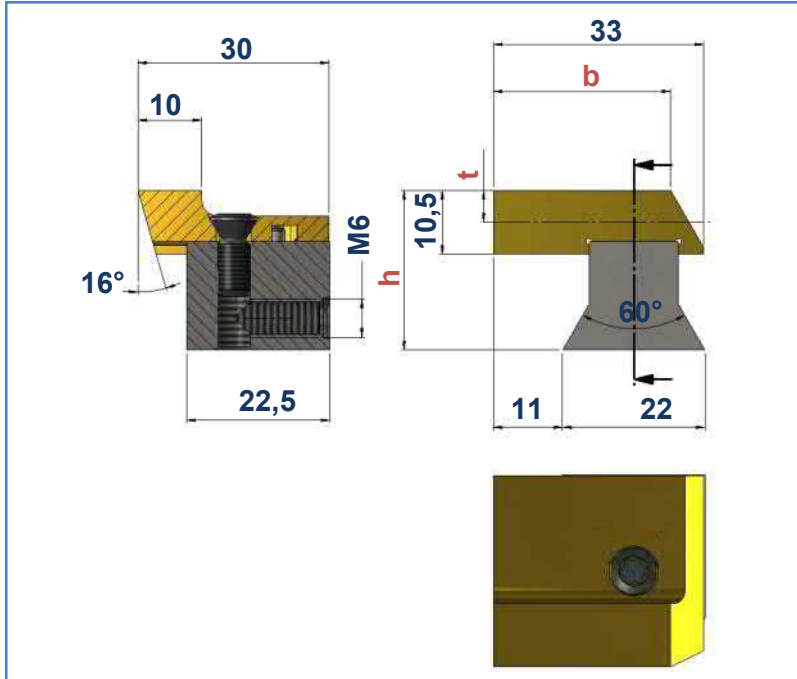
System TOFP / Système TOFP

TOFP-22-R/ TOGH-613-25

max. Formtiefe: $t = 5$ mm

max. depth of form: = 5 mm

max. profondeur de profil: $t = 5$ mm



1	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	h mm
	103761	TOGH-613-25	Grundhalter / Basic tool holder / Porte-outil de base	27,8	25

2	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	HM-Sorte Carbide gra- de Nuance de carbure
	115660	TOFP-22-R-FK	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	27,8	FK
	103738	TOFP-22-R-K10	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	27,8	K10

3	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation
	108486	M5x25-T15	Spannschraube / Fixing screw / Vis de fixation
4	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation
	103961	Ø2m6 x 10- DIN 6325	Anschlagstift / Dowel / Goujon de butée



System GS20-TOFP-1

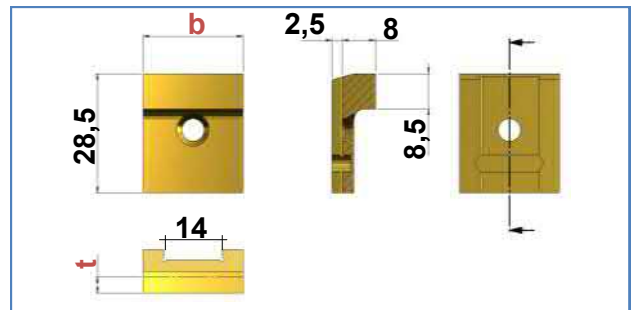
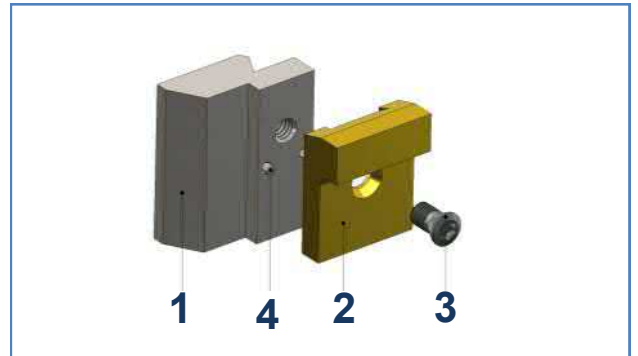
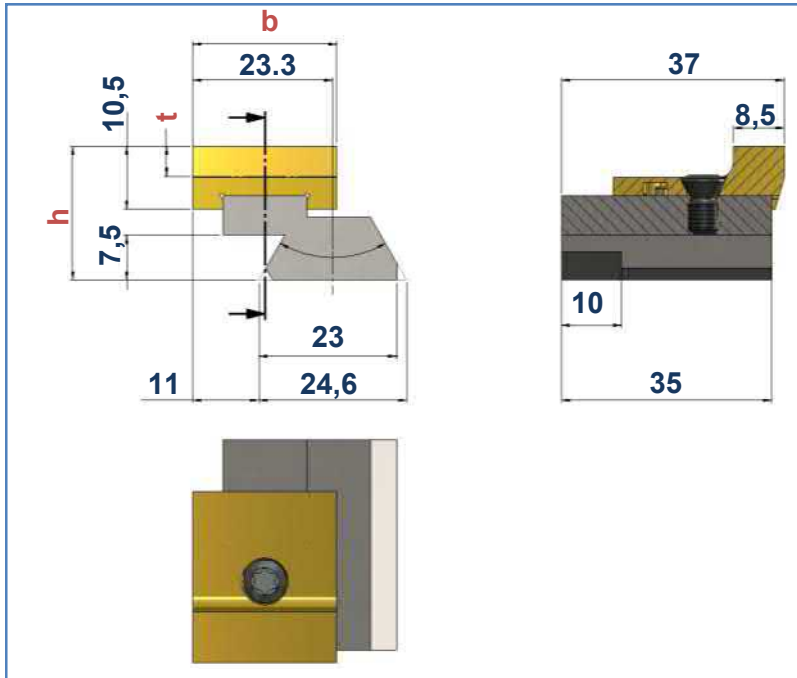
System GS20-TOFP-1 / Système GS20-TOFP-1

GS20-TOFP-1-24-R

max. Formtiefe: t = 5 mm

max. depth of form: t = 5 mm

max. profondeur de profil: t = 5 mm



1	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	h mm
	108542	GS20-TOFP-1-12-24-R	Grundhalter / Basic tool holder / Porte-outil de base	24	22

2	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	HM-Sorte Carbide gra- de Nuance de carbure
	108715	TOFP-1-24-M-FK	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	24	FK
	108714	TOFP-1-24-M-K10	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	24	K10

	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation
3	107278	M5x10-T25	Spannschraube / Fixing screw / Vis de fixation
4	103963	Ø2m6 x 8- DIN 6325	Anschlagstift / Dowel / Goujon de butée

System GS20-TOFP-1

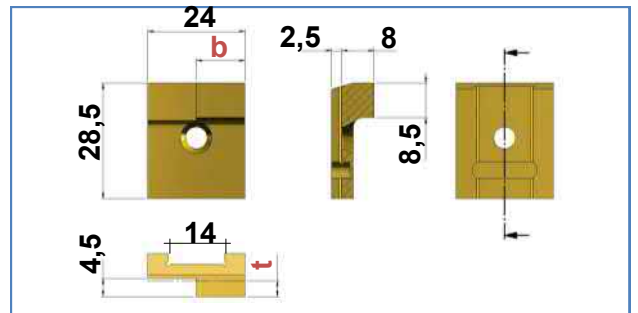
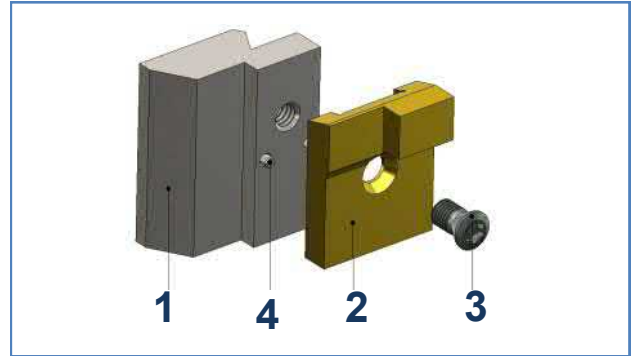
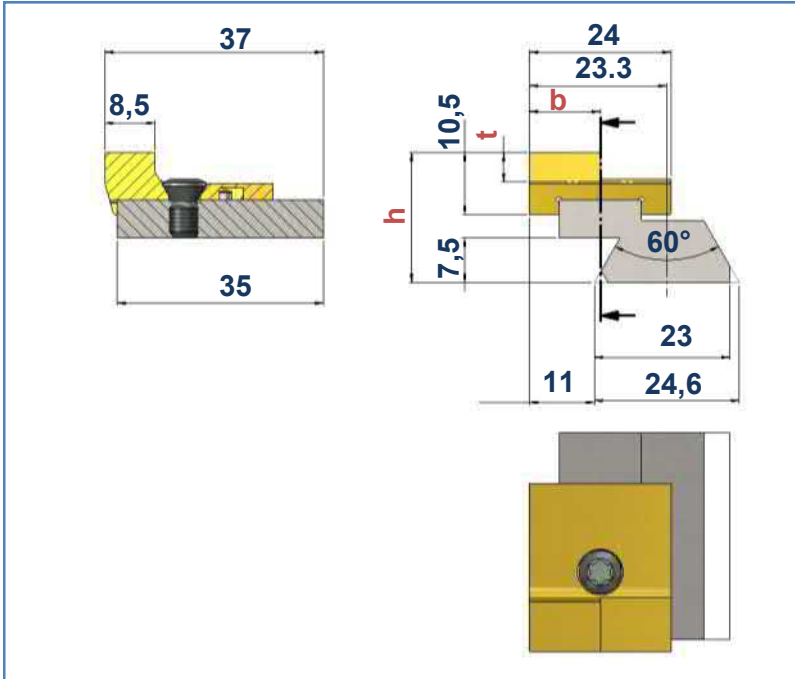
System GS20-TOFP-1 / Système GS20-TOFP-1

GS20-TOFP-1-12-R

max. Formtiefe: $t = 5$ mm

max. depth of form: $t = 5$ mm

max. profondeur de profil: $t = 5$ mm



1	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	h mm
	108542	GS20-TOFP-1-12-24-R	Grundhalter / Basic tool holder / Porte-outil de base	24	22

2	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	HM-Sorte Carbide grade Nuance de carbure
	103735	TOFP-12-R-FK	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	12	FK
	103736	TOFP-12-R-K10	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	12	K10

	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation
3	107278	M5x10-T25	Spannschraube / Fixing screw / Vis de fixation
4	103963	Ø2m6 x 8- DIN 6325	Anschlagstift / Dowel / Goujon de butée



System GS20-TOFP-1

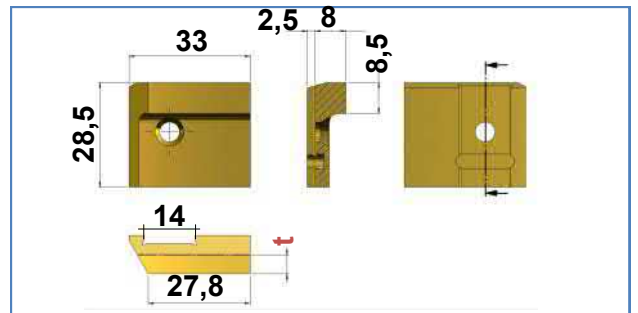
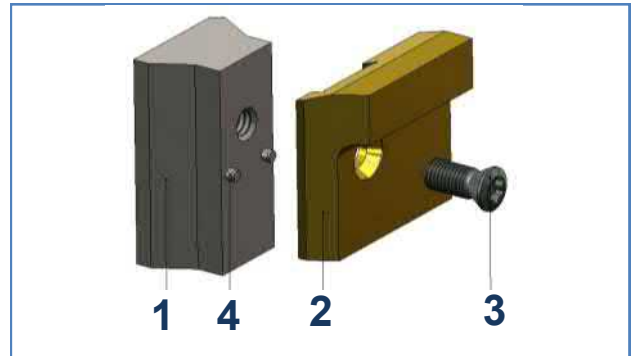
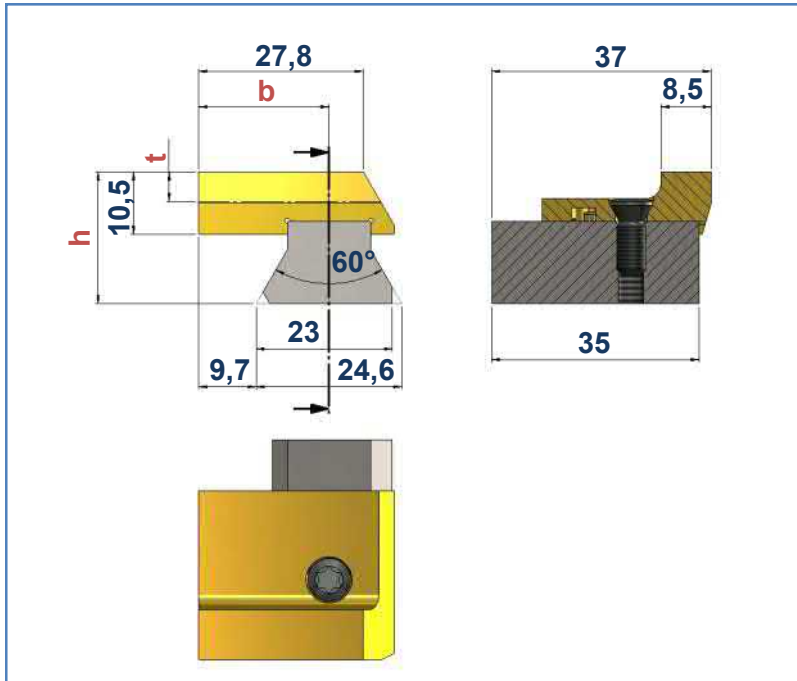
System GS20-TOFP-1 / Système GS20-TOFP-1

GS20-TOFP-1-22-R

max. Formtiefe: t = 5 mm

max. depth of form: t = 5 mm

max. profondeur de profil: t = 5 mm



1	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	h mm
	108541	GS20-TOFP-1-22-R	Grundhalter / Basic tool holder / Porte-outil de base	22	22

2	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	HM-Sorte Carbide grade Nuance de carbure
	108718	TOFP-1-22-R-FK	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	22	FK
	108719	TOFP-1-22-R-K10	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	22	K10

	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation
3	102219	M5x13-T25	Spannschraube / Fixing screw / Vis de fixation
4	103963	Ø2m6 x 8- DIN 6325	Anschlagstift / Dowel / Goujon de butée

System AWN-28-UWS

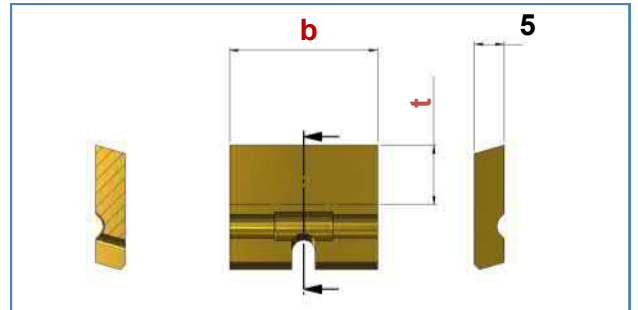
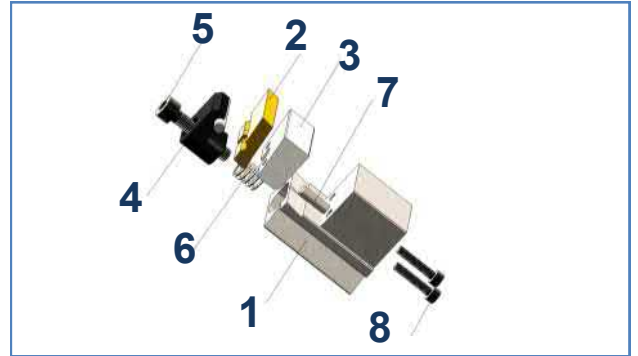
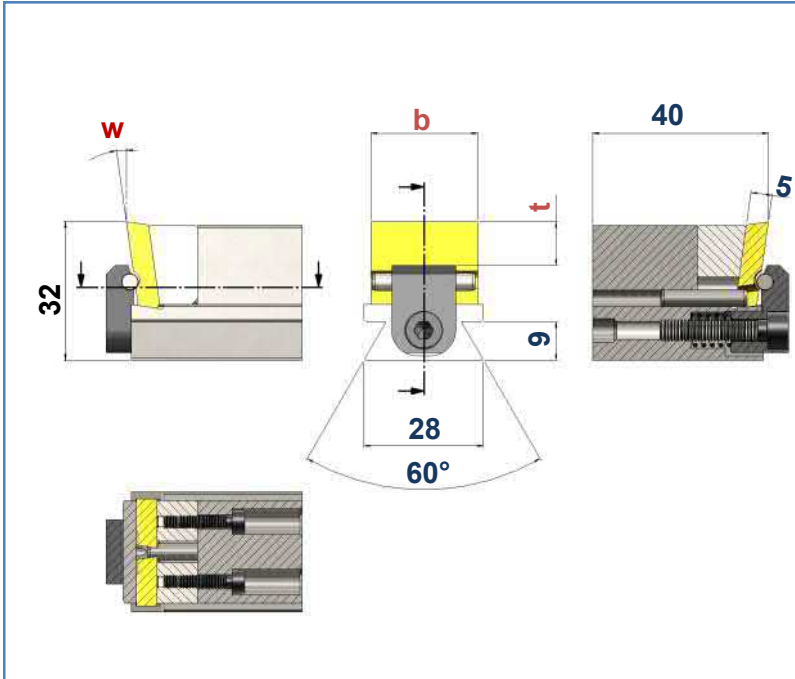
System AWN-28-UWS / Système AWN-28-UWS

AWN-28-UWS-...-M / 8°

max. Formtiefe: t = 10 mm

max. depth of form: t = 10 mm

max. profondeur de profil: t = 10 mm



	AWN28-UWS-20-M/8° b = 20 / w = 8°	AWN28-UWS-25-M/8° b = 25 / w = 8°	AWN28-UWS-30-M/8° b = 30 / w = 8°	AWN28-UWS-35-M/8° b = 35 / w = 8°	AWN28-UWS-40-M/8° b = 40 / w = 8°
	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.
1	140480 AWN28-UWS-20-M	110763 AWN28-UWS-25-M	110775 AWN28-UWS-30-M	110777 AWN28-UWS-35-M	110779 AWN28-UWS-40-M
2	140498 UWP-20-FK	140491 UWP-25-FK	140492 UWP-30-FK	140493 UWP-35-FK	140494 UWP-40-FK
3	140482 UGP-20-8°	110730 UGP-25-8°	110732 UGP-30-8°	110733 UGP-35-8°	110734 UGP-40-8°
4	110768 UKL-28-25-8	110768 UKL-28-25-8	114966 UKL-28-30-8	114969 UKL-28-35-8	114970 UKL-28-40-8
5	108486 M5x25 DIN912 SW4	108486 M5x25 DIN912 SW4	108486 M5x25 DIN912 SW4	108486 M5x25 DIN912 SW4	108486 M5x25 DIN912 SW4
6	110767 Feder-D8x16x1	110767 Feder-D8x16x1	110767 Feder-D8x16x1	110767 Feder-D8x16x1	110767 Feder-D8x16x1
7	110766 Ø4m6 x 20- DIN 6325	110766 Ø4m6 x 20- DIN 6325	110766 Ø4m6 x 20- DIN 6325	110766 Ø4m6 x 20- DIN 6325	110766 Ø4m6 x 20- DIN 6325
8	113675 M3x16 DIN912 SW2.5	113675 M3x16 DIN912 SW2.5	113675 M3x16 DIN912 SW2.5	113675 M3x16 DIN912 SW2.5	113675 M3x16 DIN912 SW2.5



System AWN-28-UWS

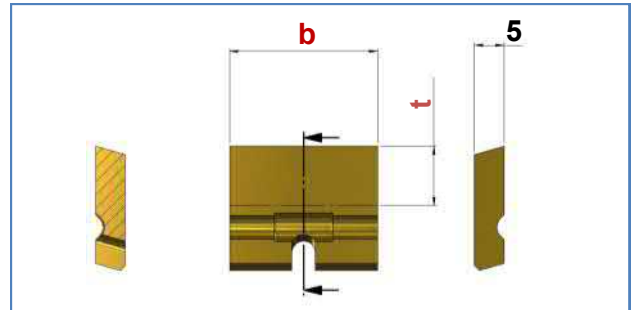
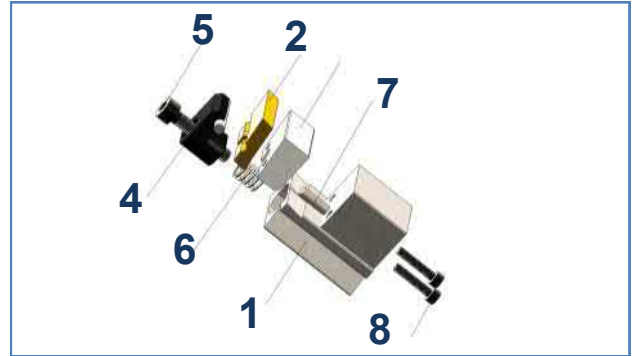
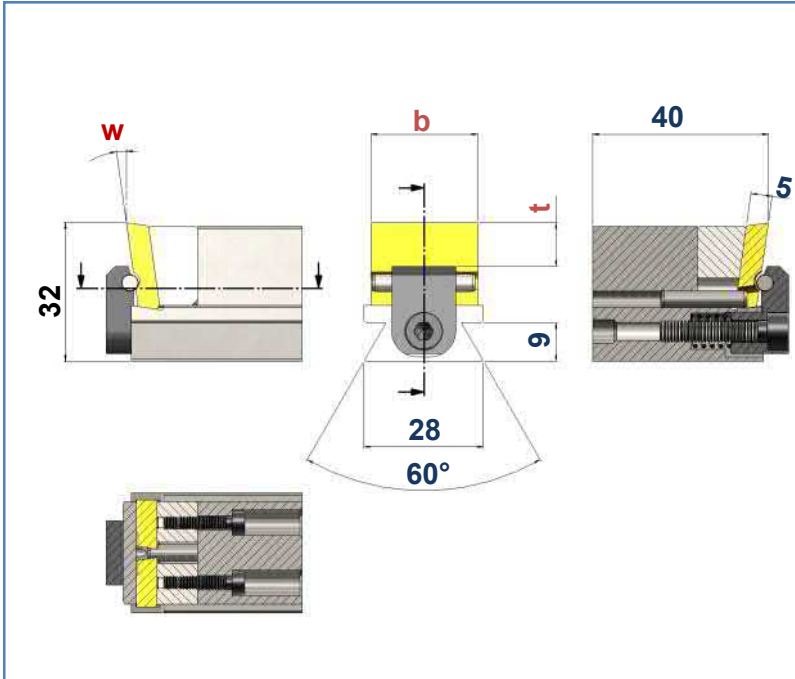
System AWN-28-UWS / Système AWN-28-UWS

AWN-28-UWS-...-M / 16°

max. Formtiefe: t = 10 mm

max. depth of form: t = 10 mm

max. profondeur de profil: t = 10 mm



	AWN28-UWS-20-M/16° b = 20 / w = 16°	AWN28-UWS-25-M/16° b = 25 / w = 16°	AWN28-UWS-30-M/16° b = 30 / w = 16°	AWN28-UWS-35-M/16° b = 35 / w = 16°	AWN28-UWS-40-M/16° b = 40 / w = 16°
	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.
1	140480 AWN28-UWS-20-M	110763 AWN28-UWS-25-M	110775 AWN28-UWS-30-M	110777 AWN28-UWS-35-M	110779 AWN28-UWS-40-M
2	140498 UWP-20-FK	140491 UWP-25-FK	140492 UWP-30-FK	140493 UWP-35-FK	140494 UWP-40-FK
3	140481 UGP-20-16°	110736 UGP-25-16°	110737 UGP-30-16°	110738 UGP-35-16°	110739 UGP-40-16°
4	114965 UKL-28-25-16	114965 UKL-28-25-16	114967 UKL-28-30-16	114968 UKL-28-35-16	114971 UKL-28-40-16
5	108486 M5x25 DIN912 SW4	108486 M5x25 DIN912 SW4	108486 M5x25 DIN912 SW4	108486 M5x25 DIN912 SW4	108486 M5x25 DIN912 SW4
6	110767 Feder-D8x16x1	110767 Feder-D8x16x1	110767 Feder-D8x16x1	110767 Feder-D8x16x1	110767 Feder-D8x16x1
7	114764 Ø4m6 x 18- DIN 6325	114764 Ø4m6 x 18- DIN 6325	114764 Ø4m6 x 18- DIN 6325	114764 Ø4m6 x 18- DIN 6325	114764 Ø4m6 x 18- DIN 6325
8	113675 M3x16 DIN912 SW2.5	113675 M3x16 DIN912 SW2.5	113675 M3x16 DIN912 SW2.5	113675 M3x16 DIN912 SW2.5	113675 M3x16 DIN912 SW2.5

System TO-22-BFH

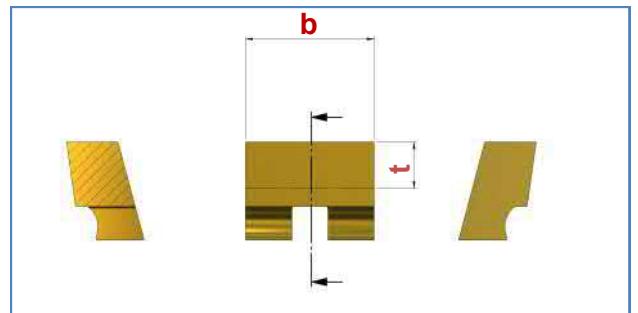
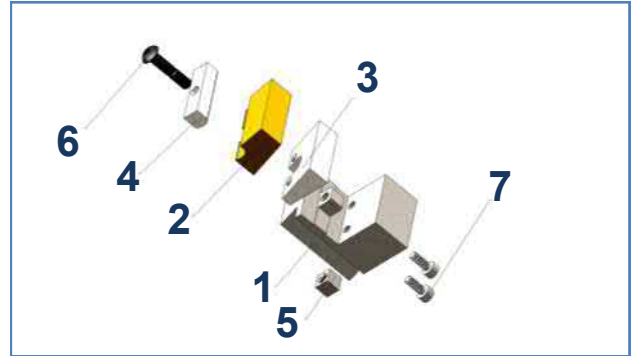
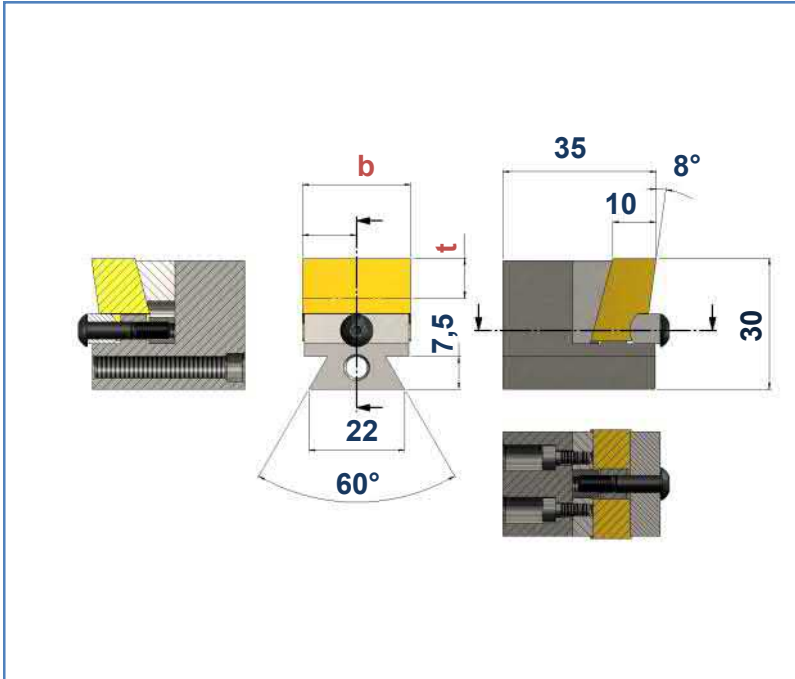
System TO-22-BFH / Système TO-22-BFH

TO-22-BFH-...M

max. Formtiefe: $t = 9$ mm

max. depth of form: $t = 9$ mm

max. profondeur de profil: $t = 9$ mm



	TO-22-BFH-20-M b = 20	TO-22-BFH-25-M b = 25
	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.
1	103728 TO-22-BFH-20-M	108496 TO-22-BFH-25-M
2	100670 BFP-20-FK	100674 BFP-25-FK
	100671 BFP-20-K10	100677 BFP-25-K10
3	101662 GP-20	101663 GP-25
4	102098 KL-20	102099 KL-25
5	101681 GS-4	101681 GS-4
6	103429 SP-19 Torx T15	103429 SP-19 Torx T15
7	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5



System TO-22-BFH

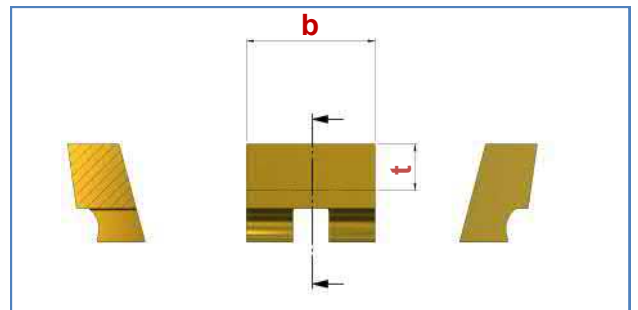
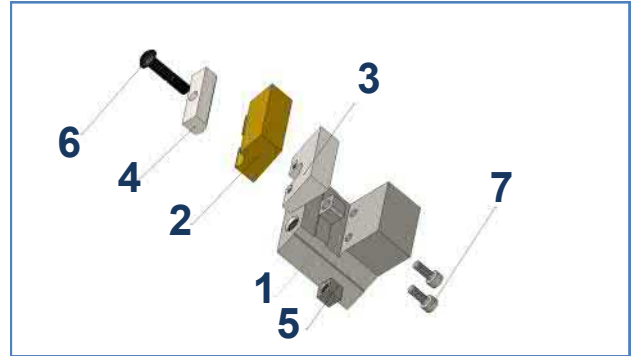
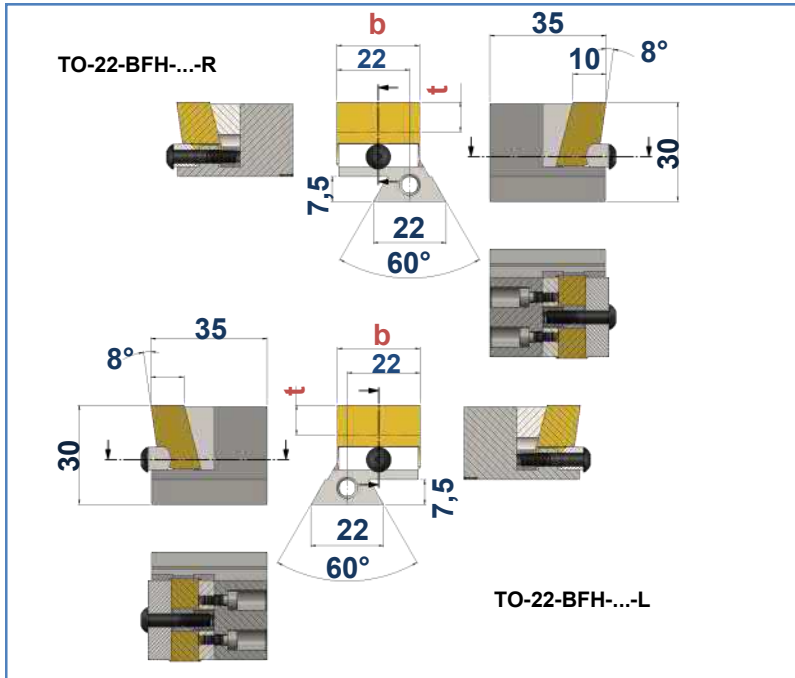
System TO-22-BFH / Système TO-22-BFH

TO-22-BFH-...-R/L

max. Formtiefe: t = 9 mm

max. depth of form: t = 9 mm

max. profondeur de profil: t = 9 mm



	TO-22-BFH-20-R b = 20	TO-22-BFH-20-L b = 20	TO-22-BFH-25-R b = 25	TO-22-BFH-25-L b = 25
	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.
1	103730 TO-22-BFH-20-R	103729 TO-22-BFH-20-L	108497 TO-22-BFH-25-R	108720 TO-22-BFH-25-L
2	100670 BFP-20-FK	100670 BFP-20-FK	100674 BFP-25-FK	100674 BFP-25-FK
	100671 BFP-20-K10	100671 BFP-20-K10	100677 BFP-25-K10	100677 BFP-25-K10
3	101662 GP-20	101662 GP-20	101663 GP-25	101663 GP-25
4	102098 KL-20	102098 KL-20	102099 KL-25	102099 KL-25
5	101681 GS-4	101681 GS-4	101681 GS-4	101681 GS-4
6	103429 SP-19 Torx T15	103429 SP-19 Torx T15	103429 SP-19 Torx T15	103429 SP-19 Torx T15
7	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5

System AWN-20-BFH

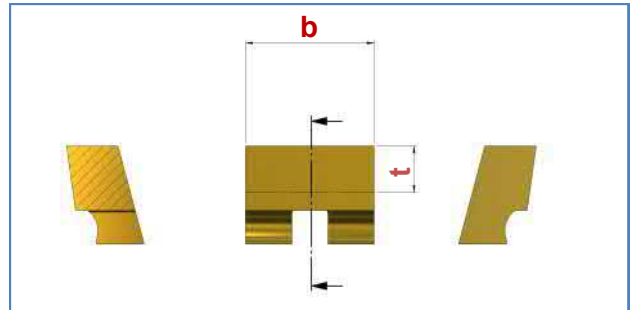
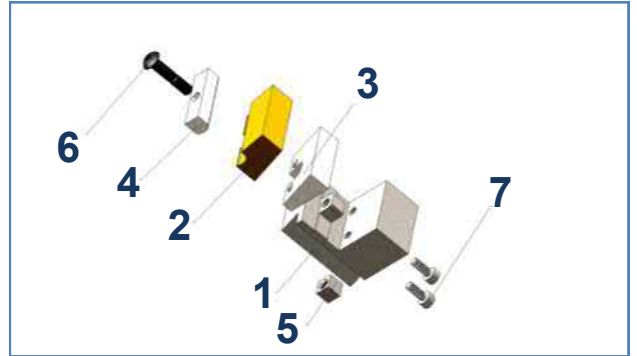
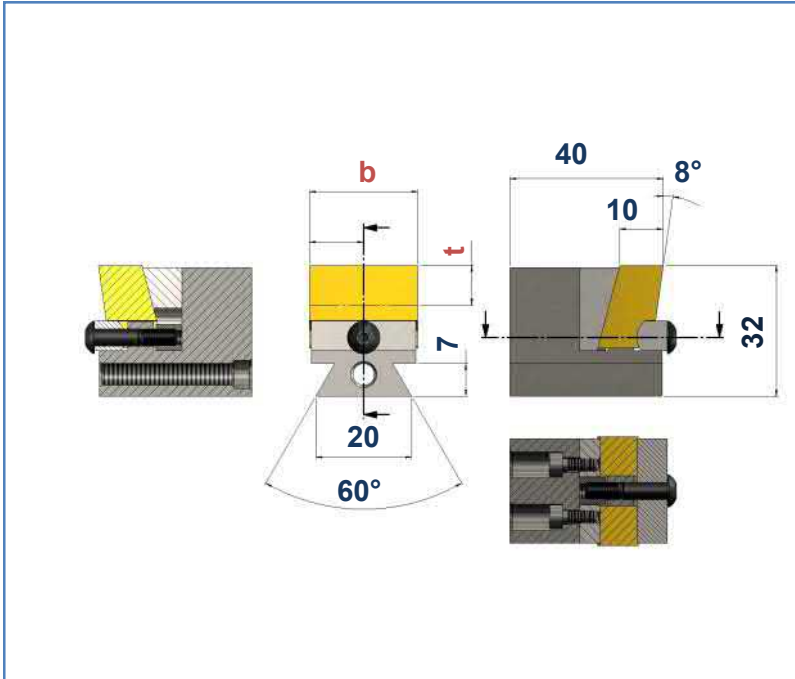
System AWN-20-BFH / Système AWN-20-BFH

AWN-20-BFH-...M

max. Formtiefe: t = 9 mm

max. depth of form: t = 9 mm

max. profondeur de profil: t = 9 mm



	AWN20-BFH-20-M b = 20	AWN20-BFH-25-M b = 25	AWN20-BFH-30-M b = 30	AWN20-BFH-35-M b = 35	AWN20-BFH-40-M b = 40
	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.
1	100634 AWN20-BFH-20-M	100636 AWN20-BFH-25-M	100637 AWN20-BFH-30-M	100638 AWN20-BFH-35-M	100639 AWN20-BFH-40-M
2	100670 BFP-20-FK	100674 BFP-25-FK	100681 BFP-30-FK	100685 BFP-35-FK	100691 BFP-40-FK
	100671 BFP-20-K10	100677 BFP-25-K10	100682 BFP-30-K10	100687 BFP-35-K10	100693 BFP-40-K10
3	101662 GP-20	101663 GP-25	101664 GP-30	101665 GP-35	101666 GP-40
4	102098 KL-20	102099 KL-25	102100 KL-30	102101 KL-35	102102 KL-40
5	101681 GS-4	101681 GS-4	101681 GS-4	101681 GS-4	101681 GS-4
6	103429 SP-19 Torx T15	103429 SP-19 Torx T15	103429 SP-19 Torx T15	103429 SP-19 Torx T15	103429 SP-19 Torx T15
7	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5



System AWN-20-BFH

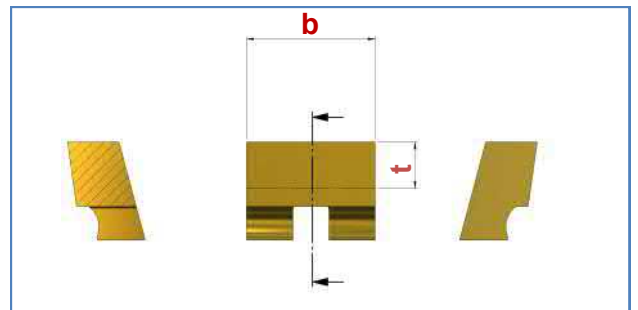
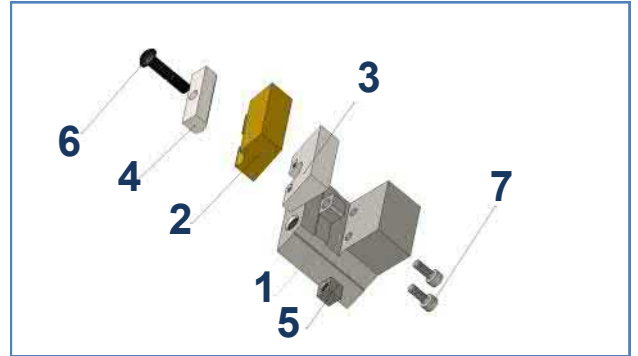
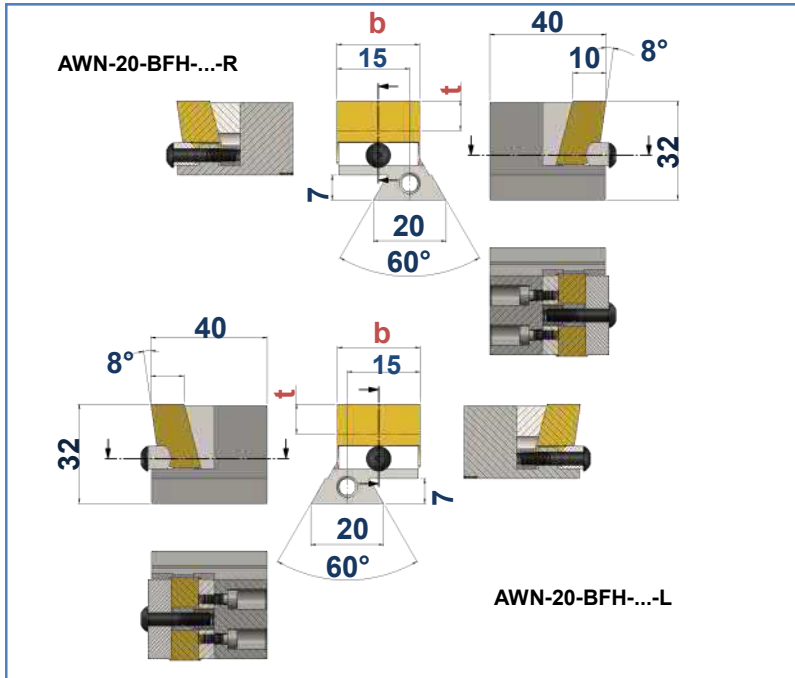
System AWN-20-BFH / Système AWN-20-BFH

AWN-20-BFH-...-R/L

max. Formtiefe: $t = 9$ mm

max. depth of form: $t = 9$ mm

max. profondeur de profil: $t = 9$ mm



	AWN-20-BFH-20-R b = 20	AWN-20-BFH-20-L b = 20
	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.
1	100635 AWN20-BFH-20-R	100633 AWN20-BFH-20-L
2	100670 BFP-20-FK	100670 BFP-20-FK
	100671 BFP-20-K10	100671 BFP-20-K10
3	101662 GP-20	101662 GP-20
4	102098 KL-20	102098 KL-20
5	101681 GS-4	101681 GS-4
6	103429 SP-19 Torx T15	103429 SP-19 Torx T15
7	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5

System AWN-28-BFH

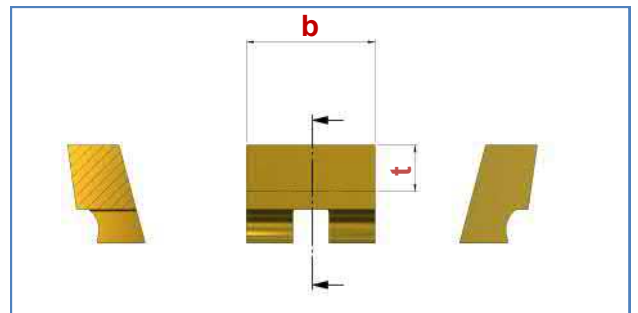
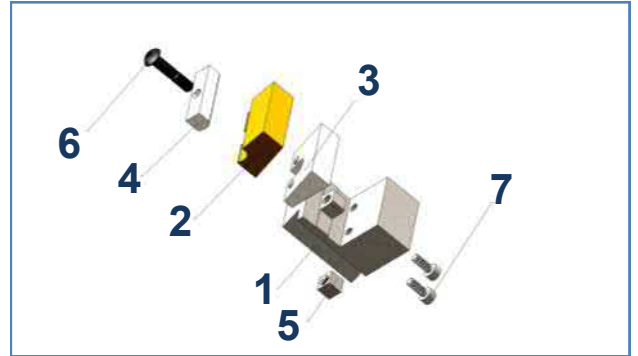
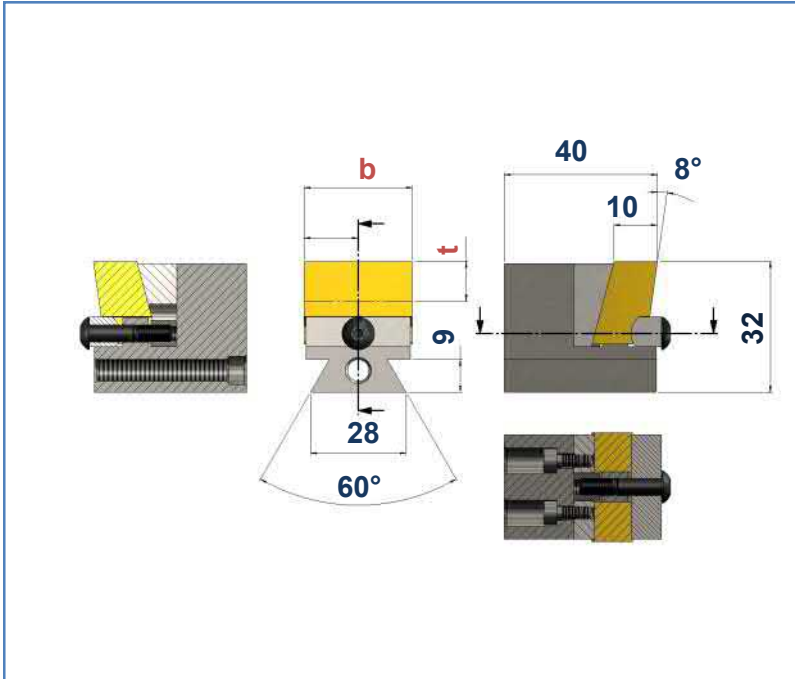
System AWN-28-BFH / Système AWN-28-BFH

AWN-28-BFH-...M

max. Formtiefe: $t = 9$ mm

max. depth of form: $t = 9$ mm

max. profondeur de profil: $t = 9$ mm



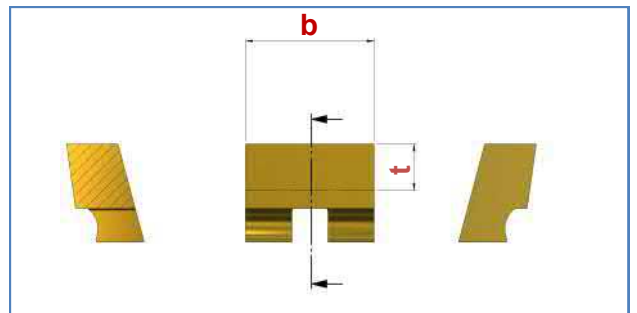
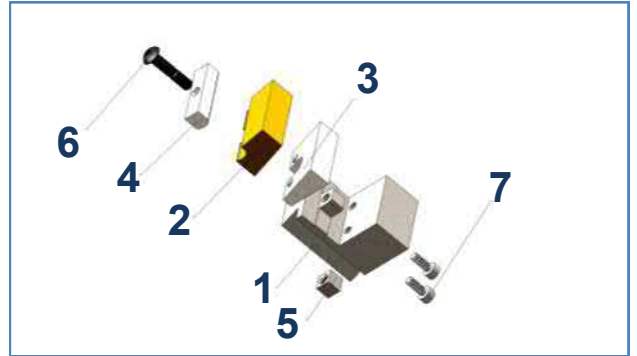
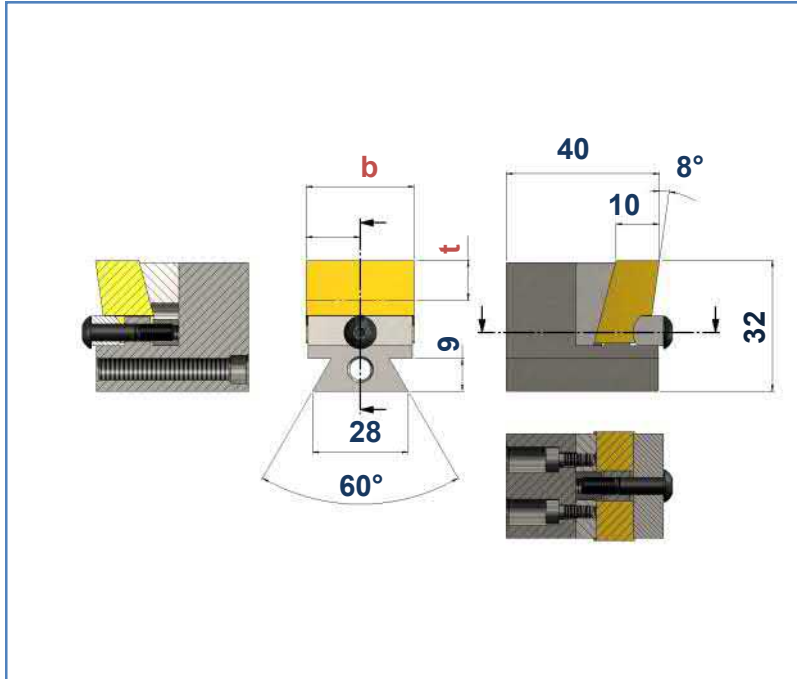
	AWN28-BFH-20-M b = 20	AWN28-BFH-25-M b = 25	AWN28-BFH-30-M b = 30
	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.
1	100642 AWN28-BFH-20-M	100646 AWN28-BFH-25-M	100648 AWN28-BFH30-M
2	100670 BFP-20-FK	100674 BFP-25-FK	100681 BFP-30-FK
	100671 BFP-20-K10	100677 BFP-25-K10	100682 BFP-30-K10
3	101662 GP-20	101663 GP-25	101664 GP-30
4	102098 KL-20	102099 KL-25	102100 KL-30
5	101681 GS-4	101681 GS-4	101681 GS-4
6	103429 SP-19 Torx T15	103429 SP-19 Torx T15	103429 SP-19 Torx T15
7	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5

System AWN-28-BFH

System AWN-28-BFH / Système AWN-28-BFH

AWN-28-BFH-...M

max. Formtiefe: $t = 9$ mm
 max. depth of form: $t = 9$ mm
 max. profondeur de profil: $t = 9$ mm



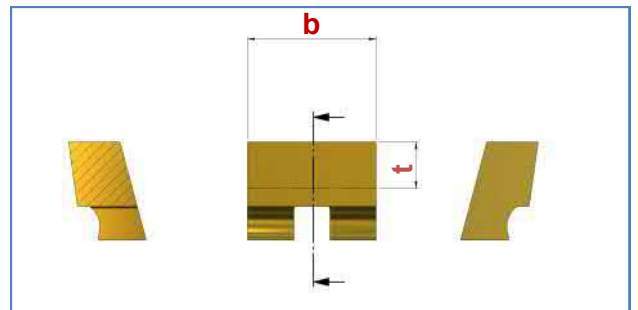
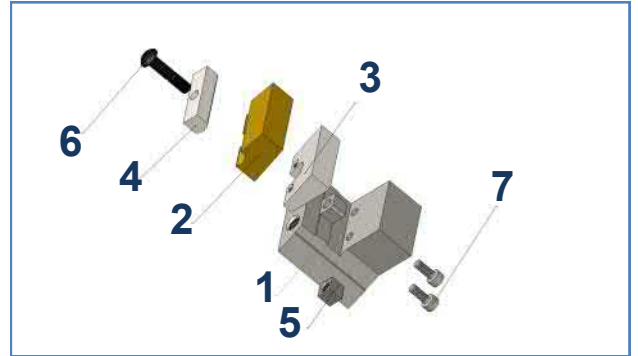
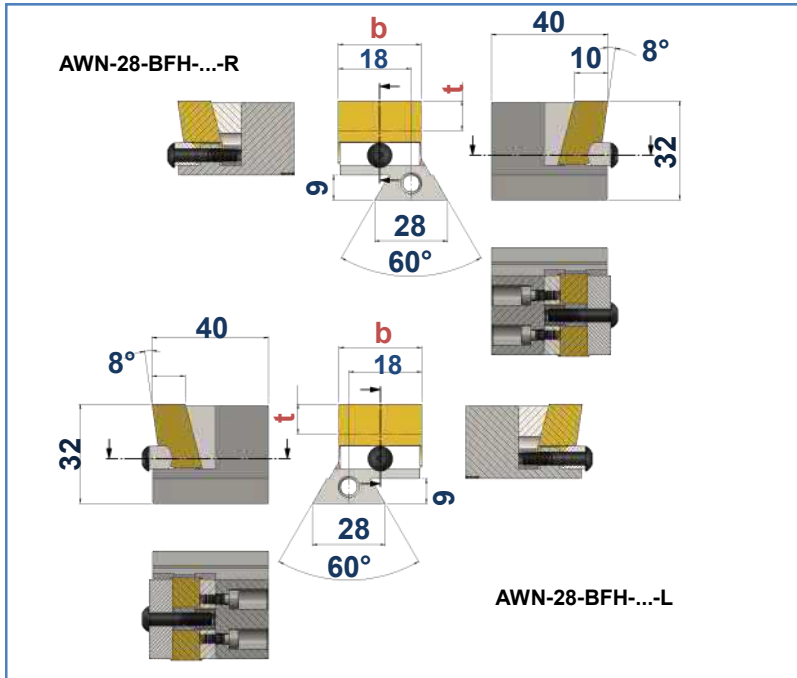
	AWN28-BFH-35-M b = 35	AWN28-BFH-40-M b = 40	AWN28-BFH-50-M b = 50
	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.
1	100650 AWN28-BFH35-M	100651 AWN28-BFH40-M	100652 AWN28-BFH-50-M
2	100685 BFP-35-FK	100691 BFP-40-FK	100697 BFP-50-FK
	100687 BFP-35-K10	100693 BFP-40-K10	100698 BFP-50-K10
3	101665 GP-35	101666 GP-40	101667 GP-50
4	102101 KL-35	102102 KL-40	102103 KL-50
5	101681 GS-4	101681 GS-4	101681 GS-4
6	103429 SP-19 Torx T15	103429 SP-19 Torx T15	103429 SP-19 Torx T15
7	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5

System AWN-28-BFH

System AWN-28-BFH / Système AWN-28-BFH

AWN-28-BFH-...-R/L

max. Formtiefe: $t = 9$ mm
 max. depth of form: $t = 9$ mm
 max. profondeur de profil: $t = 9$ mm



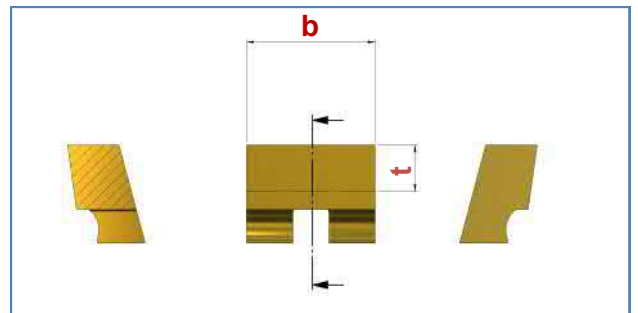
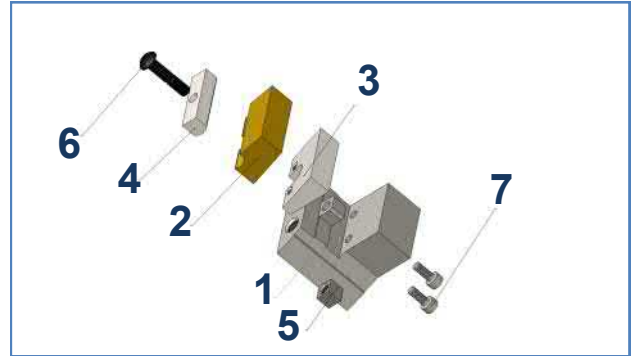
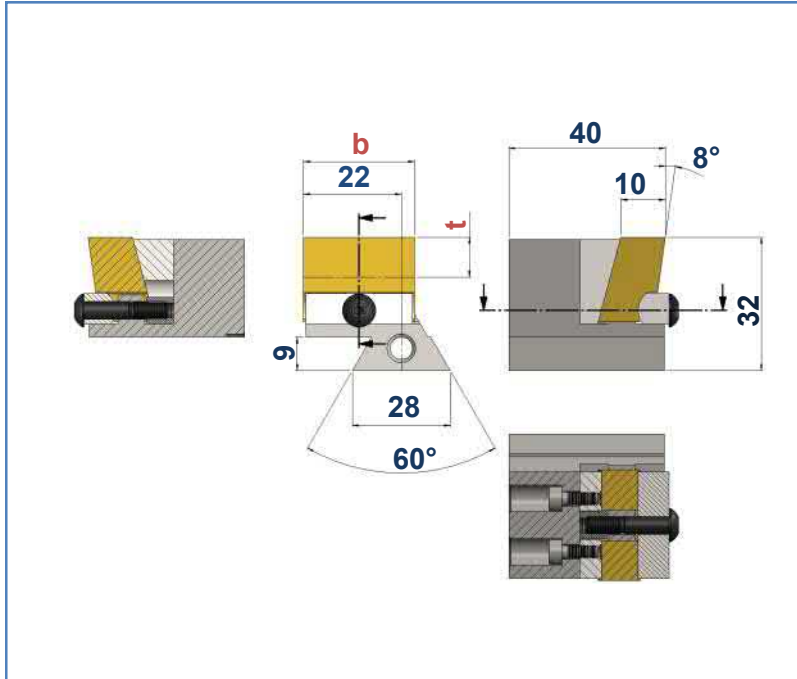
	AWN-28-BFH-20-R b = 20	AWN-28-BFH-20-L b = 20	AWN-28-BFH-25-R b = 25	AWN-28-BFH-25-L b = 25
	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.
1	100643 AWN28-BFH-20-R	100641 AWN28-BFH-20-L	100647 AWN28-BFH-25-R	100645 AWN28-BFH25-L
2	100670 BFP-20-FK	100670 BFP-20-FK	100674 BFP-25-FK	100674 BFP-25-FK
	100671 BFP-20-K10	100671 BFP-20-K10	100677 BFP-25-K10	100677 BFP-25-K10
3	101662 GP-20	101662 GP-20	101663 GP-25	101663 GP-25
4	102098 KL-20	102098 KL-20	102099 KL-25	102099 KL-25
5	101681 GS-4	101681 GS-4	101681 GS-4	101681 GS-4
6	103429 SP-19 Torx T15	103429 SP-19 Torx T15	103429 SP-19 Torx T15	103429 SP-19 Torx T15
7	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5

System AWN-28-8-BFH

System AWN-28-8-BFH / Système AWN-28-8-BFH

AWN-28-8-BFH-...

max. Formtiefe: $t = 9$ mm
 max. depth of form: $t = 9$ mm
 max. profondeur de profil: $t = 9$ mm



	AWN-28-8-BFH-20-R b = 20	AWN-28-8-BFH-25-R b = 25	AWN-28-8-BFH-30-R b = 30
	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.
1	100644 AWN28-8-BFH-20-R	108550 AWN28-8-BFH-25-R	100649 AWN28-8-BFH-30-R
2	100670 BFP-20-FK	100674 BFP-25-FK	100681 BFP-30-FK
	100671 BFP-20-K10	100677 BFP-25-K10	100682 BFP-30-K10
3	101662 GP-20	101663 GP-25	101664 GP-30
4	102098 KL-20	102099 KL-25	102100 KL-30
5	101681 GS-4	101681 GS-4	101681 GS-4
6	103429 SP-19 Torx T15	103429 SP-19 Torx T15	103429 SP-19 Torx T15
7	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5

System AWN-40-BFH

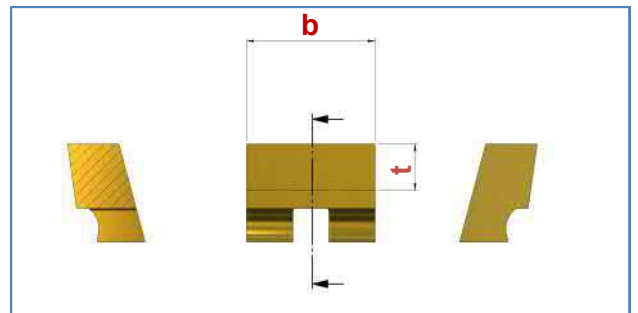
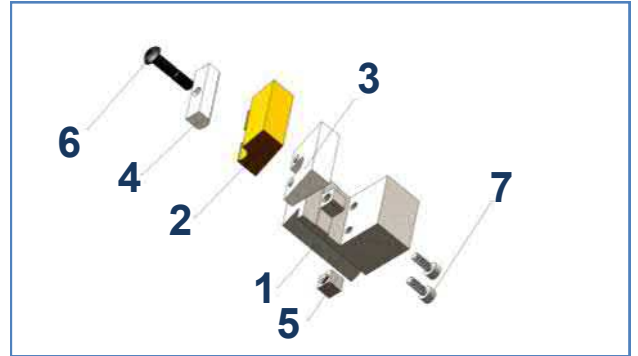
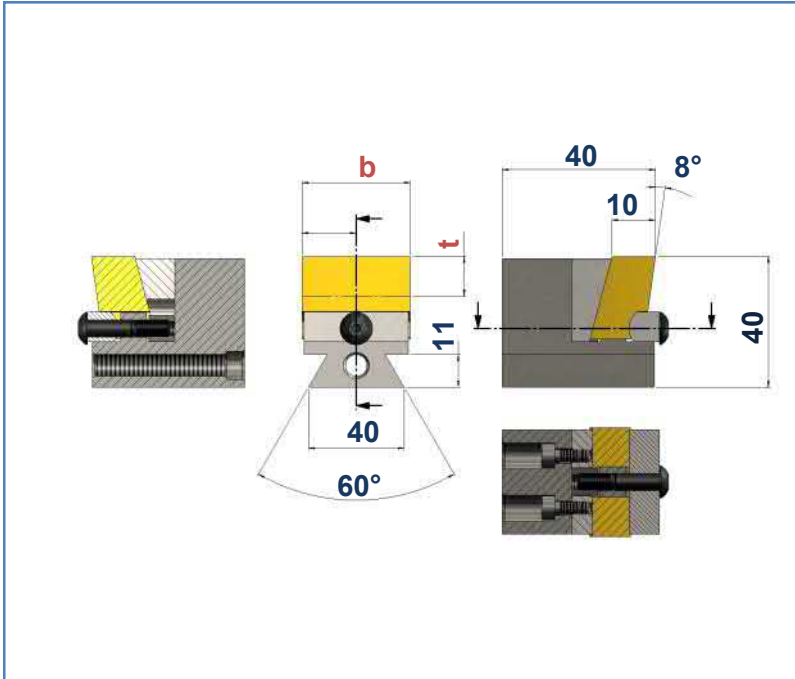
System AWN-40-BFH / Système AWN-40-BFH

AWN-40-BFH-...M

max. Formtiefe: $t = 9$ mm

max. depth of form: $t = 9$ mm

max. profondeur de profil: $t = 9$ mm



	AWN40-BFH-40-M b = 40	AWN28-BFH-50-M b = 50
	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.
1	100662 AWN40-BFH-40-M	100663 AWN40-BFH-50-M
2	100691 BFP-40-FK	100697 BFP-50-FK
	100693 BFP-40-K10	100698 BFP-50-K10
3	101666 GP-40	101667 GP-50
4	102102 KL-40	102103 KL-50
5	101681 GS-4	101681 GS-4
6	103429 SP-19 Torx T15	103429 SP-19 Torx T15
7	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5

System AWN-40-BFH

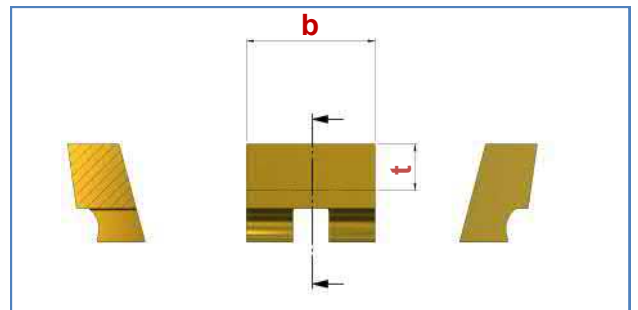
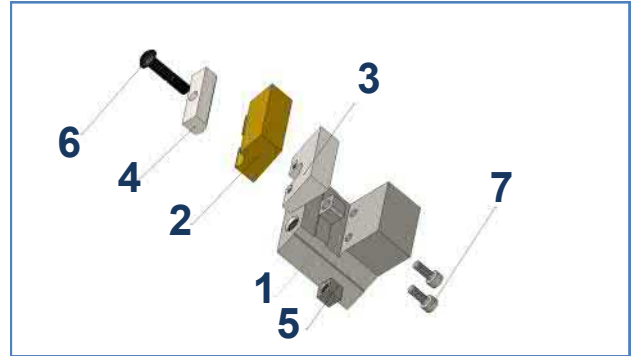
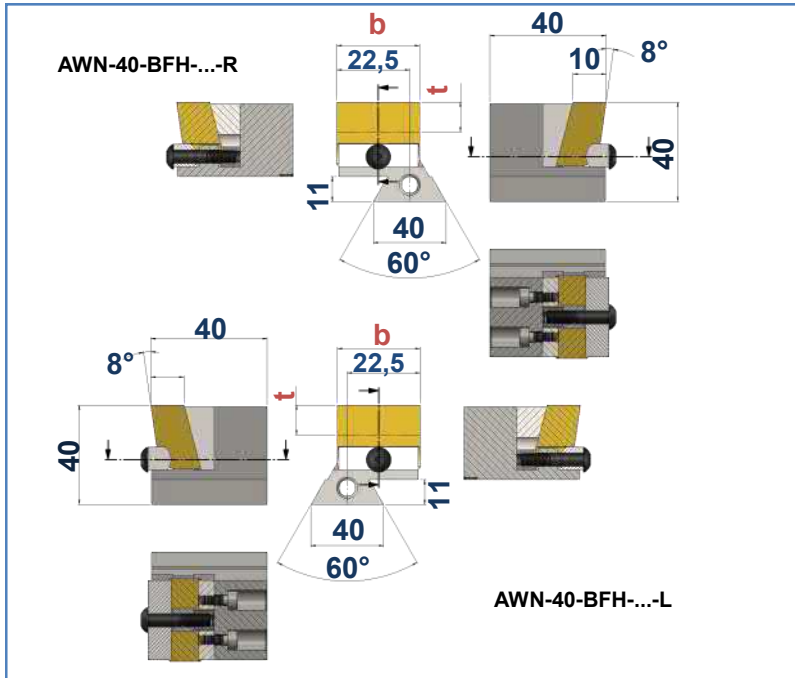
System AWN-40-BFH / Système AWN-40-BFH

AWN-40-BFH-...-R/L

max. Formtiefe: t = 9 mm

max. depth of form: t = 9 mm

max. profondeur de profil: t = 9 mm



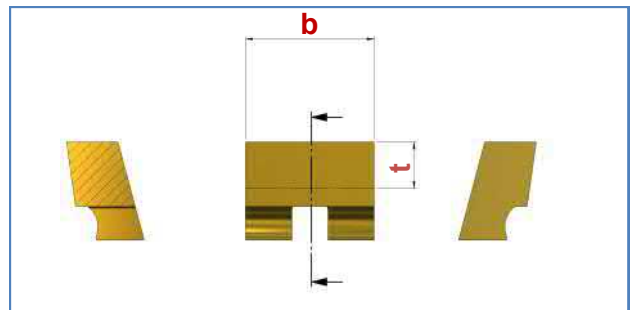
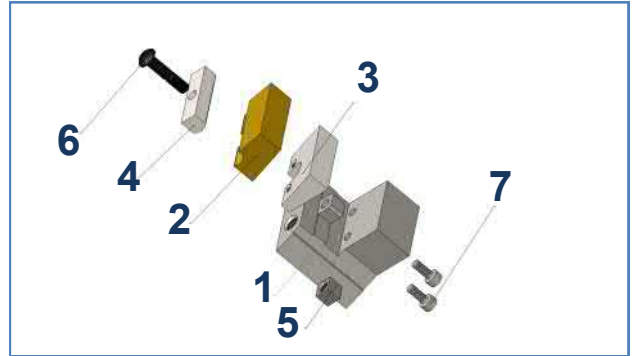
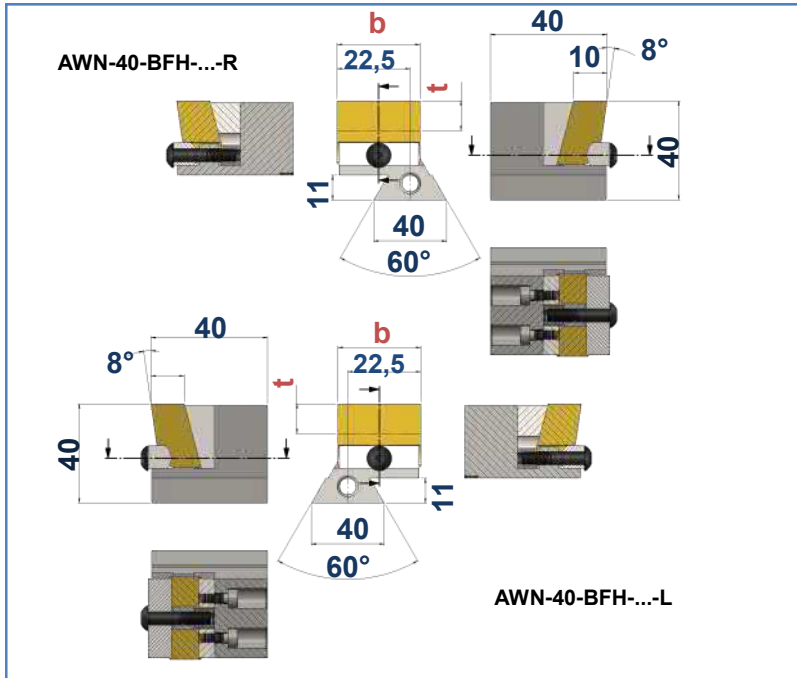
	AWN-40-BFH-20-R b = 20	AWN-40-BFH-20-L b = 20	AWN-40-BFH-25-R b = 25	AWN-40-BFH-25-L b = 25
	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.
1	100655 AWN40-BFH-20-R	100654 AWN40-BFH-20-L	100657 AWN40-BFH-25-R	100656 AWN40-BFH-25-L
2	100670 BFP-20-FK	100670 BFP-20-FK	100674 BFP-25-FK	100674 BFP-25-FK
3	100671 BFP-20-K10	100671 BFP-20-K10	100677 BFP-25-K10	100677 BFP-25-K10
4	101662 GP-20	101662 GP-20	101663 GP-25	101663 GP-25
5	102098 KL-20	102098 KL-20	102099 KL-25	102099 KL-25
6	101681 GS-4	101681 GS-4	101681 GS-4	101681 GS-4
7	103429 SP-19 Torx T15	103429 SP-19 Torx T15	103429 SP-19 Torx T15	103429 SP-19 Torx T15
7	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5

System AWN-40-BFH

System AWN-40-BFH / Système AWN-40-BFH

AWN-40-BFH-...-R/L

max. Formtiefe: $t = 9$ mm
 max. depth of form: $t = 9$ mm
 max. profondeur de profil: $t = 9$ mm



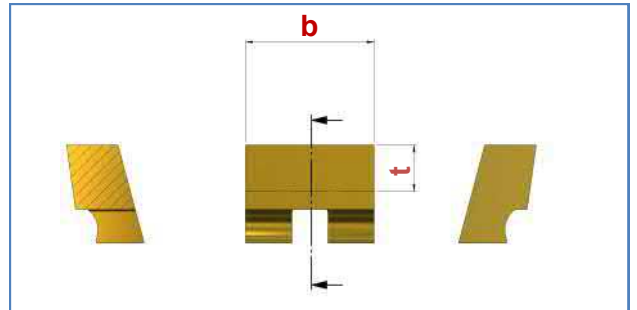
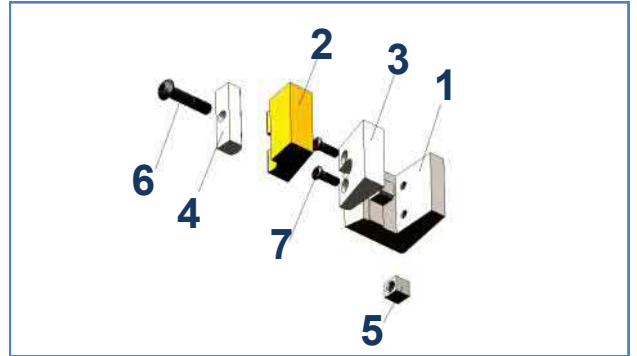
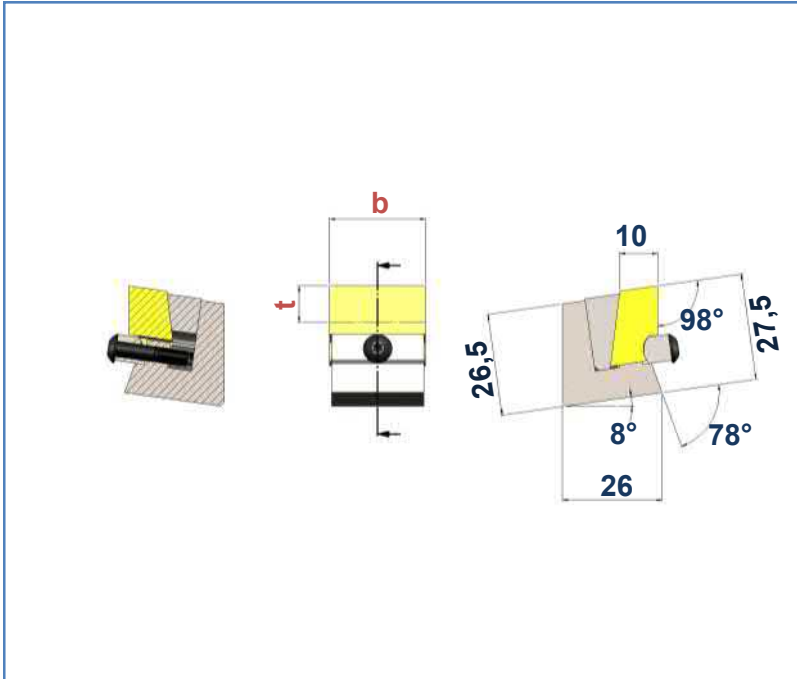
	AWN-40-BFH-30-R b = 30	AWN-40-BFH-30-L b = 30	AWN-40-BFH-35-R b = 35	AWN-40-BFH-35-L b = 35
	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.
1	100659 AWN40-BFH-30-R	100658 AWN40-BFH30-L	100661 AWN40-BFH-35-R	100660 AWN40-BFH-35-L
2	100681 BFP-30-FK	100681 BFP-30-FK	100685 BFP-35-FK	100685 BFP-35-FK
	100682 BFP-30-K10	100682 BFP-30-K10	100687 BFP-35-K10	100687 BFP-35-K10
3	101664 GP-30	101664 GP-30	101665 GP-35	101665 GP-35
4	102100 KL-30	102100 KL-30	102101 KL-35	102101 KL-35
5	101681 GS-4	101681 GS-4	101681 GS-4	101681 GS-4
6	103429 SP-19 Torx T15	103429 SP-19 Torx T15	103429 SP-19 Torx T15	103429 SP-19 Torx T15
7	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5

System I-BFH

System I-BFH / Système I-BFH

I-BFH-..

max. Formtiefe: $t = 9$ mm
 max. depth of form: $t = 9$ mm
 max. profondeur de profil: $t = 9$ mm



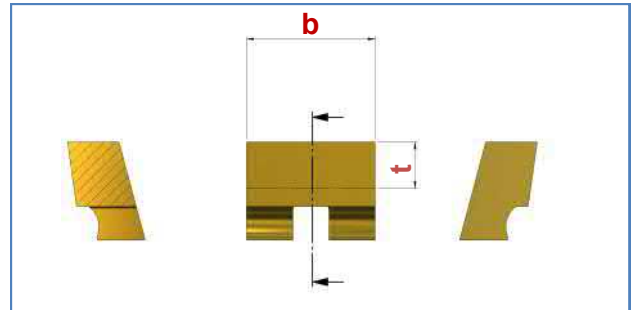
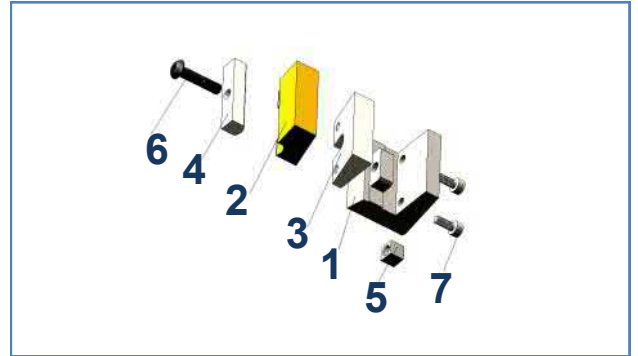
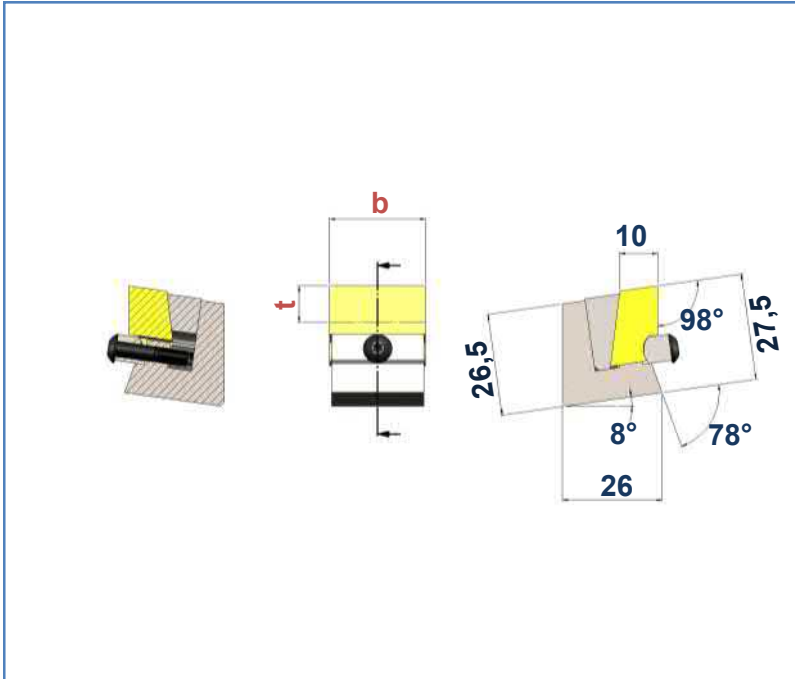
	I-BFH-20 b = 20	I-BFH-25 b = 25
	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.
1	101983 I-BFH-20	101985 I-BFH-25
2	100670 BFP-20-FK	100674 BFP-25-FK
	100671 BFP-20-K10	100677 BFP-25-K10
3	101990 I-GP-20	101991 I-GP-25
4	102098 KL-20	102099 KL-25
5	101681 GS-4	101681 GS-4
6	103429 SP-19 Torx T15	103429 SP-19 Torx T15
7	107349 M3x8 T10	107349 M3x8 T10

System I-BFH

System I-BFH / Système I-BFH

I-BFH-..

max. Formtiefe: $t = 9$ mm
 max. depth of form: $t = 9$ mm
 max. profondeur de profil: $t = 9$ mm



	I-BFH-30 b = 30	I-BFH-35 b = 35	I-BFH-40 b = 40	I-BFH-50 b = 50
	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.
1	101986 I-BFH-30	101987 I-BFH-35	101988 I-BFH-40	101989 I-BFH-50
2	100681 BFP-30-FK	100685 BFP-35-FK	100691 BFP-40-FK	100697 BFP-50-FK
	100682 BFP-30-K10	100687 BFP-35-K10	100693 BFP-40-K10	100698 BFP-50-K10
3	101664 GP-30	101665 GP-35	101666 GP-40	101667 GP-50
4	102100 KL-30	102101 KL-35	102102 KL-40	102103 KL-50
5	101681 GS-4	101681 GS-4	101681 GS-4	101681 GS-4
6	103429 SP-19 Torx T15	103429 SP-19 Torx T15	103429 SP-19 Torx T15	103429 SP-19 Torx T15
7	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5



System I-BFHN

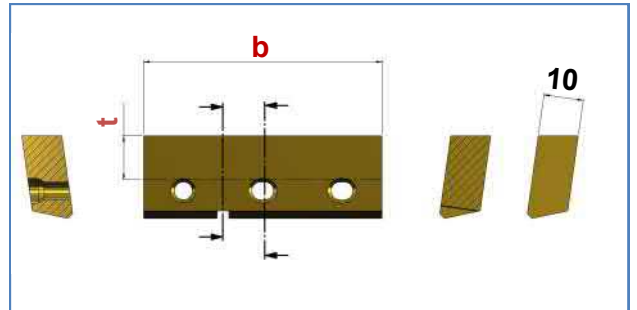
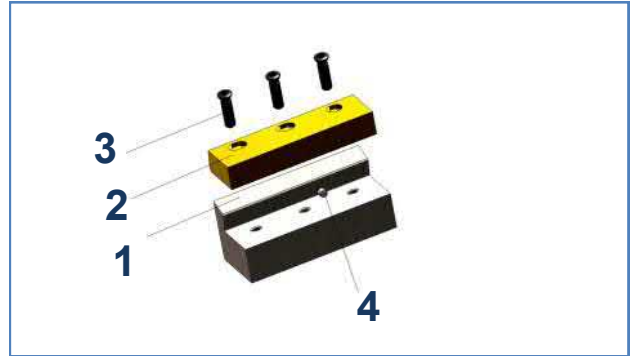
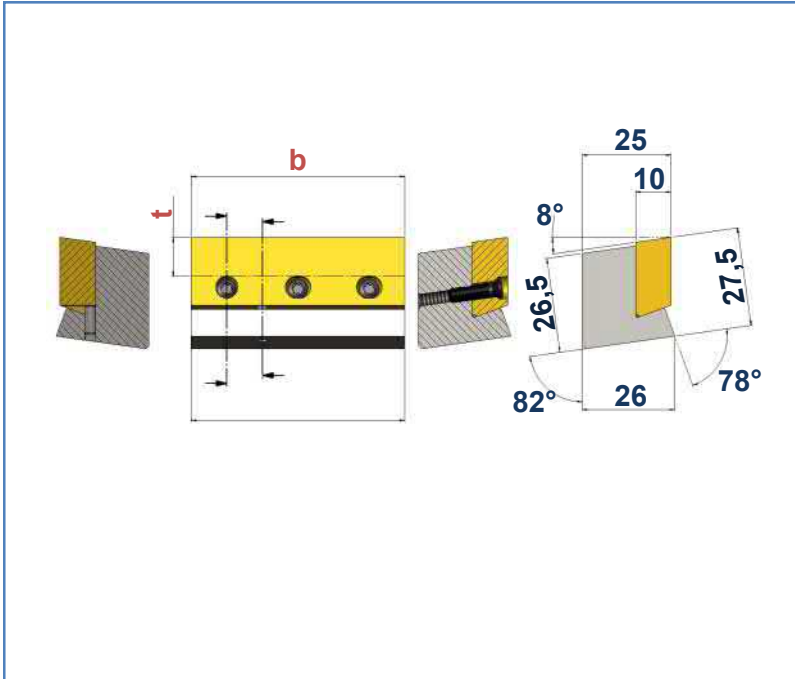
System I-BFHN / Système I-BFHN

I-BFHN-60

max. Formtiefe: $t = 11$ mm

max. depth of form: $t = 11$ mm

max. profondeur de profil: $t = 11$ mm



	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	HM-Sorte Carbide gra- de Nuance de carbure
1	108533	I-BFHN-60	Grundhalter / Basic tool holder / Porte-outil de base	60	
2	108712	BFPN-10-60-UFK2	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	60	UFK-2
3	102214	M4x15 Torx T15	Spannschraube / Fixing screw / Vis de fixation		
4	107394	Ø3m6 x 8- DIN 6325	Anschlagstift / Dowel / Goujon de butée		

System I-BFHN

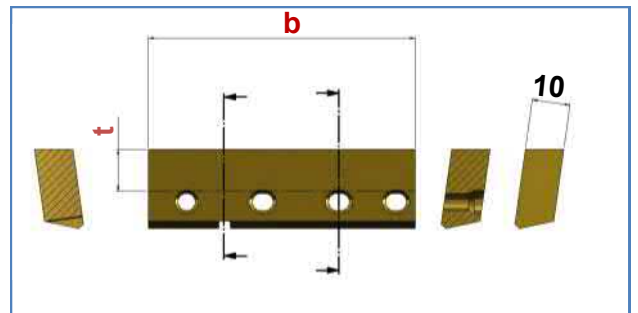
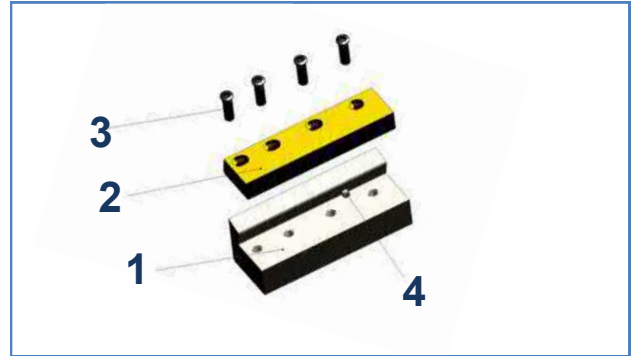
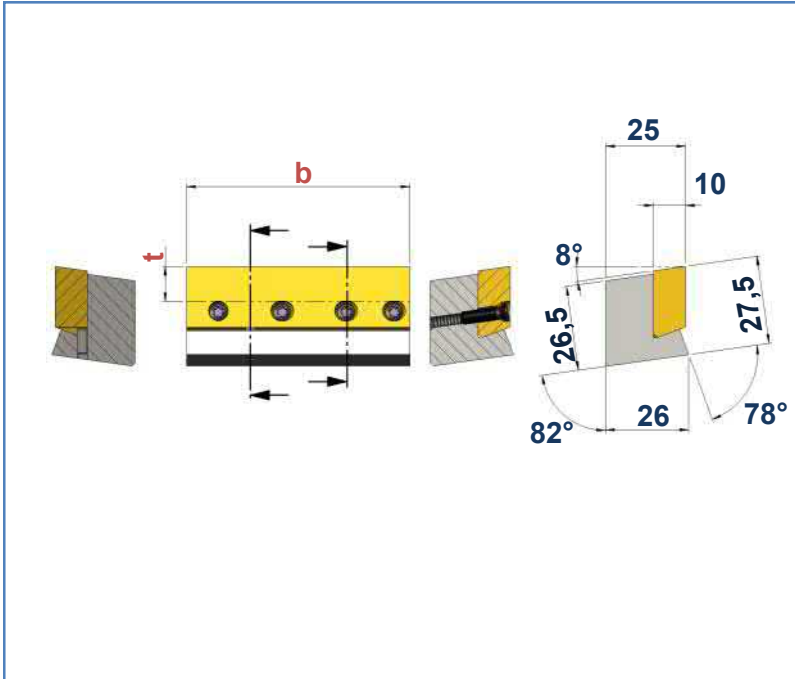
System I-BFHN / Système I-BFHN

I-BFHN-70

max. Formtiefe: $t = 11$ mm

max. depth of form: $t = 11$ mm

max. profondeur de profil: $t = 11$ mm



	Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	Bezeichnung Description Désignation	b mm	HM-Sorte Carbide gra- de Nuance de carbure
1	108069	I-BFHN-70	Grundhalter / Basic tool holder / Porte-outil de base	70	
2	108440	BFPN-10-70-UFK2	HM-Wechselplatten / Carbide inserts / Plaquettes échangeables en carbure	70	UFK-2
3	102214	M4x15 Torx T15	Spannschraube / Fixing screw / Vis de fixation		
4	107394	Ø3m6 x 8- DIN 6325	Anschlagstift / Dowel / Goujon de butée		

System GM1-BFH

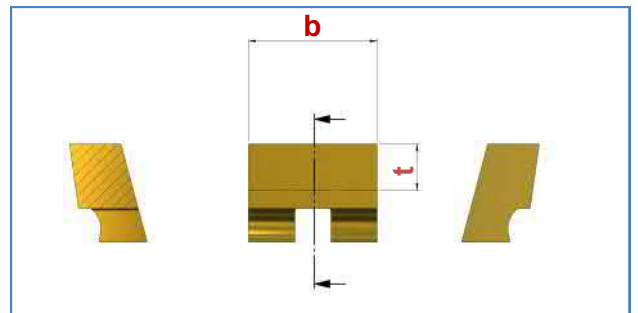
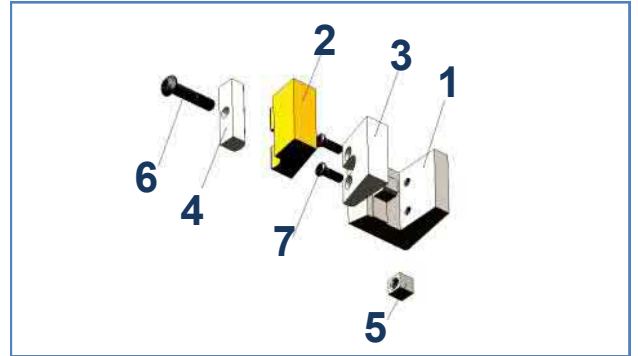
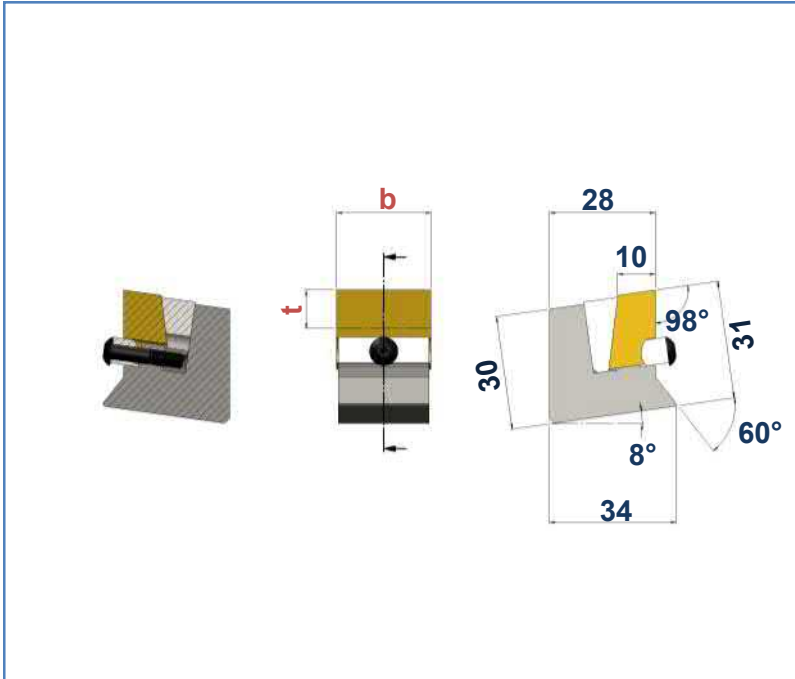
System GM1-BFH / Système GM1-BFH

GM1-BFH-...

max. Formtiefe: $t = 9$ mm

max. depth of form: $t = 9$ mm

max. profondeur de profil: $t = 9$ mm



	GM1-BFH-20 b=20	GM1-BFH-25 b=25
	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.
1	108544 GM1-BFH-20	108545 GM1-BFH-25
2	100670 BFP-20-FK	100674 BFP-25-FK
	100671 BFP-20-K10	100677 BFP-25-K10
3	101990 I-GP-20	101991 I-GP-25
4	102098 KL-20	102099 KL-25
5	101681 GS-4	101681 GS-4
6	103429 SP-19 Torx T15	103429 SP-19 Torx T15
7	107349 M3x8 T10	107349 M3x8 T10

System GM1-BFH

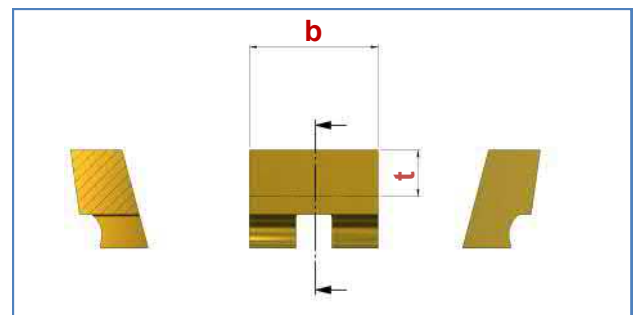
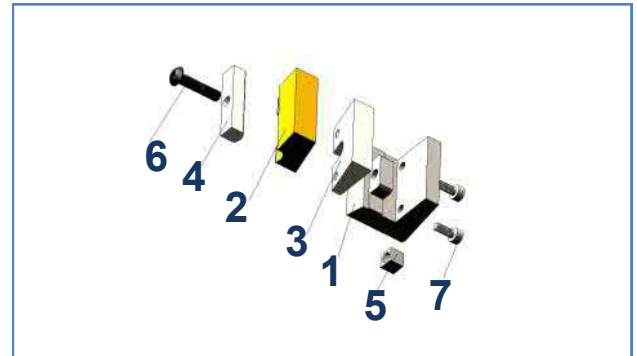
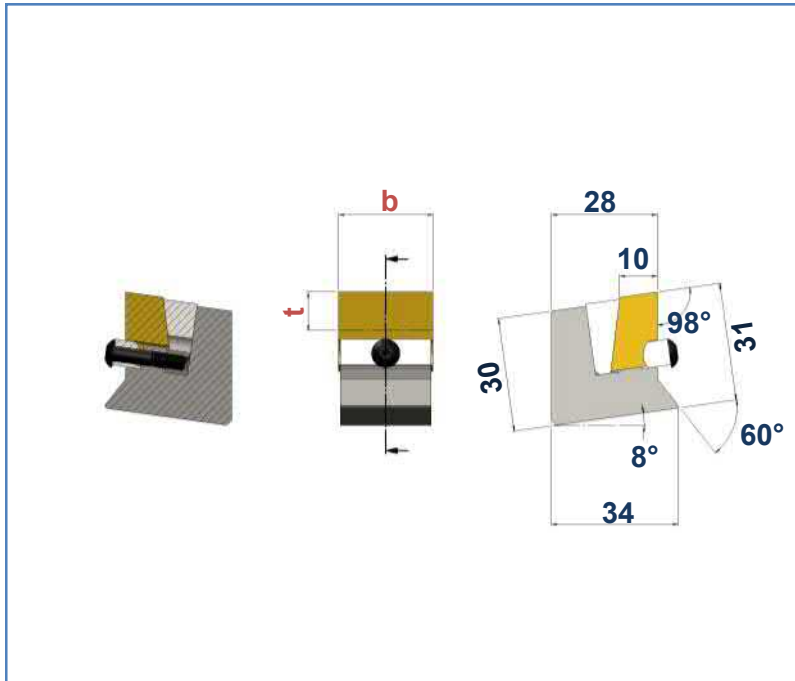
System GM1-BFH / Système GM1-BFH

GM1-BFH-...

max. Formtiefe: t = 9 mm

max. depth of form: t = 9 mm

max. profondeur de profil: t = 9 mm



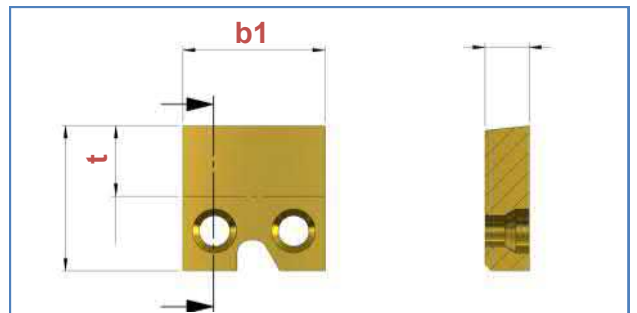
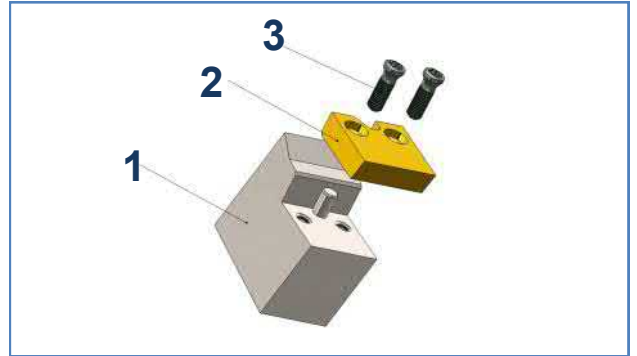
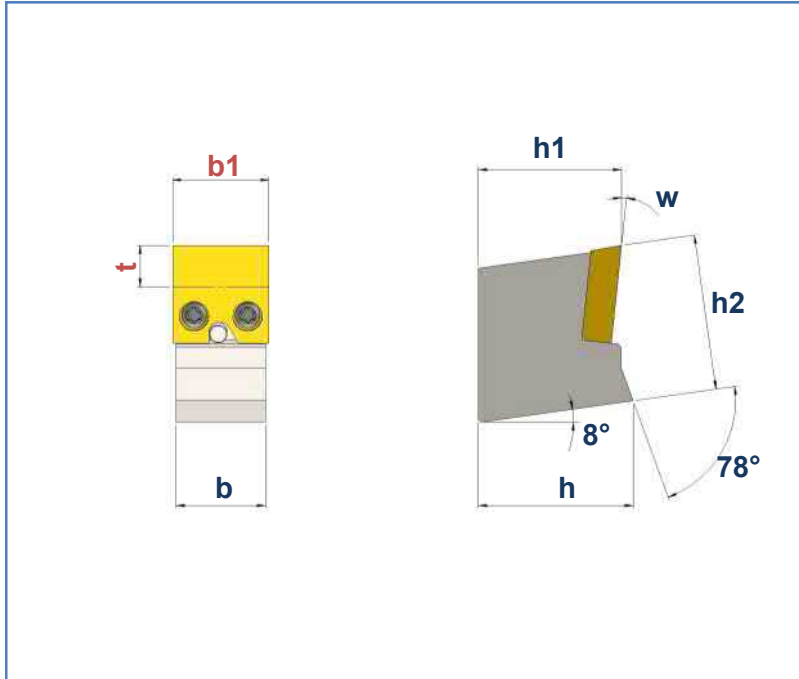
	GM1-BFH-30 b=30	GM1-BFH-35 b = 35	GM1-BFH-40 b = 40	GM1-BFH-50 b = 50
	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.	Art. Nr. / Item no. / No. d'art. Best. Nr. / Ref. no. / Réf.
1	108546 GM1-BFH-30	108547 GM1-BFH-35	108548 GM1-BFH-40	108549 GM1-BFH-50
2	100681 BFP-30-FK	100685 BFP-35-FK	100691 BFP-40-FK	100697 BFP-50-FK
	100682 BFP-30-K10	100687 BFP-35-K10	100693 BFP-40-K10	100698 BFP-50-K10
3	101664 GP-30	101665 GP-35	101666 GP-40	101667 GP-50
4	102100 KL-30	102101 KL-35	102102 KL-40	102103 KL-50
5	101681 GS-4	101681 GS-4	101681 GS-4	101681 GS-4
6	103429 SP-19 Torx T15	103429 SP-19 Torx T15	103429 SP-19 Torx T15	103429 SP-19 Torx T15
7	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5	101115 M3x8 DIN912 SW2.5

System I-WPH

System I-WPH / Système I-WPH

I-WPH-...FP...

max. Formtiefe: t
max. depth of form: t
max. profondeur de profil: t



Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	b mm	h mm	h1 mm	h2 mm	w
102002	I-WPH-920.130-FP13-5	15	24	23	20	0°
102003	I-WPH-920.136-FP13-5	15	24	23	20	6°
102009	I-WPH-926.160-FP16	15	26	24	26	0°
102011	I-WPH-926.166-FP16	15	26	24	26	6°
102012	I-WPH-926.200-FP20	19	26	24	26	0°
102013	I-WPH-926.206-FP20	19	26	24	26	6°
102014	I-WPH-926.250-FP25	24	26	24	26	0°
102015	I-WPH-926.256-FP25	24	26	24	26	6°
102016	I-WPH-926.300-FP30	29	26	24	26	0°
102017	I-WPH-926.306-FP30	29	26	24	26	6°

Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	b1 mm	t mm
101531	FP-13-5-K10	13	5
101530	FP-13-5-FK-30	13	4
101531	FP-13-5-K10	13	4
101530	FP-13-5-FK-30	13	4
101536	FP-16-K10	16	8
101535	FP-16-FK-30	16	8
101536	FP-16-K10	16	7
101535	FP-16-FK-30	16	7
101540	FP-20-K10	20	8,5
101539	FP-20-FK-30	20	8,5
101540	FP-20-K10	20	7,5
101539	FP-20-FK-30	20	7,5
101544	FP-25-K10	25	11
101543	FP-25-FK-30	25	11
101544	FP-25-K10	25	10
101543	FP-25-FK-30	25	10
101548	FP-30-K10	30	11
101547	FP-30-FK-30	30	11
101548	FP-30-K10	30	10
101547	FP-30-FK-30	30	10

3

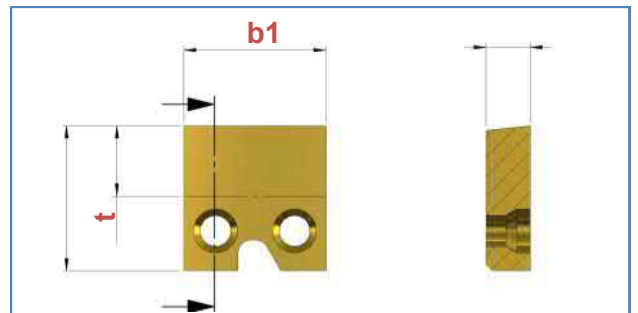
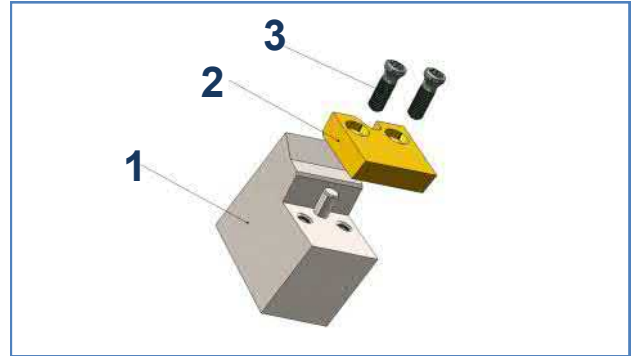
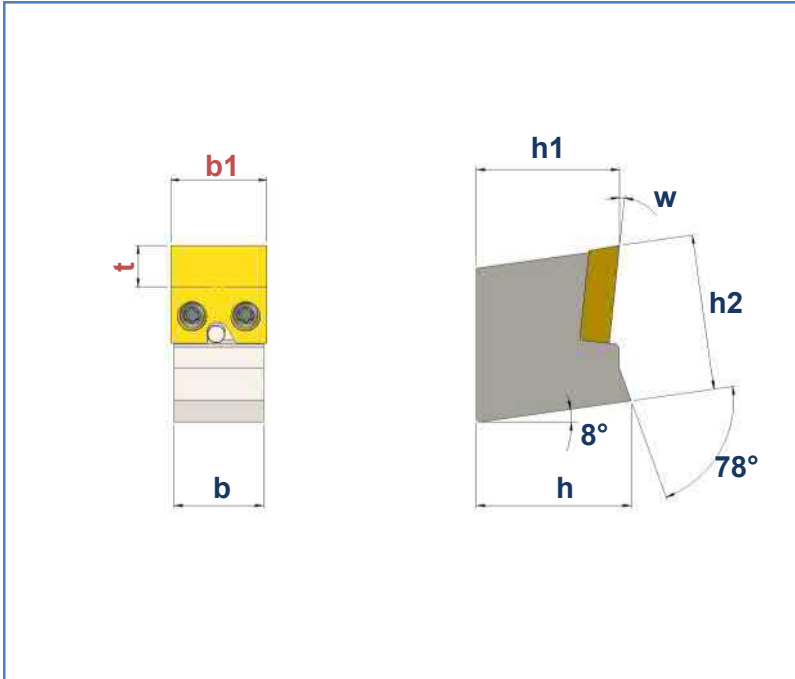
Siehe System FHFP / See System FHFP / Voir système FHFP

System I-WPH

System I-WPH / Système I-WPH

I-WPH-...EB-...

max. Formtiefe: t
max. depth of form: t
max. profondeur de profil: t



Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	b mm	h mm	h1 mm	h2 mm	w
101998	I-WPH-918.160-EB16	15	26	24	18	0°
101999	I-WPH-918.166-EB16	15	26	24	18	6°
102000	I-WPH-918.250-EB25	24	26	24	18	0°
102001	I-WPH-918.256-EB25	24	26	24	18	6°
102004	I-WPH-920.160-EB16	15	24	23	20	0°
102005	I-WPH-920.166-EB16	15	24	23	20	6°
102006	I-WPH-920.250-EB25	24	24	23	20	0°
102007	I-WPH-920.256-EB25	24	24	23	20	6°
102008	I-WPH-926.160-EB16	15	26	24	26	0°
102010	I-WPH-926.166-EB16	15	26	24	26	6°

Art. Nr. Item no. No. d'art.	Best. Nr. Ref. no. Réf.	b1 mm	t mm
101193	EB-16-K10	16	4
101192	EB-16-FK-30	16	3,5
101193	EB-16-K10	16	3,5
101192	EB-16-FK-30	16	3,5
101197	EB-25-K10	25	4
101196	EB-25-FK-30	25	3,5
101197	EB-25-K10	25	3,5
101196	EB-25-FK-30	25	3,5
101193	EB-16-K10	16	4
101192	EB-16-FK-30	16	3,5
101193	EB-16-K10	16	3,5
101192	EB-16-FK-30	16	3,5
101197	EB-25-K10	25	4
101196	EB-25-FK-30	25	3,5
101197	EB-25-K10	25	3,5
101196	EB-25-FK-30	25	3,5
101193	EB-16-K10	16	4
101192	EB-16-FK-30	16	3,5
101193	EB-16-K10	16	3,5
101192	EB-16-FK-30	16	3,5

3 S.h. System FHFP / S. System FHFP / V. système FHFP



System AWN-FP/EB

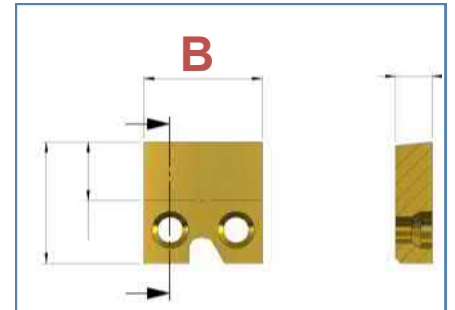
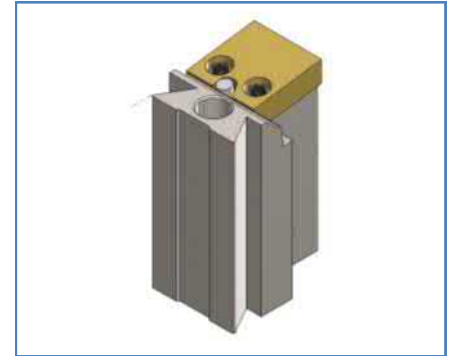
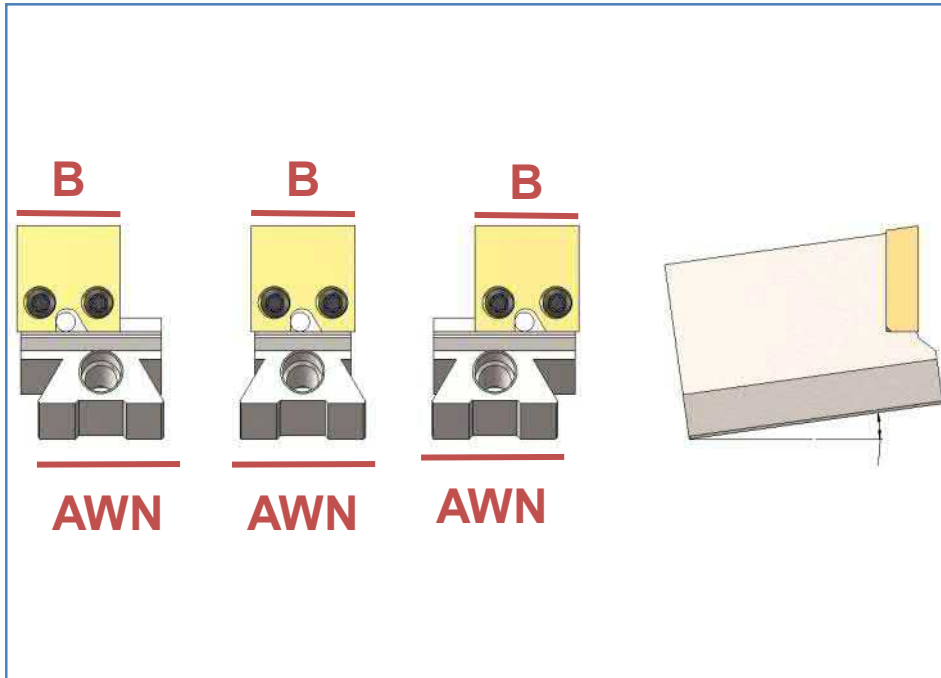
System AWN-FP/EB / Système AWN-FP/EB

AWN-FP/EB

max. Formtiefe: s.h. System FHFP / FHEB

max. depth of form: s. System FHFP / FHEB

max. profondeur de profil: v. System FHFP / FHEB



AWN 15	B = 11mm
AWN 20	B = 13mm
AWN 23	B = 16mm
AWN 28	B = 20mm
.....	B = 25mm
	B = 30mm

Auf Anfrage / On request / Sur demande

Sonderhalter

Special Tool Holders / Porte-outils spéciaux

Alle Wechselplattensysteme aus diesem Katalog können für kundenspezifische Sonderhalter passend gefertigt werden. Die Firma Dieterle ist in der Lage Probleme im Bereich der Werkzeugtechnik zu lösen, auch wenn sie außerhalb des üblichen Standards liegen, und garantiert dabei hohe Qualität und kurze Lieferzeiten. Unser Sortiment umfasst auch profilierte Wechselplatten für Schnellwechselsysteme (z.B. HSK, Capto, VDI, SK, W&F, Eppinger, Benzinger).

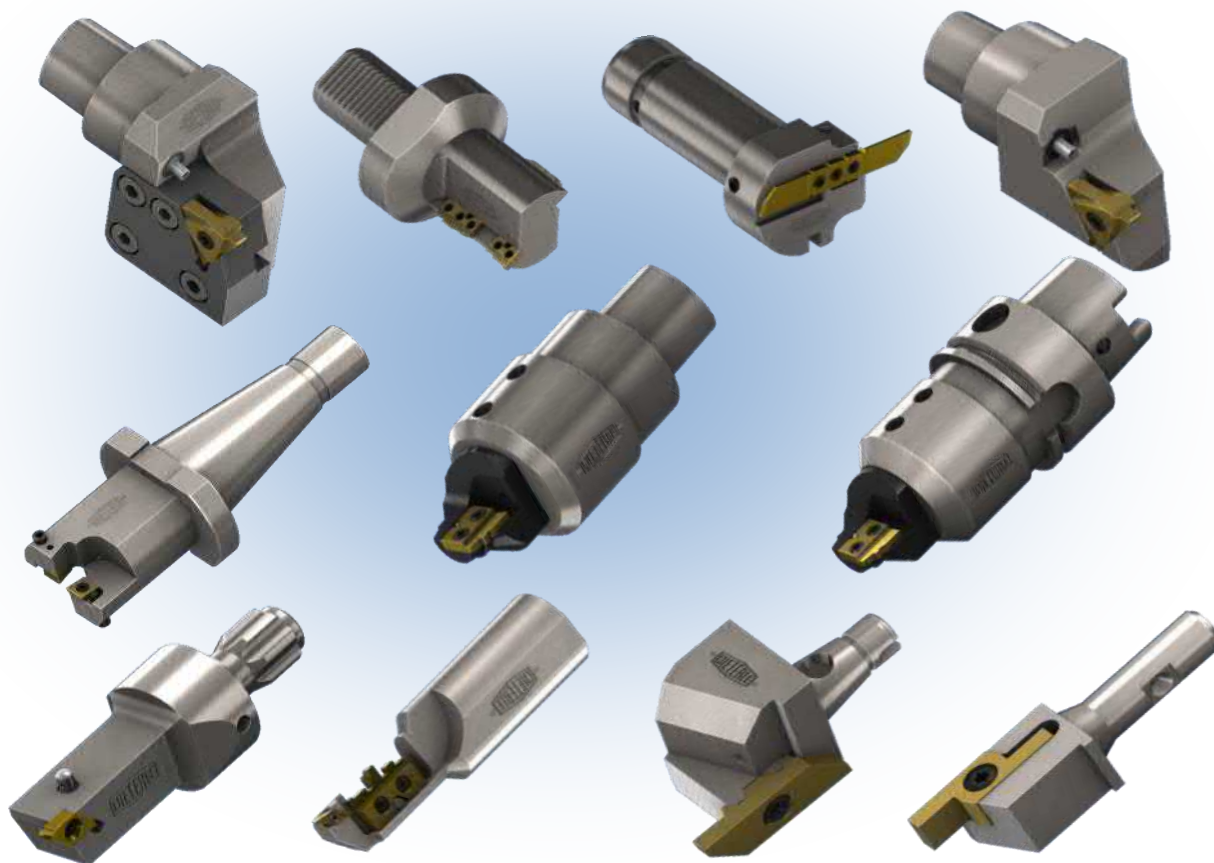
Wir beraten Sie gerne!

All exchangeable insert systems out of this catalogue can be manufactured thus that they are fitting customized special tool holders. Dieterle company is in the position to solve problems in the range of the tooling technology even if they are beyond the usual standards and guarantees high quality and short delivery times. Our product range also comprises profiled inserts for quick-change systems (for example HSK, Capto, VDI, SK, W&F, Eppinger, Benzinger).

We would be pleased to assist you with our advice!

Nous sommes à même d'adapter et de produire tous les systèmes à plaquettes de ce catalogue aux porte-outils spéciaux et personnalisés. La société Dieterle est capable de résoudre des problèmes dans le domaine de la technologie d'outils, même s'ils sont hors du standard habituel et en garantit une haute qualité et des délais de livraisons courts.

Nous vous conseillons volontiers!



Kalibriersysteme

Calibrating Systems / Systèmes de calibration

Das Kalibrieren ist besonders geeignet für den Einsatz auf allen Mehrspindeldrehautomaten.

Der Vorteil des Kalibrierens (auch Tangential-Schlichten genannt) liegt darin, dass der Teilungsfehler durch das Kalibriergerät ausgeglichen wird. Die exakte Einstellung für den Drehdurchmesser wird direkt am Kalibriergerät vorgenommen. Dadurch werden Positionierabweichungen sowie Temperaturschwankungen kompensiert.

Das Kalibrieren wird vorwiegend bei kleinen Durchmesser-toleranzen und hohen Oberflächengüten eingesetzt und garantiert eine hervorragende Prozesssicherheit.

The calibration especially is appropriate for the application on multi-spindle turning lathes.

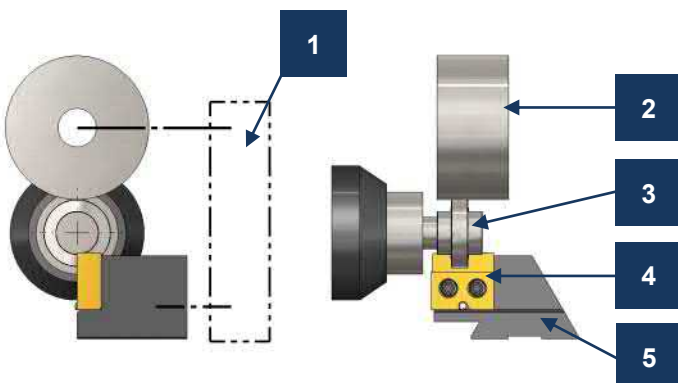
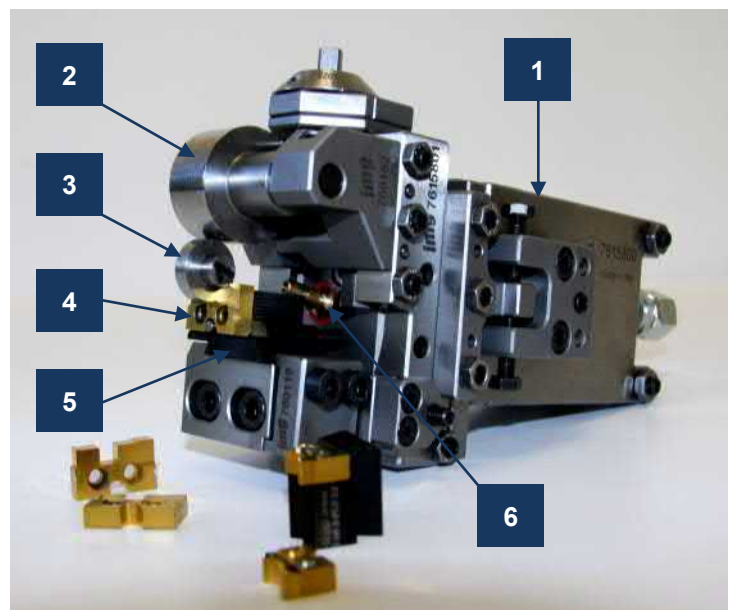
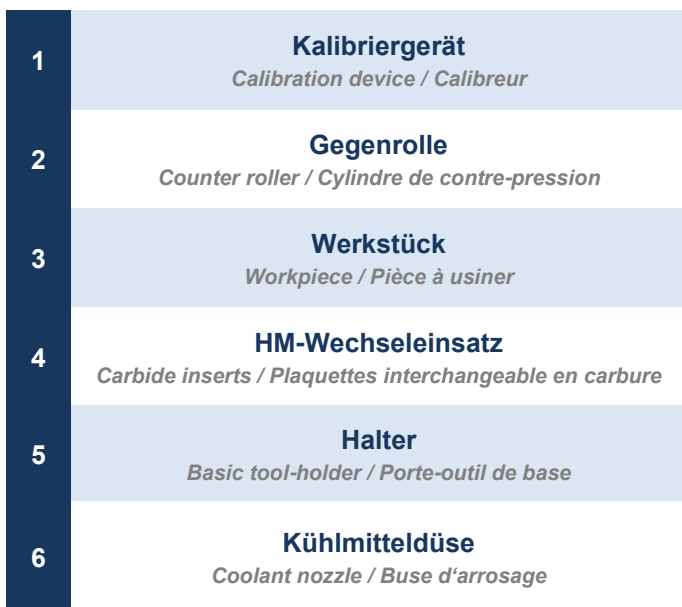
The advantage of the calibration (also called tangential finishing) is that the partition error is compensated by the calibration device. The exact adjustment of the turning diameter is directly made at the calibration device. By this, positioning deviations and temperature fluctuations are balanced.

The calibration is mainly applied for small diameter tolerances and high surface quality and guarantees a high degree of process reliability.

Le calibrage est surtout approprié pour l'usage sur les tours automatiques multibroches.

L'avantage du calibrage (aussi appelé finition tangentielle) est que l'erreur de pas est compensé par le calibreur. Le réglage exact du diamètre de tournage est directement effectué au calibreur. Ainsi on évite un écart de positionnement et des fluctuations de température.

Le calibrage est surtout appliqué aux tolérances de diamètre petites et à une qualité de surface élevée et il garantit une grande sûreté de processus.



Kalibriersysteme

Calibrating Systems / Systèmes de calibration

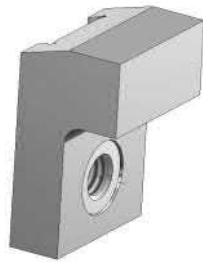
Die Firma Dieterle bietet eine breite Palette an Kalibriersystemen, die an kundenspezifische Bedürfnisse (Maschine, Werkstückeigenschaften, zu bearbeitendes Material) optimal angepasst werden.

Dieterle company offers a wide range of calibrating systems which are optimally adapted to the specific requirements of the customer (machine, properties of the component, material to be machined)

La société Dieterle offre une large gamme de systèmes d'étalonnage que nous pouvons adapter de façon optimale aux demandes spécifiques de nos clients (machine, propriétés de la pièce, matériel à usiner).

Werkzeug aus **Vollhartmetall / HSS** Solid **carbide tools / HSS** Outils en **carbure monobloc / HSS**

System
TOKP-614



AWN 15
AWN 20
AWN 23
AWN 28

Alternativ / alternative HSS

Werkzeug mit **gelötetem Hartmetall** Tool with **brazed carbide** Outil avec **carbure brasé**

AWN 15
AWN 20
AWN 23
AWN 28



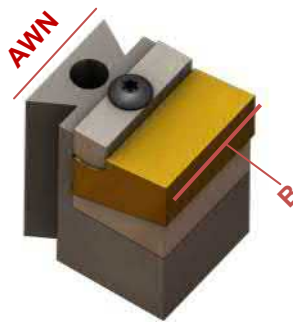
Gelötetes Hartmetall
Brazed carbide
Carbure brasé

Kalibriersysteme

Calibrating Systems / Systèmes de calibration

Werkzeug mit **Hartmetall-Wechselplatten: System - TO/AWN-BFH**
Tool with **interchangeable insert: System TO/AWN-BFH**
Outil avec **plaquettes échangeables en carbure: Système TO/AWN-BFH**

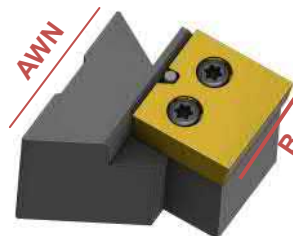
AWN 20mm
AWN 22mm
AWN 28mm
AWN 40mm



B = 20mm
B = 25mm
B = 30mm
B = 35mm
B = 40mm
B = 50mm

Werkzeug mit **Hartmetall-Wechselplatten: System FP/EB**
Tool with **interchangeable insert: System FP/EB**
Outil avec **à plaquettes échangeables: Système FP/EB**

AWN 15
AWN 20
AWN 23
AWN 28



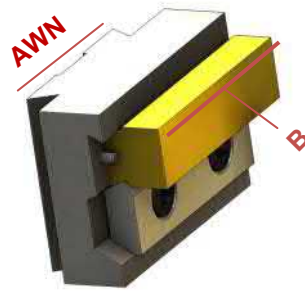
B = 11mm
B = 13mm
B = 16mm
B = 20mm
B = 25mm
B = 30mm

Werkzeug mit **Hartmetall-Wechselplatten: System GS20-338**

Tool with **interchangeable insert: System S20-338**

Outil avec **plaquettes échangeables en carbure: Système GS20-338**

AWN 23



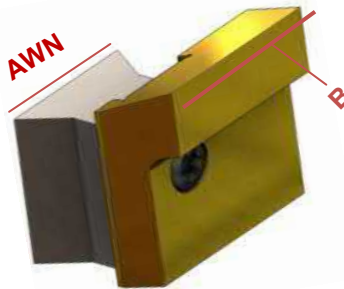
B = 15mm bis 30mm

Werkzeug mit **Hartmetall-Wechselplatten: System TOFP**

Tool with **interchangeable insert: System TOFP**

Outil avec **plaquettes échangeables en carbure: Système TOFP**

AWN 22



B = 12mm

B = 24mm

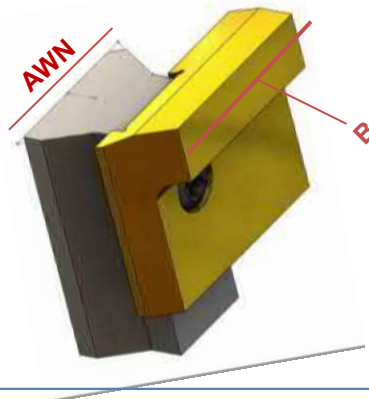
B = 27,8mm

Werkzeug mit **Hartmetall-Wechselplatten: System - GS20-TOFP-1**

Tool with **interchangeable insert: System GS20-TOFP-1**

Outil avec **plaquettes échangeables en carbure: Système - GS20-TOFP-1**

AWN 24,6



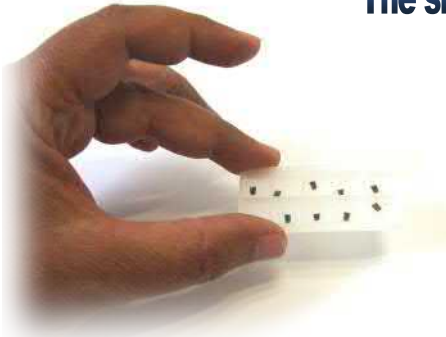
B = 12mm

B = 24mm

B = 27,8mm

Die kleinsten VHM-Wechselplatten auf dem Markt !

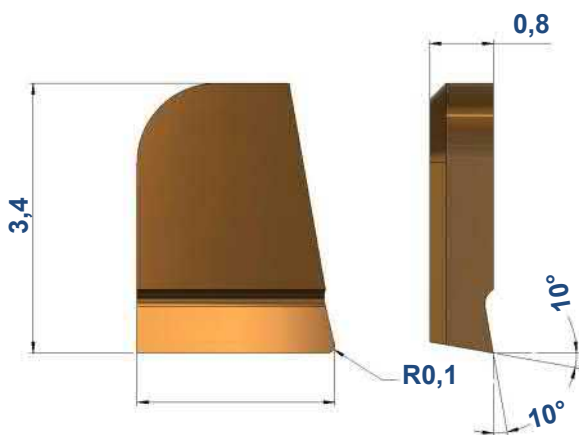
The smallest carbide indexable inserts on the market!



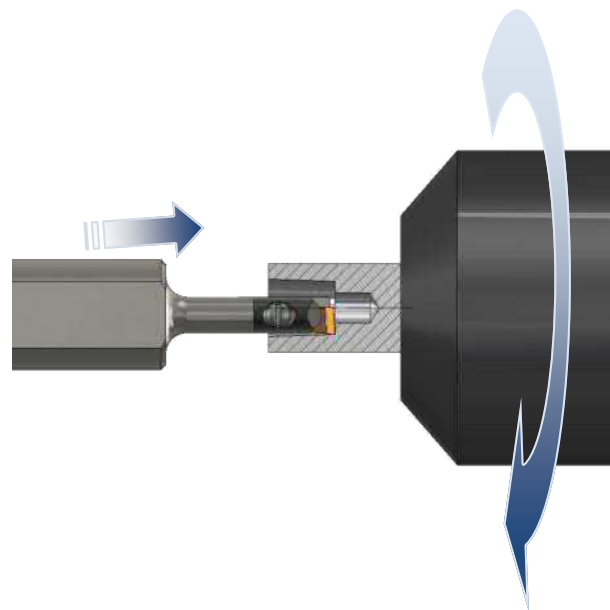
System LNCX-35

Innenausdrehen ab $\varnothing 3,5\text{mm}$

Inside turning from $\varnothing 3,5\text{mm}$



LNCX-0201-XD-R(L)



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