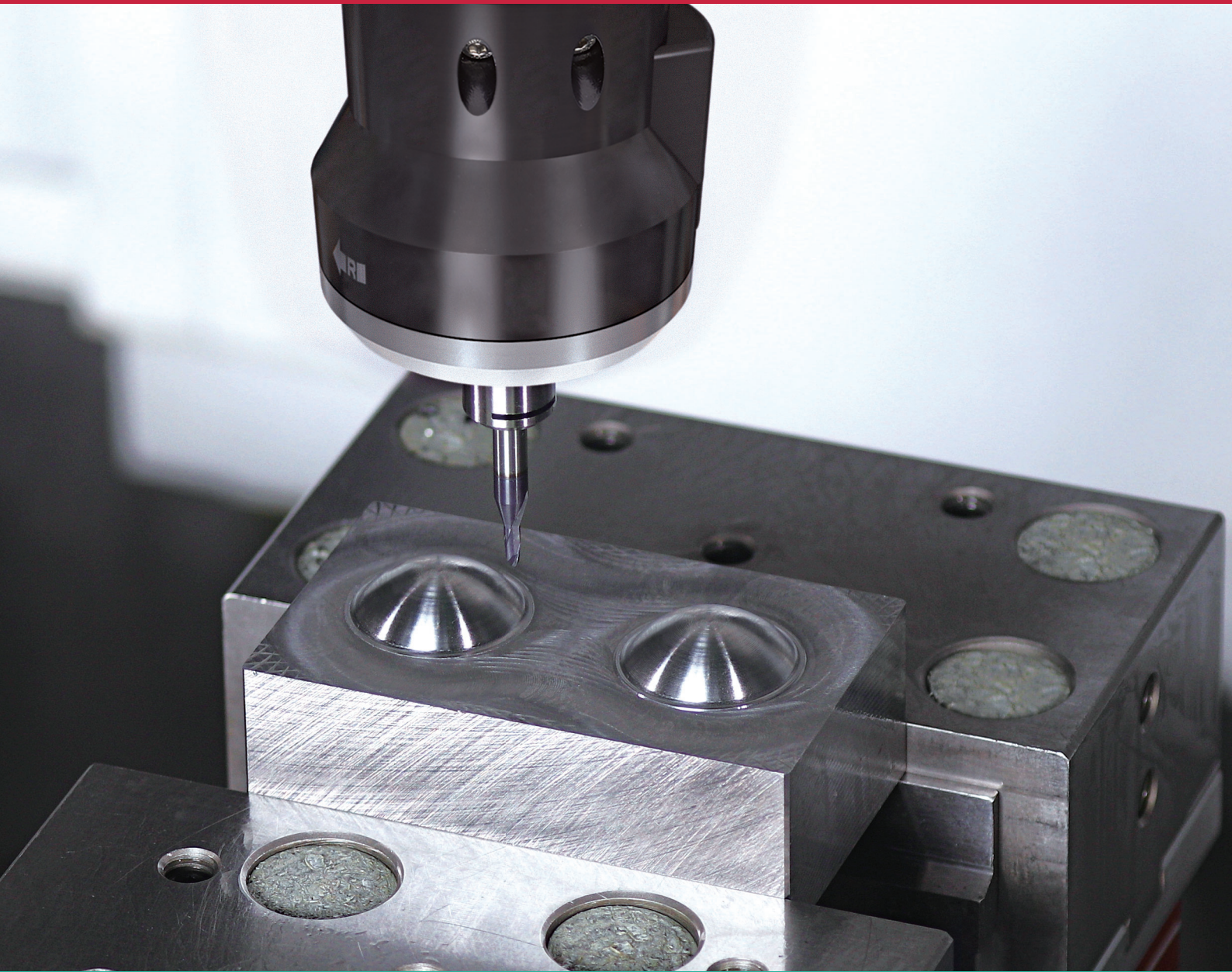


SPINJET

www.tungaloy.com

Tungaloy Report No. 428S1-G

Transform existing machine into a
high-speed machine!



INDUSTRY 4.0
FEED the SPEED!



For more information



Coolant-driven HPC spindle for high productivity with small diameter tools on limited RPM machines

- HPC SpinJet utilizes the machine tool's existing coolant supply, driven by a high pressure pump as an energy source to rotate a turbine at high speeds.
- Strong coolant jet flow provides extended tool life and machining stability.
- HPC SpinJet for high pressure coolant 1.5 - 7 MPa is available.

No operator intervention

The light-weight and compact design allows a perfect fit into the **ATC** or tool magazine, ideal for un-manned, mass production lines.

Energy saving

Tools rotate only with coolant pressure, and the machine spindle is idle while SpinJet is in operation.

Note: The main machine spindle should be stationary while the SpinJet spindle is mounted on the machine. (Use correct M-code to lock the spindle rotation).

Specifications

Features	SPINJET (HPC)
Coolant pressure: P (MPa)	1.5 - 7
Flow rate: Q (l/min)	10 - 20
No. of revolution: <i>n</i> (RPM)	21,000 - 45,000
Tool dia. (mm)	Drill: 0.3 - 2
	Milling: 0.3 - 3.5
Max. shank dia. (mm)	7

These are approximate RPM values depending on coolant pressure, flow rate, and type.

Applicable on a wide variety of machines

SpinJet is available in several adaptation types.

Types of adaptations



TJSHPCR32



TJSHPCBT40



TJSHPCHSKA63



TJSHPC6



TJSHPCST20

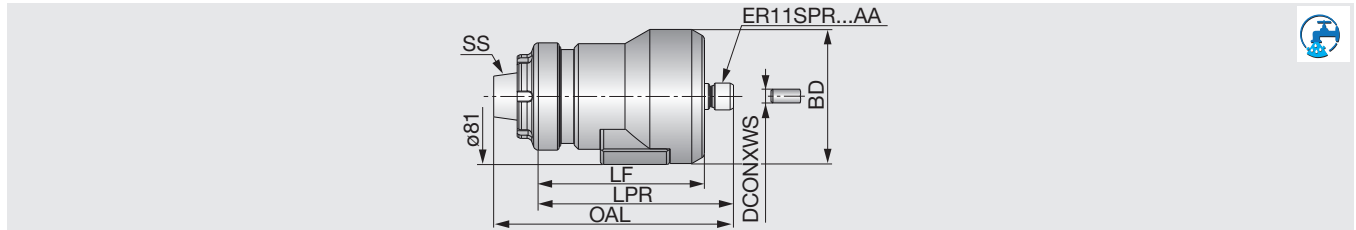


TJSHPCCAT40

New

TJS-HPC-ER32

Coolant driven high speed compact spindle for ER32 collet chuck



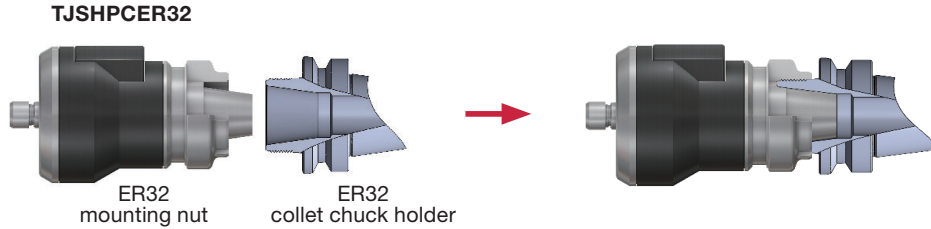
Designation	SS	LF	LPR	OAL	BD	DCONXWS ⁽¹⁾	WT(kg)
TJSHPCER32	ER32	99	116	144	80	7	1.7

- Coolant pressure through machine spindle: Min. 1.5 MPa / Max. 7 MPa
- Min. flow rate: 10 l/min
- (1) Max. tool shank diameter: ø7 mm

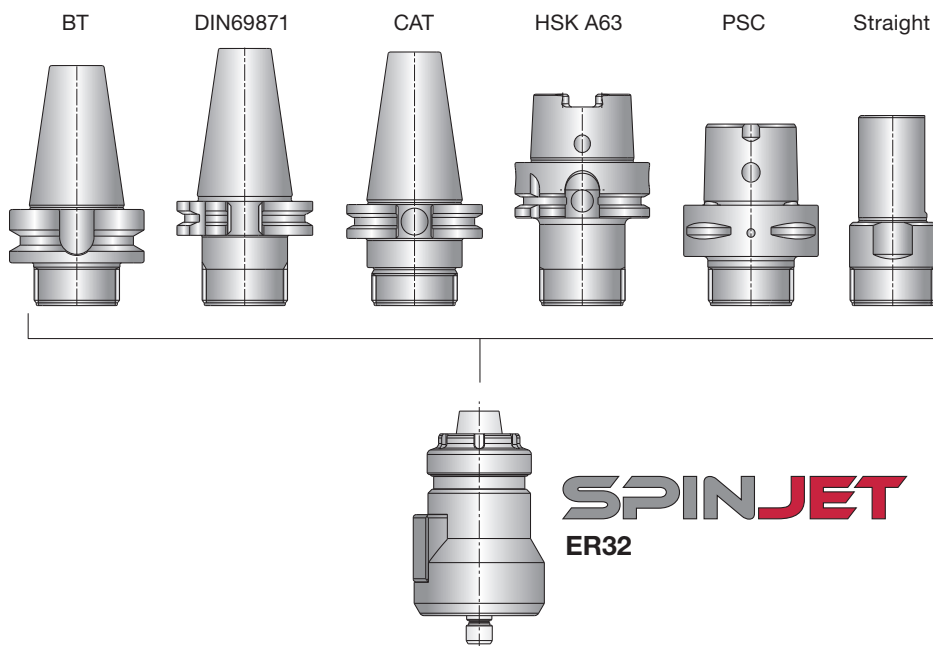
SPARE PARTS

Designation	Nut	Wrench for nut	Shaft lock key	Display (Optional)
TJSHPCER32	NUTER11GHS	WRENCHER11SMS	TJSSHAFTLOCKKEYGJET	TJSTSDDISPLAY***

■ Built-in ER32 collet chuck



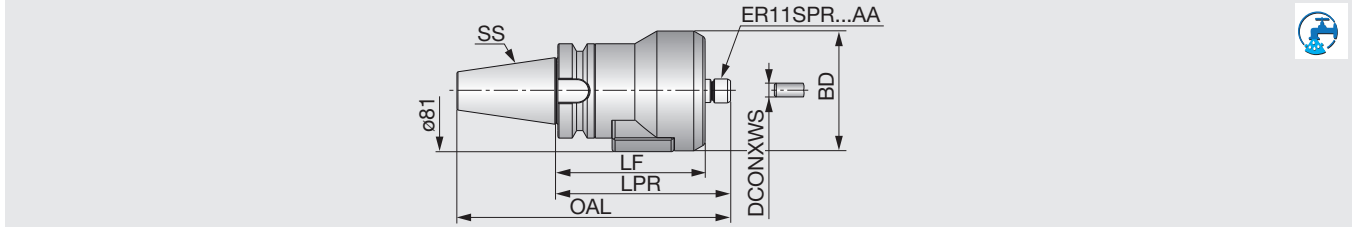
■ Options of SpinJet adaptation with ER32



New

TJS-HPC-BT40

Coolant driven high speed compact spindle with BT shank



Designation	SS	LF	LPR	OAL	BD	DCONXWS ⁽¹⁾	WT(kg)
TJSHPCBT40	BT40	100	118	183	80	7	1.9

- Coolant pressure through machine spindle: Min. 1.5 MPa / Max. 7 MPa
- Min. flow rate: 10 l/min
- (1) Max. tool shank diameter: ø7 mm

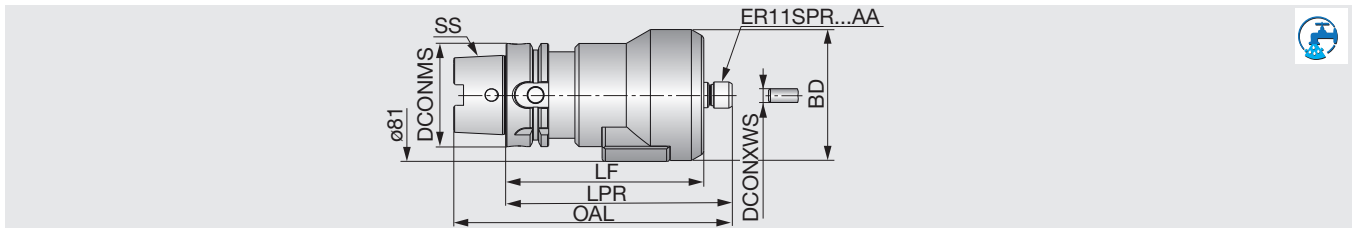
SPARE PARTS

Designation	Nut	Wrench for nut	Shaft lock key	Display (Optional)
TJSHPCBT40	NUTER11GHS	WRENCHER11SMS	TJSSHAFTLOCKKEYGJET	TJSTSDDISPLAY***

New

TJS-HPC-HSK A63

Coolant driven high speed compact spindle with HSK A63 shank



Designation	SS	DCONMS	LF	LPR	OAL	BD	DCONXWS ⁽¹⁾	WT(kg)
TJSHPCSKA63	HSKA63	63	121	138	170	80	7	2

- Coolant pressure through machine spindle: Min. 1.5 MPa / Max. 7 MPa
- Min. flow rate: 10 l/min
- (1) Max. tool shank diameter: ø7 mm

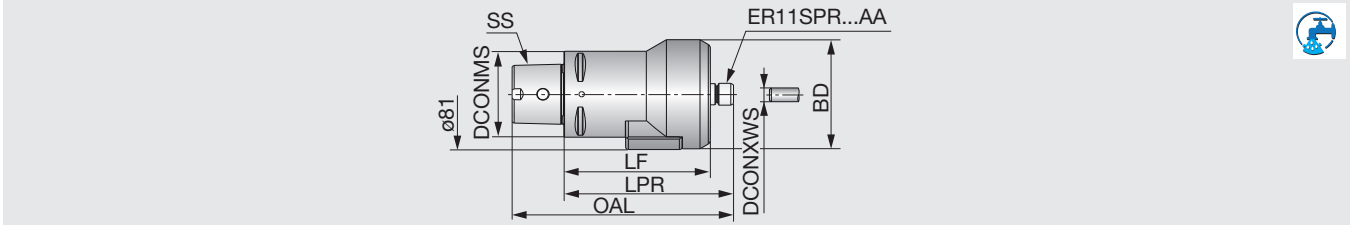
SPARE PARTS

Designation	Nut	Wrench for nut	Shaft lock key	Display (Optional)
TJSHPCSKA63	NUTER11GHS	WRENCHER11SMS	TJSSHAFTLOCKKEYGJET	TJSTSDDISPLAY***

New

TJS-HPC-C6

Coolant driven high speed compact spindle with TungCap PSC shank



Designation	SS	DCONMS	LF	LPR	OAL	BD	DCONXWS ⁽¹⁾	WT(kg)
TJSHPC6	C6	63	107	124	162	80	7	2

- Coolant pressure through machine spindle: Min. 1.5 MPa / Max. 7 MPa
- Min. flow rate: 10 l/min
- (1) Max. tool shank diameter: ø7 mm

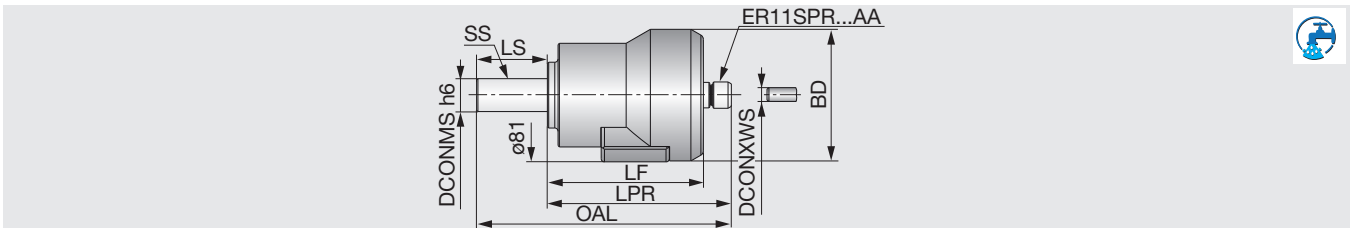
SPARE PARTS

Designation	Nut	Wrench for nut	Shaft lock key	Display (Optional)
TJSHPC6	NUTER11GHS	WRENCHER11SMS	TJSSHAFTLOCKKEYGJET	TJSTSDDISPLAY***

New

TJS-HPC-ST20

Coolant driven high speed compact spindle with straight (cylindrical) shank



Designation	SS	DCONMS	LS	LF	LPR	OAL	BD	DCONXWS ⁽¹⁾	WT(kg)
TJSHPCST20	ST20	20	43	95	112	155	80	7	1.5

- Coolant pressure through machine spindle: Min. 1.5 MPa / Max. 7 MPa
- Min. flow rate: 10 l/min
- (1) Max. tool shank diameter: ø7 mm

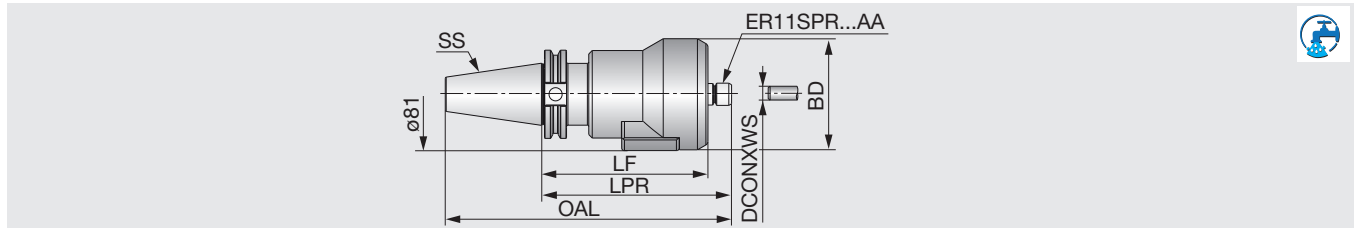
SPARE PARTS

Designation	Nut	Wrench for nut	Shaft lock key	Display (Optional)
TJSHPCST20	NUTER11GHS	WRENCHER11SMS	TJSSHAFTLOCKKEYGJET	TJSTSDDISPLAY***

New

TJS-HPC-CAT40

Coolant driven high speed compact spindle with CAT shank



Designation	SS	LF	LPR	OAL	BD	DCONXWS ⁽¹⁾	WT(kg)
TJSHPCCAT40	CAT40	120	137	206	80	7	2.3

- Coolant pressure through machine spindle: Min. 1.5 MPa / Max. 7 MPa
- Min. flow rate: 10 l/min
- (1) Max. tool shank diameter: $\phi 7$ mm

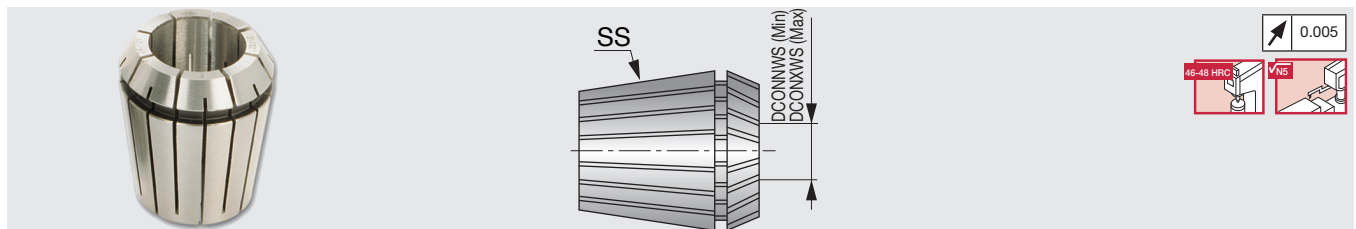
SPARE PARTS

Designation	Nut	Wrench for nut	Shaft lock key	Display (Optional)
TJSHPCCAT40	NUTER11GHS	WRENCHER11SMS	TJSSHAFTLOCKKEYGJET	TJSTSDDISPLAY***

New

ER-SPR-AA

ER 11 AA collets

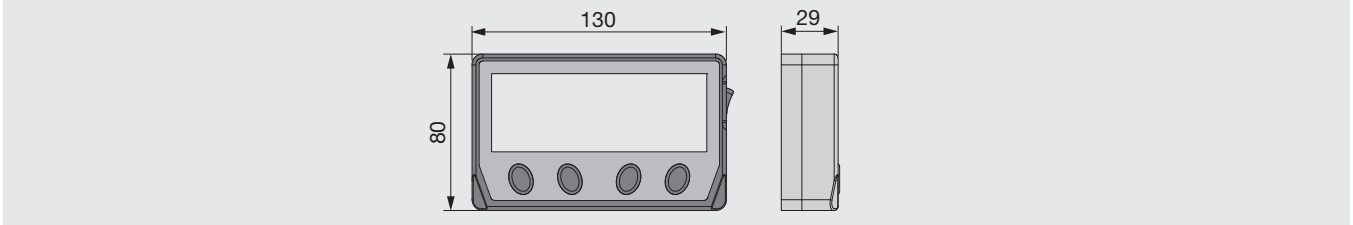


Designation	SS	DCONNWS (Min)	DCONXWS (Max)
ER11SPR0.5-1.0AA	ER11	0.5	1
ER11SPR1.0-1.5AA	ER11	1	1.5
ER11SPR1.5-2.0AA	ER11	1.5	2
ER11SPR2.0-2.5AA	ER11	2	2.5
ER11SPR2.5-3.0AA	ER11	2.5	3.
ER11SPR3.0-3.5AA	ER11	3	3.5
ER11SPR3.5-4.0AA	ER11	3.5	4
ER11SPR4.0-4.5AA	ER11	4	4.5
ER11SPR4.5-5.0AA	ER11	4.5	5
ER11SPR5.0-5.5AA	ER11	5	5.5
ER11SPR5.5-6.0AA	ER11	5.5	6
ER11SPR6.0-6.5AA	ER11	6	6.5
ER11SPR6.5-7.0AA	ER11	6.5	7

AA collets run-out: 0.005 mm

Wireless RPM speed display

RPM speed display for SPINJET high speed spindles



Designation		Machine
TJSTSDDISPLAYEUR	(For Europe)	TJS spindles
TJSTSDDISPLAYUSA	(For the United States and Japan)	TJS spindles

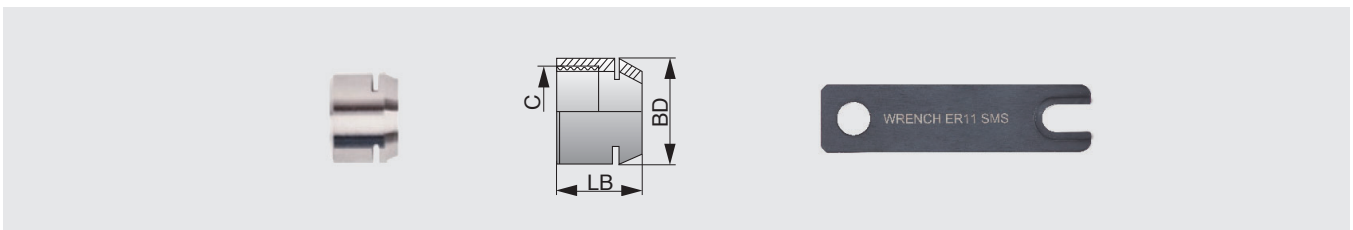
Including plug adaptor

- Plug adaptor for wireless RPM speed display

Type	TJSTSDDISPLAYEUR	TJSTSDDISPLAYUSA
Designation	TJSDISP.POWERSUPP-EUR	TJSDISP.POWERSUPP-USA
Appearance	<p>Plug adaptor for Europe</p>	<p>Plug adaptor for the United States and Japan</p>

Plug adaptor is also sold separately.

Nut and wrench for nut



Designation	BD	LB	C	Wrench
NUTER11GHS	16	11.5	M13X0.75	WRENCHER11SMS

Shaft lock key



Designation
TJSSHAFTLOCKKEYGJET

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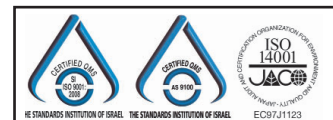
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