



APPLITEC
SWISS TOOLING

MODU-LINE



MODU-LINE

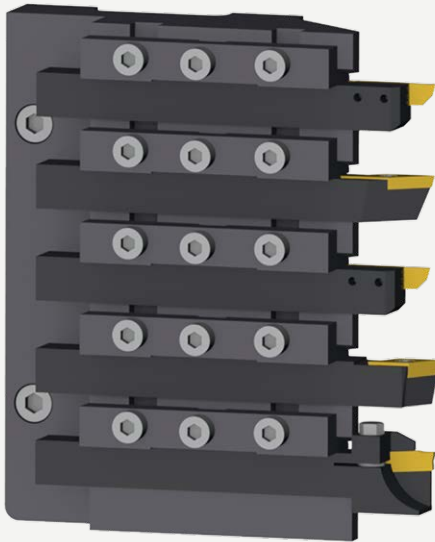


Système d'outils modulaires

Modulares Werkzeugsystem

Modular tooling system

Original system



MODU-Line system



Système d'outils modulaires
pour tours automatiques

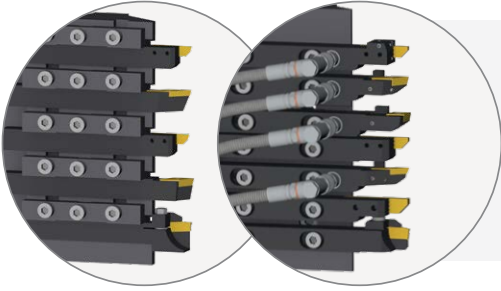
Modulares Werkzeugsystem
für Langdrehautomaten

Modular tooling system for
sliding headstock automatic lathes

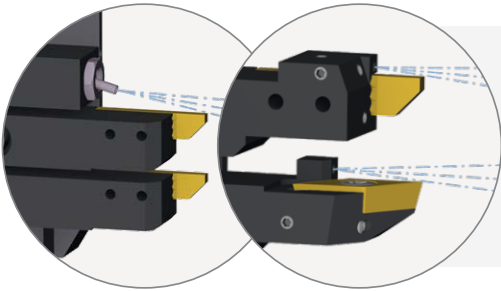
Les avantages

Die Vorteile

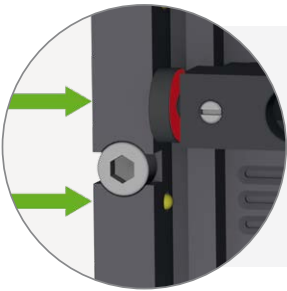
The advantages



Plus d'outils disponibles
Höhere Werkzeuganzahl
More available tools



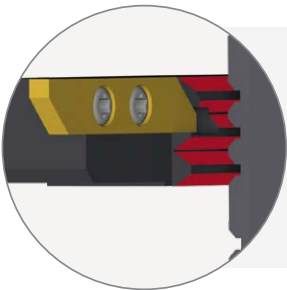
Système d'arrosage efficace
Effizientes Kühlmittelzufuhrsystem
Efficient coolant supply system



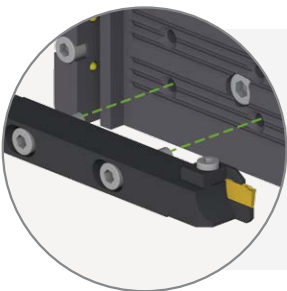
Repositionnement précis, poussée axiale automatique
Präzise Nachpositionierung, automatischer Axialschub
Precise repositioning, automatic axial thrust



Possibilité de préréglage et de réglage de la longueur des outils
Voreinstellbar auf feste oder einstellbare Länge
Presetting on fixed or adjustable length



Système de fixation robuste et rigide
Robustes und starres Spannsystem
Strong and stable clamping system



Changement d'outil simple et rapide
Einfacher und schneller Werkzeugwechsel
Easy and quick tool replacement

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Adaptations disponibles pour les machines suivantes:
Verfügbare Anpassungen für folgende Maschinen:
Available adapters for the following machines:

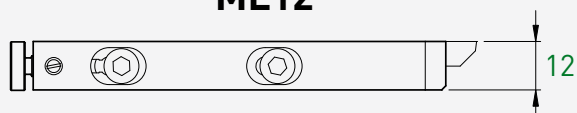
**Citizen - Hanwha -
Manurhin - Metafil -
Star - Tornos - Tsugami**

> **6**

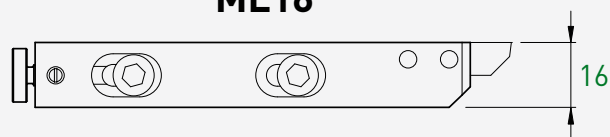
Porte-outils
Halter
Holders

INFO > 58

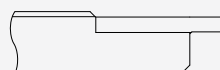
ML12



ML16



Right cut



TOP-Line > **62**

TURN-Line > **63**

ISO-Line > **64**

EVOCUT-Line > **66**

CUT-Line > **67**

PRO-Line > **68**

ECO-Line > **68**

IN-Line > **69**

TOOLING-Line > **71**

Cut off line



TOP-Line > **72**

TURN-Line > **74**

ISO-Line > **75**

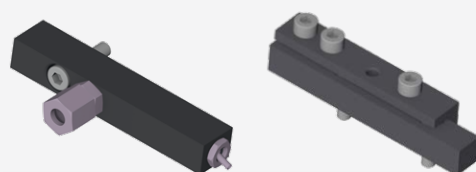
EVOCUT-Line > **76**

CUT-Line > **77**

PRO-Line > **78**

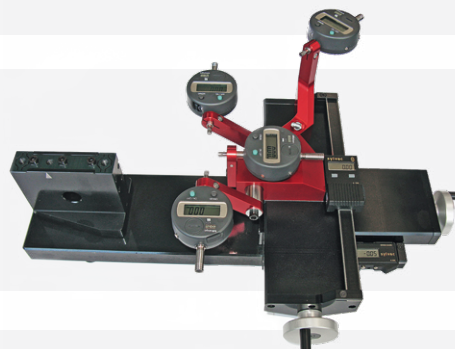
ECO-Line > **79**

Modules d'arrosage et de serrage
Kühlmittelzufuhr- und Spannelemente
Coolant and clamping supply unit



> **80**

Banc de pré réglage
Voreinstellgerät
Presetting device



> **82**

Pièces de rechange
Ersatzteile
Spare parts



> **84**

Adaptations disponibles pour les machines suivantes

Verfügbare Anpassungen für folgende Maschinen

Available adapters for the following machines

Fabricant Hersteller Manufacturer	Machine Maschine Machine	Adaptations Anpassungen Adapters	Type Typ Type	Page Seite Page
Citizen	C12/C16	ML12-CITIZEN-C16	ML12	6
	L12-1M7	ML12-CITIZEN-L12-1M7		7
	L12-2M10	ML12-CITIZEN-L12-2M10		8
	M16V/VIII	ML12-CITIZEN-M16V/VIII		9
	R04	ML12-CITIZEN-R04-QTF3101-3T		12
		ML12-CITIZEN-R04-QTF5008-4T		10
		ML12-CITIZEN-R04-QTF5108-4T		
	R07	ML12-CITIZEN-R07-QTF4008-5T		13
		ML12-CITIZEN-R07-QTF4108-6T		14
		ML12-CITIZEN-R07-QTF4208-3T		
		ML12-CITIZEN-R07-QTF4608-4T		
	K16	ML16-CITIZEN-K16	ML16	15
	L20	ML16-CITIZEN-L20		16
	L20E	ML16-CITIZEN-L20E		17
Hanwha	XD20M	ML12-HANWHA-XD20M	ML12	18
	SL12/16	ML16-HANWHA-SL12/16	ML16	19
Manuhrrin	KMX 426/526/626	ML16-KMX26-DUO	ML16	20
		ML16-KMX26-JET		
Metafil	D10	ML12-D10-3T	ML12	21
Star	SB12RG	ML12-STAR-SB-12RG	ML12	22
	SR10-J	ML12-STAR-SR-10J		23
	SW12RII	ML12-STAR-SW-12RII-2T		24
		ML12-STAR-SW-12RII-8T		
	SA-12/SA16/SA16R	ML16-STAR-SA-16	ML16	25
	SB16	ML16-STAR-SB-16		26
	SB16/20RG	ML16-STAR-SB-16/20RG		27
	SB20C/E	ML16-STAR-SB-20		28
	SR20J	ML16-STAR-SR-20J		30
	SR-16R/SR20R/SR20RII	ML16-STAR-SR-20R		29
	SR20RIII	ML16-STAR-SR-20RIII		30
	SR20RIV	ML16-STAR-SR-20RIV-2T		31
		ML16-STAR-SR-20RIV-6T		
	SR32J	ML16-STAR-SR-32J		32
	SV12/20	ML16-STAR-SV-12/20		33
	SW20R	ML16-STAR-SW-20R-2T		34
		ML16-STAR-SW-20R-6T		

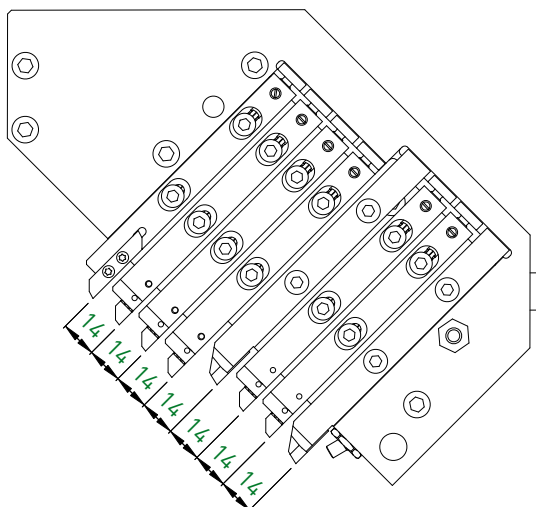
Adaptations disponibles pour les machines suivantes
Verfügbare Anpassungen für folgende Maschinen
Available adapters for the following machines

Fabricant Hersteller Manufacturer	Machine Maschine Machine	Adaptations Anpassungen Adapters	Type Typ Type	Page Seite Page
Tornos	DEC07/10 - EvoDECO 10	ML12-DEC010-DUO	ML12	35
		ML12-DEC010-JET		
	SWISS-NANO /SWISS-NANO 7	ML12-SWISS-NANO-2T		38
		ML12-SWISS-NANO-3T		
		ML12-SWISS-NANO-6T		
	SWISS-NANO 7	ML12-SWISS-NANO-4T		39
		ML12-DT13-2020206-9T		40
	CT20	ML12-CT20-2020019-7T		41
	GT13	ML12-GT13-390224-5T	ML16	42
		ML12-GT13-390223-7T		
	DEC013- EvoDECO16	ML16-DEC013-DUO		48
		ML16-DEC013-JET		
	DEC020/26 - EvoDECO20/32	ML16-DEC020-DUO		49
		ML16-DEC020-JET		
	SIGMA20/32	ML16-S20-DUO		50
		ML16-S20-JET		
	ST26	ML16-SWISS-ST26-DUO		51
		ML16-SWISS-ST26-JET		
	DT26	ML16-DT26-2020206-7T		52
	GT26	ML16-GT26-386210-5T		44
		ML16-GT26-386209-6T		
	GT32	ML16-GT32-389210-4T		46
		ML16-GT32-389209-5T		
Tsugami	B074	ML12-B074-1-6T	ML12	53
	B075	ML12-B075-1-8T		54
	P034	ML12-P034-1-5T		55
		ML12-P034-1-7T		56
		ML12-P034-2-4T		55
		ML12-P034-2-10T		56

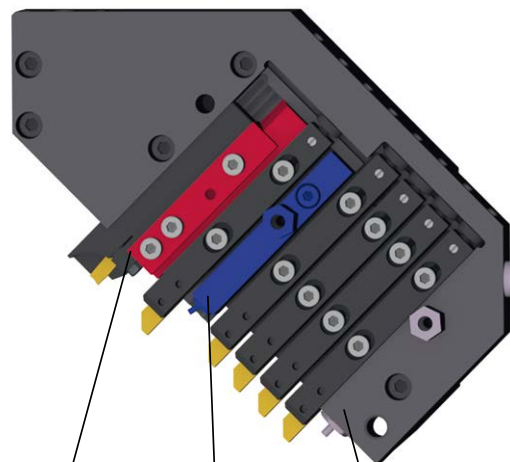
Citizen C12 / C16

+ 2 outils (max 8)
+ 2 Werkzeuge (max 8)
+ 2 tools (max 8)

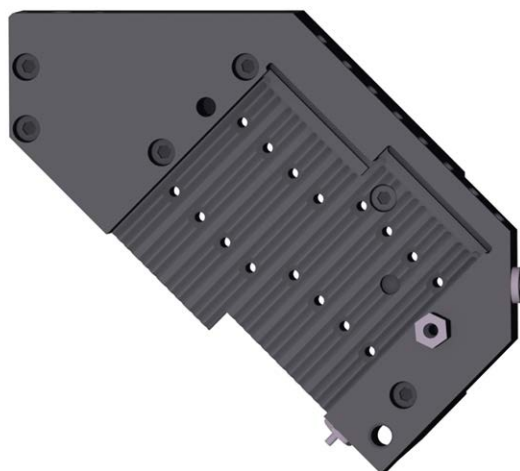
ML12



Outil 12 mm possible avec module de serrage
Werkzeug 12 mm mit Spannelement möglich
Tool 12mm possible with clamping unit



Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)



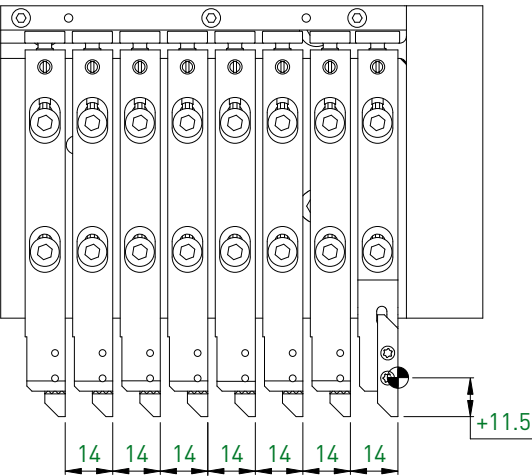
Arrosage intégré
Integrierter Kühlmittel
Integrated coolant

Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-CITIZEN-C16	ML12	> 62	ML12-FIX-12/14	ML12-JET-5/16	80

Citizen L12-1M7

- + 2 outils (max 8)
- + 2 Werkzeuge (max 8)
- + 2 tools (max 8)

ML12

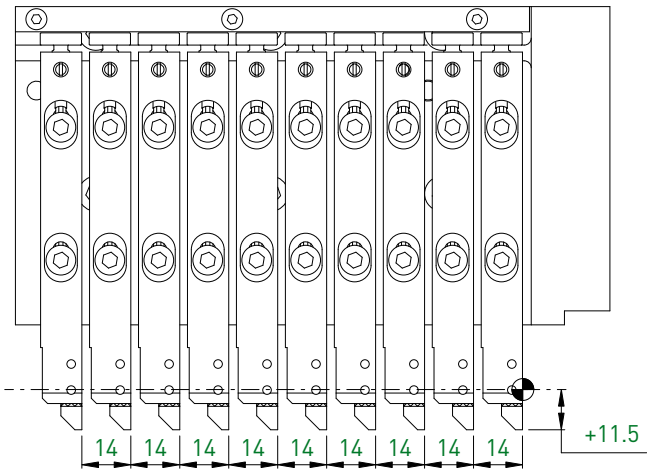


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Citizen L12					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-CITIZEN-L12-1M7	ML12	> 62	-	ML12-JET-5/16	80

Citizen L12-2M10

- + 3 outils (max 10)
- + 3 Werkzeuge (max 10)
- + 3 tools (max 10)

ML12

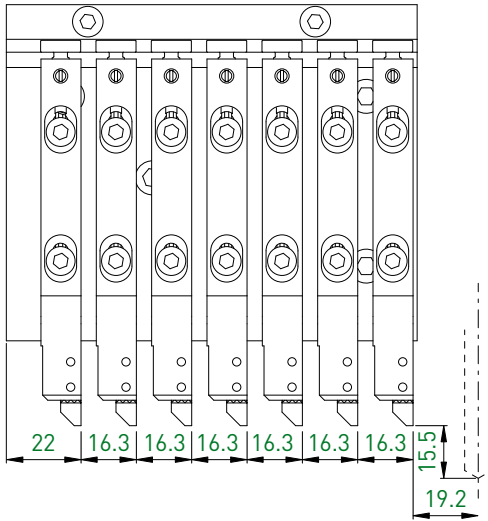


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Citizen L12-2M10					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-CITIZEN-L12-2M10	ML12	> 62	-	ML12-JET-5/16	80

Citizen M16 V/VIII

+ 2 outils (max 7)
+ 2 Werkzeuge (max 7)
+ 2 tools (max 7)

ML12

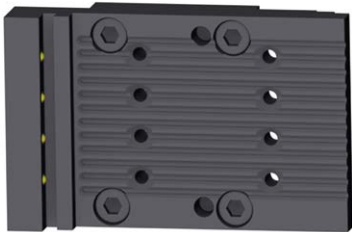
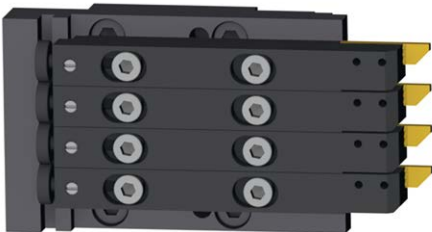
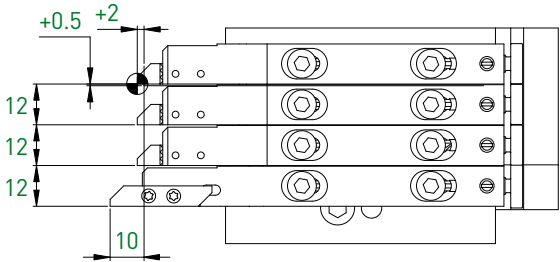
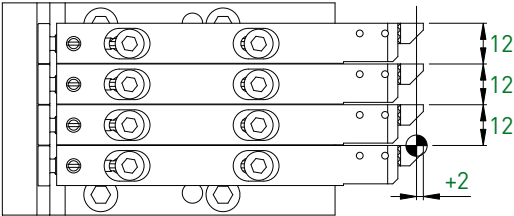


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Citizen M16 V/VIII					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-CITIZEN-M16V/VIII	ML12	> 62	-	ML12-JET-5/16	80

Citizen R04

- + 1 outil (max 8)
- + 1 Werkzeug (max 8)
- + 1 tool (max 8)

ML12

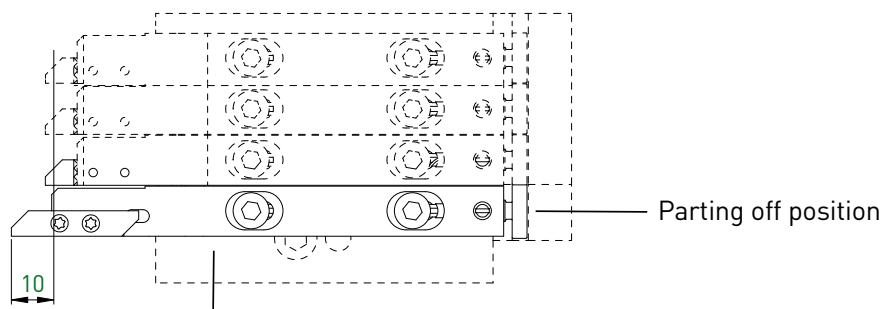


ML12-CITIZEN-R04-QTF5008-4T



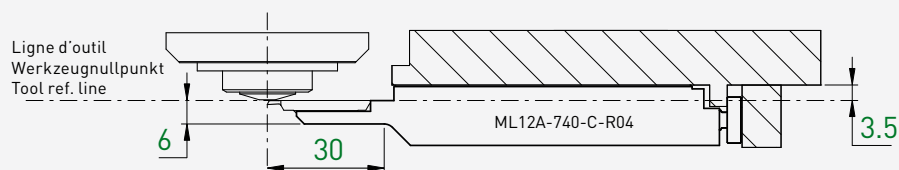
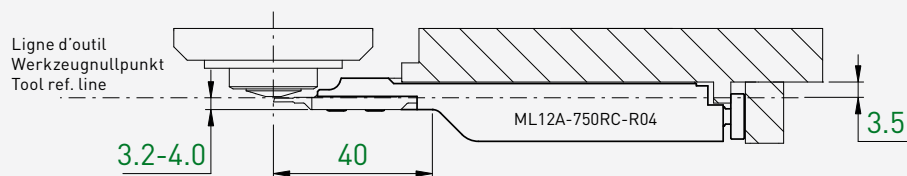
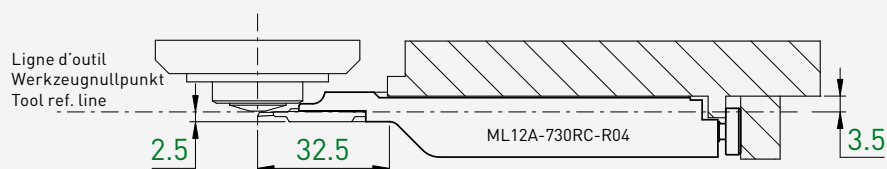
ML12-CITIZEN-R04-QTF5108-4T

Support de base Grundhalter Base holder				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
4T	ML12-CITIZEN-R04-QTF5008-4T	ML12	> 62	-	ML12-JET-5/16	80
	ML12-CITIZEN-R04-QTF5108-4T					



ML12-CITIZEN-R04-QTF5108-4T

avec canon
mit Führungsbuchse
with guide bush

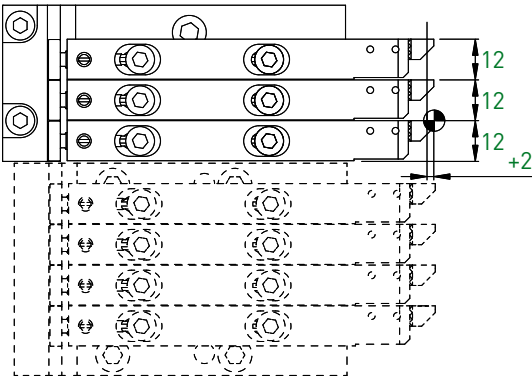


Type de machine Maschinen-Typ Type of machine	Porte-outils Halter Holders	Art. N°	Plaquettes Wendeplatten Inserts	Pages Seiten Pages
Citizen R04	ML12	ML12A-730RC-R04	731R... / 731RSF	> TOP-Line TOP-Watch
		ML12A-750RC-R04	751R... / 751RDSF	
		ML12A-740-C-R04	741 / 741SF	

Citizen R04

- + 3 outils (max 3)
- + 3 Werkzeuge (max 3)
- + 3 tools (max 3)

ML12

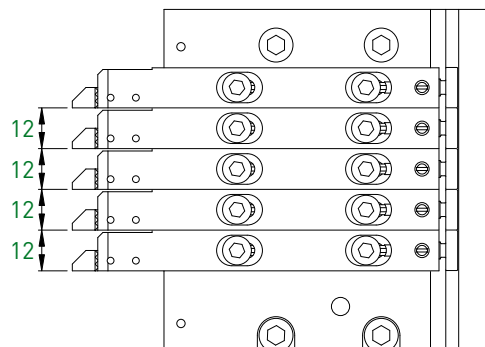
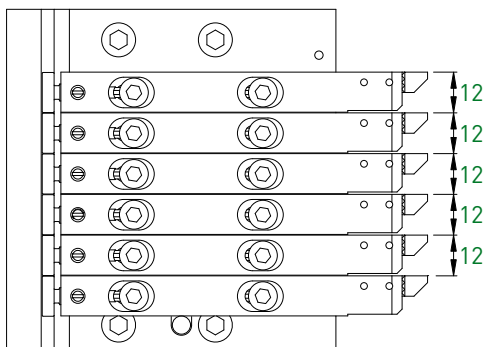


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Citizen R04					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-CITIZEN-R04-QTF3101-3T	ML12	> 62	-	ML12-JET-5/16	80

Citizen R07

+ 1 outil (max 11)
+ 1 Werkzeug (max 11)
+ 1 tool (max 11)

ML12



ML12-CITIZEN-R07-QTF4108-6T

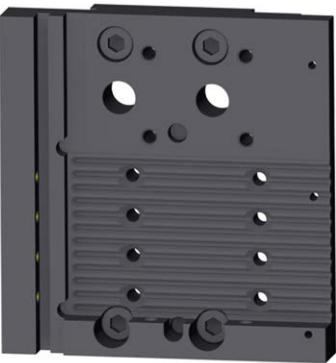
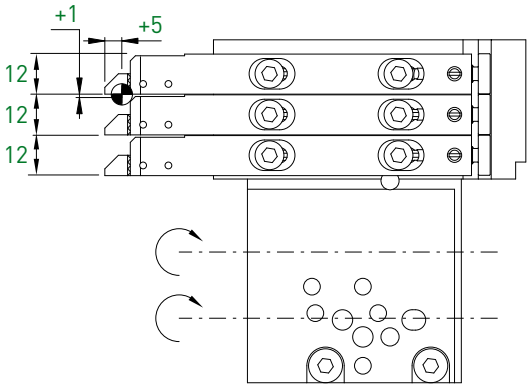
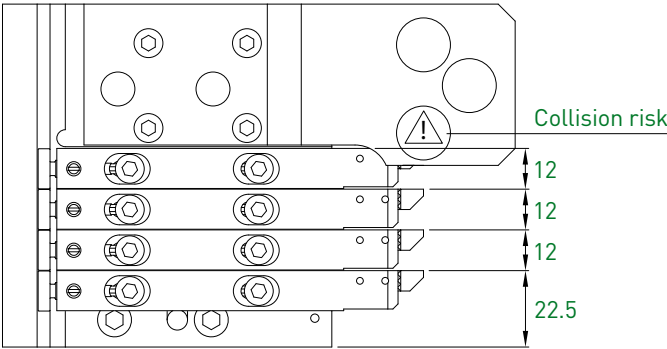
ML12-CITIZEN-R07-QTF4008-5T

Support de base Grundhalter Base holder				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
5T	ML12-CITIZEN-R07-QTF4008-5T	ML12	> 62	-	ML12-JET-5/16	80
6T	ML12-CITIZEN-R07-QTF4108-6T					

Citizen R07

- + 1 outil (max 7)
- + 1 Werkzeug (max 7)
- + 1 tool (max 7)

ML12



ML12-CITIZEN-R07-QTF4608-4T

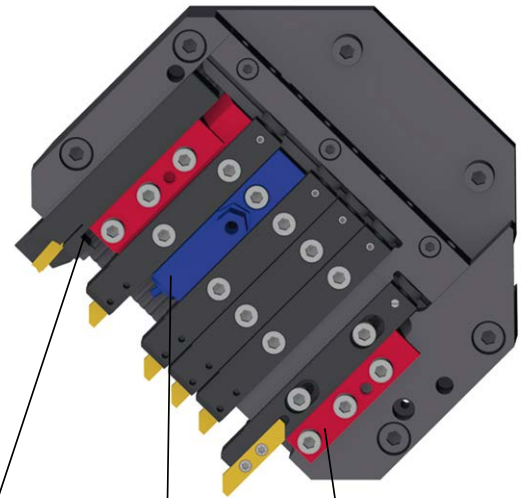
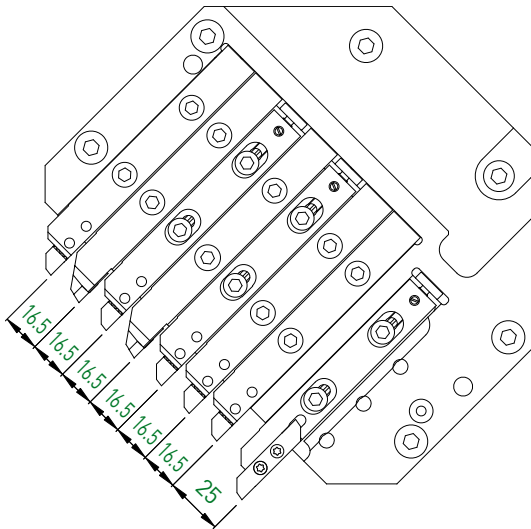
ML12-CITIZEN-R07-QTF4208-3T

Support de base Grundhalter Base holder				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelezufuhrelement Coolant supply unit	Page Seite Page
3T	ML12-CITIZEN-R07-QTF4208-3T	ML12	> 62	-	ML12-JET-5/16	80
4T	ML12-CITIZEN-R07-QTF4608-4T					

Citizen **K12 / K16**
K12E / K16E

+ 2 outils (max 8)
+ 2 Werkzeuge (max 8)
+ 2 tools (max 8)

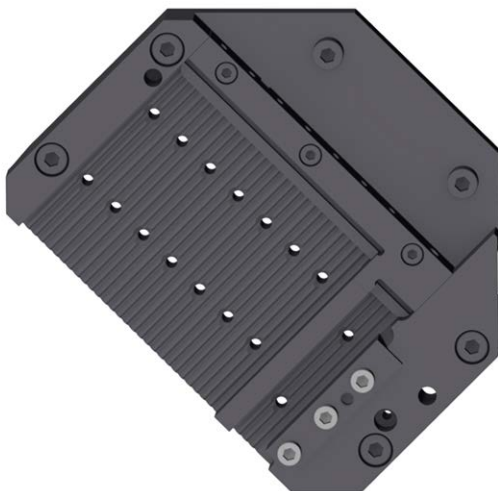
ML16



Outil $\varnothing$ 16 mm possible avec module de serrage
Werkzeug $\varnothing$ 16 mm mit Spannelement möglich
Tool $\varnothing$ 16 mm possible with clamping unit

Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

1 serrage ML16-FIX-16 pour outil $\varnothing$ 16 mm inclus
1 Spannung ML16-FIX-16 für Werkzeug $\varnothing$ 16 mm inbegriffen
1 clamping ML16-FIX-16 for tool $\varnothing$ 16 mm included

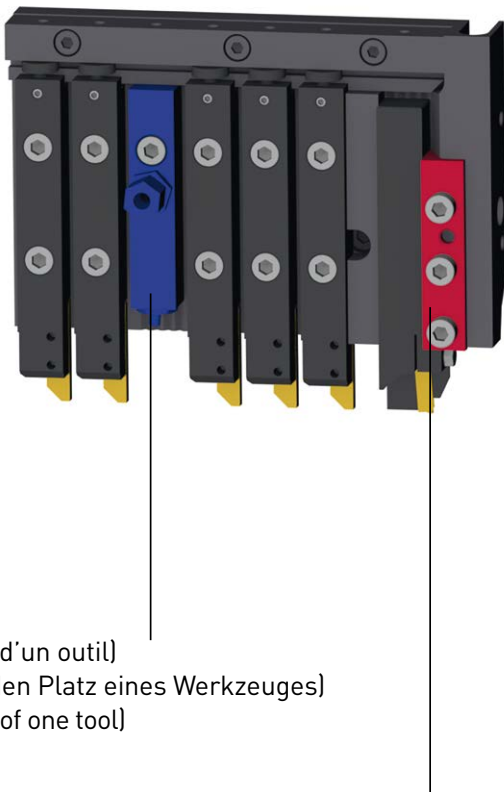
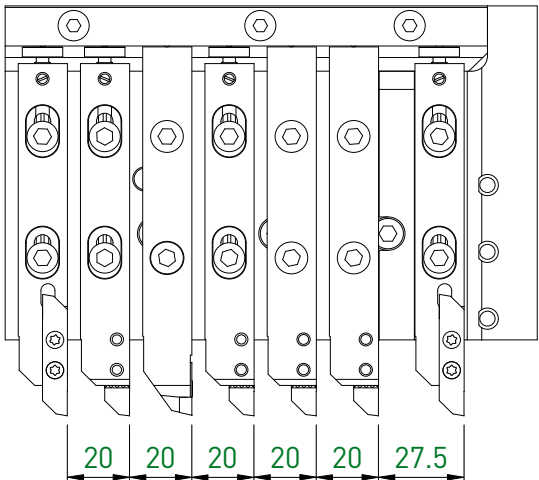


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Citizen K12 / K16					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-CITIZEN-K16	ML16	> 62	ML16-FIX-16/16.5	ML16-JET-7/16	80

Citizen L16 / L20

- + 1 outil (max 7)
- + 1 Werkzeug (max 7)
- + 1 tool (max 7)

ML16



Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

- 1 serrage ML16-FIX-16 pour outil 16 mm inclus
- 1 Spannung ML16-FIX-16 für Werkzeug 16 mm inbegriffen
- 1 clamping ML16-FIX-16 for tool 16 mm included

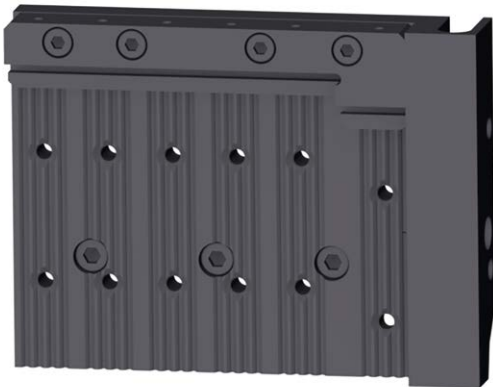
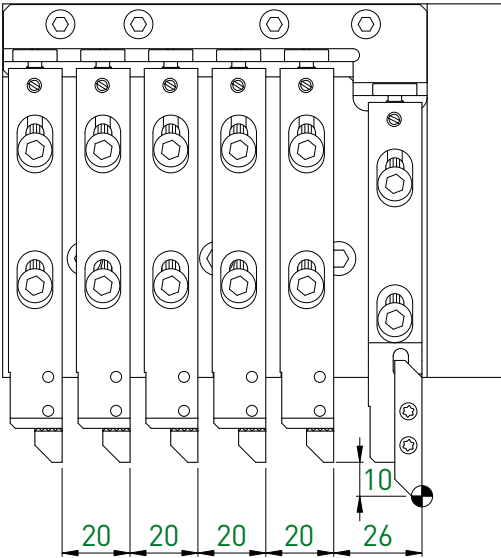


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Citizen L16 / L20					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-CITIZEN-L20	ML16	> 62	-	ML16-JET-7/16	80

Citizen L20E

- + 1 outil (max 6)
- + 1 Werkzeug (max 6)
- + 1 tool (max 6)

ML16

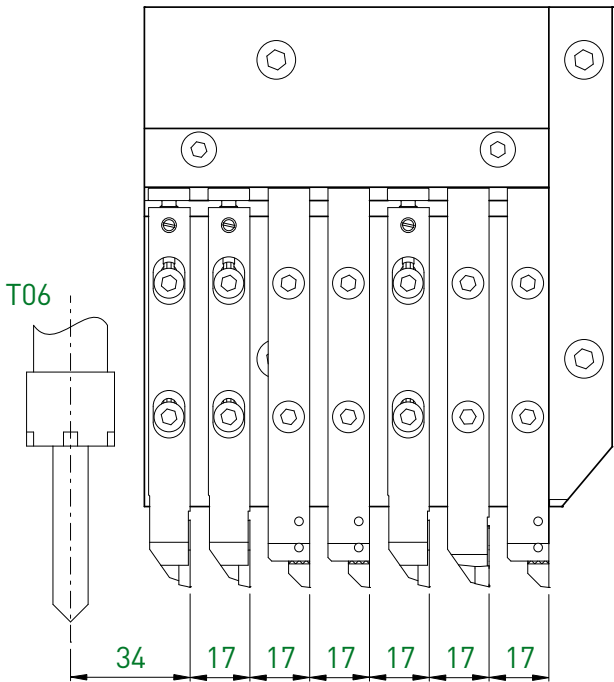


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-CITIZEN-L20E	ML16	> 62	-	ML16-JET-7/16	80

Hanwha XD20M

- + 2 outils (max 7)
- + 2 Werkzeuge (max 7)
- + 2 tools (max 7)

ML12

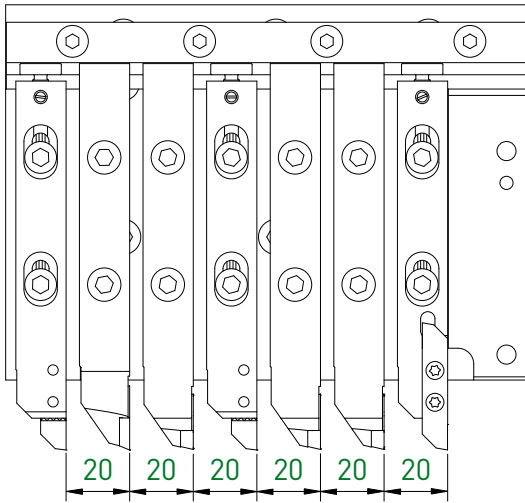


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Hanwha XD20M					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-HANWHA-XD20M	ML12	> 62	-	ML12-JET-5/16	80

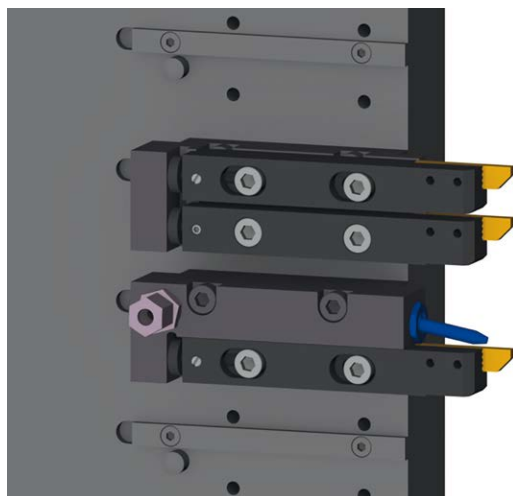
Hanwha SL12 / 16

+ 1 outil (max 7)
+ 1 Werkzeug (max 7)
+ 1 tool (max 7)

ML16



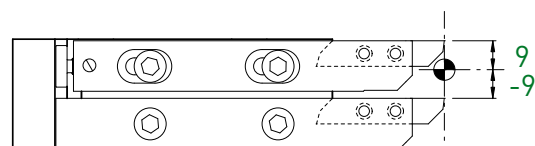
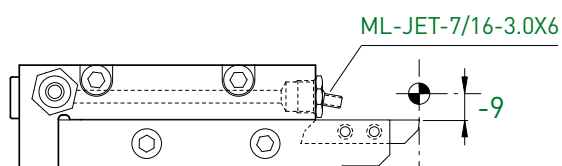
Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Hanwha SL12 / 16					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-HANWHA-SL12/16	ML16	> 62	-	ML16-JET-7/16	80



Jet



Duo



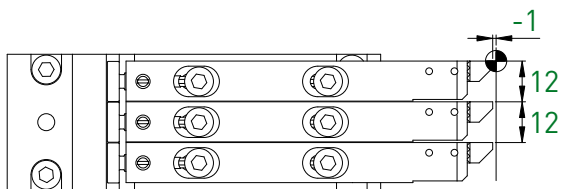
Jet



Duo

Support de base Grundhalter Base holder				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelezufuhrelement Coolant supply unit	Page Seite Page
Jet	ML16-KMX26-JET	ML16	> 62	-	ML-JET-7/16...	80
Duo	ML16-KMX26-DUO				ML16-JET-7/16	

D3	+ 1 outil (max 3)	
Metafil D10	+ 1 Werkzeug (max 3)	ML12
D13	+ 1 tool (max 3)	

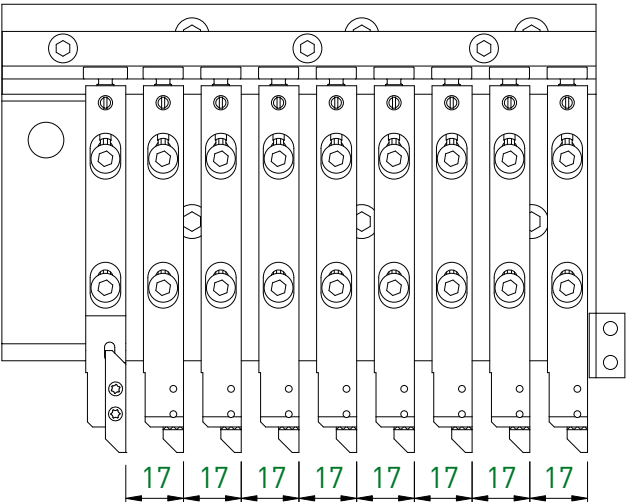


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Metafil D3 / D10 / D13					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-D10-3T	ML12	> 62	-	ML12-JET-5/16	80

Star SB-12RG

- + 2 outils (max 9)
- + 2 Werkzeuge (max 9)
- + 2 tools (max 9)

ML12

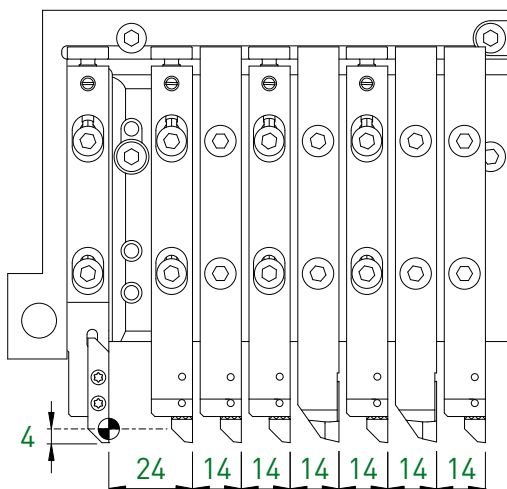


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Star SB-12RG					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-STAR-SB-12RG	ML12	> 62	-	ML12-JET-5/16	80

Star SR-10J

+ 2 outils (max 8)
+ 2 Werkzeuge (max 8)
+ 2 tools (max 8)

ML12



1 serrage ML12-FIX-12 pour outil $\varnothing$ 12 mm inclus
1 Spannung ML12-FIX-12 für Werkzeug $\varnothing$ 12 mm inbegriffen
1 clamping ML12-FIX-12 for tool $\varnothing$ 12 mm included

Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

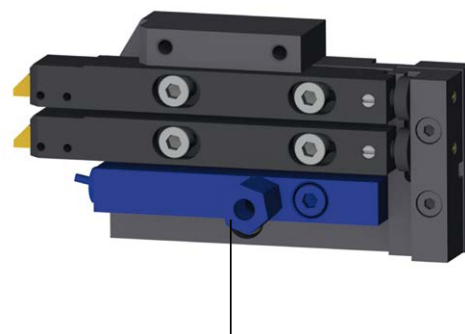
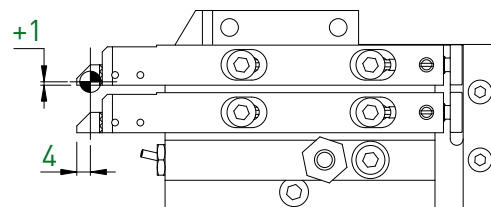
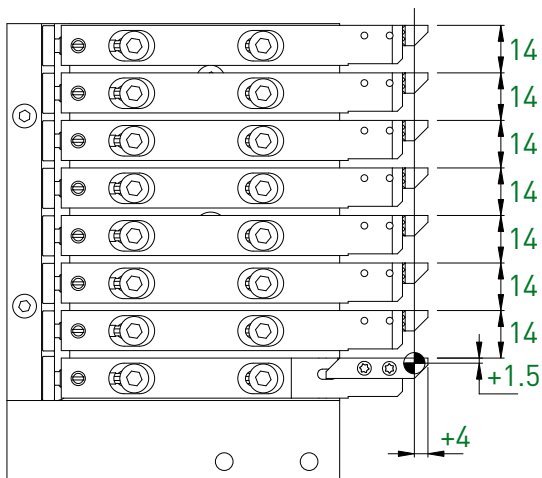


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Star SR-10J					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-STAR-SR-10J	ML12	> 62	ML12-FIX-12/14	ML12-JET-5/16	80

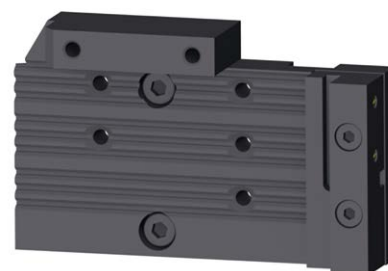
Star SW-12RII

+ 2 outils (max 10)
+ 2 Werkzeuge (max 10)
+ 2 tools (max 10)

ML12



Position uniquement utilisable avec module d'arrosage, en option
Position nur mit Kühlmittelzufuhrelement verwendbar, optional
Position only with coolant supply unit usable, optional



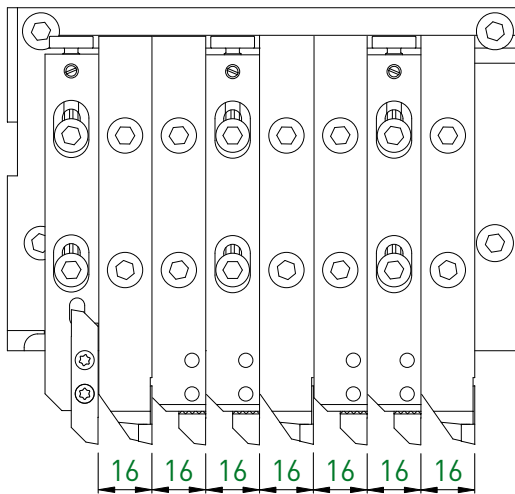
ML12-STAR-SW-12RII-8T

ML12-STAR-SW-12RII-2T

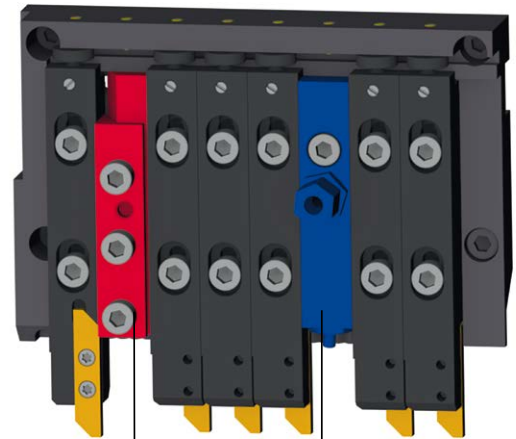
Support de base Grundhalter Base holder				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
2T	ML12-STAR-SW-12RII-2T	ML12	> 62	-	ML12-JET-5/16	80
8T	ML12-STAR-SW-12RII-8T					

	SA-12	+ 2 outils (max 8)
Star	SA-16	+ 2 Werkzeuge (max 8)
	SA-16R	+ 2 tools (max 8)

ML16



Outil ∇ 16 mm possible avec module de serrage
 Werkzeug ∇ 16 mm mit Spannelement möglich
 Tool ∇ 16 mm possible with clamping unit



Module d'arrosage (prend la place d'un outil)
 Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
 Coolant supply unit (takes the place of one tool)

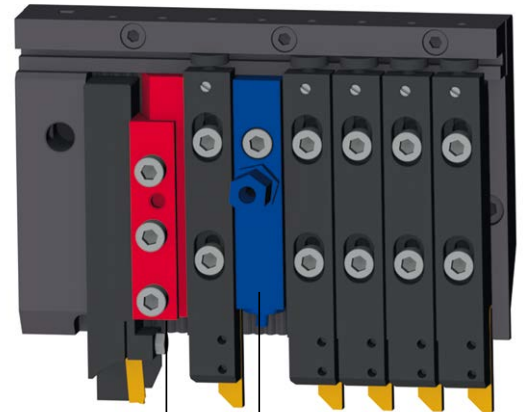
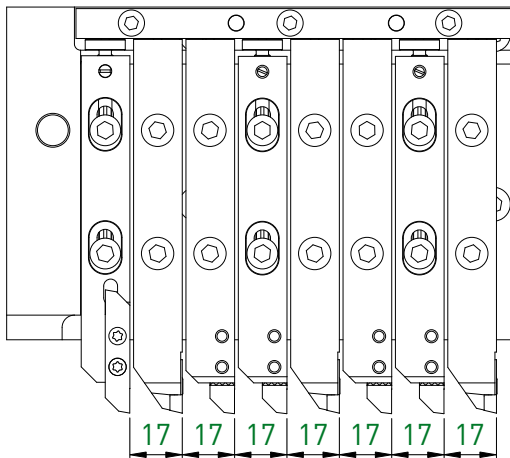


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Star SA-12/SA-16/SA-16R					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SA-16	ML16	> 62	ML16-FIX-16/16	ML16-JET-7/16	80

Star SB-16

+ 3 outils (max 8)
+ 3 Werkzeuge (max 8)
+ 3 tools (max 8)

ML16



Outil ∇ 16 mm possible avec module de serrage
Werkzeug ∇ 16 mm mit Spannelement möglich
Tool ∇ 16 mm possible with clamping unit

Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

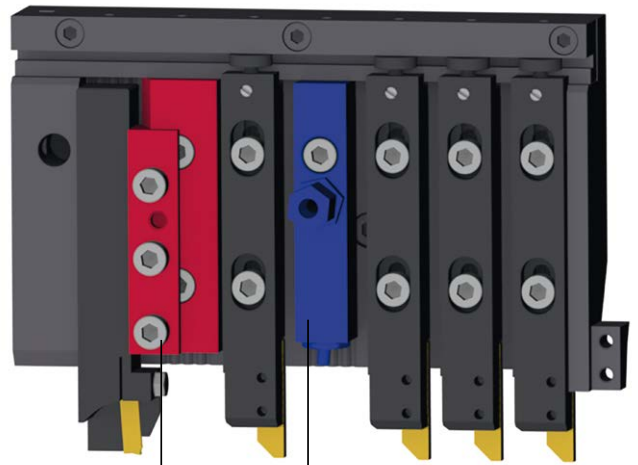
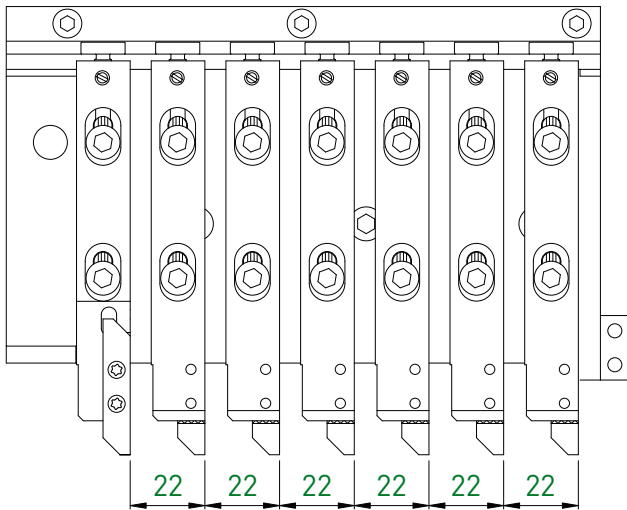


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Star SB-16					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SB-16	ML16	> 62	ML16-FIX-16/17	ML16-JET-7/16	80

Star SB-16/20RG

+ 1 outil (max 7)
+ 1 Werkzeug (max 7)
+ 1 tool (max 7)

ML16



Outil $\square$ 16 mm possible avec module de serrage
Werkzeug $\square$ 16 mm mit Spannelement möglich
Tool $\square$ 16 mm possible with clamping unit

Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

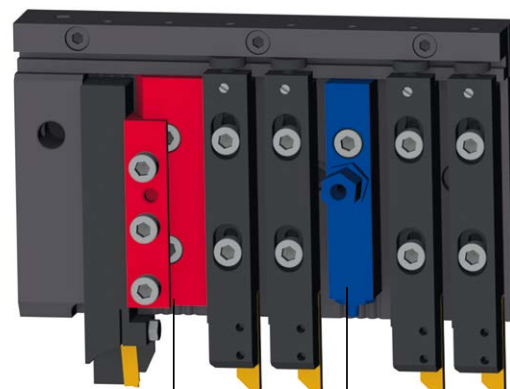
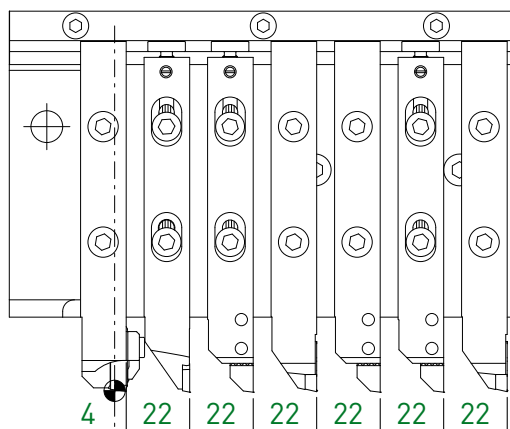


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Star SB-16/20RG					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SB-16/20RG	ML16	> 62	ML16-FIX-16/22	ML16-JET-7/16	80

Star SB-20C/E

- + 1 outil (max 7)
- + 1 Werkzeug (max 7)
- + 1 tool (max 7)

ML16



Outil ∇ 16 mm possible avec module de serrage
 Werkzeug ∇ 16 mm mit Spannelement möglich
 Tool ∇ 16 mm possible with clamping unit

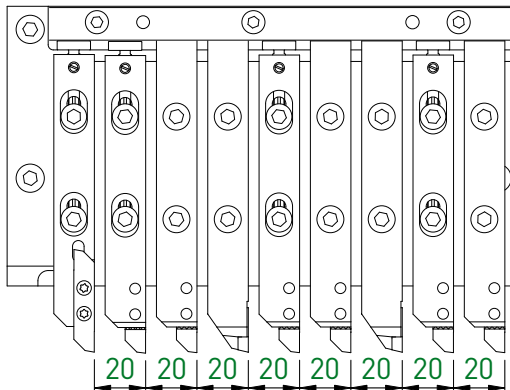
Module d'arrosage (prend la place d'un outil)
 Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
 Coolant supply unit (takes the place of one tool)



Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Star SB-20C/E					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SB20C/E	ML16	> 62	ML16-FIX-16/22	ML16-JET-7/16	80

SR-16R + 3 outils (max 9)
Star SR-20R + 3 Werkzeuge (max 9)
SR-20RII + 3 tools (max 9)

ML16



Outil $\varnothing$ 16 mm possible avec module de serrage
 Werkzeug $\varnothing$ 16 mm mit Spannelement möglich
 Tool $\varnothing$ 16 mm possible with clamping unit

Module d'arrosage (prend la place d'un outil)
 Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
 Coolant supply unit (takes the place of one tool)

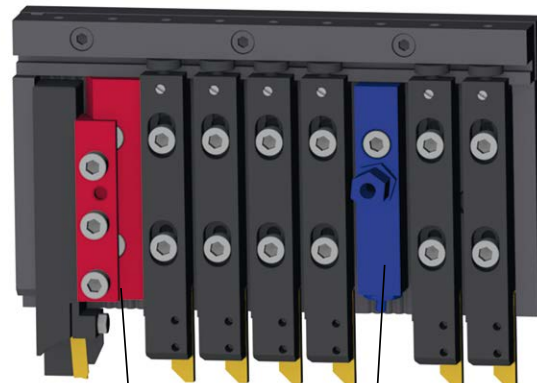
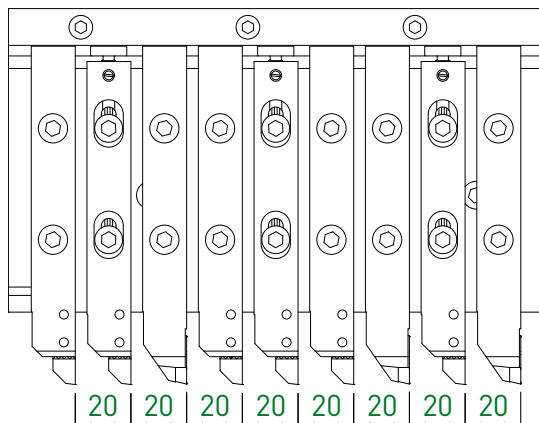


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Star SR-16R/SR-20R/SR-20RII					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SR-20R	ML16	> 62	ML16-FIX-16/20	ML16-JET-7/16	80

Star **SR-20RIII**
SR-20J

+ 3 outils (max 9)
+ 3 Werkzeuge (max 9)
+ 3 tools (max 9)

ML16



Outil $\varnothing$ 16 mm possible avec module de serrage
Werkzeug $\varnothing$ 16 mm mit Spannelement möglich
Tool $\varnothing$ 16 mm possible with clamping unit

Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

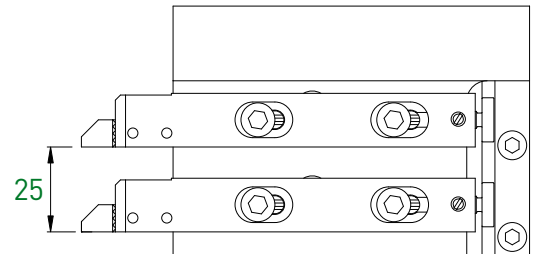
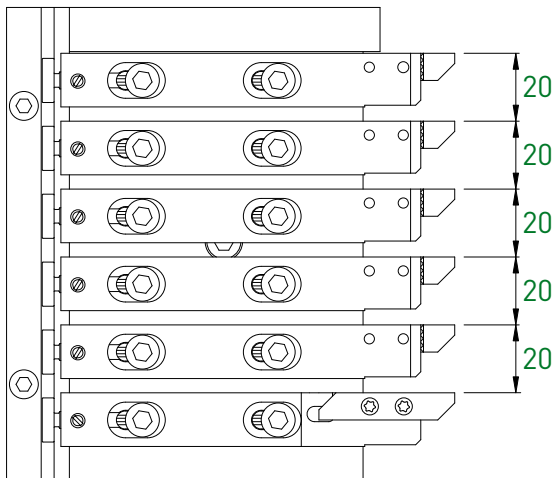


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SR-20RIII	ML16	> 62	ML16-FIX-16/20	ML16-JET-7/16	80
ML16-STAR-SR-20J					

Star SR-20RIV

+ 1 outil (max 8)
+ 1 Werkzeug (max 8)
+ 1 tool (max 8)

ML16



ML16-STAR-SR-20RIV-6T

ML16-STAR-SR-20RIV-2T

Support de base Grundhalter Base holder				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
2T	ML16-STAR-SR-20RIV-2T	ML16	> 62	-	ML16-JET-7/16	80
6T	ML16-STAR-SR-20RIV-6T					

Star SR-32J

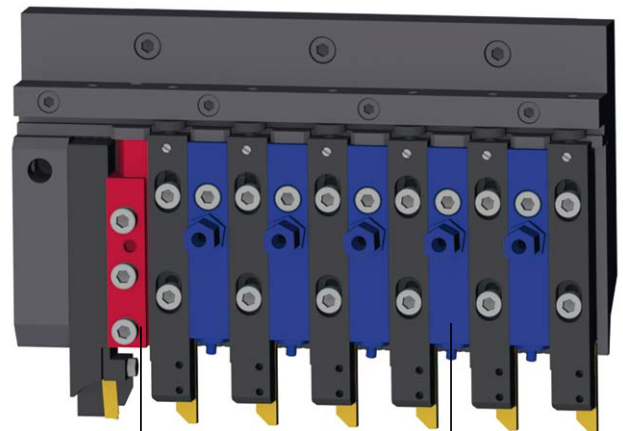
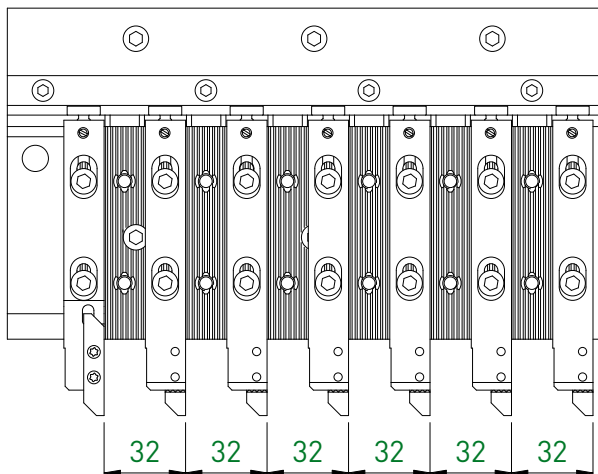
Ø max
32 mm

+ 1 outil (max 7)
+ 1 Werkzeug (max 7)
+ 1 tool (max 7)

Ø max
16 mm

+ 7 outils (max 13)
+ 7 Werkzeuge (max 13)
+ 7 tools (max 13)

ML16



Outil 16 mm possible avec module de serrage
Werkzeug 16 mm mit Spannelement möglich
Tool 16 mm possible with clamping unit

Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

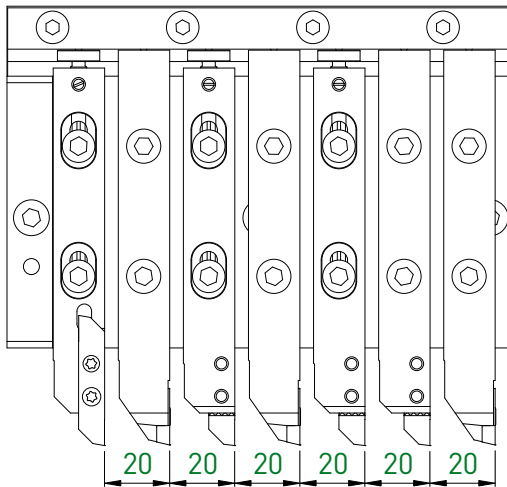


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Star SR-32J					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SR-32J	ML16	> 62	ML16-FIX-16/16	ML16-JET-7/16	80

Star SV-12 / 20

+ 2 outils (max 7)
+ 2 Werkzeuge (max 7)
+ 2 tools (max 7)

ML16



Outil ∇ 16 mm possible avec module de serrage
Werkzeug ∇ 16 mm mit Spannelement möglich
Tool ∇ 16 mm possible with clamping unit

Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

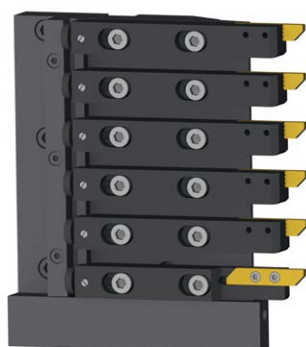
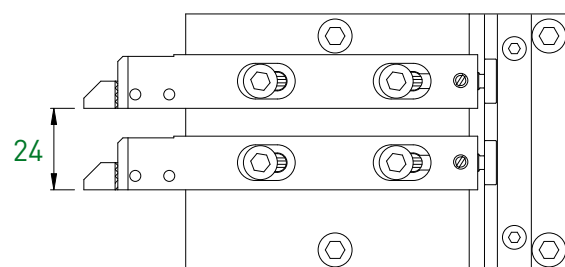
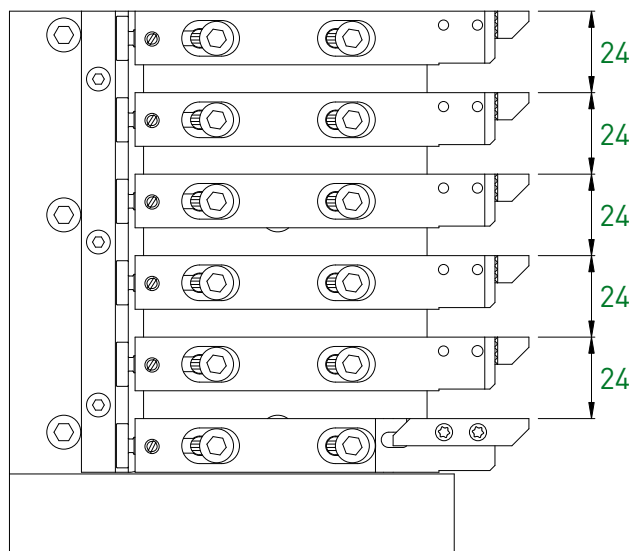


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Star SV-12 / 20					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SV-12/20	ML16	> 62	ML16-FIX-16/20	ML16-JET-7/16	80

Star SW-20R

+ 1 outil (max 8)
+ 1 Werkzeug (max 8)
+ 1 tool (max 8)

ML16



ML16-STAR-SW-20R-6T

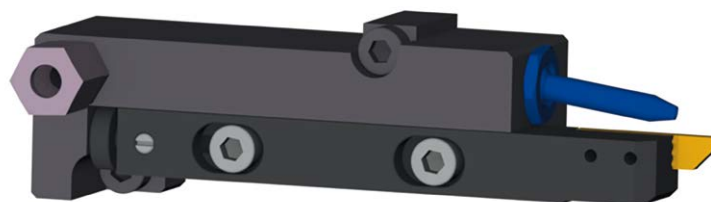
ML16-STAR-SW-20R-2T

Support de base Grundhalter Base holder				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
2T	ML16-STAR-SW-20R-2T	ML16	> 62	-	ML16-JET-7/16	80
6T	ML16-STAR-SW-20R-6T			ML16-FIX-16/24		

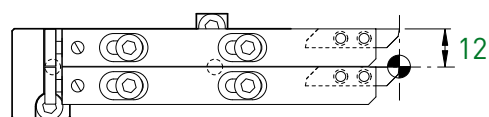
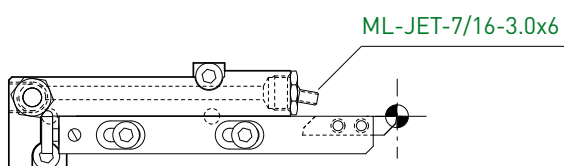
Tornos DECO 7 / 10
EvoDECO 10

ML12

Jet



Duo



Jet



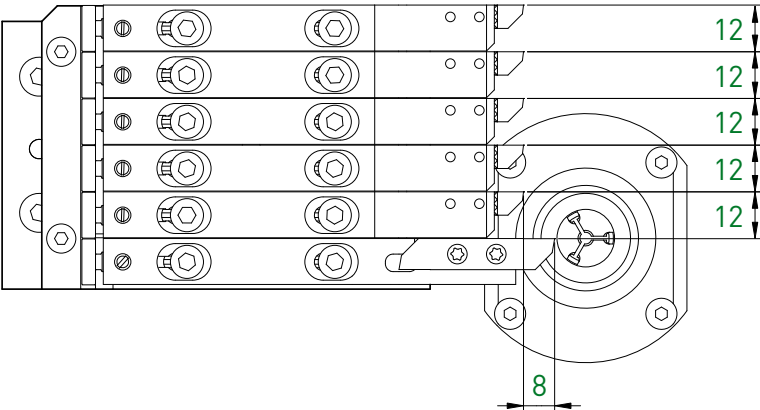
Duo

Support de base Grundhalter Base holder		Tornos DECO 7 / 10 EvoDECO 10		Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelezufuhrelement Coolant supply unit	Page Seite Page
Jet	ML12-DEC010-JET	ML12	> 62	-	ML-JET-7/16...	81
Duo	ML12-DEC010-DUO				ML12-JET-5/16	80

Tornos SwissNano
SwissNano 7

- + 2 outils (max 6)
- + 2 Werkzeuge (max 6)
- + 2 tools (max 6)

ML12



6T

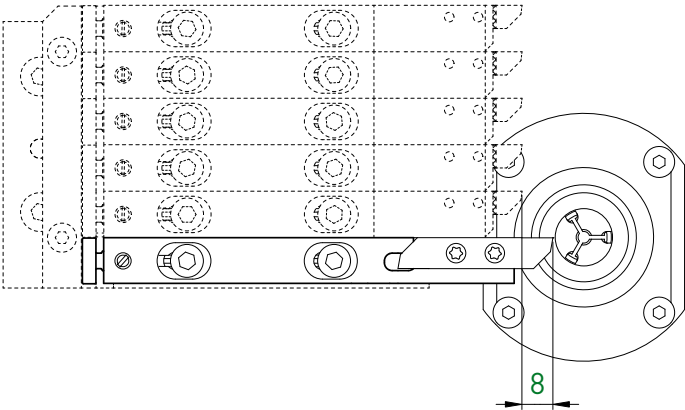


6T

Support de base Grundhalter Base holder		Tornos SwissNano SwissNano 7		Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
6T	ML12-SWISS-NANO-6T	ML12	> 62	-	ML12-JET-5/16	80

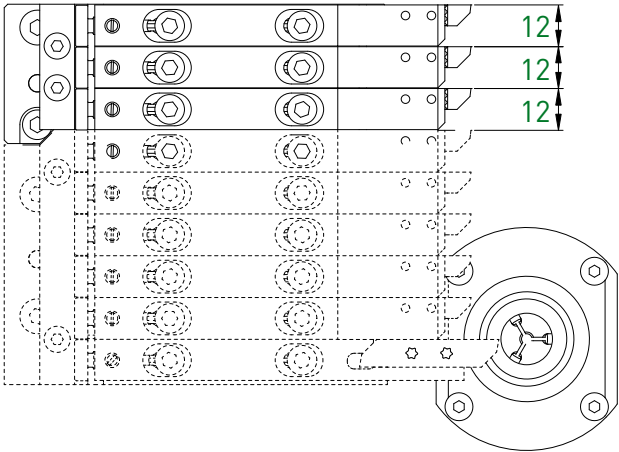
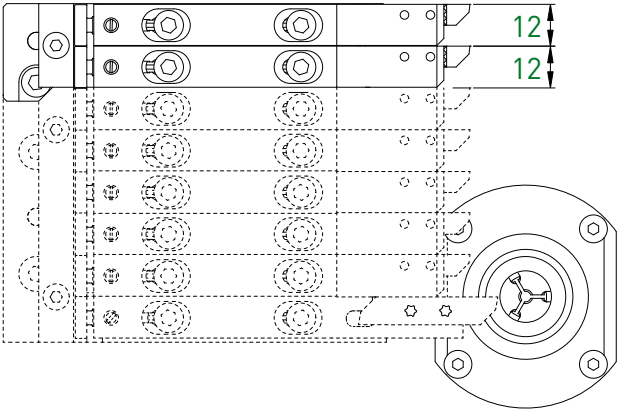
Tornos SwissNano
SwissNano 7

ML12



avec canon mit Führungsbuchse with guide bush	avec pince mit Spannzange with collet
ML12A-730RC-Swiss-Nano	
ML12A-750RC-Swiss-Nano	
ML12A-740-C-Swiss-Nano	
ML12A-770RC-Swiss-Nano	

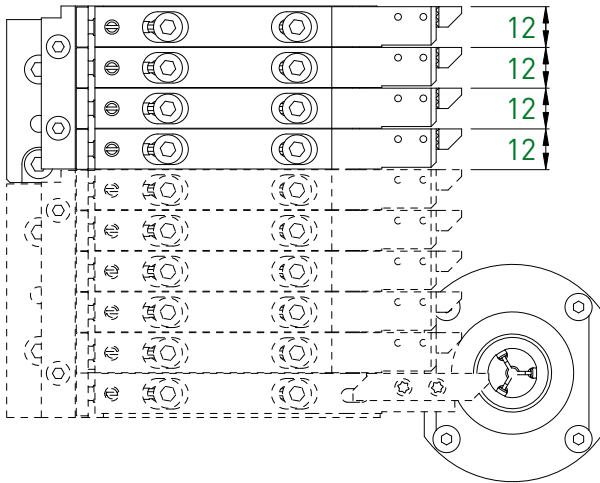
Type de machine Maschinen-Typ Type of machine	Porte-outils Halter Holders	Art. N°	Plaquettes Wendeplatten Inserts	Pages Seiten Pages
SwissNano	ML12	ML12A-730RC-SWISS-NANO	731R... / 731RSF	> TOP-Line TOP-Watch
		ML12A-750RC-SWISS-NANO	751R... / 751RDSF	
		ML12A-740-C-SWISS-NANO	741... / 741SF	> TOP-Line
		ML12A-770RC-SWISS-NANO	771R...	



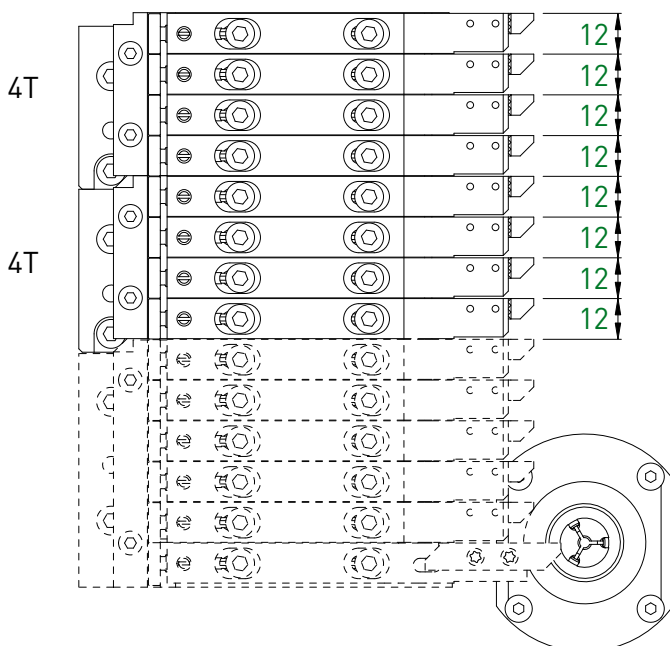
Support de base Grundhalter Base holder		Tornos SwissNano SwissNano 7		Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
2T	ML12-SWISS-NANO-2T	ML12	> 62	-	ML12-JET-5/16	80
3T	ML12-SWISS-NANO-3T					

Tornos SwissNano 7

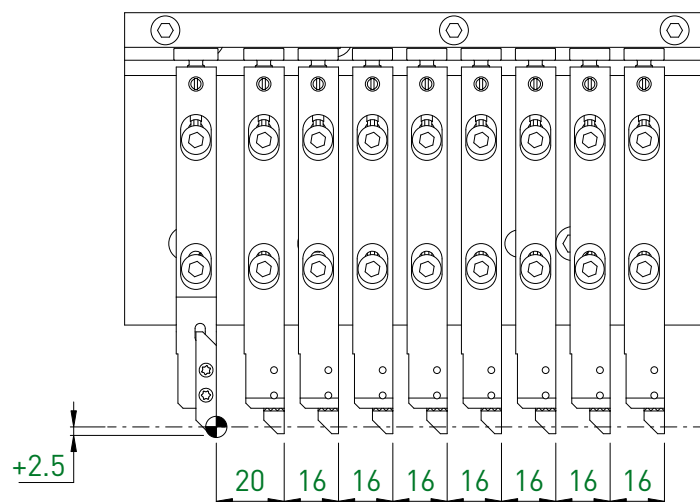
ML12



Support de base Grundhalter Base holder				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
4T	ML12-SWISS-NANO-7-4T	ML12	> 62	-	ML12-JET-5/16	80



Possibilité de coupler 2 modules 4T
2 Module 4T können gekoppelt werden
Possibility to couple 2 modules 4T

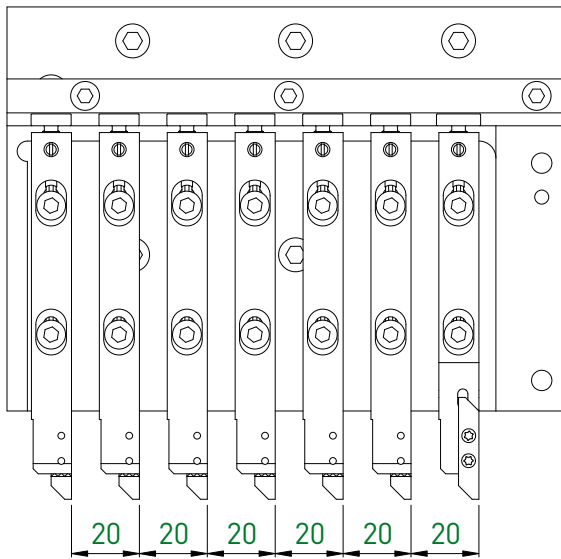


Support de base Grundhalter Base holder				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
9T	ML12-DT13-2020206-9T	ML12	> 62	-	ML12-JET-5/16	80

Tornos CT 20

+ 1 outil (max 7)
+ 1 Werkzeug (max 7)
+ 1 tool (max 7)

ML12

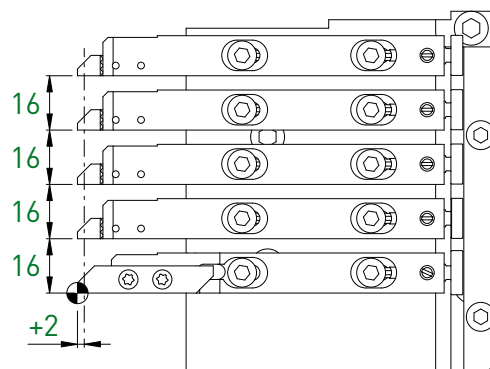
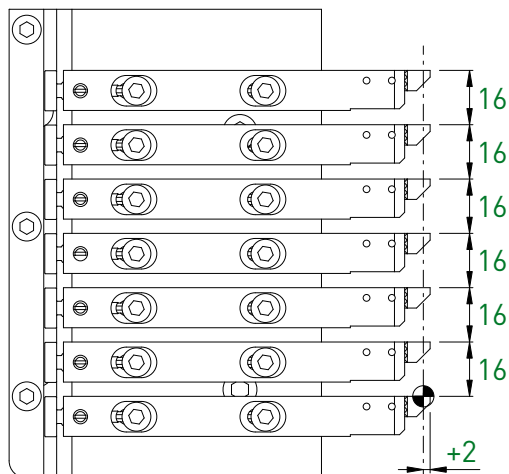


Support de base Grundhalter Base holder				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
7T	ML12-CT20-2020019-7T	ML12	> 62	-	ML12-JET-5/16	80

Tornos GT 13

+ 5 outils (max 12)
+ 5 Werkzeuge (max 12)
+ 5 tools (max 12)

ML12



Tornos GT 13

ML12

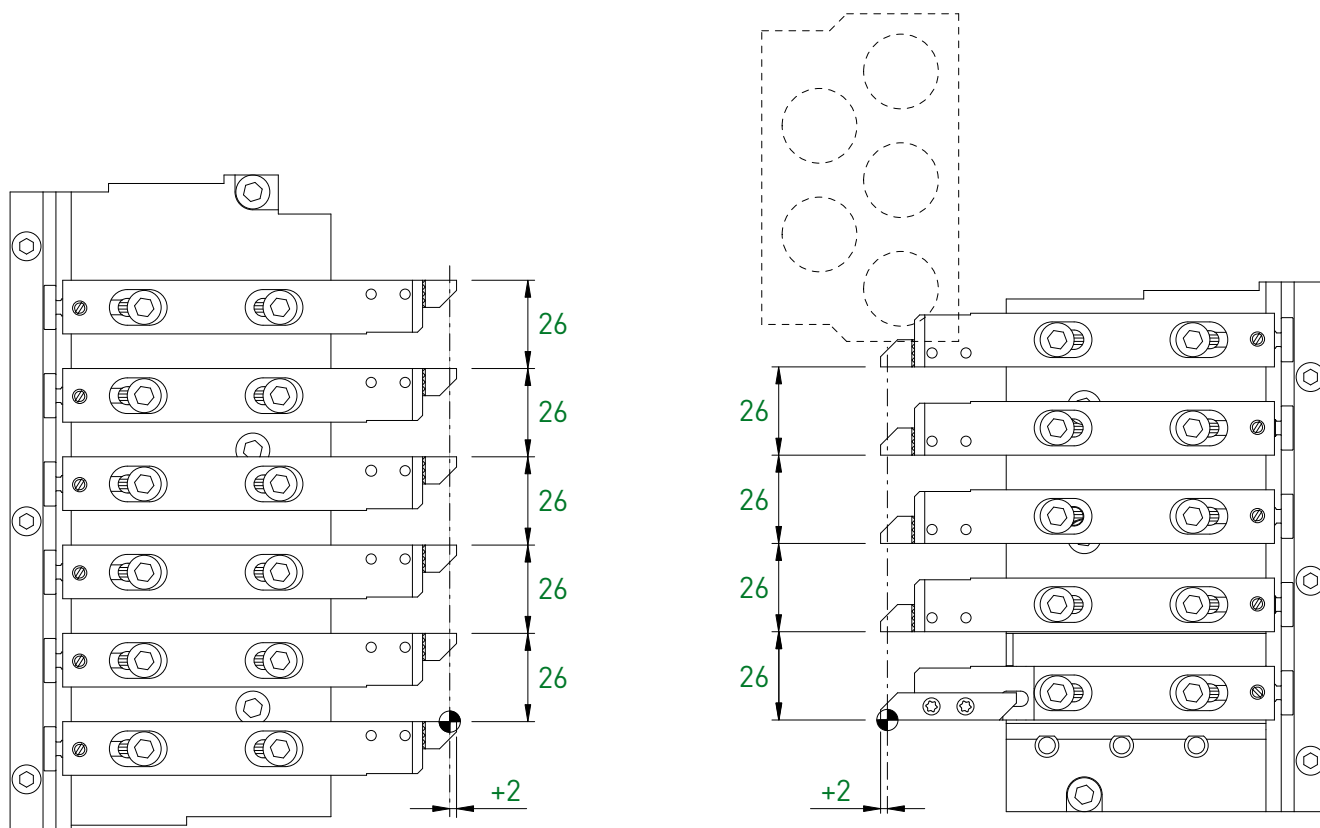


ML12-GT13-390223-7T



ML12-GT13-390224-5T

Support de base Grundhalter Base holder				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
5T	ML12-GT13-390224-5T	ML12	> 62	-	ML12-JET-5/16	80
7T	ML12-GT13-390223-7T					



1 serrage ML16-FIX-16 pour outil $\square$ 16 mm inclus
1 Spannung ML16-FIX-16 für Werkzeug $\square$ 16 mm inbegriffen
1 clamping ML16-FIX-16 for tool $\square$ 16 mm included

Tornos GT 26

ML16



ML16-GT26-386209-6T



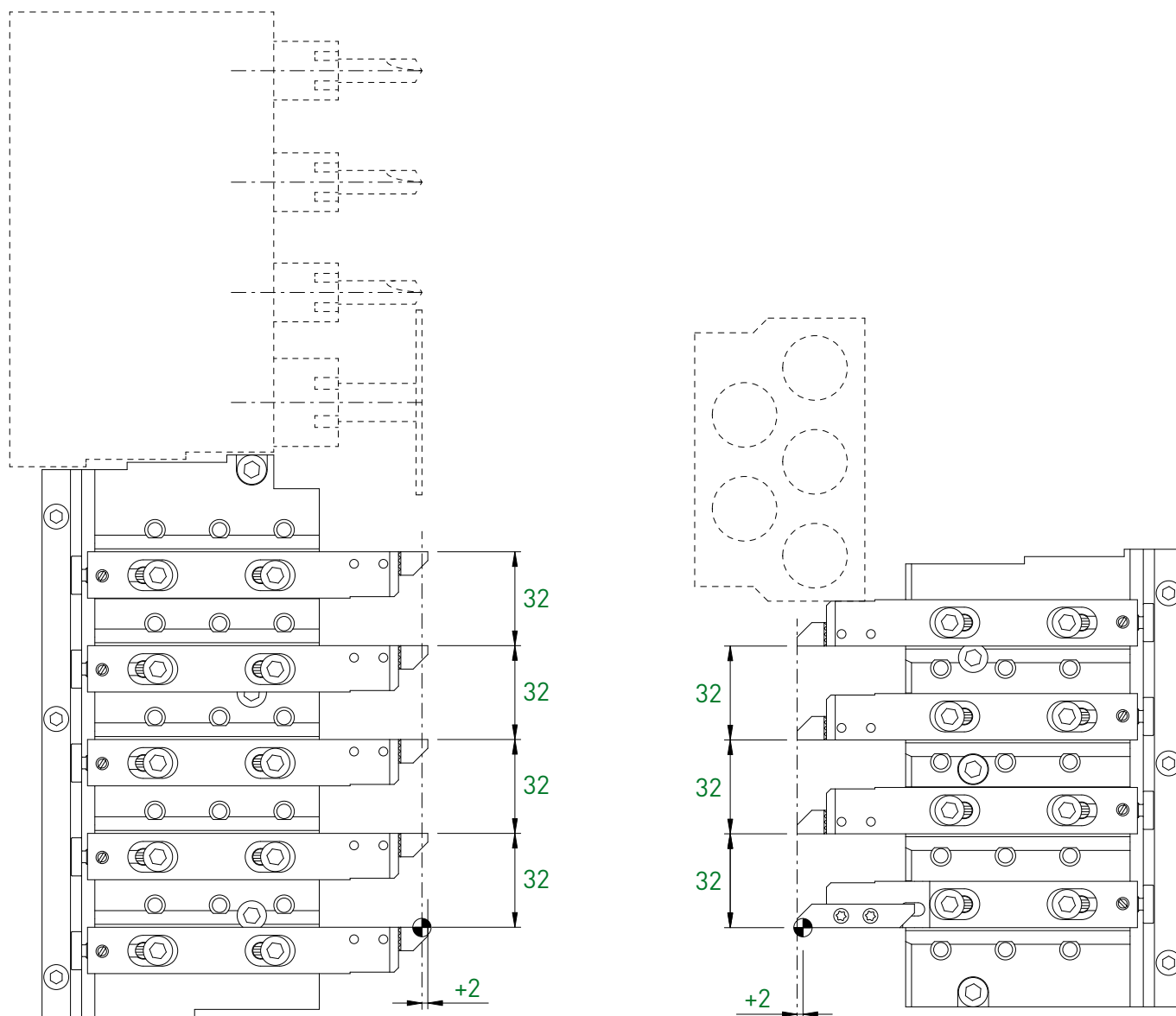
ML16-GT26-386210-5T

Support de base Grundhalter Base holder				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
5T	ML16-GT26-386210-5T	ML16	> 62	-	ML16-JET-7/16	80
6T	ML16-GT26-386209-6T					

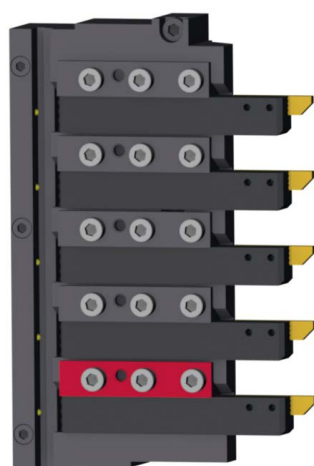
Tornos GT 32

+ 9 outils
max + 9 Werkzeuge
+ 9 tools

ML16



Holder ML16



Holder ∅16



Holder ML16



Holder ∅16



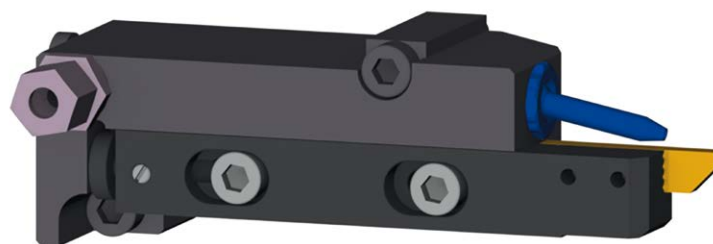
ML16-GT32-386209-5T



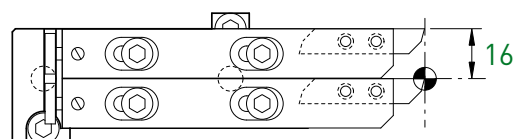
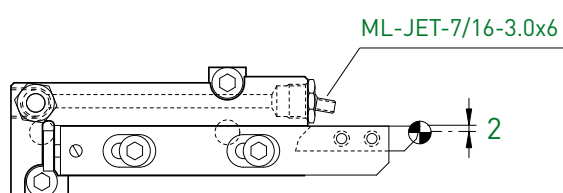
ML16-GT32-386210-4T

Support de base Grundhalter Base holder				Accessoires Zubehöre Accessories			
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit		Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Pages Seiten Pages
4T	ML16-GT32-386210-4T	ML16	> 62	1x inclus 1x inbegriffen 1x included	Option ML16-FIX-16	ML16-JET-7/16	80
5T	ML16-GT32-386209-5T						

Jet



Duo



Jet



Duo



Support de base Grundhalter Base holder		Tornos DECO 13 / EvoDECO 16		Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
Jet	ML16-DECO13-JET	ML16	> 62	-	ML-JET-7/16...	81
Duo	ML16-DECO13-DUO				ML16-JET-7/16	80

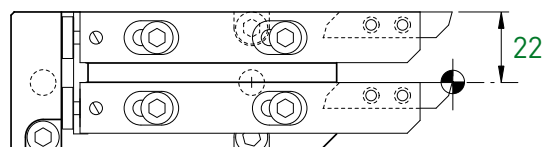
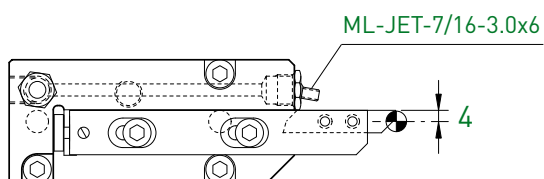
Tornos DECO 20 / 26
EvoDECO 20 / 32

ML16

Jet



Duo



Jet



Duo

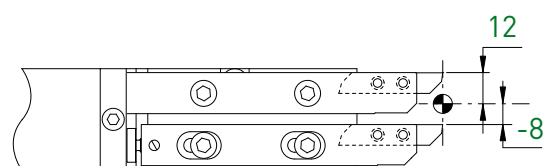
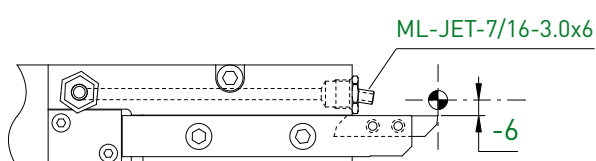


Support de base Grundhalter Base holder		Tornos DECO 20 / 26 EvoDECO 20 / 32		Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
Jet	ML16-DEC020-JET	ML16	> 62	-	ML-JET-7/16...	81
Duo	ML16-DEC020-DUO				ML16-JET-7/16	80

Jet



Duo



Jet



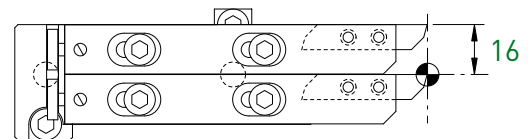
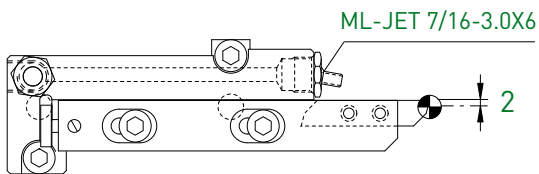
Duo

Support de base Grundhalter Base holder				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
Jet	ML16-S20-JET	ML16	> 62	-	ML-JET-7/16...	81
Duo	ML16-S20-DUO				ML16-JET-7/16	80

Jet



Duo



Jet



Duo

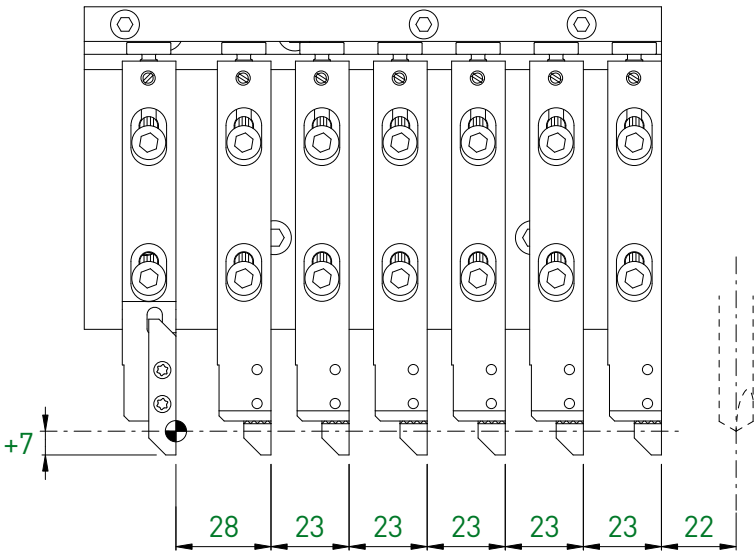


Support de base Grundhalter Base holder				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
Jet	ML16-SWISS-ST26-JET	ML16	> 62	-	ML-JET-7/16...	81
Duo	ML16-SWISS-ST26-DUO				ML16-JET-7/16	80

Tornos DT 26

- + 1 outil (max 7)
- + 1 Werkzeug (max 7)
- + 1 tool (max 7)

ML16

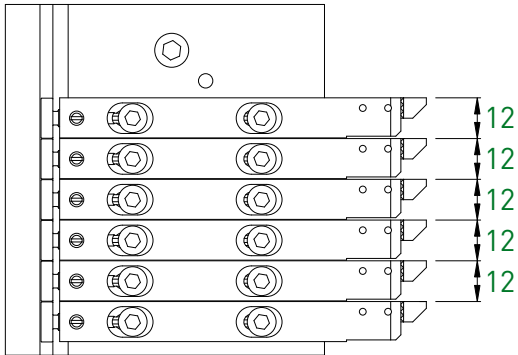


Support de base Grundhalter Base holder				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
7T	ML16-DT26-2020206-7T	ML16	> 62	-	ML16-JET-7/16	80

Tsugami B074

+ 3 outils (max 6)
+ 3 Werkzeuge (max 6)
+ 3 tools (max 6)

ML12

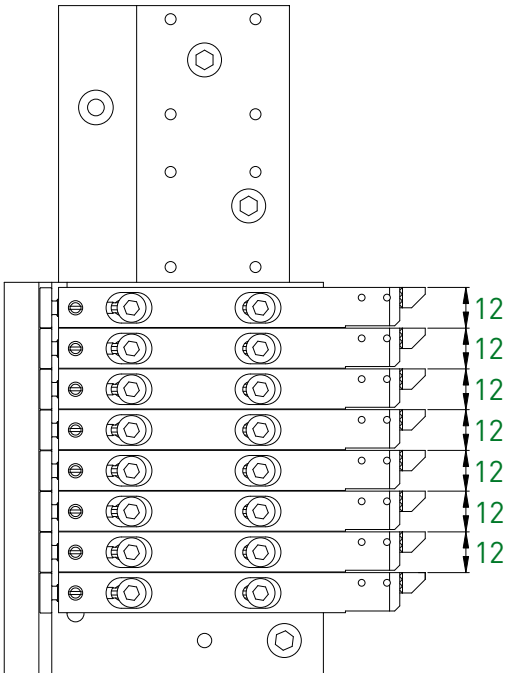


Support de base Grundhalter Base holder		Tsugami B074		Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
6T	ML12-B074-1-6T	ML12	> 62	-	ML12-JET-5/16	80

Tsugami B075

- + 5 outils (max 8)
- + 5 Werkzeuge (max 8)
- + 5 tools (max 8)

ML12

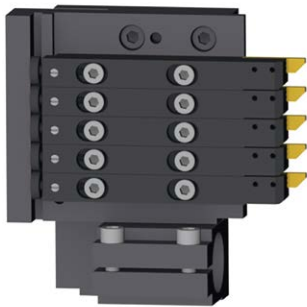
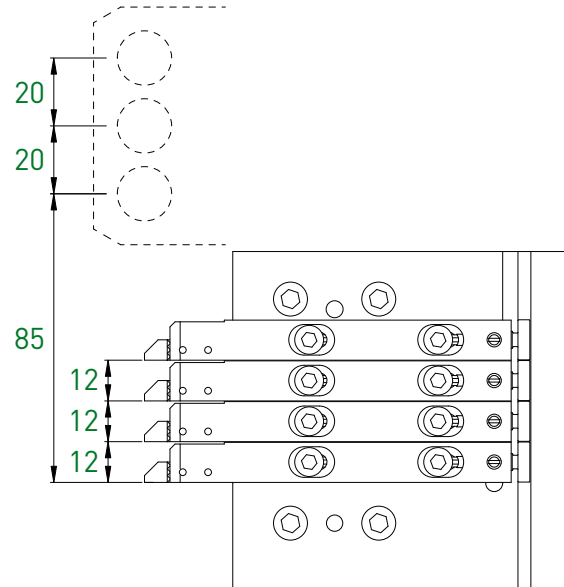
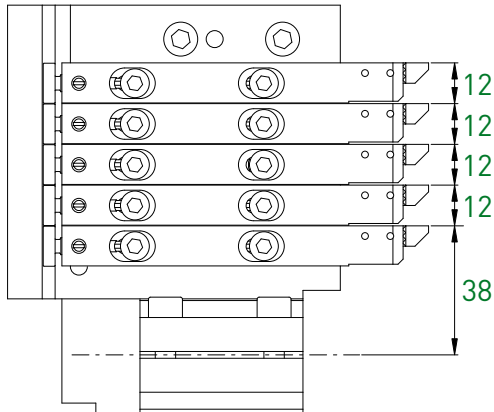


Support de base Grundhalter Base holder				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
8T	ML12-B075-1-8T	ML12	> 62	-	ML12-JET-5/16	80

Tsugami P034

+ 3 outils (max 9)
+ 3 Werkzeuge (max 9)
+ 3 tools (max 9)

ML12



ML12-P034-1-5T

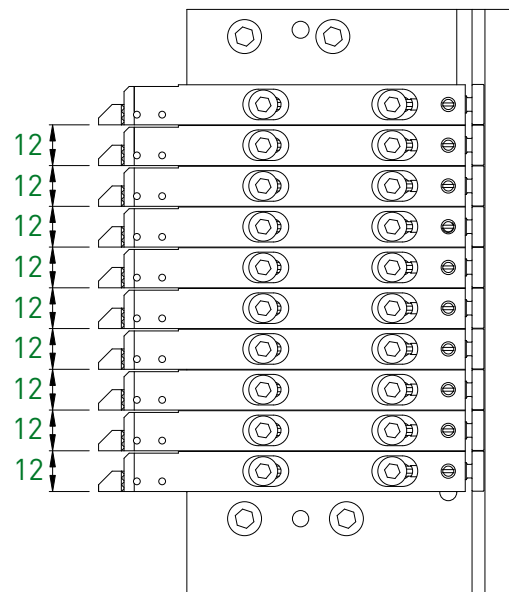
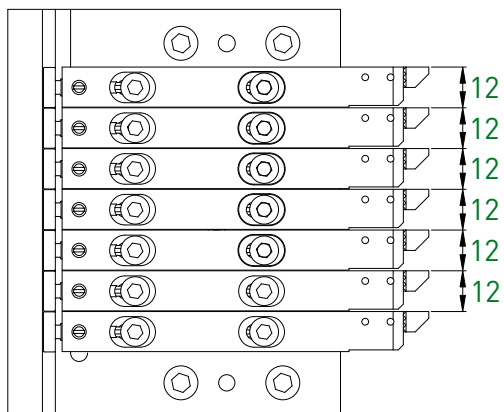
ML12-P034-2-4T

Support de base Grundhalter Base holder				Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
4T	ML12-P034-2-4T	ML12	> 62	-	ML12-JET-5/16	80
5T	ML12-P034-1-5T					

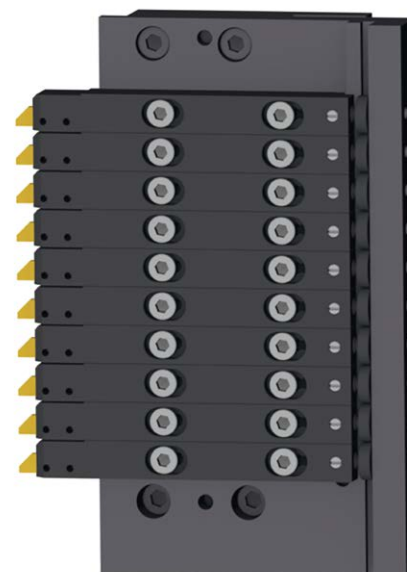
Tsugami P034

+ 17 outils
max + 17 Werkzeuge
+ 17 tools

ML12



ML12-P034-1-7T



ML12-P034-2-10T

Tsugami P034

ML12



ML12-P034-1-7T



ML12-P034-2-10T

Support de base Grundhalter Base holder		Tsugami P034		Accessoires Zubehöre Accessories		
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
7T	ML12-P034-1-7T	ML12	> 62	-	ML12-JET-5/16	80
10T	ML12-P034-2-10T					

Les différents types de porte-outils
Die verschiedenen Haltertypen
The various types of holders

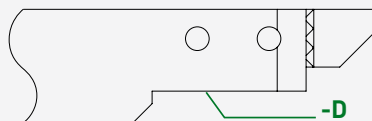
Type Standard

ML12A-740



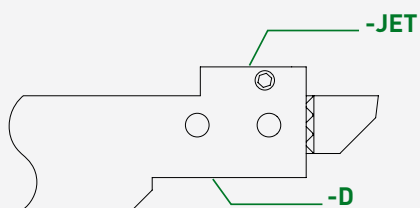
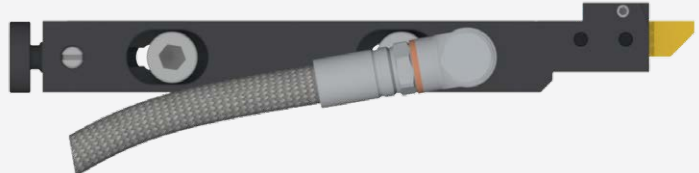
Type -D

ML12A-740-D



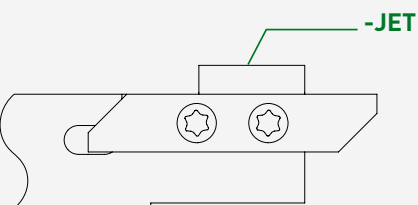
Type -JET-D

ML12A-740-JET-D



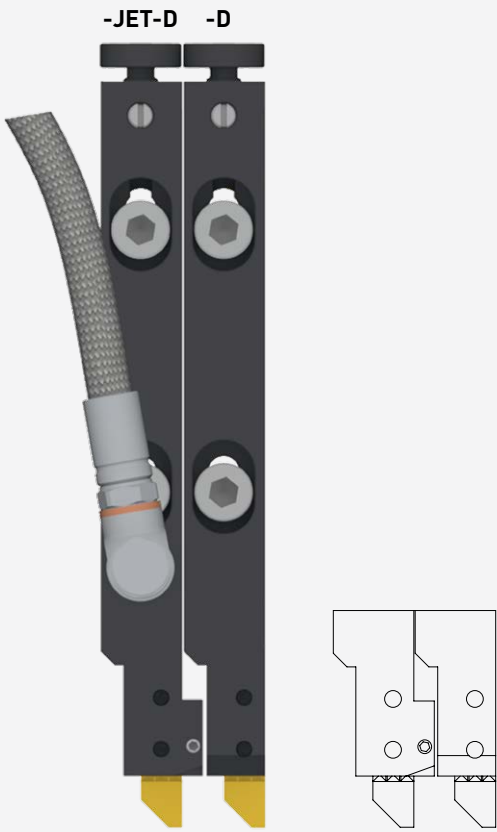
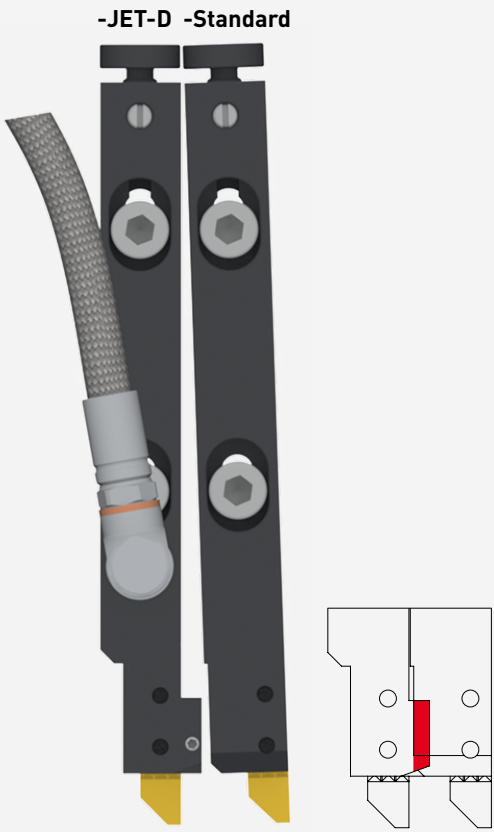
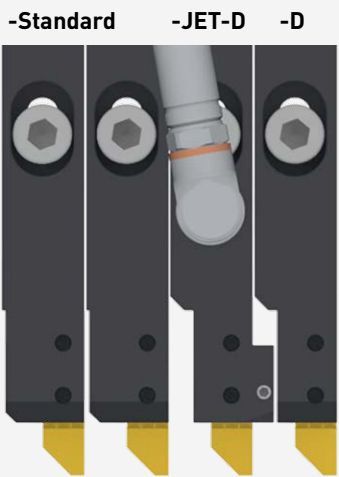
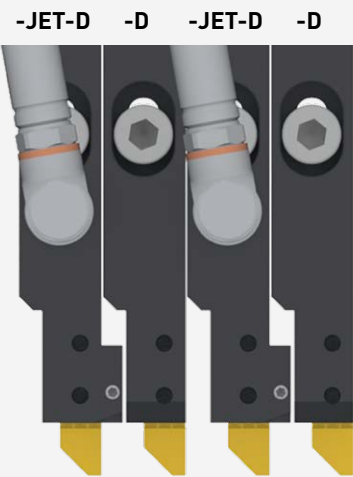
Type -JET

ML12A-740-JET



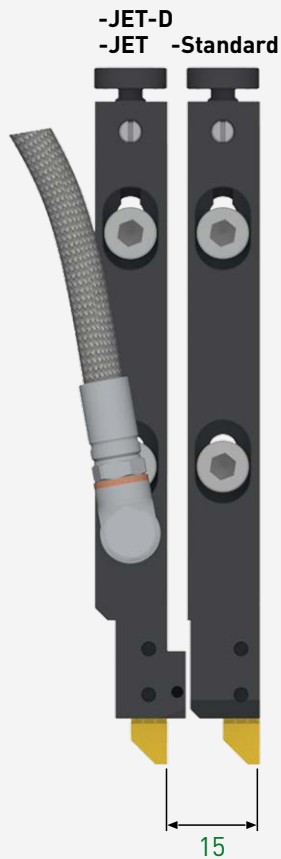
- Informations techniques
- Technische Informationen
- Technical information

- Porte-outils
- Halter
- Holders

Compatibilité Kompatibilität Compatibility			
OK		NOT OK	
-JET-D -D 		-JET-D -Standard 	
MIX		TYPE D	
-Standard -JET-D -D 		-JET-D -D -JET-D -D 	

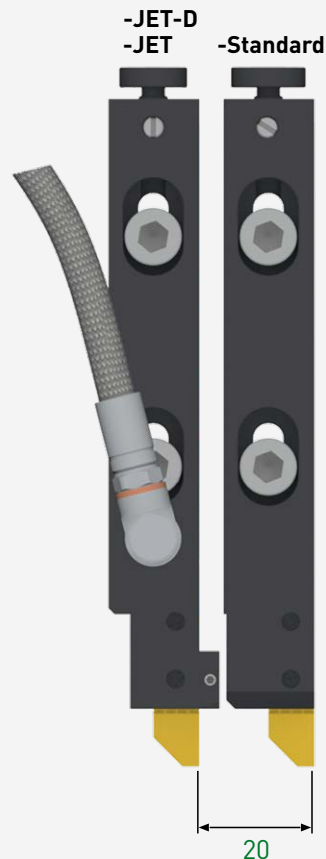
Exceptions
Ausnahmen
Exceptions

Exception ML12



≥ 15 mm = Total compatibility

Exception ML16



≥ 20 mm = Total compatibility

Brochure JET-Line:

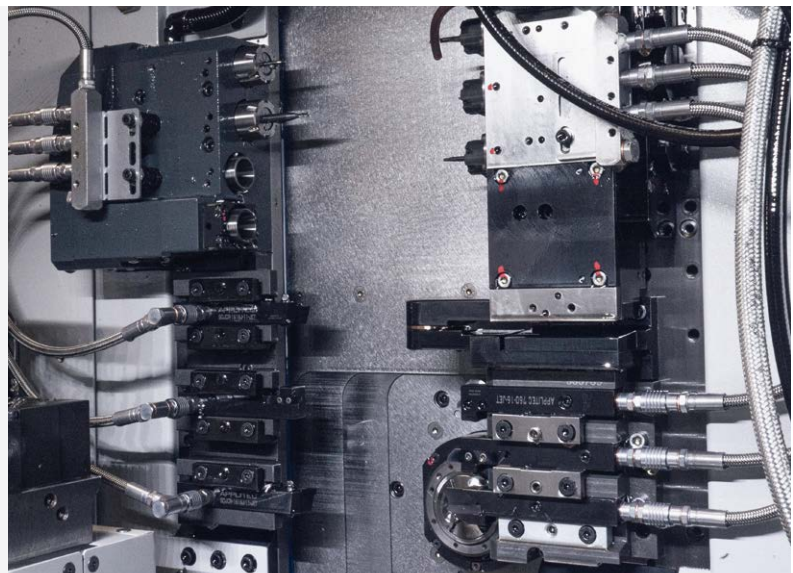
Système de distribution du liquide de refroidissement pour haute pression

JET-Line Broschüre:

Kühlmittelverteilungssystem für hohen Druck

JET-Line brochure:

Coolant distribution system for high pressure



Porte-outils

Halter

Holder

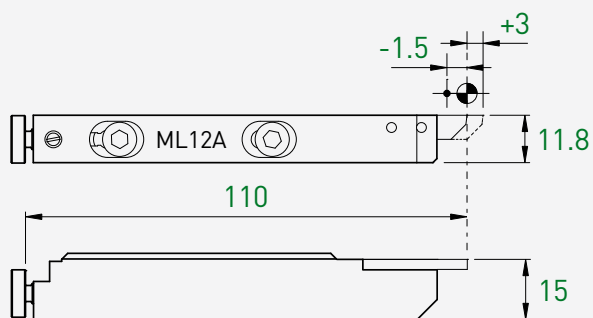
ML12 / ML16

Système de fixation
Befestigungssystem
Clamping system

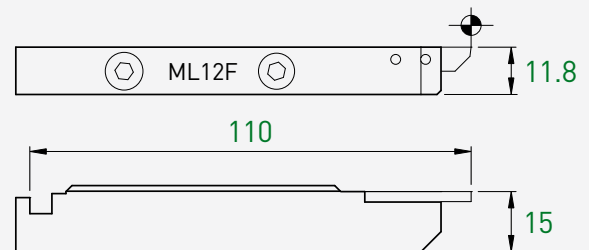
A = réglable
einstellbar
adjustable

F = longueur fixe
fixlänge
fixed length

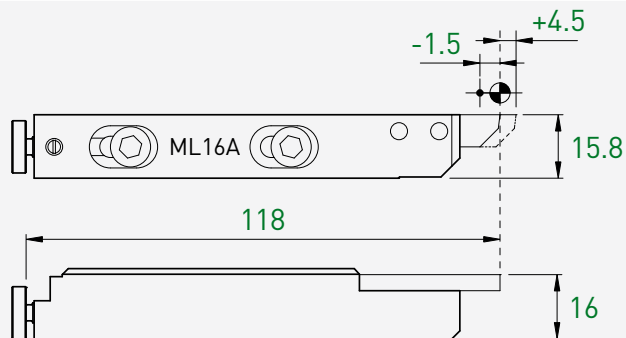
ML12A



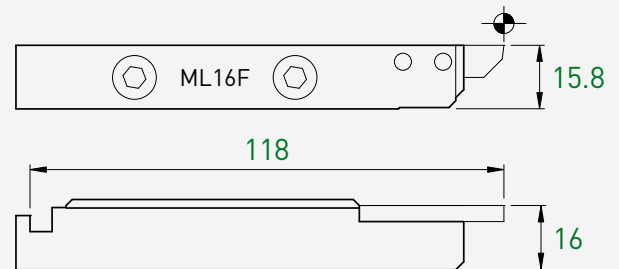
ML12F

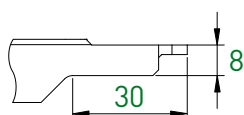


ML16A

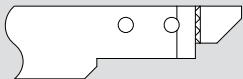
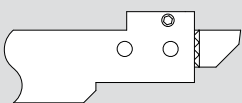


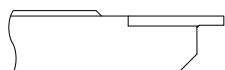
ML16F





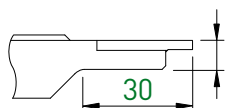
TOP-Line
731-737

Standard	-D	-JET-D
		
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
-	ML12A-730-C-D	-



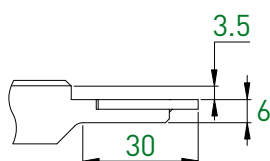
TOP-Line
741-747

ML12	ML12	ML12
ML12A-740	ML12A-740-D	ML12A-740-JET-D
ML12F-740	ML12F-740-D	-
ML16	ML16	ML16
ML16A-740	ML16A-740-D	ML16A-740-JET-D
ML16F-740	-	-



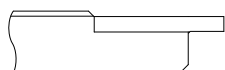
TOP-Line
741-747

ML12	ML12	ML12
ML12A-740-C	ML12A-740-C-D	ML12A-740-C-JET-D
ML12F-740-C	ML12F-740-C-D	-



TOP-Line
741

ML12	ML12	ML12
ML12A-740-C-R04	-	-
ML12A-740-C-SWISS-NANO	-	-



TOP-Line
761-767

ML12	ML12	ML12
ML12A-760	ML12A-760-D	ML12A-760-JET-D
ML12F-760	ML12F-760-D	-
ML16	ML16	ML16
ML16A-760	ML16A-760-D	ML16A-760-JET-D
ML16F-760	-	-

Porte-plaquettes

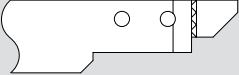
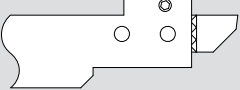
WSP-Halter

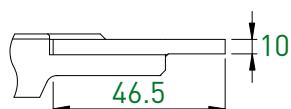
Insert holders

TOP-Line



TOP-Line
761-767

Standard	-D	-JET-D
		
Art. N°	Art. N°	Art. N°
ML16	ML16	ML16
ML16A-760-C	ML16A-760-C-D	-
ML16F-760-C	-	-



TOP-Line
781

ML16	ML16	ML16
-	ML16A-780-C-D	-

Porte-plaquettes

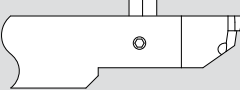
WSP-Halter

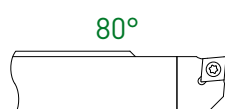
Insert holders

TURN-Line

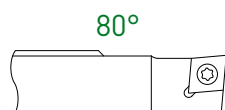


TURN-Line
347-349

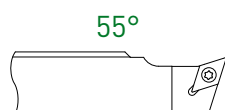
Standard	-D	-JET-D
		
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
ML12A-340	ML12A-340-D	ML12A-340-JET-D
ML12F-340	ML12F-340-D	-
ML16	ML16	ML16
ML16A-340	ML16A-340-D	ML16A-340-JET-D
ML16F-340	-	-



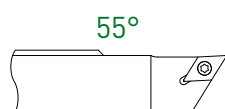
ISO-Line
CC...-0602..



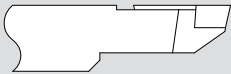
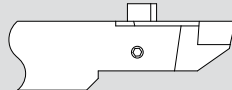
ISO-Line
CC...-09T3..



ISO-Line
DC...-0702..



ISO-Line
DC...-0702..

Standard	-D	-JET-D
		
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
ML12A-SCLCR06 ML12F-SCLCR06	ML12A-SCLCR06-D ML12F-SCLCR06-D	ML12A-SCLCR06-JET-D -
ML16	ML16	ML16
ML16A-SCLCR06 ML16F-SCLCR06	ML16A-SCLCR06-D ML16F-SCLCR06-D	ML16A-SCLCR06-JET-D -

ML12	ML12	ML12
ML12A-SCLCR09 ML12F-SCLCR09	ML12A-SCLCR09-D ML12F-SCLCR09-D	ML12A-SCLCR09-JET-D -
ML16	ML16	ML16
ML16A-SCLCR09 ML16F-SCLCR09	ML16A-SCLCR09-D ML16F-SCLCR09-D	ML16A-SCLCR09-JET-D -

ML16	ML16	ML16
ML16A-SDHCR07	-	-

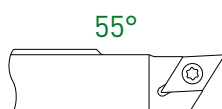
ML12	ML12	ML12
ML12A-SDJCR07 ML12F-SDJCR07	ML12A-SDJCR07-D ML12F-SDJCR07-D	ML12A-SDJCR07-JET-D -
ML16	ML16	ML16
ML16A-SDJCR07 ML16F-SDJCR07	ML16A-SDJCR07-D ML16F-SDJCR07-D	ML16A-SDJCR07-JET-D -

Porte-plaquettes

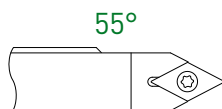
WSP-Halter

Insert holders

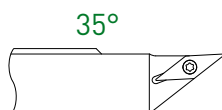
ISO-Line



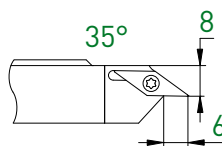
ISO-Line
DC..-11T3..



ISO-Line
DC..-11T3..



ISO-Line
VC..-1103..



ISO-Line
VC..-1103..

Standard	-D	-JET-D
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
ML12A-SDJCR11 ML12F-SDJCR11	ML12A-SDJCR11-D ML12F-SDJCR11-D	ML12A-SDJCR11-JET-D -
ML16	ML16	ML16
ML16A-SDJCR11 ML16F-SDJCR11	ML16A-SDJCR11-D ML16F-SDJCR11-D	ML16A-SDJCR11-JET-D -

ML12	ML12	ML12
ML12A-SDNCN11 ML12F-SDNCN11	ML12A-SDNCN11-D ML12F-SDNCN11-D	- -
ML16	ML16	ML16
ML16A-SDNCN11 ML16F-SDNCN11	ML16A-SDNCN11-D ML16F-SDNCN11-D	- -

ML12	ML12	ML12
ML12A-SVJCR11 ML12F-SVJCR11	ML12A-SVJCR11-D ML12F-SVJCR11-D	ML12A-SVJCR11-JET-D -
ML16	ML16	ML16
ML16A-SVJCR11 ML16F-SVJCR11	ML16A-SVJCR11-D ML16F-SVJCR11-D	ML16A-SVJCR11-JET-D -

ML12	ML12	ML12
ML12A-SV-CR11	ML12A-SV-CR11-D	-
ML16	ML16	ML16
ML16A-SV-CR11	ML16A-SV-CR11-D	-

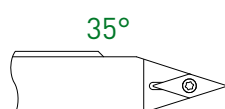
MODU-LINE

Porte-plaquettes

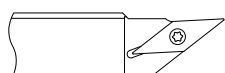
WSP-Halter

Insert holders

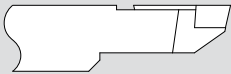
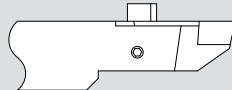
ISO-Line



ISO-Line
VC...-1103..



ISO-Line
VC...-1303..

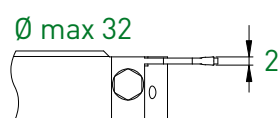
Standard	-D	-JET-D
		
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
ML12A-SVVCN11 ML12F-SVVCN11	ML12A-SVVCN11-D ML12F-SVVCN11-D	ML12A-SVVCN11-JET-D -
ML16	ML16	ML16
ML16A-SVVCN11 ML16F-SVVCN11	ML16A-SVVCN11-D ML16F-SVVCN11-D	- -
ML12	ML12	ML12
-	ML12A-SVJCR13-D	-
ML16	ML16	ML16
-	ML16A-SVJCR13-D	ML16A-SVJCR13-JET-D

Porte-plaquettes

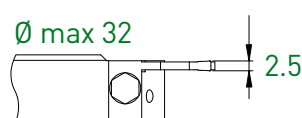
WSP-Halter

Insert holders

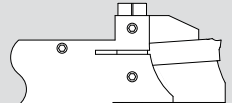
EVOCUT-Line



EVOCUT-Line
ET20..



EVOCUT-Line
ET25..

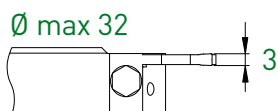
		-JET 
		
Art. N°	Art. N°	Art. N°
ML16	ML16	ML16
-	-	ML16A-ET20-JET32
ML16	ML16	ML16
-	-	ML16A-ET25-JET32

Porte-plaquettes

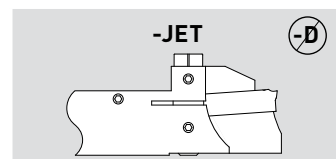
WSP-Halter

Insert holders

EVOCUT-Line



EVOCUT-Line
ET30..



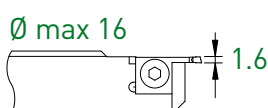
Art. N°	Art. N°	Art. N°
ML16	ML16	ML16
-	-	ML16A-ET30-JET32

Porte-plaquettes

WSP-Halter

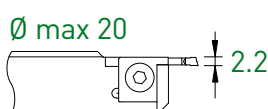
Insert holders

CUT-Line



CUT-Line
CUT16..

Standard		
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
ML12A-CUT16	-	-
ML12F-CUT16	-	-
ML16	ML16	ML16
ML16A-CUT16	-	-
ML16F-CUT16	-	-



CUT-Line
CUT22..

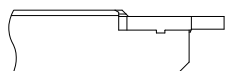
ML12	ML12	ML12
ML12A-CUT22	-	-
ML12F-CUT22	-	-
ML16	ML16	ML16
ML16A-CUT22	-	-
ML16F-CUT22	-	-

Porte-plaquettes

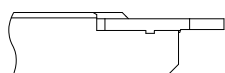
WSP-Halter

Insert holders

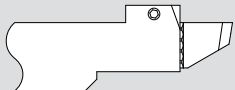
PRO-Line



PRO-Line
642-647



PRO-Line
661

	-D	-JET-D
		
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
-	ML12A-640-D	ML12A-640-JET-D
ML16	ML16	ML16
-	ML16A-640-D	ML16A-640-JET-D

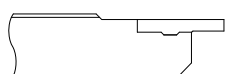
ML12	ML12	ML12
-	ML12A-660-D	ML12A-660-JET-D
ML16	ML16	ML16
-	ML16A-660-D	ML16A-660-JET-D

Porte-plaquettes

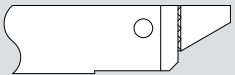
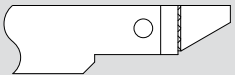
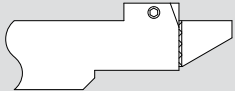
WSP-Halter

Insert holders

ECO-Line



ECO-Line
261-266

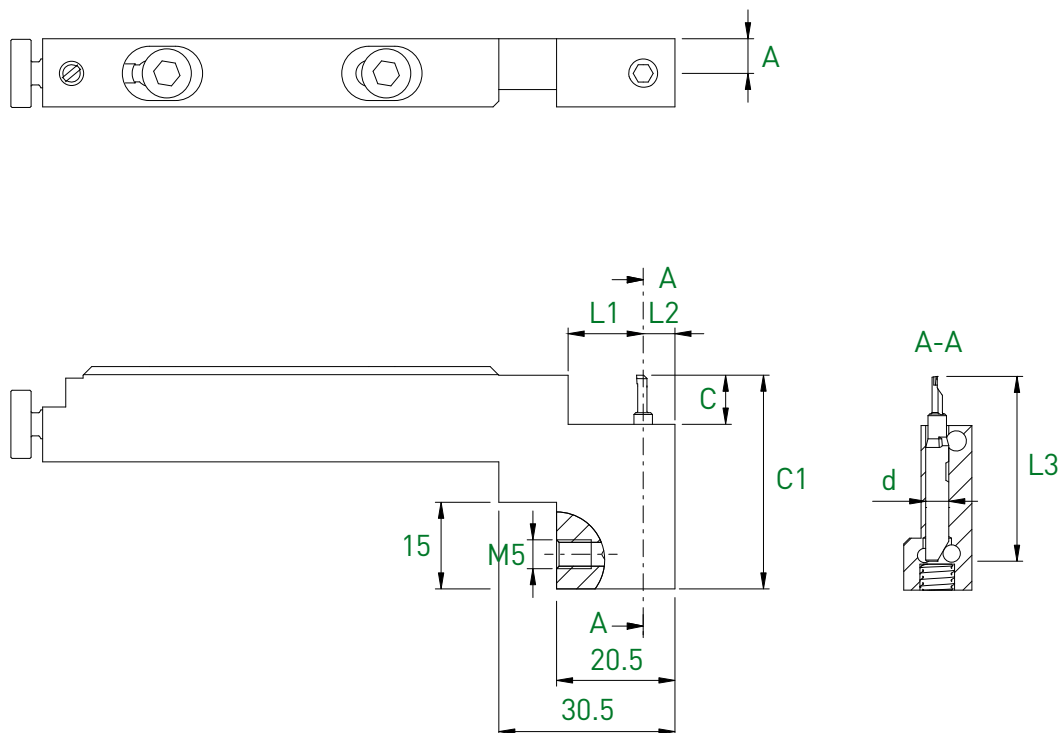
Standard	-D	-JET-D
		
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
ML12A-260	ML12A-260-D	ML12A-260-JET-D
ML12F-260	ML12F-260-D	-
ML16	ML16	ML16
ML16A-260	ML16A-260-D	ML16A-260-JET-D
ML16F-260	-	-

Porte-outils

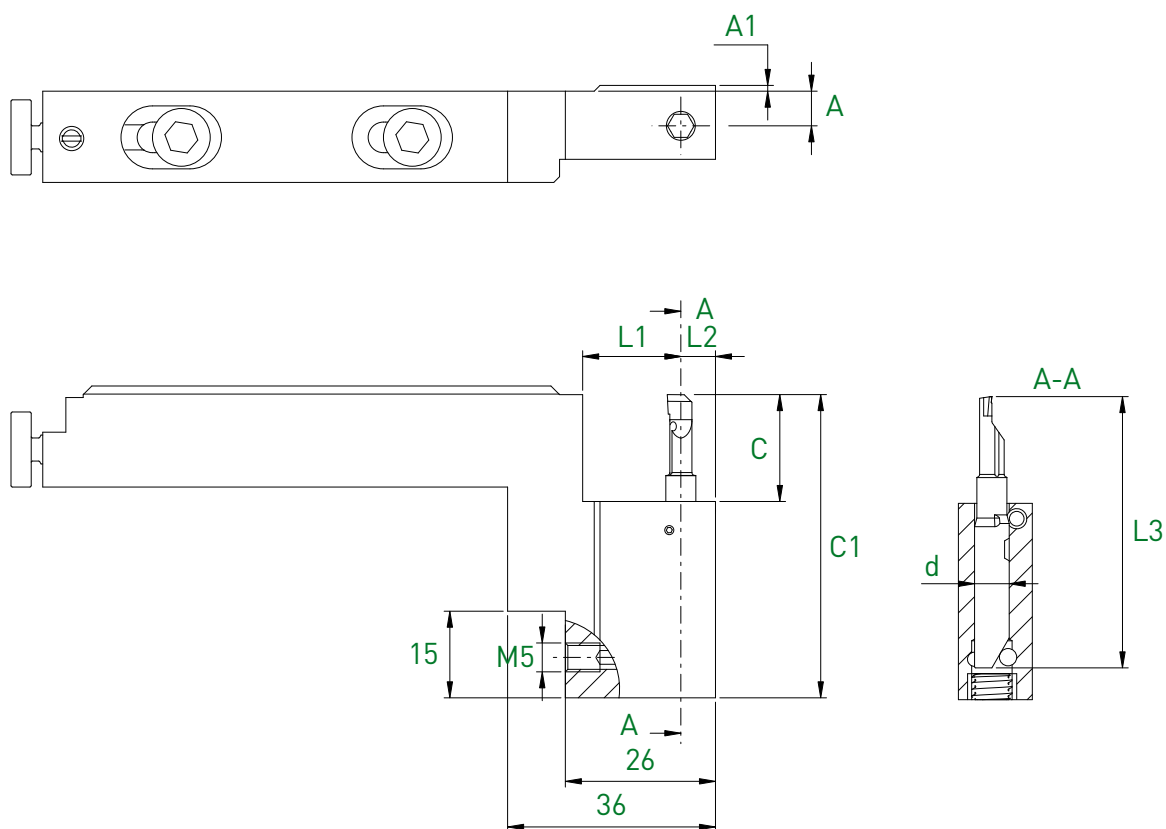
Halter

Holder

IN-Line



								ML12
d	Compatible bars	L3	C	C1	A	L1	L2	Art. N°
4	BB4R... BF4R...	32	8.5	37	6	13	5.5	ML12A-BHK4N-32R-D
		37	13.5	42	6	13	5.5	ML12A-BHK4N-37R-D
		42	18.5	47	6	13	5.5	ML12A-BHK4N-42R-D



									ML16
d	Compatible bars	L3	C	C1	A	A1	L1	L2	Art. N°
4	BB4R... BF4R...	32	8.5	37	6	-	17.5	5.5	ML16A-BHK4N-32R-D
		37	13.5	42	6	-	17.5	5.5	ML16A-BHK4N-37R-D
		42	18.5	47	6	-	17.5	5.5	ML16A-BHK4N-42R-D

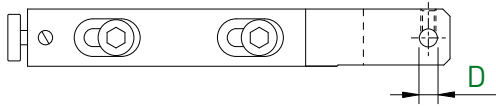
									ML16
d	Compatible bars	L3	C	C1	A	A1	L1	L2	Art. N°
6	BB4R... BF4R...	47	18.5	52.5	6	1	17	6	ML16A-BHK6N-47R-D
		57	28.5	62.5	6	1	17	6	ML16A-BHK6N-57R-D

Porte-outils

Halter

Holders

TOOLING-Line



					ML12
A	D	E	L1	L2	Art. N°
8	3	12	13	6	ML12A-2440-8-3
8	4	12	13	6	ML12A-2440-8-4
8	5	12	13	6	ML12A-2440-8-5
12	6	12	13	6	ML12A-2440-12-6

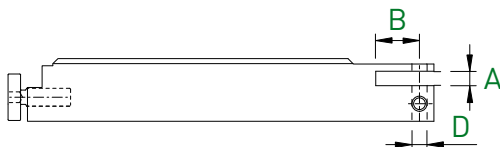
					ML16
A	D	E	L1	L2	Art. N°
12	3	16	18	6	ML16A-2440-12-3
12	4	16	18	6	ML16A-2440-12-4
12	5	16	18	6	ML16A-2440-12-5
12	6	16	18	6	ML16A-2440-12-6
18	8	16	18	6	ML16A-2440-18-8

Porte-molettes

Rändelhalter

Knurl holders

TOOLING-Line



			ML12
A	D	B	Art. N°
4	4	8	ML12A-2402-44

			ML16
A	D	B	Art. N°
4	4	11	ML16A-2402-44

MODU-LINE

Porte-plaquettes – Coupe déportée & contre-opération

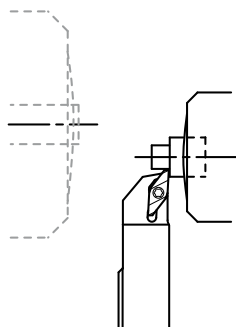
WSP-Halter – Versetztes Schneiden & Gegenspindel

Insert holders – Cut off line & cut on subspindle

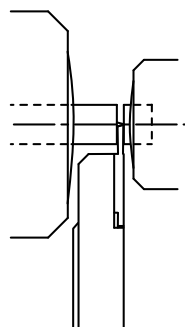
Coupe à droite déportée ou usinage
à gauche sur contre-broche

Rechtsschneidend versetzt oder
linksschneidend auf Gegenspindel

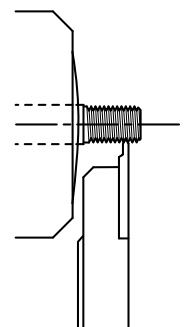
Right hand cut off line or left hand
cut on subspindle



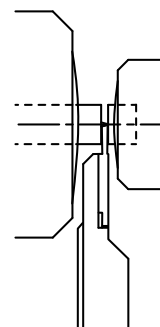
TURN-Line
ISO-Line



TOP-Line
EVOCUT-Line
CUT-Line
PRO-Line
ECO-Line



TOP-Line
EVOCUT-Line
CUT-Line
PRO-Line
ECO-Line



TOP-Line
PRO-Line
ECO-Line

Porte-plaquettes – Coupe déportée & contre-opération

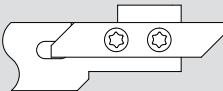
WSP-Halter – Versetztes Schneiden & Gegenspindel

Insert holders – Cut off line & cut on subspindle

TOP-Line



TOP-Line
731-737

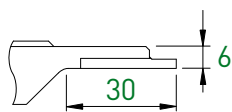
Standard	-D	-JET-D
		
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
ML12A-730-V	ML12A-730-V-D	ML12A-730-V-JET-D
ML16	ML16	ML16
ML16A-730-V	ML16A-730-V-D	ML16A-730-V-JET-D

Porte-plaquettes – Coupe déportée & contre-opération

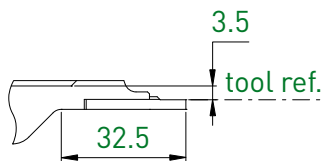
WSP-Halter – Versetztes Schneiden & Gegenspindel

Insert holders – Cut off line & cut on subspindle

TOP-Line



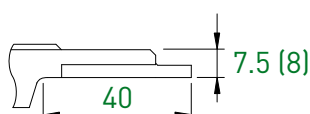
TOP-Line
731R



TOP-Line
731R



TOP-Line
751-757



TOP-Line
751R

Standard	-D	-JET ^(-D)
		
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
ML12A-730RC	-	ML12A-730RC-JET

ML16	ML16	ML16
		
Art. N°	Art. N°	Art. N°
ML16A-730RC	ML16A-730RC-D	ML16A-730RC-JET-D

ML12	ML12	ML12
ML12A-730RC-R04	-	-
ML12A-730RC-SWISS-NANO	-	-

ML12	ML12	ML12
ML12A-750-V	ML12A-750-V-D	ML12A-750-V-JET-D
ML16	ML16	ML16
ML16A-750-V	ML16A-750-V-D	ML16A-750-V-JET-D

ML12	ML12	ML12 ^(-D)
ML12A-750RC	-	ML12A-750RC-JET
ML16	ML16	ML16
ML16A-750RC	ML16A-750RC-D	ML16A-750RC-JET-D

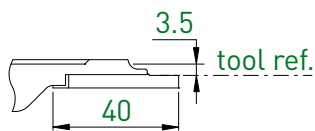
MODU-LINE

Porte-plaquettes – Coupe déportée & contre-opération

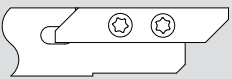
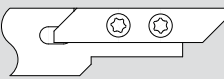
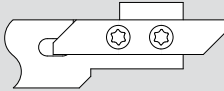
WSP-Halter – Versetztes Schneiden & Gegenspindel

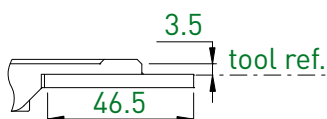
Insert holders – Cut off line & cut on subspindle

TOP-Line



TOP-Line
751R

Standard	-D	-JET-D
		
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
ML12A-750RC-R04	-	-
ML12A-750RC-SWISS-NANO	-	-



TOP-Line
771R

ML12	ML12	ML12
ML12A-770RC-SWISS-NANO	-	-

Porte-plaquettes – Contre-opération

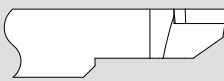
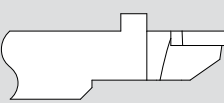
WSP-Halter – Gegenspindel

Insert holders – Cut on subspindle

TURN-Line



TURN-Line
337-339

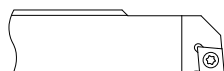
Standard	-D	-JET-D
		
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
ML12A-330-V	ML12A-330-V-D	ML12A-330-V-JET-D
ML16	ML16	ML16
ML16A-330-V	ML16A-330-V-D	ML16A-330-V-JET-D

Porte-plaquettes – Contre-opération

WSP-Halter – Gegenspindel

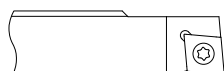
Insert holders – Cut on subspindle

ISO-Line



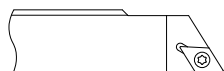
ISO-Line
CC..-0602..

Standard	-D	-JET-D
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
-	ML12A-SCLCL06-V-D	ML12A-SCLCL06-V-JET-D
ML16	ML16	ML16
-	ML16A-SCLCL06-V-D	ML16A-SCLCL06-V-JET-D



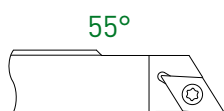
ISO-Line
CC..-9T3..

ML12	ML12	ML12
-	ML12A-SCLCL09-V-D	ML12A-SCLCL09-V-JET-D
ML16	ML16	ML16
-	ML16A-SCLCL09-V-D	ML16A-SCLCL09-V-JET-D



ISO-Line
CC..-0702..

ML12	ML12	ML12
-	ML12A-SDJCL07-V-D	ML12A-SDJCL07-V-JET-D
ML16	ML16	ML16
-	ML16A-SDJCL07-V-D	ML16A-SDJCL07-V-JET-D



ISO-Line
DC..-11T3..

ML12	ML12	ML12
ML12A-SDJCL11-V	ML12A-SDJCL11-V-D	ML12A-SDJCL11-V-JET-D
ML16	ML16	ML16
ML16A-SDJCL11-V	ML16A-SDJCL11-V-D	ML16A-SDJCL11-V-JET-D

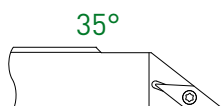
MODU-LINE

Porte-plaquettes – Contre-opération

WSP-Halter – Gegenspindel

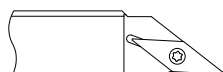
Insert holders – Cut on subspindle

ISO-Line



ISO-Line
VC..-1103..

Standard	-D	-JET-D
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
ML12A-SVJCL11-V	ML12A-SVJCL11-V-D	ML12A-SVJCL11-V-JET-D
ML16	ML16	ML16
ML16A-SVJCL11-V	ML16A-SVJCL11-V-D	ML16A-SVJCL11-V-JET-D



ISO-Line
VC..-1303..

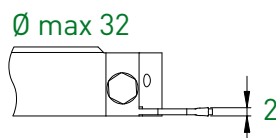
ML12	ML12	ML12
-	ML12A-SVJCL13-V-D	-
ML16	ML16	ML16
-	ML16A-SVJCL13-V-D	ML16A-SVJCL13-V-JET-D

Porte-plaquettes – Coupe déportée

WSP-Halter – Versetztes Schneiden

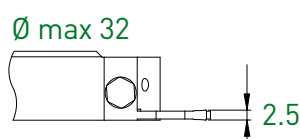
Insert holders – Cut off line

EVOCUT-Line



EVOCUT-Line
ET20

		-JET
Art. N°	Art. N°	Art. N°
ML16	ML16	ML16
-	-	ML16A-ET20-V-JET32



EVOCUT-Line
ET25

ML16	ML16	ML16
-	-	ML16A-ET25-V-JET32

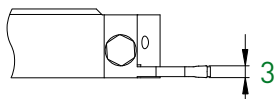
Porte-plaquettes – Coupe déportée

WSP-Halter – Versetztes Schneiden

Insert holders – Cut off line

EVOCUT-Line

Ø max 32

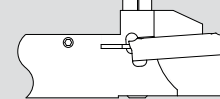


EVOCUT-Line
ET30

ML16	ML16	ML16
-	-	ML16A-ET30-V-JET32

-JET

(-D)



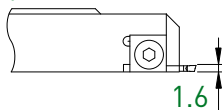
Porte-plaquettes – Coupe déportée

WSP-Halter – Versetztes Schneiden

Insert holders – Cut off line

CUT-Line

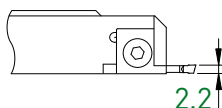
Ø max 16



CUT-Line
CUT16

Standard		
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
ML12A-CUT16-V	-	-
ML12F-CUT16-V	-	-
ML16	ML16	ML16
ML16A-CUT16-V	-	-
ML16F-CUT16-V	-	-

Ø max 20



CUT-Line
CUT22

ML12	ML12	ML12
ML12A-CUT22-V	-	-
ML12F-CUT22-V	-	-
ML16	ML16	ML16
ML16A-CUT22-V	-	-
ML16F-CUT22-V	-	-

Porte-plaquettes – Coupe déportée & contre-opération

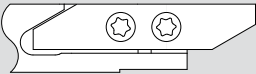
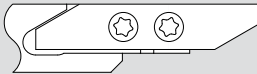
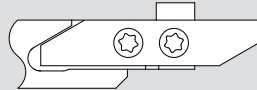
WSP-Halter – Versetztes Schneiden & Gegenspindel

Insert holders – Cut off line & cut on subspindle

PRO-Line



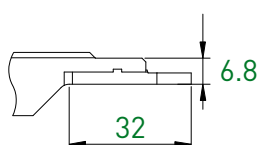
PRO-Line
632-636

Standard	-D	-JET-D
		
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
-	ML12A-630-V-D	ML12A-630-V-JET-D
ML16	ML16	ML16
-	ML16A-630-V-D	ML16A-630-V-JET-D



PRO-Line
651R

ML12	ML12	ML12
-	ML12A-650-V-D	ML12A-650-V-JET-D
ML16	ML16	ML16
-	ML16A-650-V-D	ML16A-650-V-JET-D



PRO-Line
651R

ML12	ML12	ML12
ML12A-650RC	ML12A-650RC-D	-
ML16	ML16	ML16
-	ML16A-650RC-D	ML16A-650RC-JET-D

Porte-plaquettes – Coupe déportée & contre-opération

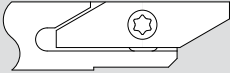
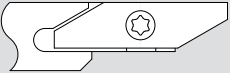
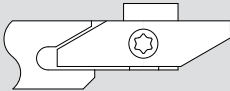
WSP-Halter – Versetztes Schneiden & Gegenspindel

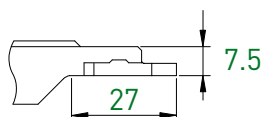
Insert holders – Cut off line & cut on subspindle

ECO-Line



ECO-Line
251-261

Standard	-D	-JET-D
		
Art. N°	Art. N°	Art. N°
ML12	ML12	ML12
ML12A-250-V	ML12A-250-V-D	ML12A-250-V-JET-D
ML16	ML16	ML16
ML16A-250-V	ML16A-250-V-D	ML16A-250-V-JET-D



ECO-Line
251R

ML12	ML12	ML12
-	ML12A-250RC-D	-
ML16	ML16	ML16
-	ML16A-250RC-D	-

MODU-LINE

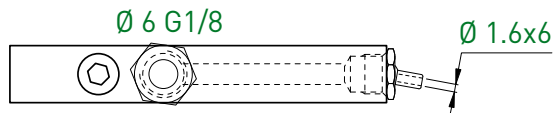
Modules d'arrosage

Kühlmittelzufuhrelemente

Coolant supply units

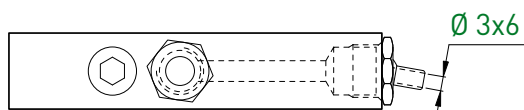
ML12 / ML16

ML12



Raccord Anschluss Connection	Buses d'arrosage Kühlmitteldüse Coolant nozzles	ML12
		Art. N°
Ø 6 G 1/8	5/16"	ML12-JET-5/16

ML16



Raccord Anschluss Connection	Buses d'arrosage Kühlmitteldüse Coolant nozzles	ML16
		Art. N°
Ø 6 G 1/8	7/16"	ML16-JET-7/16

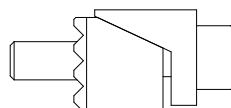
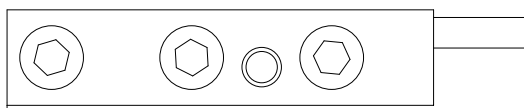
buses optionnelles voir page 81
zusätzliche Düsen siehe Seite 81
optional nozzles see page 81

Modules de serrage

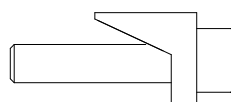
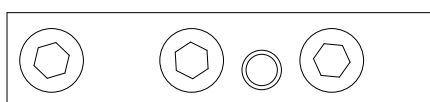
Spannelemente

Clamping units

ML12 / ML16



ML12	ML16
Art. N°	Art. N°
ML12-FIX-12/14	ML16-FIX-16/16
-	ML16-FIX-16/16.5
-	ML16-FIX-16/17
-	ML16-FIX-16/20
-	ML16-FIX-16/22
-	ML16-FIX-16/24



ML12	ML16
Art. N°	Art. N°
ML12-FIX-12	ML16-FIX-16

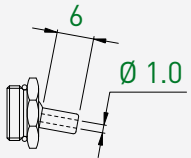
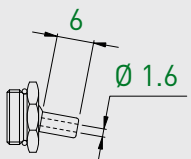
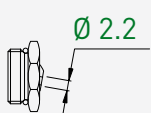
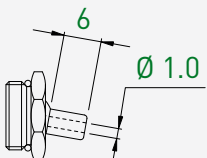
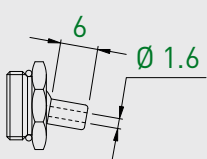
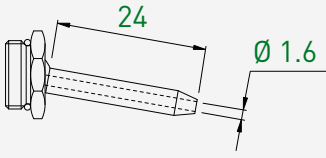
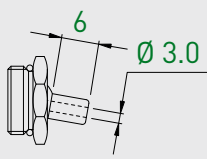
Buses d'arrosage

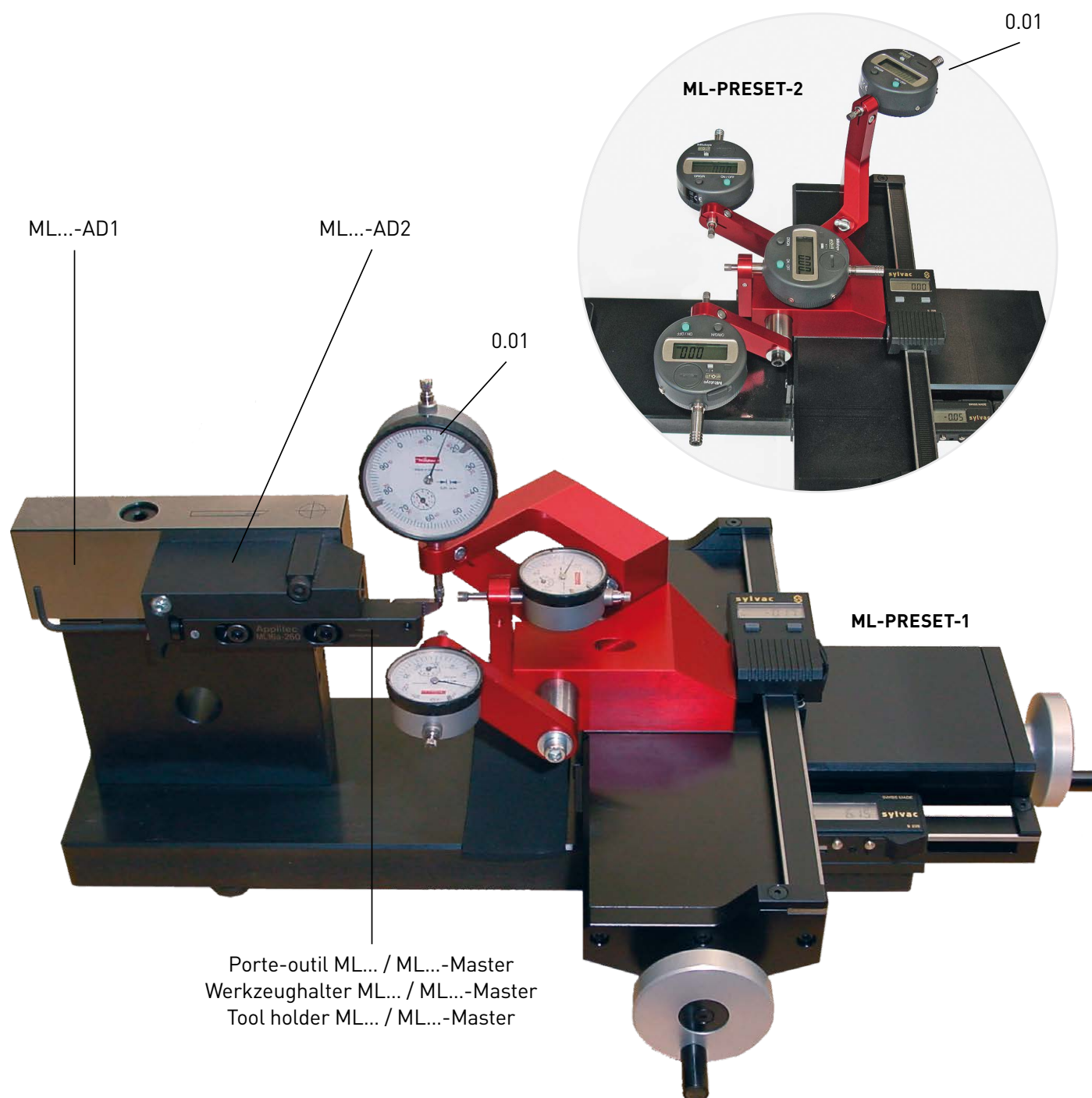
Kühlmitteldüsen

Coolant nozzles

5/16" / 7/16"

JET

5/16"	Art. N°	Références compatibles Kompatible Artikeln Compatible items
	ML-JET 5/16-1.0x6	ML12-JET-5/1.6
	ML-JET 5/16-1.6x6	une buse ML-JET-5/16-1.6x6 est comprise eine Düse ML-JET-5/16-1.6x6 ist inbegriffen a nozzle ML-JET-5/16-1.6x6 is included
	ML-JET 5/16-2.2x0	
7/16"	Art. N°	Références compatibles Kompatible Artikeln Compatible items
	ML-JET 7/16-1.0x6	ML16-KMX26-JET ML16-JET-7/16 ML12-DEC010-JET ML16-DEC013-JET ML16-DEC020-JET ML16-S20-JET ML16-SWISS-ST26-JET
	ML-JET 7/16-1.6x6	
	ML-JET-7/16-1.6x24	une buse ML-JET-7/16-3.0x6 est comprise avec chaque article ci-dessus eine Düse ML-JET 7/16-3.0x6 ist mit jedem vorstehenden Artikel inbegriffen
	ML-JET-7/16-3.0x6	a nozzle ML-JET 7/16-3.0x6 is included with each above item



Art. N°

ML-PRESET-1

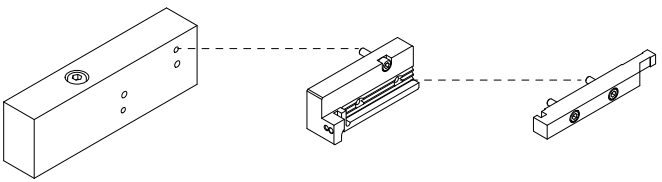
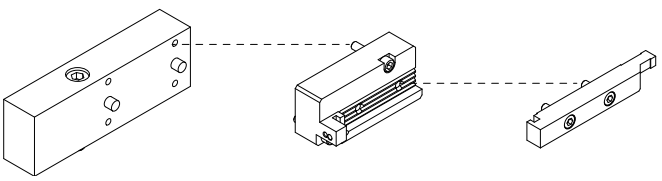
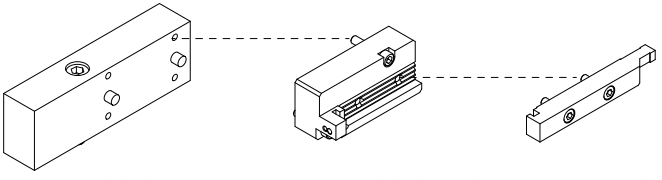
ML-PRESET-2

Banc de préréglage

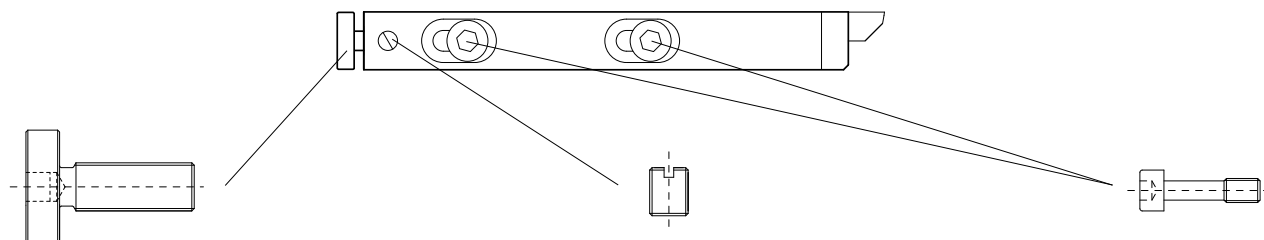
Voreinstellgerät

Presetting device

ML12 / ML16

Type Typ Type	Fabricant Hersteller Manufacturer	Machines Maschinen Machines	Adaptateurs et jauges d'étalonnage Adapter und Einstelllehre Adaptators and master gauges	
ML12	CITIZEN	C12/C16		
		L12		
		L12-2M10		
		M16		
		R04		
		R07		
	HANWHA	XD20M		
	METAFIL	D10		
	STAR	SB12RG		
		SR10-J		
		SW12RII		
	TORNOS	DEC07/10 - EvoDEC0 10		
		SWISS-NANO		
		SWISS-NANO 7		
		DT13		
		CT20		
		GT13		
	TSUGAMI	B074		
		B075		
		PO34		
ML16	CITIZEN	K16		
		L20		
		L20E		
	HANWHA	SL12/16		
	MANUHRIN	KMX 426/526/626		
		SA-12/SA16/SA16R		
	STAR	SB16		
		SB16/20RG		
		SB20C/E		
		SR20J		
		SR-16R/SR-20R/SR-20RII		
		SR20RIII		
		SR20RIV		
		SR32J		
		SV12/20		
		SW20R		
	TORNOS	DEC020/26 - EvoDEC020/32		
		SIGMA20/32		
		DT26		
		GT26		
GT32				
ML16		TORNOS	DEC013- EvoDEC016	
		ST26		

ML12



Vis de réglage
Einstellungsschraube
Setting screw

Art. N°

ML12A-M5X0.5

Vis de blocage
Blockierschraube
Locking screw

Art. N°

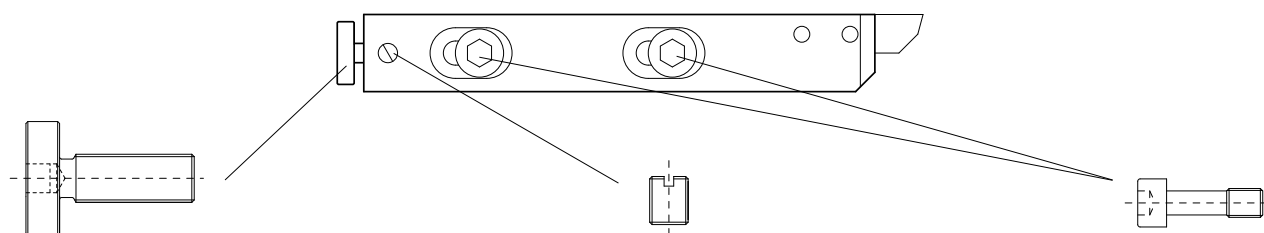
ML-M4X4-T

Vis de fixation
Befestigungsschraube
Fixing screw

Art. N°

ML12-M5XL20

ML16



Vis de réglage
Einstellungsschraube
Setting screw

Art. N°

ML16A-M5X0.5

Vis de blocage
Blockierschraube
Locking screw

Art. N°

ML-M4X4-T

Vis de fixation
Befestigungsschraube
Fixing screw

Art. N°

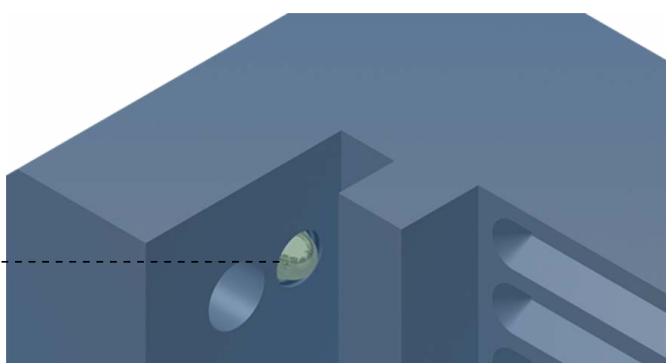
ML16/20-M6XL20

Art. N°

ML-205004



Butée à ressort
Federnde Schraube
Spring bumper



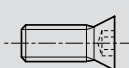
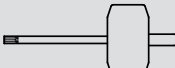
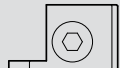
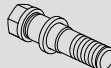
Pièces de rechange

Ersatzteile

Spare parts

ML12 / ML16

Vis et clés pour le serrage des plaquettes
Schrauben und Schlüssel für WSP-Befestigung
Screws and keys for insert clamping

Porte-outils Halter Holders					
ML...250	V-M4X9-T15	C-T15	-	-	-
ML...260					
ML...330	V-M2.5X7.8-T8	C-T8	-	-	-
ML...340					
ML...630					
ML...640	V-M4X9-T15	C-T15	-	-	-
ML...650					
ML...650RC	V-M4X6.5-T15				
ML...660	V-M4X9-T15				
ML...730	V-M3X7-T8	C-T8			
ML...730RC	V-M3X5.5-T8				
ML...730RC-R04	V-M3X4.5-T8		-	-	-
	V-M3X7-T8				
ML...730RC-SWISS-NANO	V-M3X4.5-T8				
	V-M3X7-T8				
ML...740	V-M3X7-T8				
ML...750	V-M4X9-T15				
ML...750RC	V-M4X7.3-T15				
ML...750RC-R04	V-M4X5.6-T15				
	V-M4X7.3-T15				
	V-M4X5.6-T15	C-T15	-	-	-
ML...750RC-SWISS-NANO	V-M4X7.3-T15				
ML...760	V-M4X9-T15				
ML...770RC-SWISS-NANO	V-M4X7.3-T15				
ML...780	V-M4X9-T15				
ML...SC...06	V-M2.5X5.8-T8	C-T8	-	-	-
ML...SC...09	V-M4X7-T15-ISO	C-T15	-	-	-
ML...-SD...07	V-M2.5X7.8-T8	C-T8	-	-	-
ML...-SD...07-D	V-M2.5X5.8-T8				
ML12...-SDJ...11	V-M4X7-T15-ISO	C-T15	-	-	-
ML12...-SDN...11	V-M4X9-T15-ISO				
ML16...-SD...11					
ML...-SV...11	V-M2.5X7.8-T8	C-T8	-	-	-
ML...-SV...13	V-M3X7.3-T8-ISO				
ML...-CUT16	-	-	CUT16RS-SET	-	-
ML...-CUT16-V	-	-	CUT16LS-SET	-	-
ML...-CUT22	-	-	CUT22RS-SET	-	-
ML...-CUT16-V	-	-	CUT22LS-SET	-	-
ML16...-ET... JET32	-	-	-	V-M5X21-6P7-J	C-6PEX-7.0
ML16...-ET... V-JET32	-	-	-		



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**APPLITEC MOUTIER SA
2740 MOUTIER**

**+41 (0)32 494 60 20
INFO@APPLITEC-TOOLS.COM**

WWW.APPLITEC-TOOLS.COM