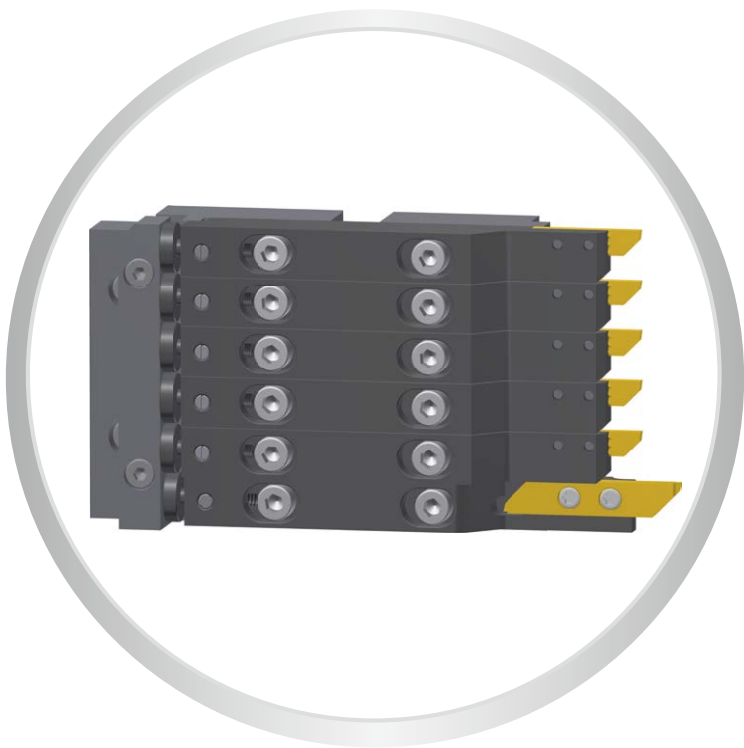


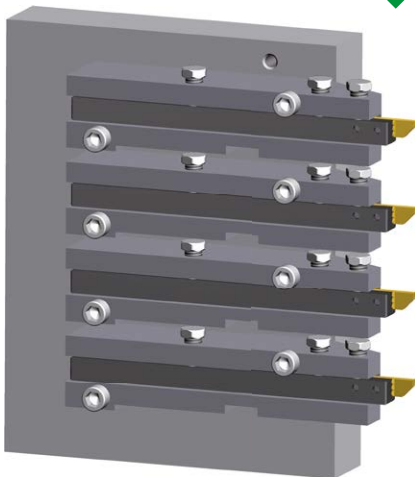
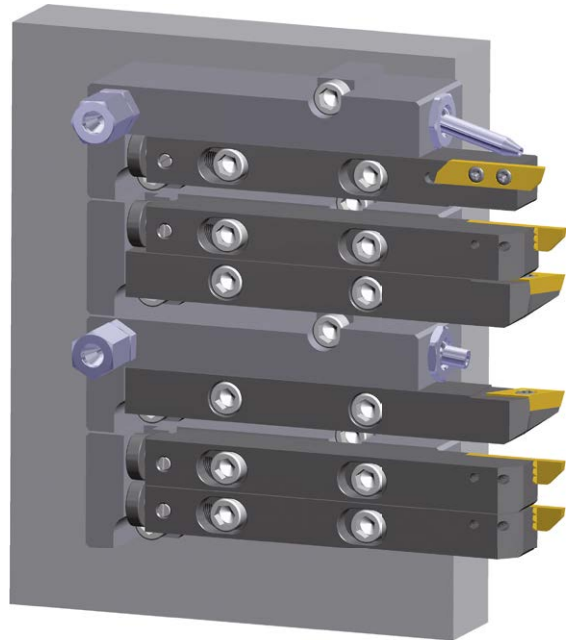


Système d'outils modulaires
Modulares Werkzeugsystem
Modular tooling system

Système d'outils modulaires
pour tours automatiques

Modulares Werkzeugsystem
für Langdrehautomaten

Modular tooling system for
sliding automatic lathes



avec MODU-Line
mit MODU-Line
with MODU-Line

sans MODU-Line
ohne MODU-Line
without MODU-Line

Les avantages

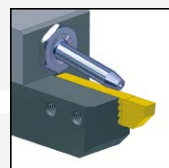
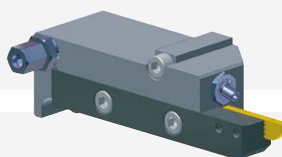
Die Vorteile

The advantages

Plus d'outils disponibles
Höhere Werkzeuganzahl
More tools available



Système d'arrosage efficace
Effizientes Kühlmittelzufuhrsystem
Efficient coolant supply system

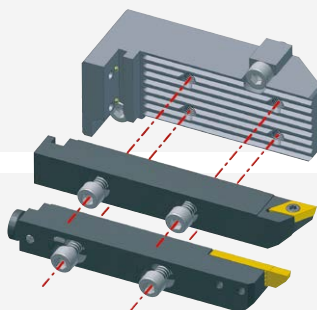


Système compatible avec d'autres fabricants
Werkzeugsystem kompatibel mit anderen Lieferanten
Standard system compatible with other suppliers

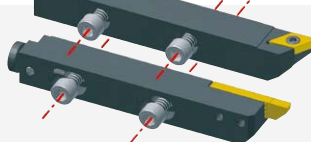
Possibilité de préréglage et de réglage de la longueur des outils
Voreinstellbar auf feste oder einstellbare Länge
Presetting on fixed adjustable length



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



Adaptations disponibles pour les machines suivantes:
Verfügbare Anpassungen für folgende Maschinen:
Adapters available for the following machines:

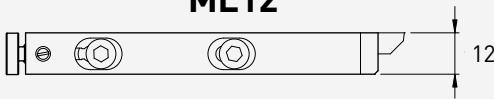
**Citizen - Hanwha -
Manurhin - Star -
Tornos - Tsugami**

> **6.04**

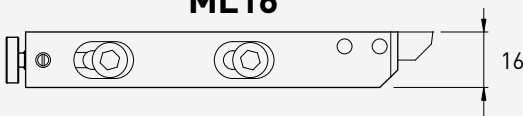
Porte-outils
Halter
Holders

INFO > 6.27

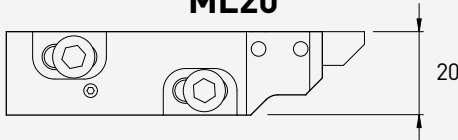
ML12



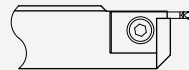
ML16



ML20



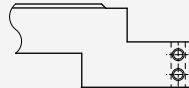
> **6.28**



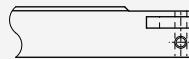
> **6.29**



> **6.30**



> **6.36**



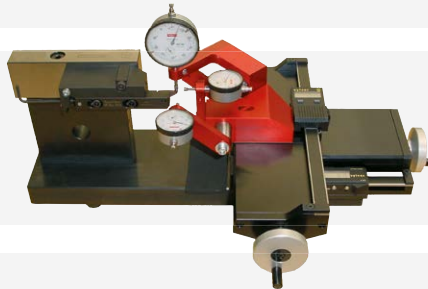
> **6.37**

Modules d'arrosage et de serrage
Kühlmitteldüse und Zufuhrelemente
Coolant and clamping supply unit



> **6.38**

Banc de pré réglage
Voreinstellgerät
Presetting device



> **6.40**

Pièces de rechange
Ersatzteile
Spare parts



> **6.42**

Adaptations disponibles pour les machines suivantes

Verfügbare Anpassungen für folgende Maschinen

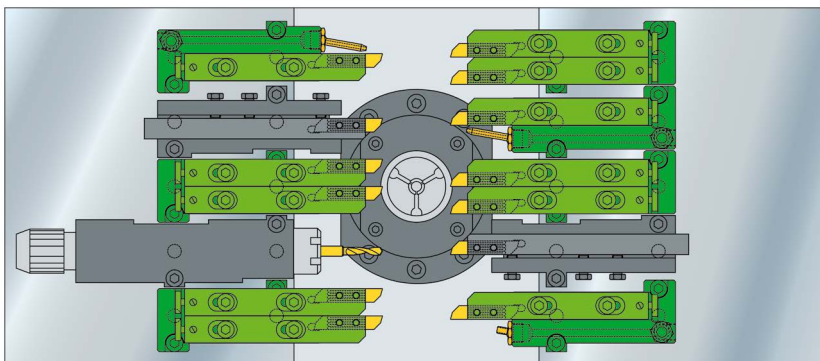
Adapters available for the following machines

Fabricant Hersteller Manufacturer	Machine Maschine Machine	Type Typ Type	Page Seite Page
Citizen	C12 / C16	ML12	6.05
	K12 / K16 type VII	ML16	6.06
	L16 / L20 type VII / VIII	ML16	6.07
Hanwha	SL 12/16	ML16	6.08
	XD 20M	ML12	6.09 NEW
Manurhin	KMX 426 / 526 / 626	ML16	6.10
	Swing 20-26	ML16	6.10
Star	SR-10J	ML12	6.11
	SA-12 / SA-16 / SA-16R	ML16	6.12
	SB-16	ML16	6.13
	SB-20C (E)	ML16	6.14
	SR 16 / SR-20R / SR-20RII	ML16	6.15
	SR-20-RIII	ML16	6.16
	SV 12/20	ML16	6.17
Tornos	Deco 7/10	ML12	6.18
	Deco 13	ML16	6.19
	Deco 20/26	ML16	6.20
	Sigma 20/32	ML16	6.21
	SwissNano	ML20	6.22 NEW
	Delta 12/20	ML12	6.25
	Swiss ST26	ML16	6.26 NEW
Tsugami	B012	ML20	6.25
	B020	ML20	6.25

Exemple d'implantation sur Tornos DECO 10

Einstellungsbeispiel auf Tornos DECO 10

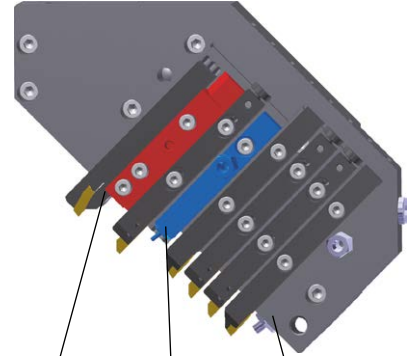
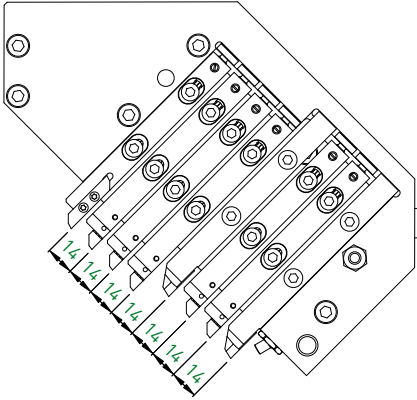
Setting-up example on Tornos DECO 10



Citizen C12 / C16

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

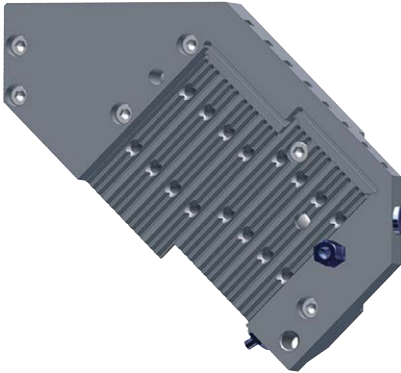
ML12



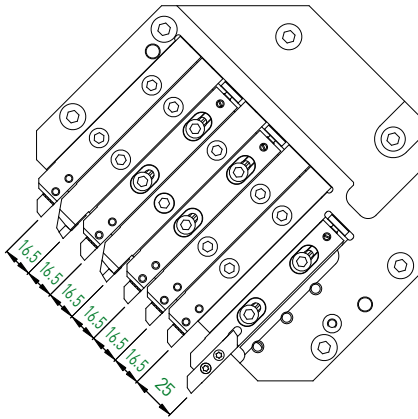
Outil ∇ 12 mm possible avec module de serrage
Werkzeug ∇ 12 mm mit Spannelement möglich
Tool ∇ 12mm possible with clamping unit

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

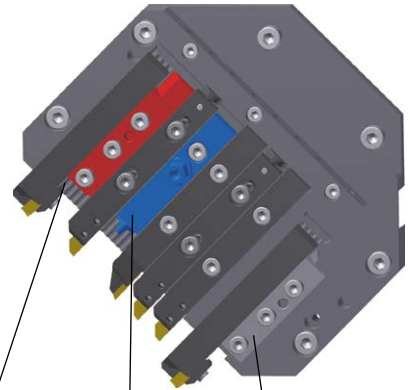


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-CITIZEN-C16	ML12	> 6.27	ML12-FIX-12/14	ML12-JET-5/16	6.38

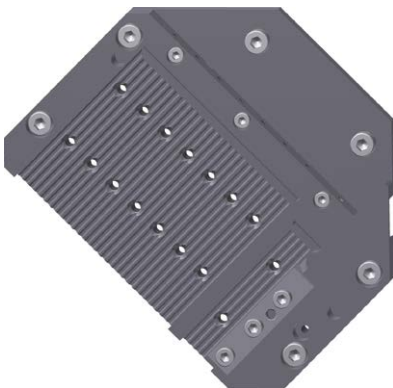


Outil $\varnothing$ 16 mm possible avec module de serrage
Werkzeug $\varnothing$ 16 mm mit Spannelement möglich
Tool $\varnothing$ 16 mm possible with clamping unit

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

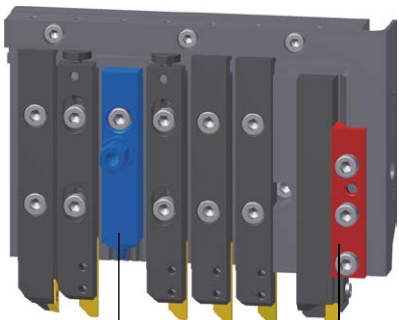
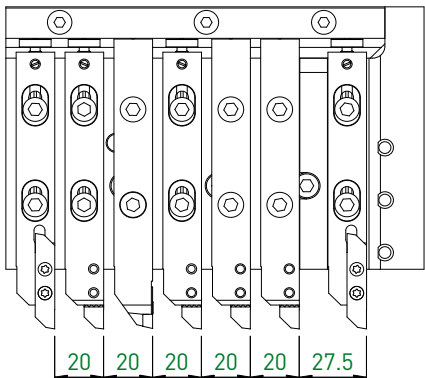


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-CITIZEN-K16	ML16	> 6.27	ML16-FIX-16/16.5	ML16-JET-7/16	6.38

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

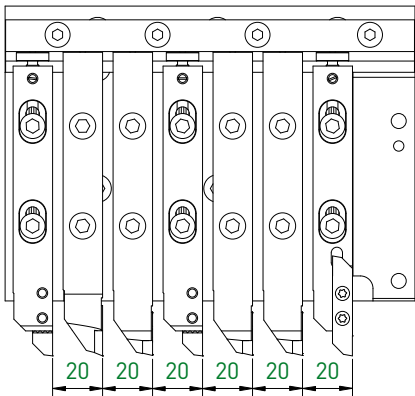


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-CITIZEN-L20	ML16	> 6.27	Inclus/inbegriffen/ included	ML16-JET-7/16	6.38

Hanwha SL12 / 16

- + 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)

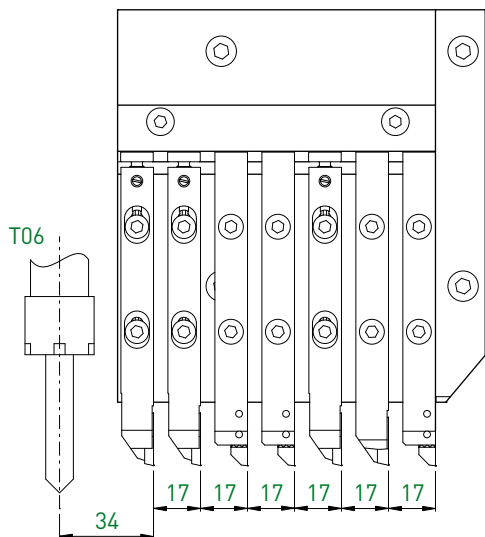


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Hanwha SL12 / 16					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-HANWHA-SL12/16	ML16	> 6.27	-	ML16-JET-7/16	6.38

Hanwha XD20M

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

ML12

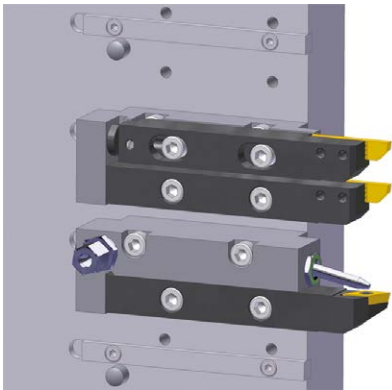


Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)

NEW



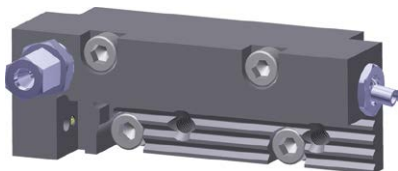
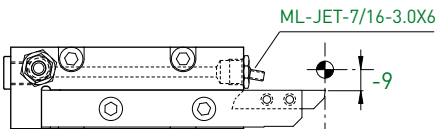
Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Hanwha XD20M					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML12-HANWHA-XD20M	ML12	> 6.27	-	ML12-JET-5/16	6.38



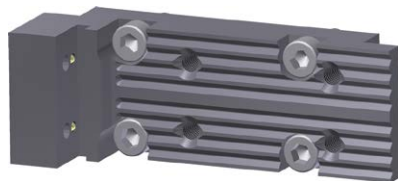
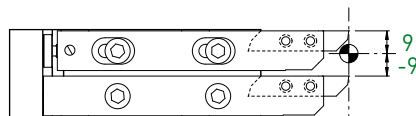
Jet



Duo



Jet



Duo

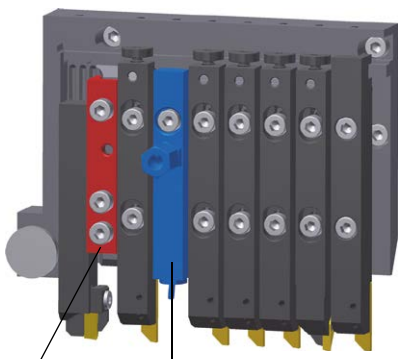
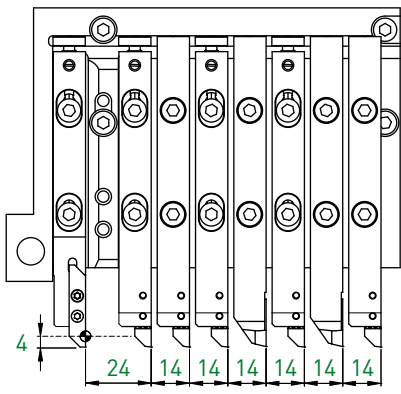
Support de base Grundhalter Base holder			
Manurhin KMX 426/526/626 / Swing 20-26 mm			
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages
Jet	ML16-KMX26-JET	ML16	> 6.27
Duo	ML16-KMX26-DUO	ML16	> 6.27

Accessoires Zubehöre Accessories	
Buses d'arrosage Kühlmitteldüse Coolant nozzles	Page Seite Page
ML-JET-7/16...	6.39

Star SR-10J

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

ML12



- 1 serrage pour outil 12 mm inclus
- 1 Spannung für Werkzeug 12 mm inbegriffen
- 1 clamping for tool 12 mm included

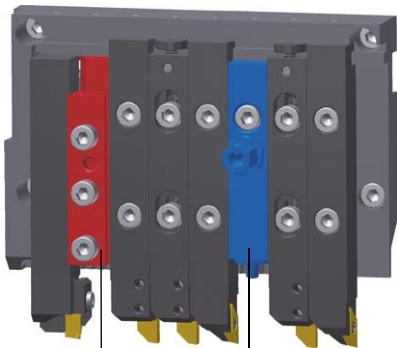
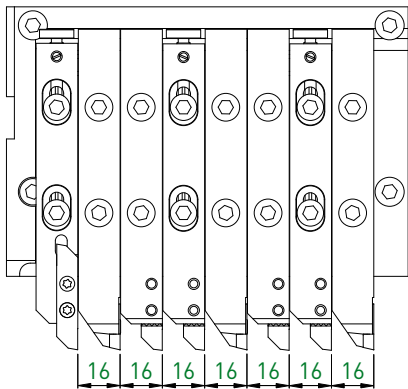
Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)



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-SR10J	ML12	> 6.27	Inclus/inbegriffen/ included	ML12-JET-5/16	6.38

MODU-Line

SA-12	+ 2 outils (max 8)	ML16
Star SA-16	+ 2 Werkzeuge (max 8)	
SA-16R	+ 2 tools (max 8)	



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)

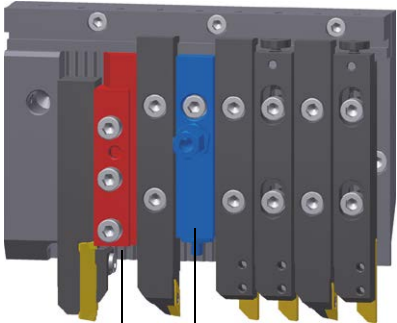
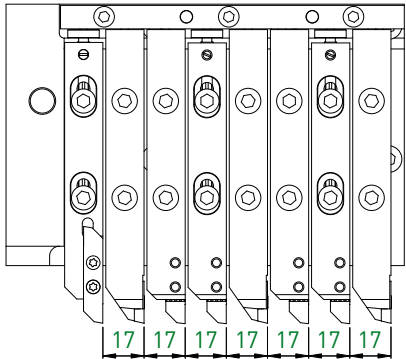


Support de base Grundhalter Base holder		Star SA-12/SA-16/SA-16R	Accessoires Zubehöre Accessories		
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SA16	ML16	> 6.27	ML16-FIX-16/16	ML16-JET-7/16	6.38

Star SB-16

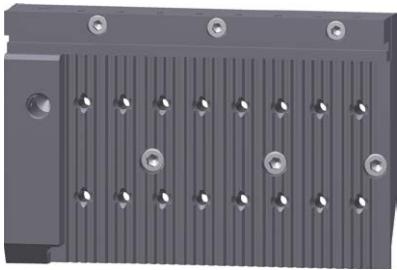
- + 3 outils (max 8)
- + 3 Werkzeuge (max 8)
- + 3 tools (max 8)

ML16



Outil 17 mm possible avec module de serrage
Werkzeug 17 mm mit Spannelement möglich
Tool 17 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)

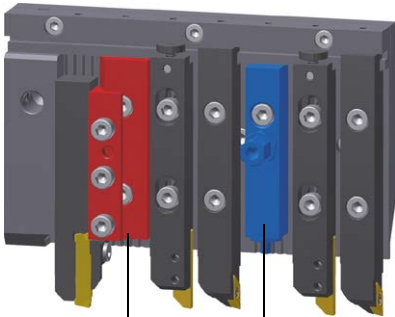
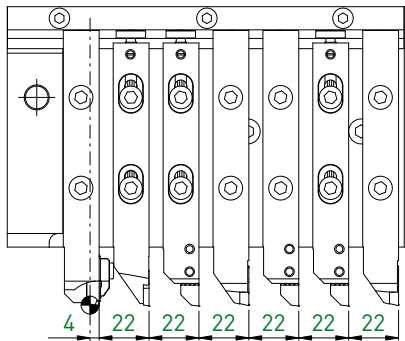


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Star SB-16					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SB16	ML16	> 6.27	ML16-FIX-16/17	ML16-JET-7/16	6.38

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

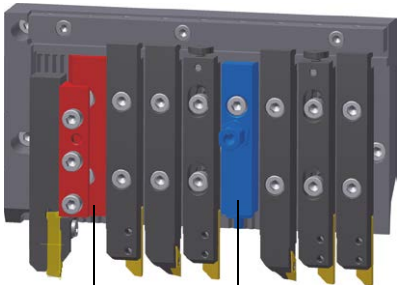
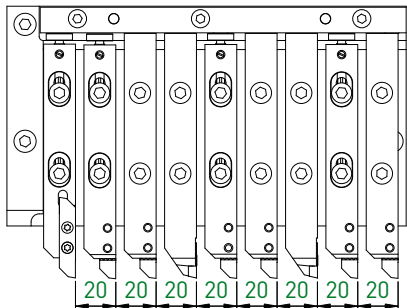
Module d'arrosage (prend la place d'un outil)
Kühlmittelzufuhrelement (nimmt den Platz eines Werkzeuges)
Coolant supply unit (takes the place of one tool)



Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Star SB-20C / E					
Art. N°	Porte-outils Holder Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SB20	ML16	> 6.27	ML16-FIX-16/22	ML16-JET-7/16	6.38

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

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)



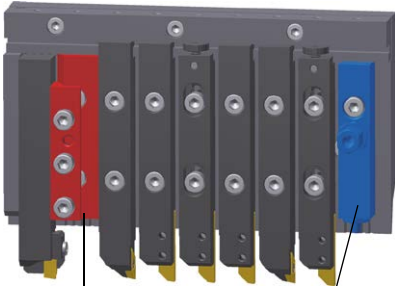
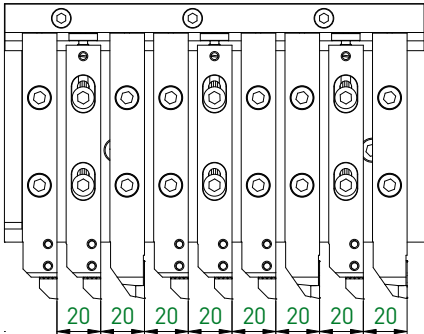
Support de base Grundhalter Base holder		Star SR-16R/SR-20R/SR-20RII		Accessoires Zubehöre Accessories	
Art. N°	Porte-outils Holder Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SR20R	ML16	> 6.27	ML16-FIX-16/20	ML16-JET-7/16	6.38

+ 3 outils (max 9)

+ 3 Werkzeuge (max 9)

+ 3 tools (max 9)

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)

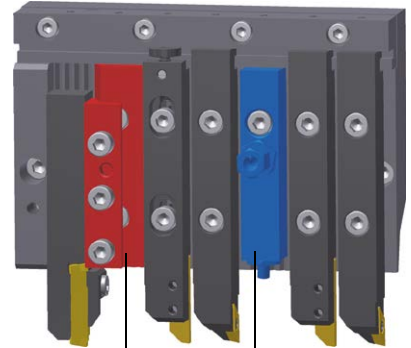
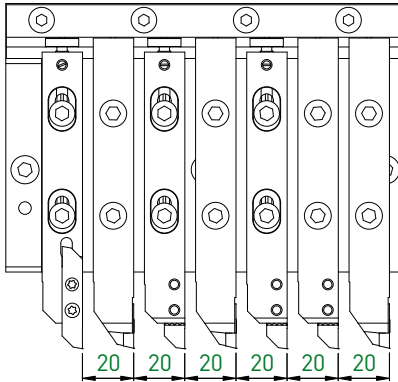


Support de base Grundhalter Base holder			Accessoires Zubehöre Accessories		
Star SR-20RIII					
Art. N°	Porte-outils Halter Holders	Pages Seiten Pages	Module de serrage Spannelement Clamping unit	Module d'arrosage Kühlmittelzufuhrelement Coolant supply unit	Page Seite Page
ML16-STAR-SR20RIII	ML16	> 6.27	ML16-FIX-16/20	ML16-JET-7/16	6.38

Star SV12 / 20

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

ML16



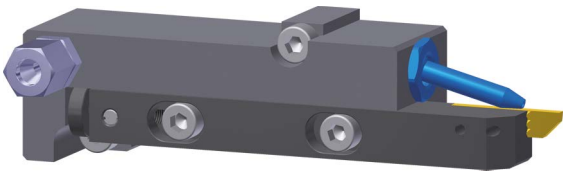
Outil 16 mm possible avec module de serrage
Werkzeug 16 mm mit Spannelement möglich
Tool 16 mm possible with clamping unit

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		
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-SV12/20	ML16	> 6.27	ML16-FIX-16/20	ML16-JET-7/16	6.38

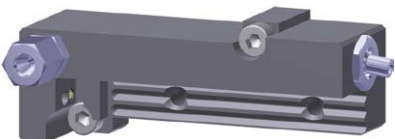
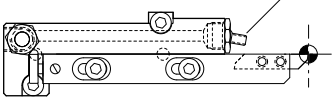
Jet



Duo

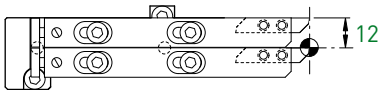


ML-JET-7/16-3.0x6



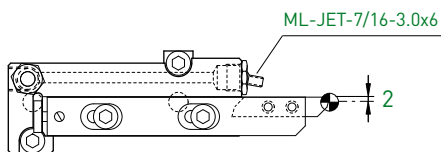
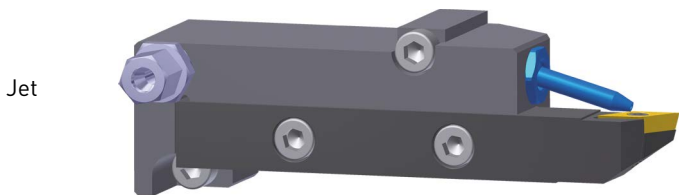
Jet

Support de base Grundhalter Base holder			
Tornos DECO 7 / 10			
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages
Jet	ML12-DEC010-JET	ML12	> 6.27
Duo	ML12-DEC010-DUO	ML12	> 6.27

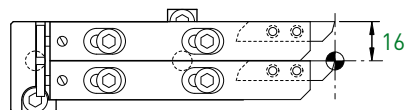


Duo

Accessoires Zubehöre Accessories	
Buses d'arrosage Kühlmitteldüse Coolant nozzles	Page Seite Page
ML-JET-7/16...	6.39



Jet



Duo

Support de base
Grundhalter
Base holder

Tornos DECO 13 / EvoDECO 16

Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages
Jet	ML16-DEC013-JET	ML16	> 6.27
Duo	ML16-DEC013-DUO	ML16	> 6.27

Accessoires
Zubehöre
Accessories

Buses d'arrosage
Kühlmitteldüse
Coolant nozzles

Page
Seite
Page

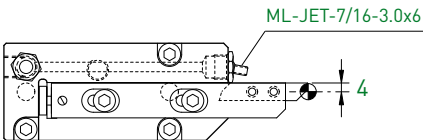
ML-JET-7/16...

6.39

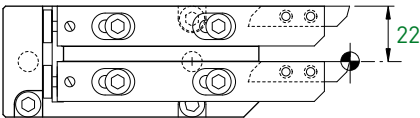
Jet



Duo



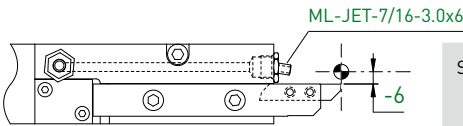
Jet



Duo

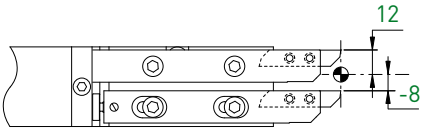
Support de base Grundhalter Base holder			
Tornos DECO 20 / 26			
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages
Jet	ML16-DEC020-JET	ML16	> 6.27
Duo	ML16-DEC020-DUO	ML16	> 6.27

Accessoires Zubehöre Accessories	
Buses d'arrosage Kühlmitteldüse Coolant nozzles	Page Seite Page
ML-JET-7/16...	6.39



Jet

Support de base Grundhalter Base holder			
Tornos SIGMA 20 / 32			
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages
Jet	ML16-S20-JET	ML16	> 6.27
Duo	ML16-S20-DUO	ML16	> 6.27



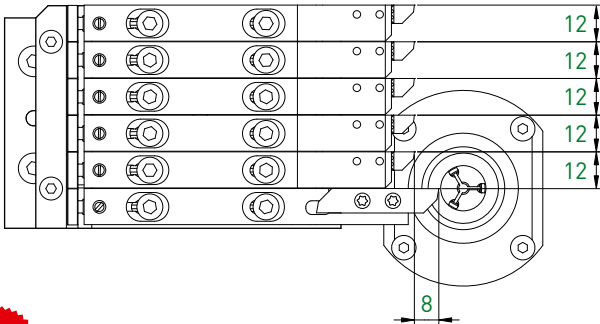
Duo

Accessoires Zubehöre Accessories	
Buses d'arrosage Kühlmitteldüse Coolant nozzles	Page Seite Page
ML-JET-7/16...	6.39

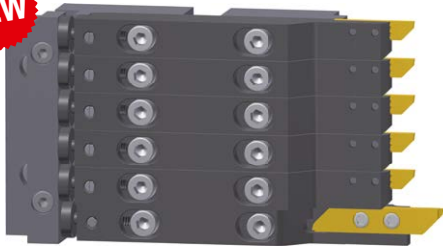
Tornos SwissNano

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

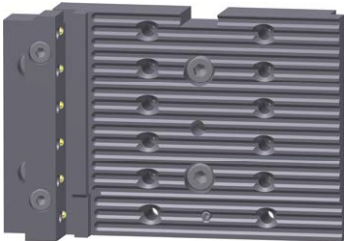
ML12



NEW



6T



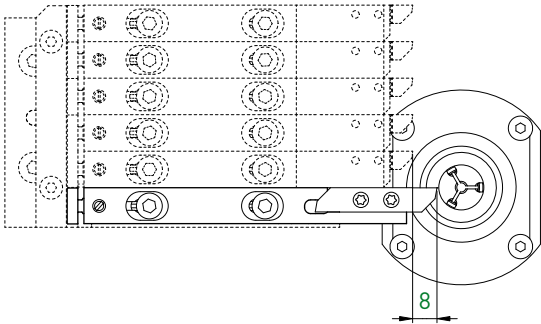
6T

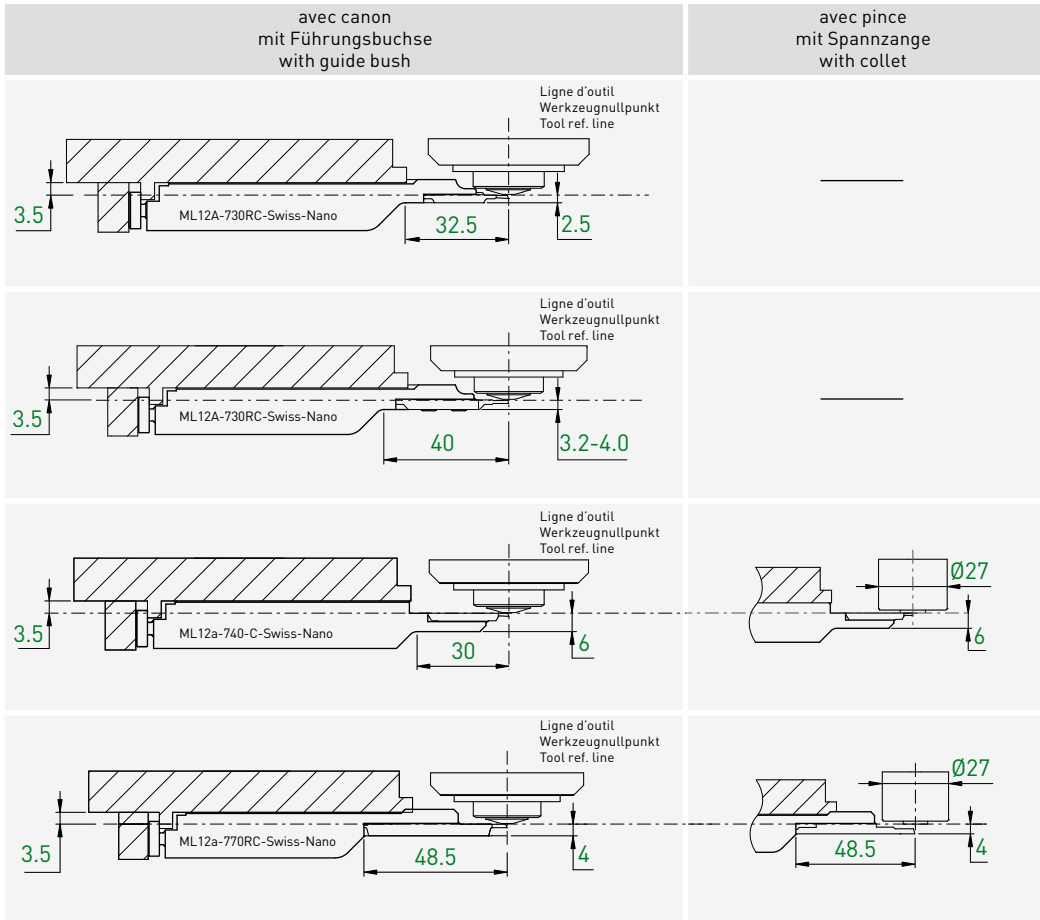
Support de base Grundhalter Base holder			
Tornos SwissNano			
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages
6T	ML12-SWISS-NANO-6T	ML12	> 6.27

Tornos SwissNano

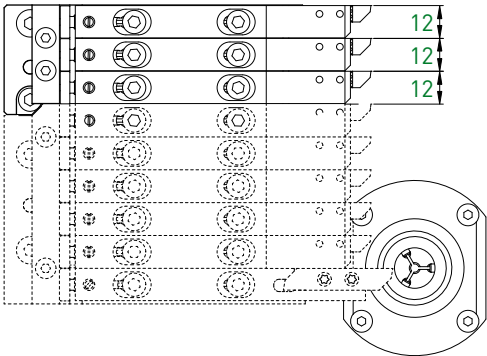
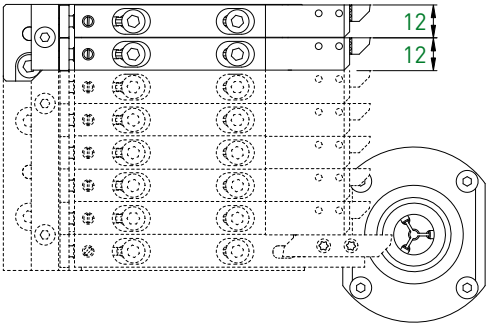
- Porte-outils spéciaux de tronçonnage
- Spezial Abstechwerkzeughalter
- Special parting off tool holders

ML12





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	1.47-1.53 / 1.171
SwissNano	ML12	ML12A-750RC-SWISS-NANO	751R...	1.93-1.103
SwissNano	ML12	ML12A-740-C-SWISS-NANO	741... / 741SF	1.40-1.46 / 1.168
SwissNano	ML12	ML12A-770RC-SWISS-NANO	771R...	1.134-1.137



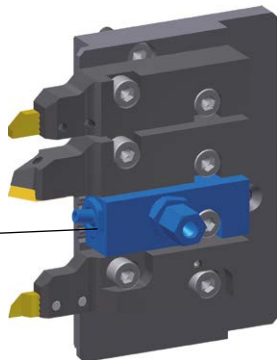
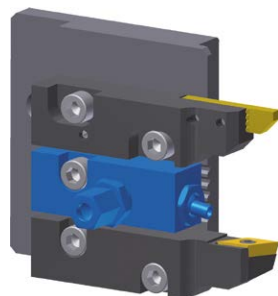
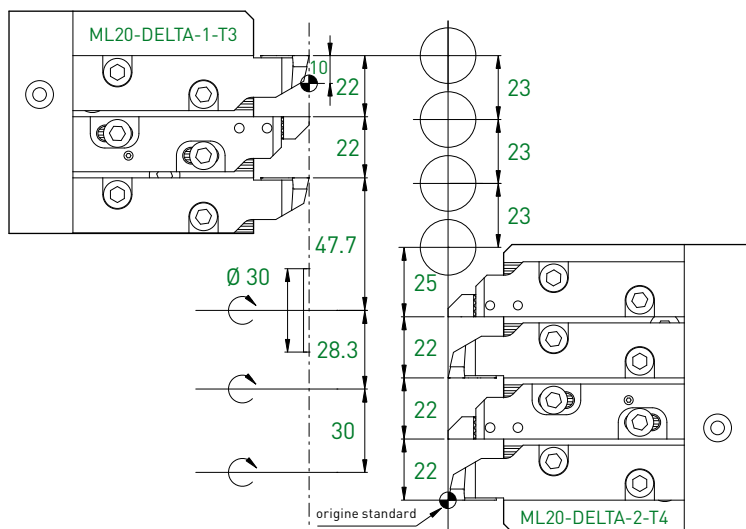
Support de base Grundhalter Base holder			
Tornos SwissNano			
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages
2T	ML12-SWISS-NANO-2T	ML12	> 6.27
3T	ML12-SWISS-NANO-3T	ML12	> 6.27

Outils recommandés pour l'horlogerie Empfohlene Werkzeuge für Uhrenindustrie Recommended tools for watch industry		
Porte-outils Halter Holders	Plaquettes type... WSP-Typ... Inserts type...	Pages Seiten Pages
ML12A - 740C ML12F - 740C	742SF-749SF	1.168-1.170

Tornos DELTA 12 / 20
Tsugami B012 / B020

+ 2 x 1 outil
+ 2 x 1 Werkzeug
+ 2 x 1 tool

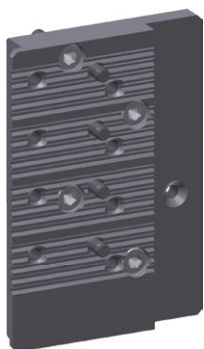
ML20



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



T3



T4

Support de base
Grundhalter
Base holder

Tornos DELTA 12 / 20
Tsugami B012 / B020

Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages
T3	ML20-DELTA-1-T3	ML20	> 6.27
T4	ML20-DELTA-2-T4	ML20	> 6.27

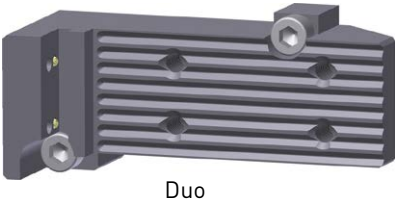
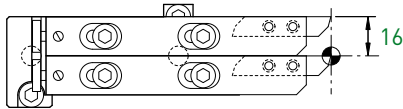
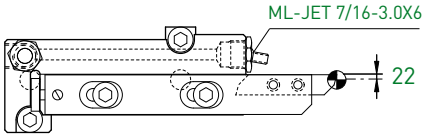
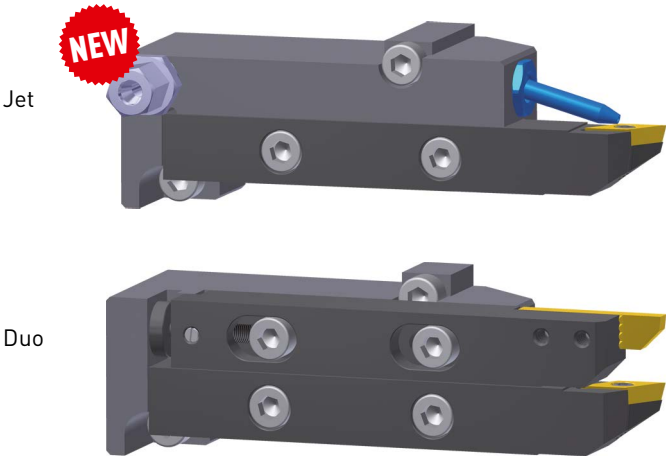
Accessoires
Zubehöre
Accessories

Buses d'arrosage
Kühlmitteldüse
Coolant nozzles

ML20-JET-7/16

Page
Seite
Page

6.39



Support de base Grundhalter Base holder			
Tornos Swiss ST26			
Type Typ Type	Art. N°	Porte-outils Halter Holders	Pages Seiten Pages
Jet	ML16-SWISS-ST26-JET	ML16	> 6.27
Duo	ML16-SWISS-ST26-DUO	ML16	> 6.27

Accessoires Zubehöre Accessories	
Buses d'arrosage Kühlmitteldüse Coolant nozzles	Page Seite Page
ML-JET-7/16...	6.39

Porte-plaquettes

WSP-Halter

Insert holders

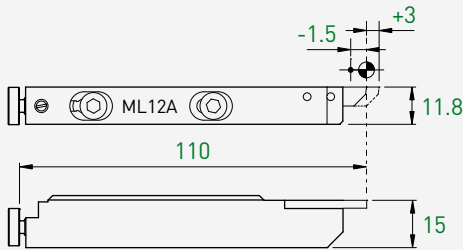
ML12 / ML16 / ML20

Système de fixation
Befestigungssystem
Clamping system

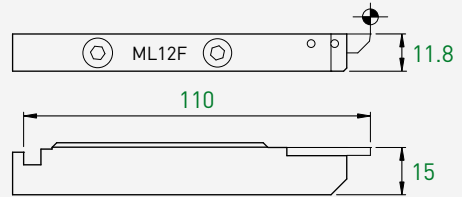
A = réglable
einstellbar
adjustable

F = longueur fixe
fixlänge
fixed length

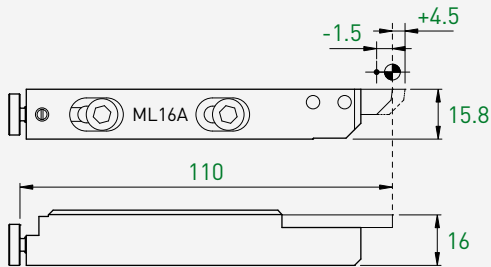
ML12A



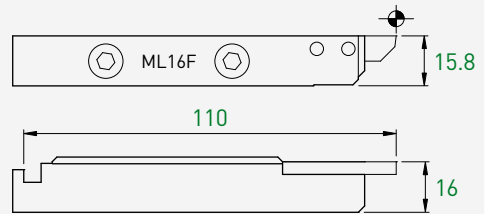
ML12F



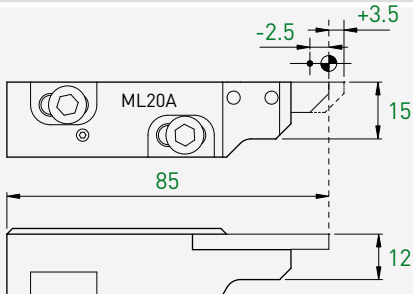
ML16A



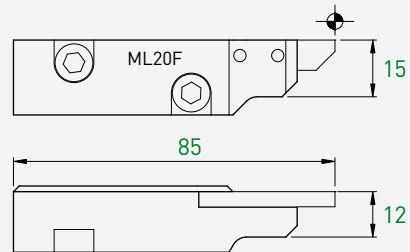
ML16F

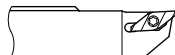


ML20A



ML20F

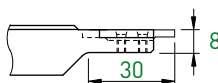




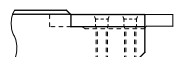
ML12	ML16	ML20	Plaquettes type... WSP-Typ... Inserts type...	Pages Seiten Pages
Art. N°	Art. N°	Art. N°		
ML12A-340	ML16A-340	ML20A-340	TOP-Line 347-349	1.18-1.19
ML12F-340	ML16F-340	ML20F-340		



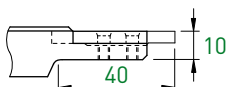
ML12	ML16	ML20	TOP-Line 741-747	> 1.33
ML12A-740	ML16A-740	ML20A-740		
ML12F-740	ML16F-740	ML20F-740		



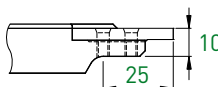
ML12	ML16	ML20	TOP-Line 741-747	> 1.33
ML12A-740-C	-	ML20A-740-C		
ML12F-740-C	-	-		



ML12	ML16	ML20	TOP-Line 761-767	> 1.77
ML12A-760	ML16A-760	ML20A-760		
ML12F-760	ML16F-760	ML20F-760		



ML12	ML16	ML20	TOP-Line 761-767	> 1.77
-	ML16A-760-C	-		
-	ML16F-760-C	-		



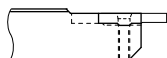
ML12	ML16	ML20	TOP-Line 761-767	> 1.77
-	-	ML20A-760-C		
-	-	ML20F-760-C		

Porte-plaquette

WSP-Halter

Insert holder

ECO



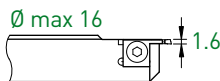
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Art. N°	Art. N°	Art. N°		
ML12A-260	ML16A-260	-	ECO-Line 261-266	> 3.01
ML12F-260	ML16F-260	-		

Porte-plaquettes

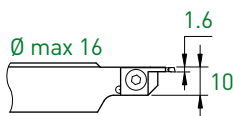
WSP-Halter

Insert holders

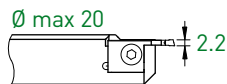
CUT



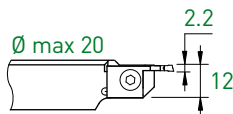
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ML12F-CUT16	ML16F-CUT16	-		



ML12	ML16	ML20		
-	-	ML20A-CUT16	CUT-Line CUT16	5.14-5.17
-	-	-		



ML12	ML16	ML20		
ML12A-CUT22	ML16A-CUT22	-	CUT-Line CUT22	5.14-5.19
ML12F-CUT22	ML16F-CUT22	-		



ML12	ML16	ML20		
-	-	ML20A-CUT22	CUT-Line CUT22	5.14-5.19
-	-	-		



ML12	ML16	ML20	Plaquettes type... WSP-Typ... Inserts type...	Pages Seiten Pages
Art. N°	Art. N°	Art. N°		
ML12A-SCLCR06	ML16A-SCLCR06	-	ISO-Line CC..-0602..	4.14-4.17
ML12F-SCLCR06	ML16F-SCLCR06	-		



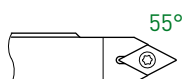
ML12	ML16	ML20	ISO-Line CC..-09T3..	4.17-4.17
ML12A-SCLCR09	ML16A-SCLCR09	ML20A-SCLCR09		
ML12F-SCLCR09	ML16F-SCLCR09	ML20F-SCLCR09		



ML12	ML16	ML20	ISO-Line DC..-0702..	4.22-4.25
ML12A-SDJCR07	ML16A-SDJCR07	-		
ML12F-SDJCR07	ML16F-SDJCR07	-		



ML12	ML16	ML20	ISO-Line DC..-11T3..	4.22-4.25
ML12A-SDJCR11	ML16A-SDJCR11	ML20A-SDJCR11		
ML12F-SDJCR11	ML16F-SDJCR11	ML20F-SDJCR11		



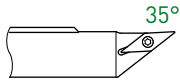
ML12	ML16	ML20	ISO-Line DC..-11T3..	4.22-4.25
ML12A-SDNCN11	ML16A-SDNCN11	-		
ML12F-SDNCN11	ML16F-SDNCN11	-		

Porte-plaquettes

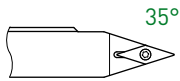
WSP-Halter

Insert holders

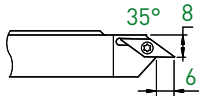
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ML12	ML16	ML20	Plaquettes type... WSP-Typ... Inserts type...	Pages Seiten Pages
Art. N°	Art. N°	Art. N°		
ML12A-SVJCR11	ML16A-SVJCR11	ML20A-SVJCR11	ISO-Line VC...-1103..	4.30-4.35
ML12F-SVJCR11	ML16F-SVJCR11	ML20F-SVJCR11		



ML12	ML16	ML20	ISO-Line VC...-1103..	4.31-4.35
ML12A-SVVCN11	ML16A-SVVCN11	-		
ML12F-SVVCN11	ML16F-SVVCN11	-		



ML12	ML16	ML20	ISO-Line VC...-1103..	4.30-4.35
ML12A-SV-CR11	ML16A-SV-CR11	-		
-	-	-		

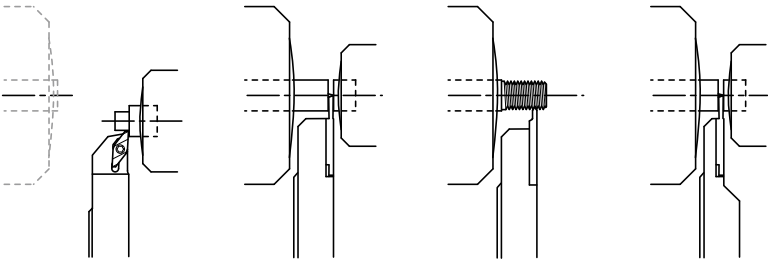
Porte-plaquettes
WSP-Halter
Insert holders

TOP

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
cutt on subspindle



330-V

730-V
750-V

730-V
750-V

730-RC
750-RC

Porte-plaquettes
WSP-Halter
Insert holders

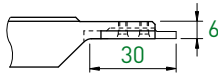
TOP



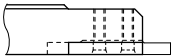
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Art. N°	Art. N°	Art. N°		
ML12A-330-V	ML16A-330-V	-	TOP-Line 337-339	1.18-1.19



ML12	ML16	ML20	Plaquettes type... WSP-Typ... Inserts type...	Pages Seiten Pages
Art. N°	Art. N°	Art. N°		
ML12A-730-V	ML16A-730-V	-	731R 731-737	1.47-1.53 > 1.33



ML12	ML16	ML20	Plaquettes type... WSP-Typ... Inserts type...	Pages Seiten Pages
Art. N°	Art. N°	Art. N°		
ML12A-730RC	ML16A-730RC	-	TOP-Line 731R	1.47-1.53



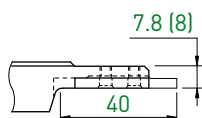
ML12	ML16	ML20	Plaquettes type... WSP-Typ... Inserts type...	Pages Seiten Pages
Art. N°	Art. N°	Art. N°		
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Porte-plaquettes

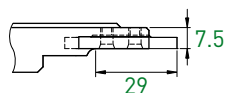
WSP-Halter

Insert holders

TOP



ML12	ML16	ML20	Plaquettes type... WSP-Typ... Inserts type...	Pages Seiten Pages
Art. N°	Art. N°	Art. N°		
ML12A-750RC	ML16A-750RC	-	TOP-Line 751R	1.93-1.103



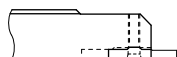
ML12	ML16	ML20	Plaquettes type... WSP-Typ... Inserts type...	Pages Seiten Pages
Art. N°	Art. N°	Art. N°		
-	-	ML20A-750RC	TOP-Line 751R	1.93-1.103

Porte-plaquettes

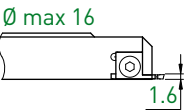
WSP-Halter

Insert holders

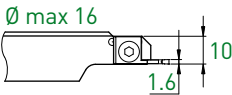
ECO



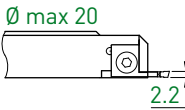
ML12	ML16	ML20	Plaquettes type... WSP-Typ... Inserts type...	Pages Seiten Pages
Art. N°	Art. N°	Art. N°		
ML12A-250-V	ML16A-250-V	-	ECO-Line type 251R 251-256	3.08-3.09 > 3.01
-	-	-		



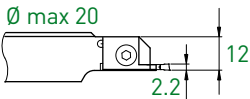
ML12	ML16	ML20	Plaquettes type... WSP-Typ... Inserts type...	Pages Seiten Pages
Art. N°	Art. N°	Art. N°		
ML12A-CUT16-V	ML16A-CUT16-V	-	CUT-Line CUT16	5.14-5.17
ML12F-CUT16-V	ML16F-CUT16-V	-		



ML12	ML16	ML20	CUT-Line CUT16	5.14-5.17
-	-	ML20A-CUT16RC		
-	-	-		



ML12	ML16	ML20	CUT-Line CUT22	5.14-5.19
ML12A-CUT22-V	ML16A-CUT22-V	-		
ML12F-CUT22-V	ML16F-CUT22-V	-		



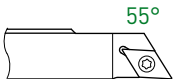
ML12	ML16	ML20	CUT-Line CUT22	5.14-5.19
-	-	ML20A-CUT22RC		
-	-	-		

Porte-plaquettes

WSP-Halter

Insert holders

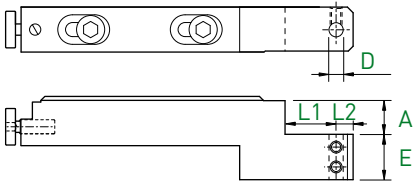
ISO



ML12	ML16	ML20	Plaquettes type... WSP-Typ... Inserts type...	Pages Seiten Pages
Art. N°	Art. N°	Art. N°		
ML12A-SDJCL11-V	ML16A-SDJCL11-V	-	ISO-Line DC..-11T3..	4.22-4.25
-	-	-		

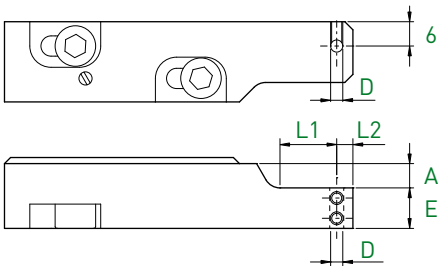


ML12	ML16	ML20	Plaquettes type... WSP-Typ... Inserts type...	Pages Seiten Pages
Art. N°	Art. N°	Art. N°		
ML12A-SVJCL11-V	ML16A-SVJCL11-V	-	ISO-Line VC..-1103..	4.30-4.35
-	-	-		



A	D	E	L1	L2	ML12
					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

A	D	E	L1	L2	ML16
					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



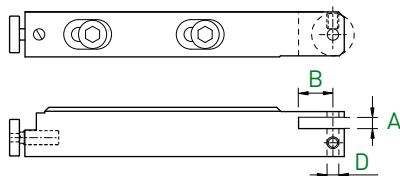
A	D	E	L1	L2	ML20
					Art. N°
6	3	10	14	4	ML20A-2440-6-3
8	4	8	14	4	ML20A-2440-8-4

Porte-molettes

Rändelhalter

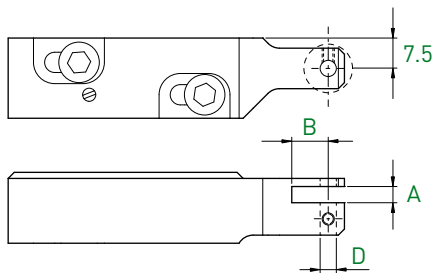
Knurl holders

ML12 / ML16 / ML20



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

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



A	D	B	ML20
			Art. N°
4	4	9	ML20A-2402-44

MODU-Line

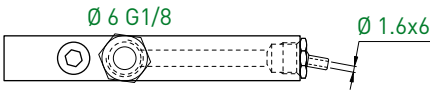
Modules d'arrosage

Kühlmittelzufuhrelemente

Coolant supply units

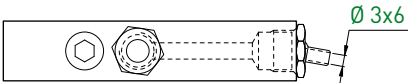
ML12 / ML16 / ML20

ML12



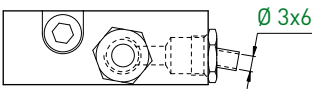
Raccord Anschluss Connection	Buses d'arrosage Kühlmitteldüse Coolant nozzles	ML12 Art. N°
Ø 6 G 1/8	5/16"	ML12-JET-5/16

ML16



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

ML20



Raccord Anschluss Connection	Buses d'arrosage Kühlmitteldüse Coolant nozzles	ML20 Art. N°
Ø 6 G 1/8	7/16"	ML20-JET-7/16

buses optionnelles voir page 6.39
zusätzliche Düsen siehe Seite 6.39
optional nozzles see page 6.39

Modules de serrage

Spannelemente

Clamping units

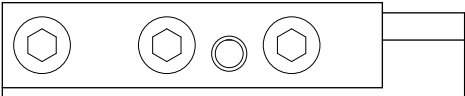
ML12 / ML16

ML12



ML12 Art. N°
ML12-FIX-12/14

ML16



ML16 Art. N°
ML16-FIX-16/16
ML16-FIX-16/16.5
ML16-FIX-16/17
ML16-FIX-16/20
ML16-FIX-16/22

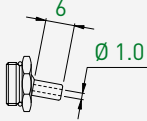
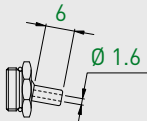
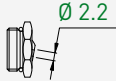
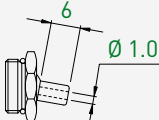
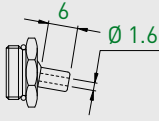
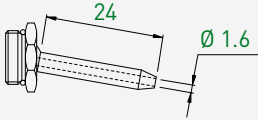
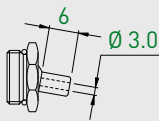
Buses d'arrosage

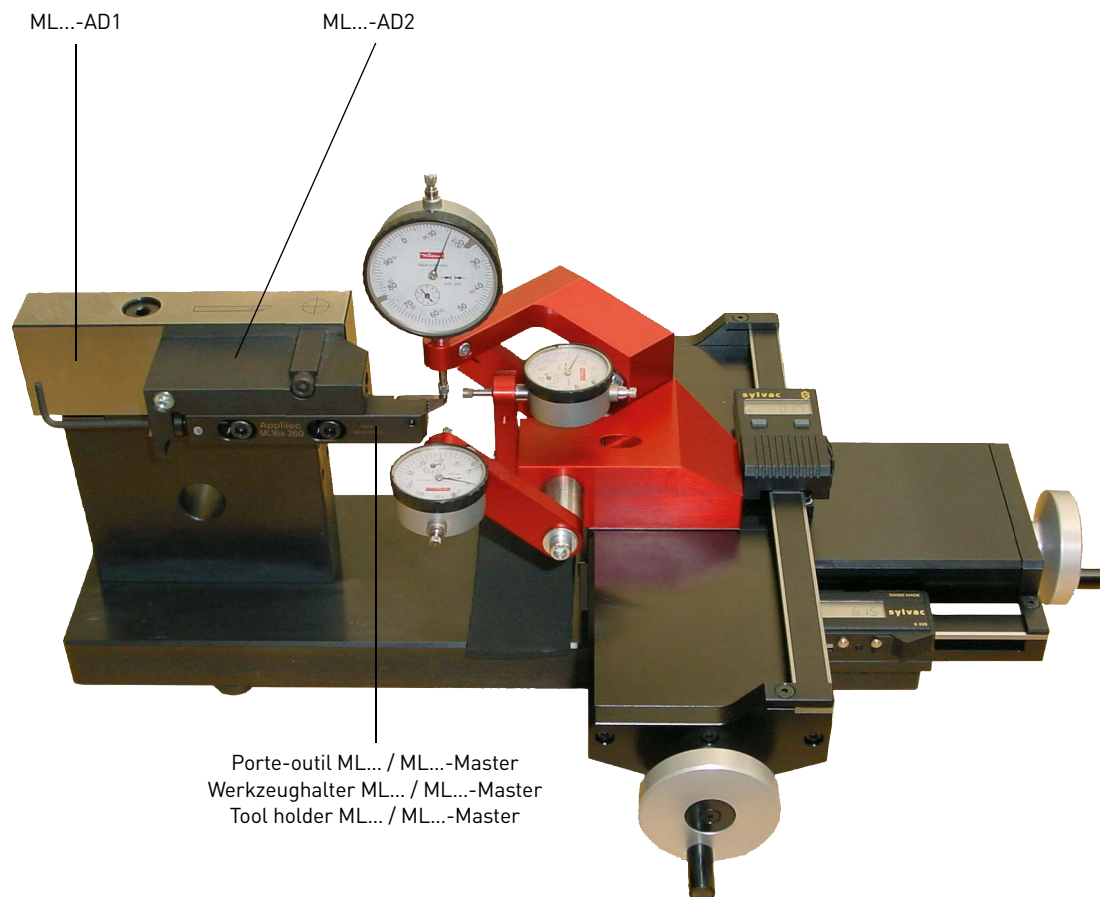
Kühlmitteldüsen

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
	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 1.6 x6 is included
	ML-JET 5/16-2.2x0	
7/16"	Art. N°	Références compatibles Kompatible Artikeln Compatible items
	ML-JET 7/16-1.0x6	ML12-SWISS-NANO-6T ML16-SWISS-NANO-JET ML16-KMX26-JET ML16-JET-7/16 ML20-JET-7/16
	ML-JET 7/16-1.6x6	ML12-CITIZEN-C16 ML12-DEC010-JET ML16-DEC013-JET ML16-DEC020-JET ML16-S20-JET
	ML-JET-7/16-1.6x24	une buse ML-JET/7/16 3.0x6 est comprise avec chaque article ci-dessus
	ML-JET-7/16-3.0x6	eine Düse ML-JET 7/16 3.0x6 ist mit jedem vorstehenden Artikel inbegriffen a nozzle ML-JET 7/16 3.0x6 is included with each above item



Art. N°

ML-PRESET-1

Banc de pré réglage

Voreinstellgerät

Presetting device

ML12 / ML16 / ML20

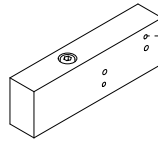
Type
Typ
Type

Machines
Maschinen
Machines

Adaptateurs et jauges d'étalonnage
Adapter und Einstelllehre
Adaptors and master gauges

ML12

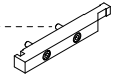
CITIZEN C12 / C16
HANWHA XD20M
STAR SR-10J
TORNOS DECO 7/10
TORNOS SWISSNANO



ML12-AD1



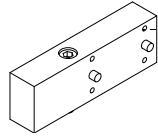
ML12-AD2



ML12-MASTER

ML16

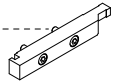
CITIZEN K12 / K16 type VII
CITIZEN L16 / L20 type VII / VIII
HANWHA SL12 / 16
MANURHIN KMX 426 / 526 / 626
MANURHIN SWING 20 - 26 mm
STAR SA-12 / SA-16 / SA-16R
STAR SB-16
STAR SB-20C (E)
STAR SR-16R
STAR SR-20R / SR-20RII / SR-20-RIII
STAR SV12 / 20
TORNOS DECO 20 / 26
TORNOS DECO SIGMA 20



ML16/20-AD1



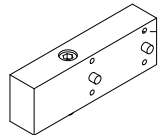
ML16-AD2



ML16-MASTER

ML16

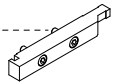
TORNOS DECO 13
TORNOS ST 26



ML16-DECO13-AD1



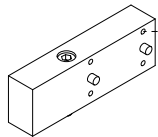
ML16-DECO13-AD2



ML16-MASTER

ML20

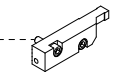
TORNOS DELTA 12 / 20
TSUGAMI B012 / B020



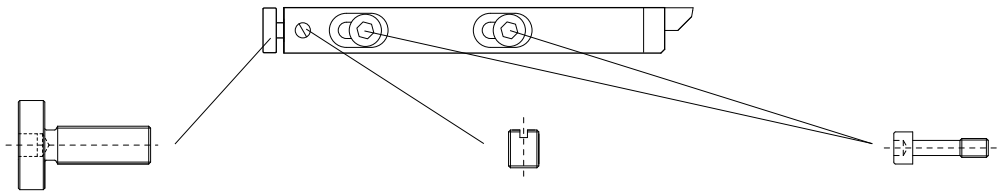
ML16/20-AD1



ML20-AD2



ML20-MASTER



Vis de réglage
Einstellungsschraube
Setting screw

Art. N°

ML12A-M5X0.5

Vis de blocage
Blockierschraube
Locking screw

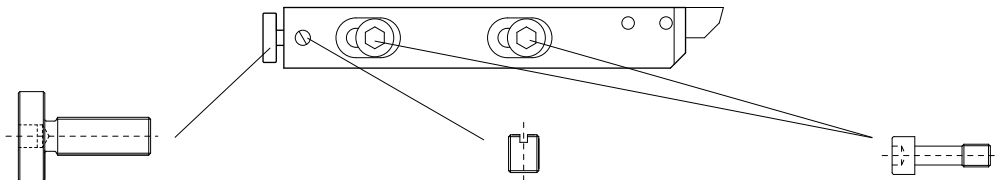
Art. N°

ML-M4X4-T

Vis de fixation
Befestigungsschraube
Fixing screw

Art. N°

ML12-M5XL20



Vis de réglage
Einstellungsschraube
Setting screw

Art. N°

ML16A-M5X0.5

Vis de blocage
Blockierschraube
Locking screw

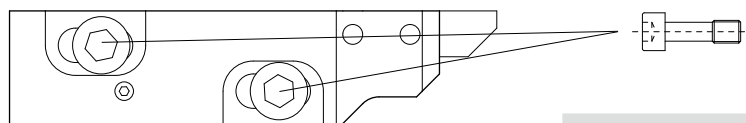
Art. N°

ML-M4X4-T

Vis de fixation
Befestigungsschraube
Fixing screw

Art. N°

ML16/20-M6XL20



Vis de fixation
Befestigungsschraube
Fixing screw

Art. N°

ML16/20-M6-XL20

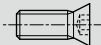
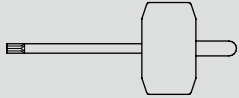
Pièces de rechange

Ersatzteile

Spare parts

ML12 / ML16 / ML20

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	V-M4x9-T15	C-T15	-
ML...-330	V-M2.5x7.8-T8	C-T8	-
ML...-340	V-M2.5x7.8-T8	C-T8	-
ML...-730	V-M3x7-T8	C-T8	-
ML...-730RC	V-M3x5.5-T8	C-T8	-
ML...-740	V-M3x7-T8	C-T8	-
ML...-750	V-M4x9-T15	C-T15	-
ML...-750RC	V-M4x7.3-T15	C-T15	-
ML...-760	V-M4x9-T15	C-T15	-
ML...-SC...06	V-M2.5x7.8-T8	C-T8	-
ML...SC...09	V-M4x9-T15-ISO	C-T15	-
ML...-SD...07	V-M2.5x7.8-T8	C-T8	-
ML...-SD...11	V-M4x9-T15-ISO	C-T15	-
ML...-SV...11	V-M2.5x7.8-T8	C-T8	-
ML12 / ML16...- CUT16	-	-	CUT16 RS-SET
ML20...CUT16	-	-	CUT16 R-SET
ML20...CUT16-RC	-	-	CUT16 L-SET
ML12 / ML16...-CUT16-V	-	-	CUT16 LS-SET
ML12 / ML16...-CUT22	-	-	CUT22 RS-SET
ML20...-CUT22	-	-	CUT22 R-SET
ML20...-CUT22-RC	-	-	CUT22 L-SET
ML12 / ML16...-CUT22-V	-	-	CUT22 LS-SET



Art. N°

ML-205004

