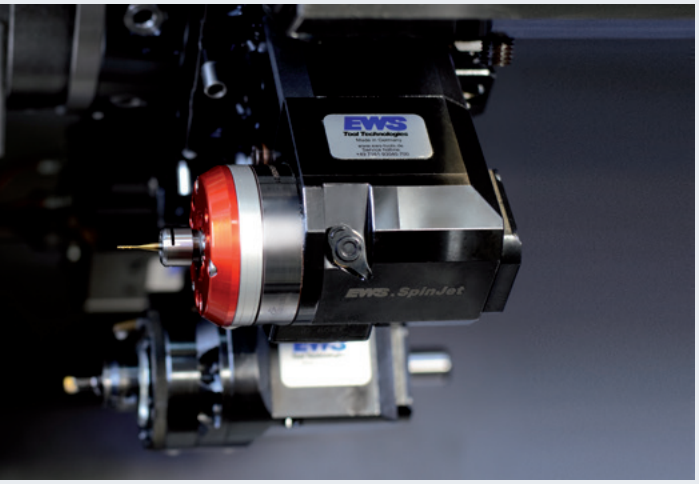
Precision meets Motion

EWS .SpinJet

Driven by Coolant

Scannen und online
auf Informationen
zugreifen

EWS Tool Technologies



EWS . SpinJet

Driven by Coolant

Eigenschaften

- durch Kühlmittel angetriebene Schnelllaufspindel

  nutzt die bestehende Kühlmittelzufuhr der Maschinenspindel

- Wireless Echtzeit-Drehzahl-Display

  ermöglicht die permanente Messung und Überwachung während der Bearbeitung auf der Maschine

Features

- Coolant driven spindle

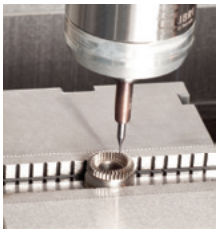
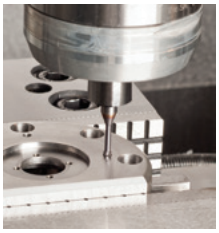
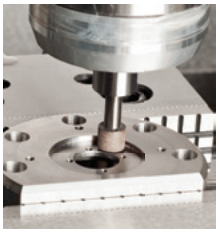
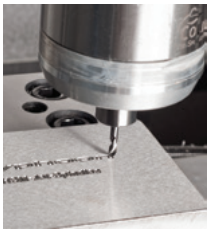
  uses existing machine coolant flow, to rotate the HSM Jet spindle without an additional energy source

- Wireless real time rpm monitoring

  allows to optimize the cutting tool‘s machining conditions according to the actual rotation speed in the workpiece

DRIVEN BY COOLANT

Anwendungen / Applications

Fräsen Milling	Gewindefräsen Thread Milling	Bohren Drilling	Radiales Feinschleifen Grinding	Entgraten Chamfering	Gravieren Engraving
					

HIGHSPEED PRECISION M
UP TO 60,000 RP

HSM-Jet-Spindel-Typ	SJ 20			SJ 30			SJ 40		
Spindeldrehzahl [tausend U/min]** Rotational Spindle speed [krpm]	20*	30*	40*	30*	40*	50*	40*	50*	60*
Kühlmitteldruckbereich [Bar]*** Coolant pressure range [bar]	20	30	40	20	30	40	20	30	40
Empfohlener Kühlmitteldurchflussbereich [l/min] Recommended coolant flow rate range [l/min]	12-18			12-18			12-18		
Fräsen / Milling Empfohlener Werkzeugdurchmesser [mm] Recommended Cutting tool diameter [mm]	2.0-3.5			1.0-2.5			0.3-1.2		
Bohren / Drilling Empfohlener Werkzeugdurchmesser [mm] Recommended Cutting tool diameter [mm]	≤ 2.0			≤ 2.0			≤ 1.2		
Koordinatenschleifen / Grinding Empfohlener Werkzeugdurchmesser [mm] Recommended Cutting tool diameter [mm]	≤ 10.0			≤ 10.0			-		
Gewindefräsen / Thread milling Empfohlener Werkzeugdurchmesser [mm] Recommended Cutting tool diameter [mm]	≤ M5			≤ M5			-		
Anfasen & Gravieren / Chamfering & Engraving Empfohlener Werkzeugdurchmesser [mm] Recommended Cutting tool diameter [mm]	≤ 6 mm Werkzeugschaft tool shank			≤ 6 mm Werkzeugschaft tool shank			≤ 6 mm Werkzeugschaft tool shank		
Empfohlene Schnittgeschwindigkeit [m/min] Recommended cutting speed [m/min]	für Stahl / for steel ≤ 200								
	für Aluminium / for aluminium ≥ 200								

* ungefähre Spindeldrehzahl
** basiert auf einem min. Kühlmitteldruck von 20 Bar und einer min. Durchflussmenge von 12 l/min
*** Empfohlener Kühlmitteldruck 30-40 Bar

* approximately rotational spindle speed
** 20 krpm based on min. coolant pressure 20 bar & min. flow rate 12 l/min
*** recommended coolant pressure 30-40 bar (435-580 psi)

A C H I N I N G
M

YellowLine - SJ20

RedLine - SJ30

BlueLine - SJ40

EWS . SpinJet

Vorteile

- spart bis zu 70% der Bearbeitungszeit (20.000 bis 60.000 1/min)
- Highspeed-Bearbeitung
- weniger Werkzeug- und Maschinenverschleiß

Maschinenvoraussetzung

- Min. 20 Bar Kühlmitteldruck, 12l/min Volumenstrom

Advantages

- save up to 70% of your machining time (20,000 up to 60,000 rpm)
- high speed cutting
- less tool and machine wear

Machine requirements

- Min. 20 bar (290 psi) coolant pressure, 12 l/min flow rate

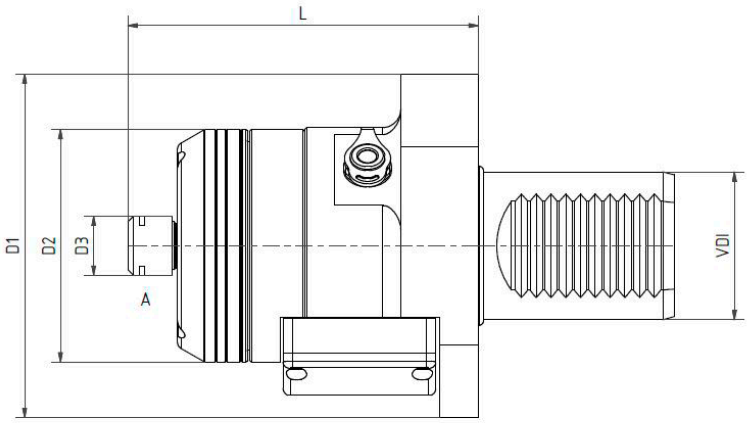
SpinJet Axial VDI
SpinJet axial VDI

Nr. / No.

40...12SJ...

Zubehör / Accessories

Drehzahlanzeige / rpm-display
Nr. SJ Display-



Nr. / No.	VDI-Schaft / VDI-shank	D_1	D_2	D_3	A	L
40.2512SJ20	25	70	63	16	12	100
40.3012SJ20	30	70	63	16	12	100
40.4012SJ20	40	93	64	16	12	95
40.2512SJ30	25	70	63	16	12	100
40.3012SJ30	30	70	63	16	12	100
40.4012SJ30	40	93	64	16	12	95

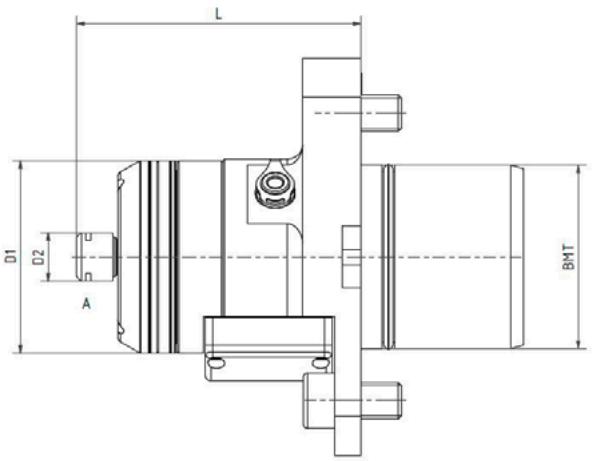
SpinJet Axial BMT
SpinJet axial BMT

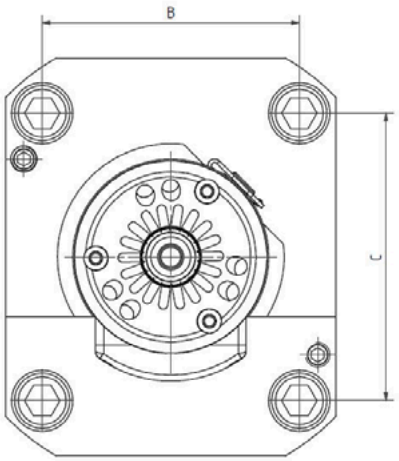
Nr. / No.

40...12...SJ...

Zubehör / Accessories

Drehzahlanzeige / rpm-display
Nr. SJ Display-

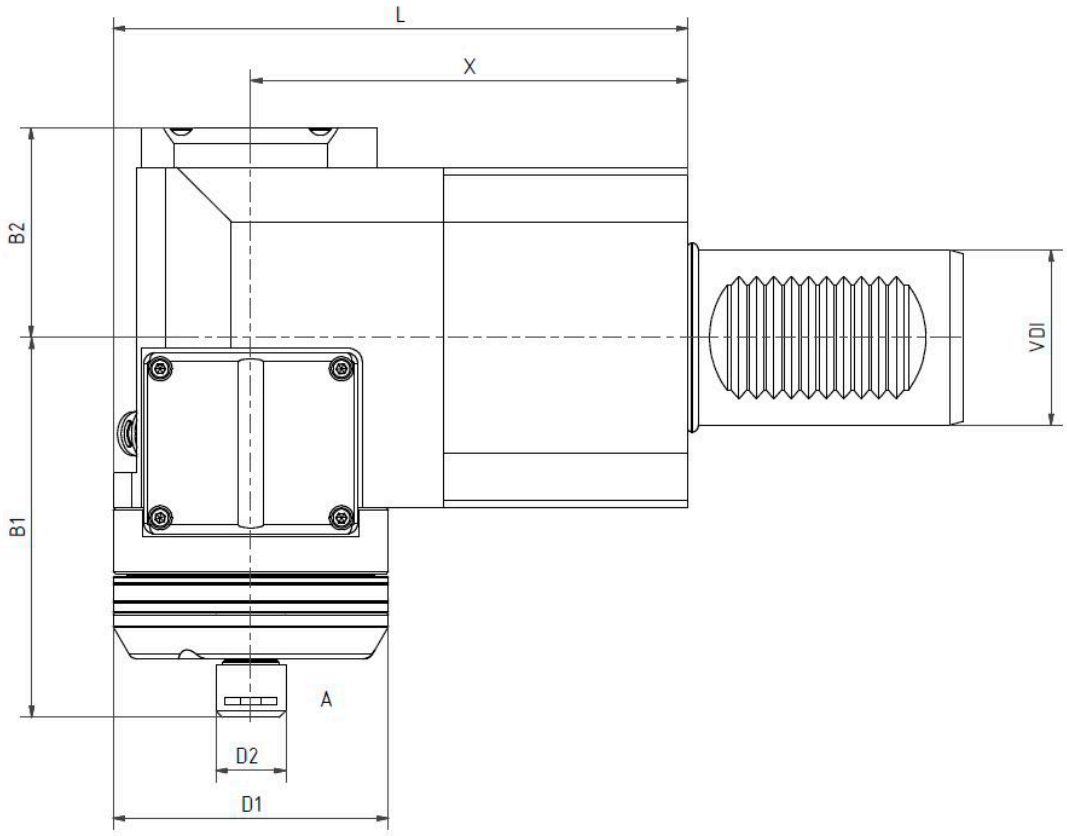


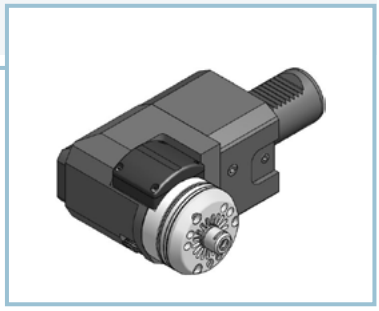


Nr. / No.	BMT-Schaft / BMT-shank	D_1	D_2	A	B	C	L
40.5512TW10SJ20	55	63	16	12	60	50	84,5
40.5512VL2SJ20	55	63	16	12	64	64	96
40.6012NLSJ20	60	63	16	12	84	94	95
40.5512TW10SJ30	55	63	16	12	60	50	84,5
40.5512VL2SJ30	55	63	16	12	64	64	96
40.6012NLSJ30	60	63	16	12	84	94	95

SpinJet Radial VDI

SpinJet radial VDI





Nr. / No.

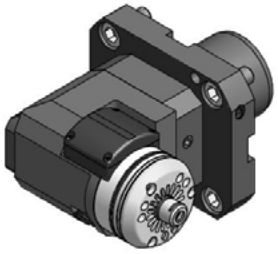
60...12....R...SJ...

Zubehör / Accessories

Drehzahlanzeige / rpm-display
Nr. SJ Display-

Nr. / No.	VDI-Schaft / VDI-shank	D_1	D_2	B_1	B_2	A	X	L
60.2512G200RLVSJ20	25	63	16	87	48	12	65	96,5
60.2512G200RLWSJ20	25	63	16	83	41	12	70	101,5
60.3012LCTXRLSJ20	30	63	16	83	41	12	100	131,5
60.3012TNC65RLSJ20	30	63	16	83	41	12	70	101,5
60.4012CTXRLSJ20	40	63	16	87	48	12	100	131,5
60.50125480RSJ20	50	63	16	87	48	12	70	101,5
60.2512G200RLVSJ30	25	63	16	87	48	12	65	96,5
60.2512G200RLWSJ30	25	63	16	83	41	12	70	101,5
60.3012LCTXRLSJ30	30	63	16	83	41	12	100	131,5
60.3012TNC65RLSJ30	30	63	16	83	41	12	70	101,5
60.4012CTXRLSJ30	40	63	16	87	48	12	100	131,5
60.50125480RSJ30	50	63	16	87	48	12	70	101,5

SpinJet Radial BMT
SpinJet radial BMT

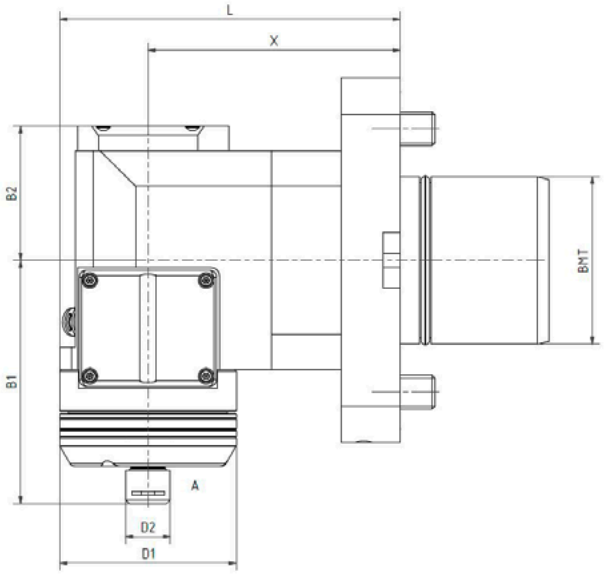


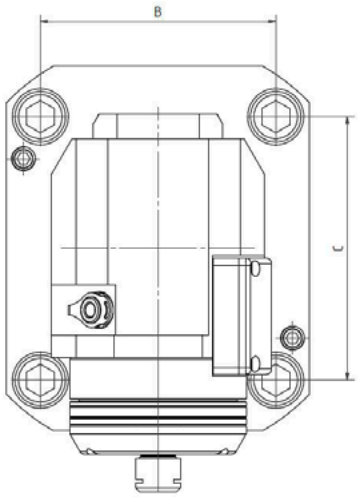
Nr. / No.

60...12...SJ...

Zubehör / Accessories

Drehzahlanzeige / rpm-display
Nr. SJ Display-





Nr. / No.	BMT-Schaft / BMT-shank	D_1	D_2	B_1	B_2	A	B	C	X	L
60.5512TW10SJ20	55	63	16	87	49	12	60	50	70	101,5
60.6012NLSJ20	60	63	16	87	48	12	84	94	90	121,5
60.5512TW10SJ30	55	63	16	87	49	12	60	50	70	101,5
60.6012NLSJ30	60	63	16	87	48	12	84	94	90	121,5

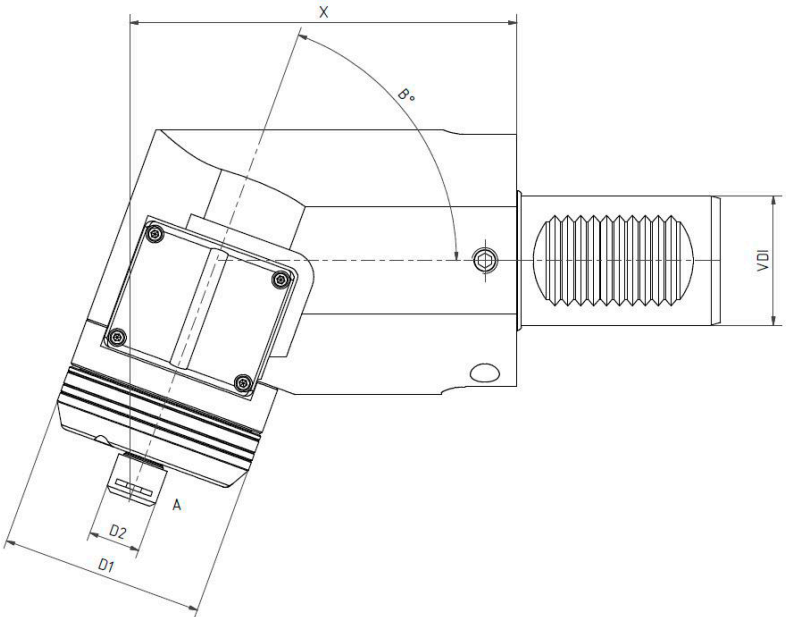
SpinJet Festwinkel VDI
SpinJet fixed angle VDI

Nr. / No.

60.4012CTXRLSJ...TKW70

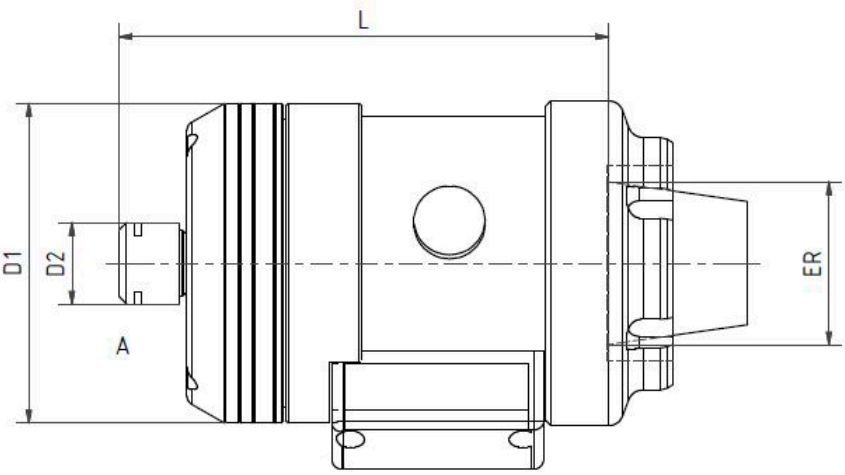
Zubehör / Accessories

Drehzahlanzeige / rpm-display
Nr. SJ Display-



Nr. / No.	VDI-Schaft / VDI-shank	D_1	D_2	B	A	X
60.4012CTXRLSJ20TKW70	40	63	16	70	12	120
60.4012CTXRLSJ30TKW70	40	63	16	70	12	120

SpinJet ER
SpinJet ER



Nr. / No.

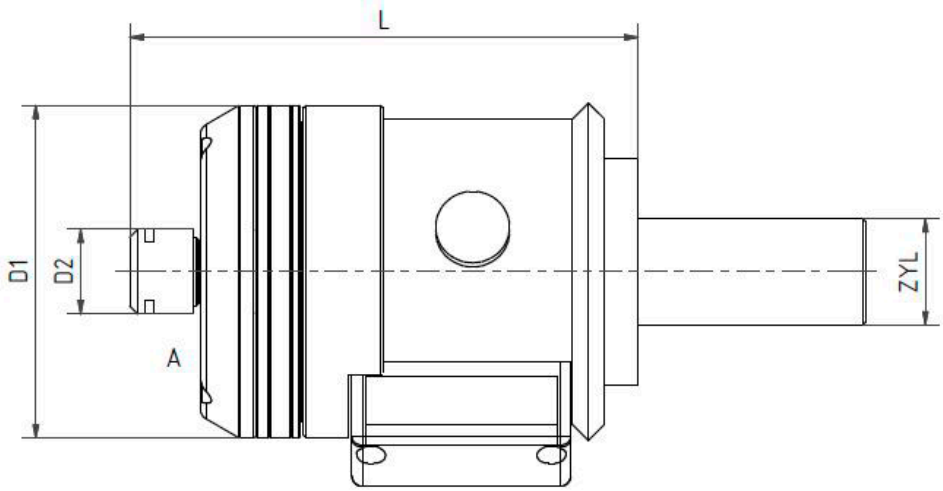
SJ...-ER32-

Zubehör / Accessories

Drehzahlanzeige / rpm-display
Nr. SJ Display-

Nr. / No.	ER-Schaft / ER-shank	D_1	D_2	A	L
SJ20-ER32-	32	63	16	12	97
SJ30-ER32-	32	63	16	12	97
SJ40-ER32-	32	63	16	12	97

SpinJet ZYL
SpinJet ZYL



Nr. / No.

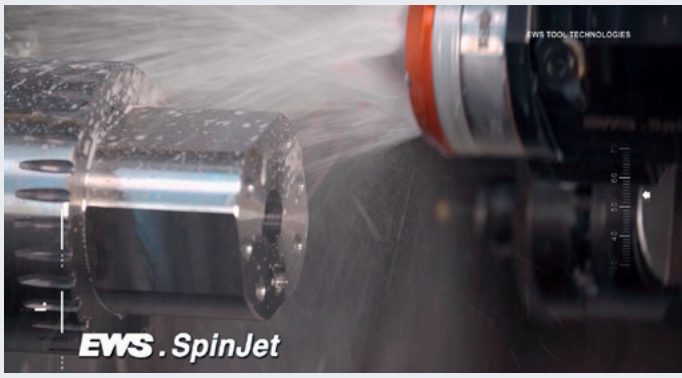
SJ...-ZYL20-

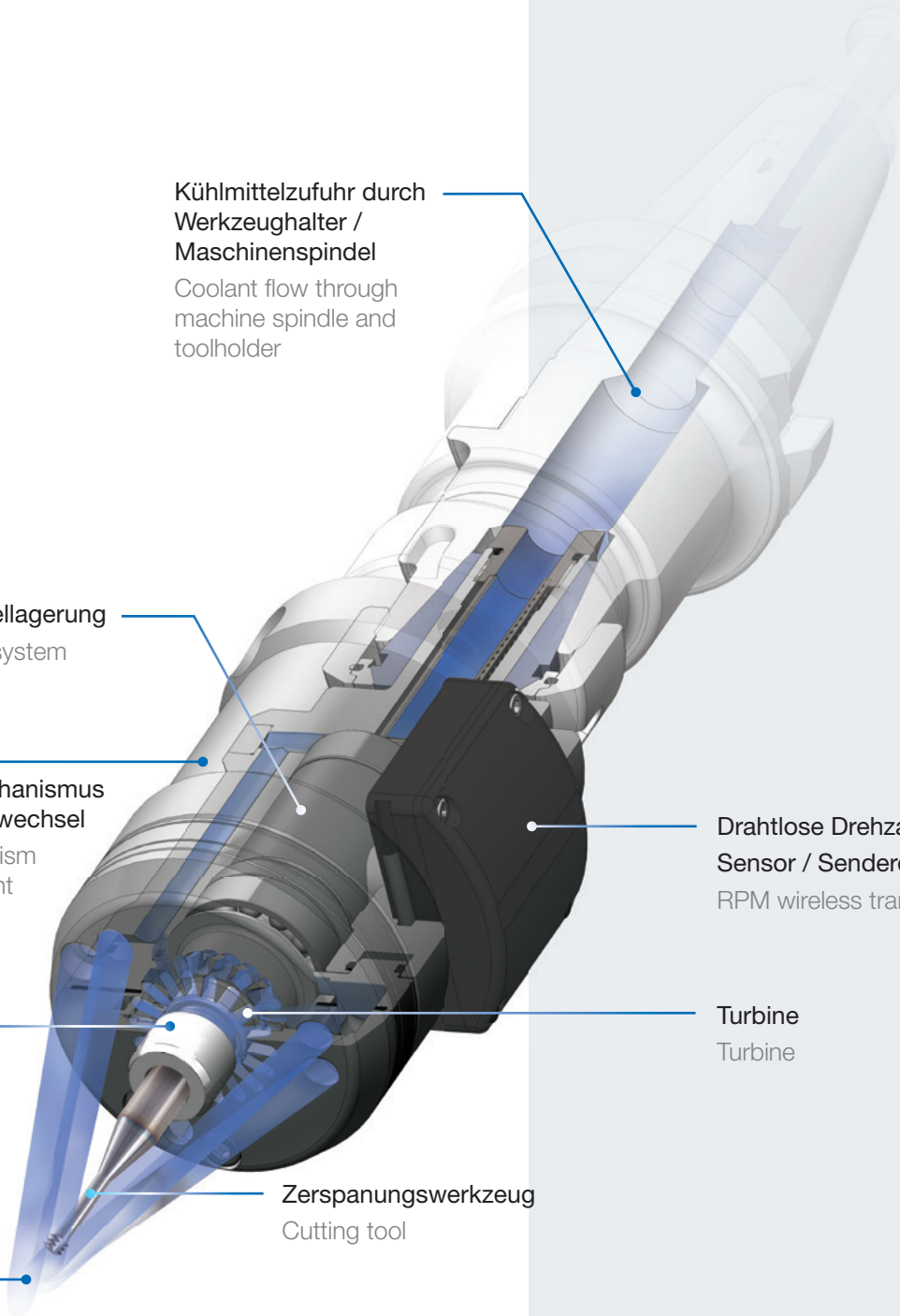
Zubehör / Accessories

Drehzahlanzeige / rpm-display
Nr. SJ Display-

Nr. / No.	ZYL-Schaft / ZYL-shank	D_1	D_2	A	L
SJ20-ZYL20-	20	63	16	12	97
SJ30-ZYL20-	20	63	16	12	97
SJ0-ZYL20-	20	63	16	12	97

COOLANT-DRIVEN TECHNOLOGY





Kühlmittelzufuhr durch Werkzeughalter / Maschinenspindel
Coolant flow through machine spindle and toolholder

Hochpräzise Kugellagerung
Precision bearing system

Integrierter Verriegelungsmechanismus für den Werkzeugwechsel
Shaft lock mechanism for tool replacement

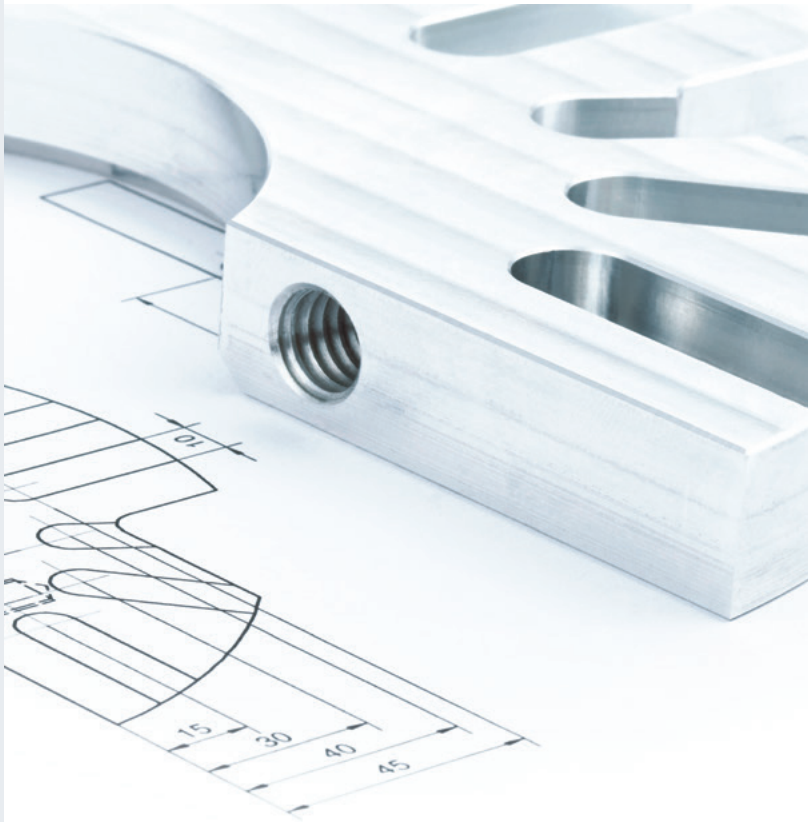
Drahtlose Drehzahl-Sensor / Sendereinheit
RPM wireless transmitter

Turbine
Turbine

Werkzeug-aufnahme
Clamping system

Zerspanungswerkzeug
Cutting tool

Kühlmittel-strahl
Jet flow coolant



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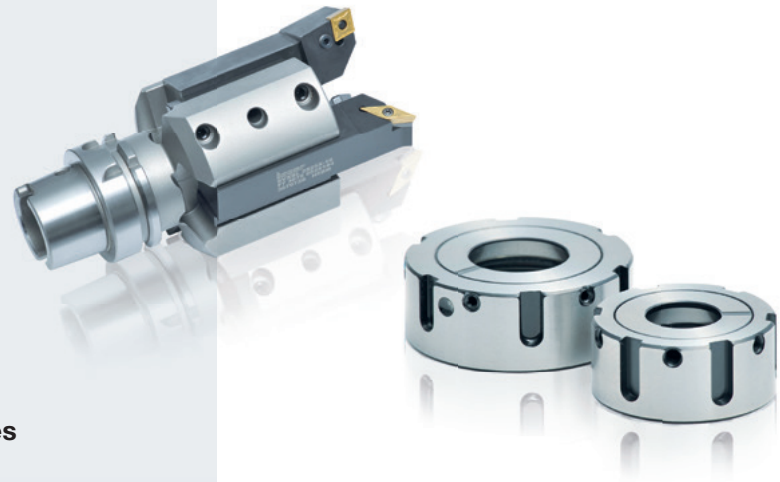
Stand / Updated: 02/2016



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