

Different types of spindles

Tool-motors

VM 10 and VM 17 are used for hand work, as auxiliary spindles in machines for deburring, drilling, milling, engraving and grinding.

Air-cooled spindles

S11, S16, S18, S19, S24 and S27. The slim dimensions of these spindles makes the suitable for building into multi-spindle machines. The spindles are used for bore grinding, jig grinding, drilling and milling.

Water-cooled spindles

S20 and S28 are designed for applications where heavy and continuous loading is required. Suitable for grinding, jig grinding, milling, deburring and drilling.

Water-cooled, oil-mist lubricated spindles

S21, S30, S33 and S50 are intended for production grinding with high precision like internal grinding etc.

Static frequency converters

SF 700, SF 1500 and SF 3000 are intended for speed control of SPV Spintec's motors and spindle series.

We also supply frequency converters for building into machine enclosures. The type CDA are available in a range of sizes and speed.

Technical specifications

Spindle model	Effect kW	Speed max RPM	Speed min RPM	Outer diameter Ømm	Type of cooling	Type of lubrication
VM 10	0,1	72 000	36 000	33	Compressed air / Fan	Permanently lubricated
VM 17	0,4	54 000	15 000	45	Compressed air / Fan	Permanently lubricated
S 11	0,1	72 000	36 000	33	Compressed air / Fan	Permanently lubricated
S 16	0,4	60 000	15 000	45	Compressed air / Fan	Permanently lubricated
S 18	0,4	60 000	15 000	50	Compressed air / Fan	Permanently lubricated
S 19	0,4	60 000	15 000	60	Compressed air / Fan	Permanently lubricated
S 20	0,65	60 000	15 000	60	Water-cooling	Permanently lubricated
S 21	0,7	90 000	15 000	60	Water-cooling	Oil-mist lubricated
S 24	0,3	75 000	30 000	70	Compressed air	Permanently lubricated
S 27	0,8	54 000	9 000	60	Compressed air / Fan	Permanently lubricated
S 28	1,1	40 000	9 000	80	Water-cooling	Permanently lubricated
S 30	2,0	60 000	15 000	80	Water-cooling	Oil-mist lubricated
S 33	1,2	75 000	25 000	80	Water-cooling	Oil-mist lubricated
S 34	0,5	45 000	15 000	70	Compressed air	Permanently lubricated
S 44	2,5	50 000	5 000	110	Water-cooling	Permanently lubricated
S 50	5,0	30 000	15 000	100	Water-cooling	Oil-mist lubricated

HIGH SPEED SPINDLES

Tool-motors

VM 10



Air-cooled motor intended for handwork and as spindle in machines where simpler drilling, grinding, milling and deburring is to be performed. Stainless steel housing (type R) is suitable for building into machines. Compressed air-cooling (type P) is advisable when operating in either dirty or hostile environments or if more effective cooling is required. The noise level will also be lower.



VM 10
Fan-cooled



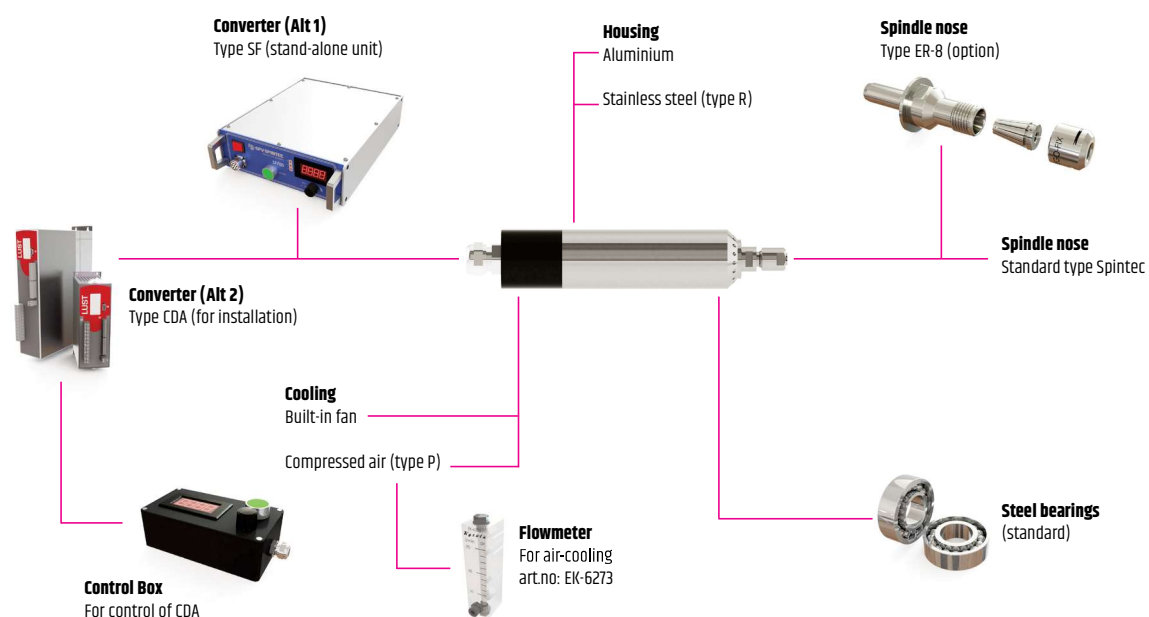
VM 10
Compressed
air-cooled

Technical specifications

VM 10
Housing:
Anodized aluminum Stainless steel (type R)
Cooling:
Built-in fan Compressed air (type P)
Ball bearings:
Permanently lubricated, pre-loaded, high performance groove ball bearings.
Electrical connection:
6-pin contact via frequency converter.
Rotation direction:
Right rotating Left rotating (option)

HIGH SPEED SPINDLES

Tool-motors



Standard accessories included

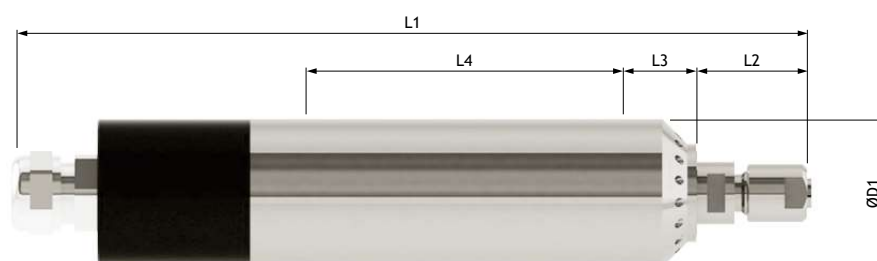
- ▲ 3 m cable
- ▲ 2 chuck keys
- ▲ 1 collet in any dimension (specify on order)

Drive unit

- ▲ Frequency converter, stand-alone unit: SF700
- ▲ Frequency converter for installation: CDA-0,75
- ▲ Control Box for control of CDA: CONTROL BOX

Spindle model	ØD1 mm	L1 mm	L2 mm	L3 mm	L4 mm	Weight kg	Spindle nose type	Collet max Ø mm
VM 10	33	177	26	15	71	0,3	Spintec 10	4,0
	Effect max kW	Voltage V	Speed max RPM	Speed min RPM	Run-out max mm	Coaxiality max mm	Air consumption l / min (type p)	Noise level dB
VM 10	0,1	184	72 000	36 000	0,01	0,3	50 *	74

* The air flow between the spindle and the flowmeter may vary depending on various conditions



HIGH SPEED SPINDLES

Tool-motors

VM 17



Air-cooled motor intended for handwork and as spindle in machines where simpler drilling, grinding, milling and deburring is to be performed. Stainless steel housing (type R) is suitable for building into machines. Compressed air-cooling (type P) is advisable when operating in either dirty or hostile environments or if more effective cooling is required. The noise level will also be lower.

Technical specifications

VM 17

Housing:

Anodized aluminum
Stainless steel (type R)

Cooling:

Built-in fan
Compressed air (type P)

Ball bearings:

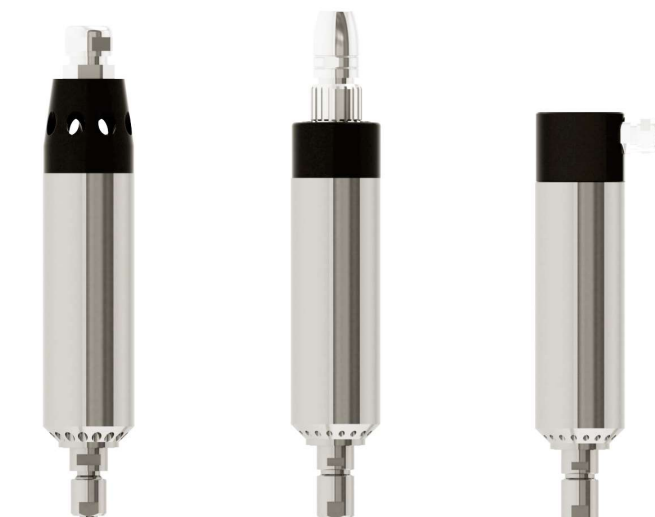
Permanently lubricated, pre-loaded, high performance groove ball bearings.

Electrical connection:

6-pin contact via frequency converter.

Rotation direction:

Right rotating
Left rotating (option)



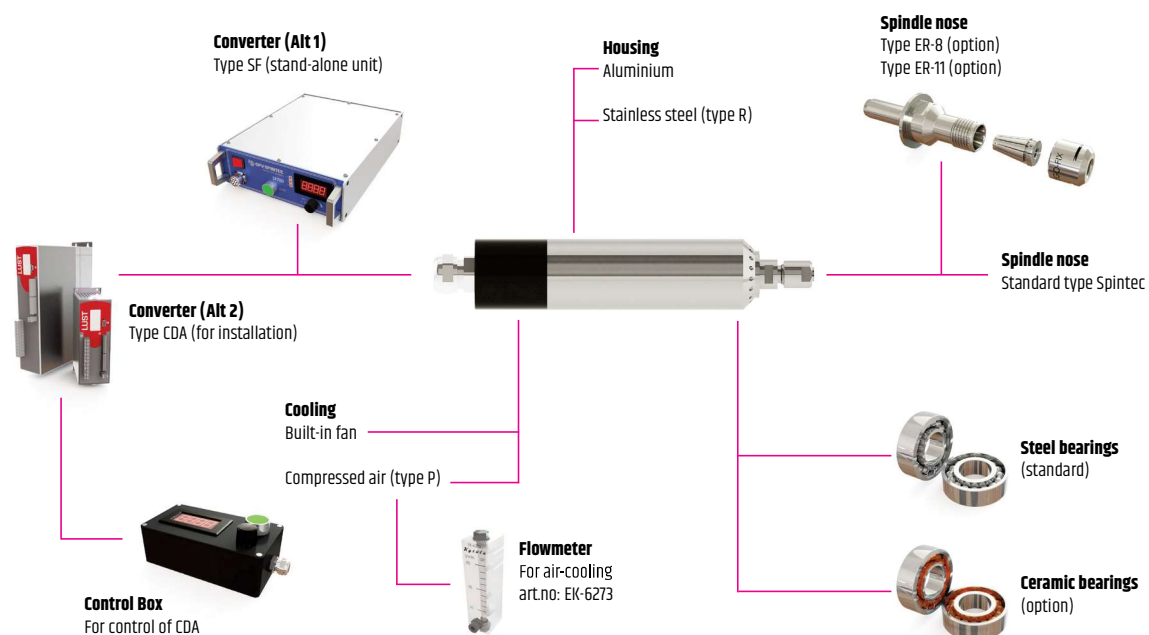
▲ VM 17
Fan-cooled

▲ VM 17 P
Air-cooled

▲ Type AC
Angular
connection

HIGH SPEED SPINDLES

Tool-motors



Standard accessories included

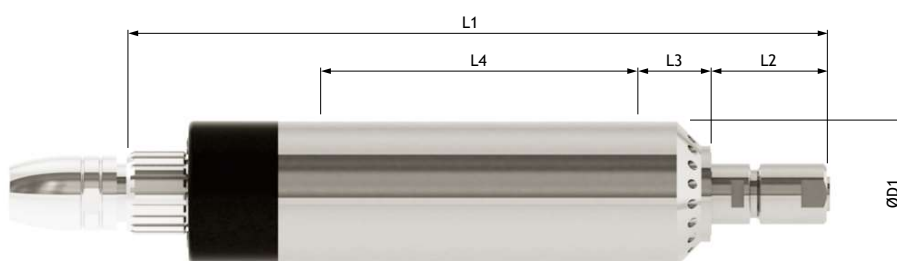
- ▲ 3 m cable
- ▲ 2 chuck keys
- ▲ 1 collet in any dimension (specify on order)

Drive unit

- ▲ Frequency converter, stand-alone unit: SF700
- ▲ Frequency converter for installation: CDA-0,75
- ▲ Control Box for control of CDA: CONTROL BOX

Spindle model	ØD1 mm	L1 mm	L2 mm	L3 mm	L4 mm	Weight kg	Spindle nose type	Collet max Ø mm
VM 17	45	226	37	20	102	0,9	Spintec 17	8,0
	Effect max kW	Voltage V	Speed max RPM	Speed min RPM	Run-out max mm	Coaxiality max mm	Air consumption l / min (type p)	Noise level dB
VM 17	0,4	189	54 000	15 000	0,01	0,3	90 *	82

* The air flow between the spindle and the flowmeter may vary depending on various conditions



HIGH SPEED SPINDLES

Air-cooled spindles

S 11



Air-cooled spindle designed for high speed, precision and reliability. It is intended for building into machines or automated cells for such operations as grinding, drilling, milling and deburring etc. Compressed air-cooling (type P) is advisable when operating in either dirty or hostile environments or if more effective cooling is requested. The noise level will also be lower.



▲ S 11-72
Fan-cooled



▲ S 11-72 P
Compressed
air-cooled

Technical specifications

S 11 - 72

Housing:

Steel

Cooling:

Built-in fan
Compressed air (type P)

Ball bearings:

Permanently lubricated, spring pre-loaded,
high performance angular contact ball
bearings.

Electrical connection:

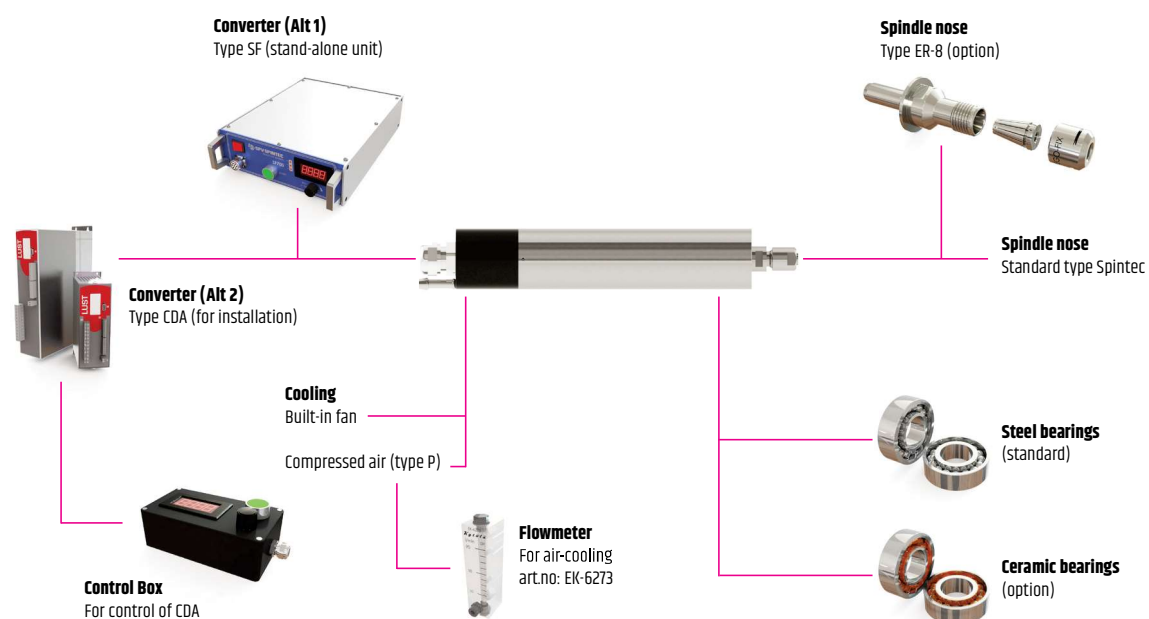
6-pin contact with PTC via frequency converter.

Rotation direction:

Right rotating
Left rotating (option)

HIGH SPEED SPINDLES

Air-cooled spindles



Standard accessories included

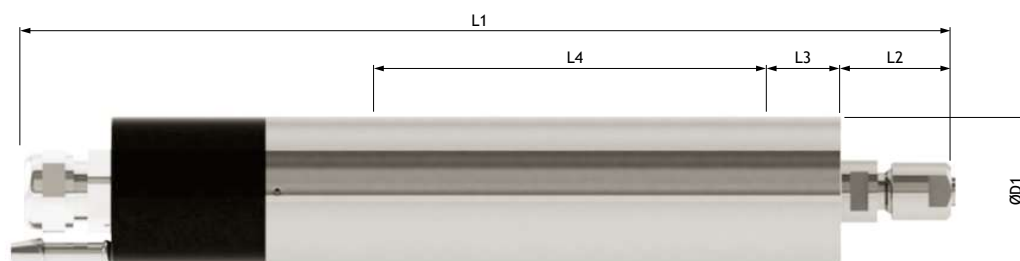
- ▲ 3 m cable
- ▲ 2 chuck keys
- ▲ 1 collet in any dimension (specify on order)

Drive unit

- ▲ Frequency converter, stand-alone unit: SF700
- ▲ Frequency converter for installation: CDA-0.75
- ▲ Control Box for control of CDA: CONTROL BOX

Spindle model	ØD1 mm	L1 mm	L2 mm	L3 mm	L4 mm	Weight kg	Spindle nose type	Collet max Ø mm
S 11 - 72	33	203	25	15	71	0,6	Spintec 10	4,0
	Effect max kW	Voltage V	Speed max RPM	Speed min RPM	Run-out max mm	Coaxiality max mm	Air consumption l / min (type p)	Noise level dB
S 11 - 72	0,1	184	72 000	36 000	0,005	0,05	50 *	74

* The air flow between the spindle and the flowmeter may vary depending on various conditions



HIGH SPEED SPINDLES

Air-cooled spindles

S 16 / S 18



Air-cooled spindle designed for high speed, precision and reliability. It is intended for building into machines or automated cells for such operations as grinding, drilling, milling and deburring etc. Compressed air-cooling (type P) is advisable when operating in either dirty or hostile environments or if more effective cooling is requested. The noise level will also be lower.



▲ S 16 - 60



▲ S 18 - 60

Technical specifications

S 16 / S 18

Housing:

Steel

Cooling:

Built-in fan
Compressed air (type P)

Ball bearings:

Permanently lubricated, spring pre-loaded,
high performance angular contact ball
bearings.

Electrical connection:

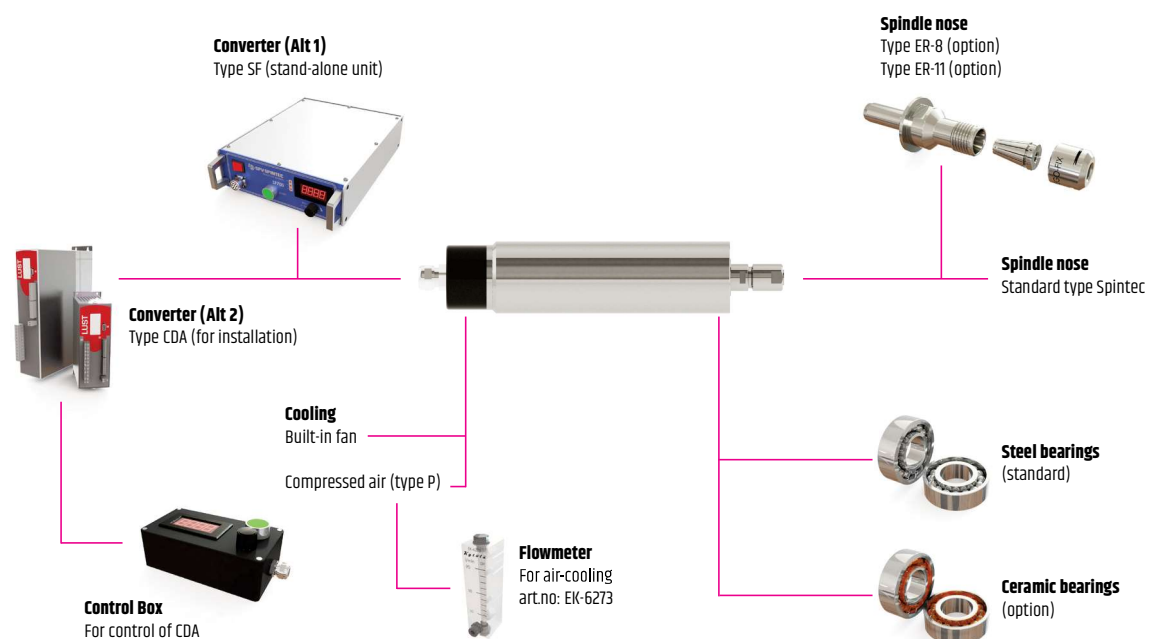
6-pin contact with PTC via frequency converter.

Rotation direction:

Right rotating
Left rotating (option)

HIGH SPEED SPINDLES

Air-cooled spindles



Standard accessories included

- ▲ 3 m cable
- ▲ 2 chuck keys
- ▲ 1 collet in any dimension (specify on order)

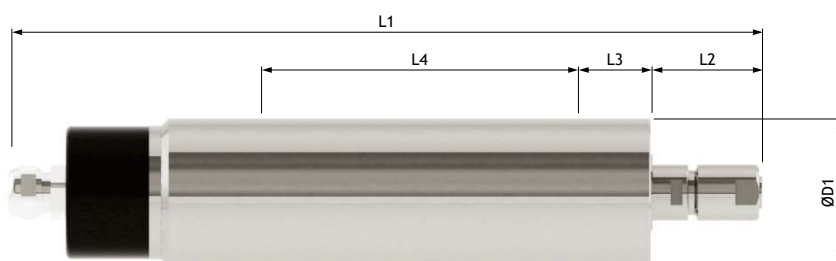
Drive unit

- ▲ Frequency converter, stand-alone unit: SF700
- ▲ Frequency converter for installation: CDA-0,75
- ▲ Control Box for control of CDA: CONTROL BOX

Spindle model	ØD1 mm	L1 mm	L2 mm	L3 mm	L4 mm	Weight kg	Spindle nose type	Collet max Ø mm
S 16 - 60	50	251 **	37	20	102	2,0	Spintec 17	8,0
S 18 - 60	45	251 **	37	20	102	2,0	Spintec 17	8,0
	Effect max kW	Voltage V	Speed max RPM	Speed min RPM	Run-out max mm	Coaxiality max mm	Air consumption l / min (type p)	Noise level dB
S 16 - 60	0,4	210	60 000	15 000	0,005	0,05	90 *	80
S 18 - 60	0,4	210	60 000	15 000	0,005	0,05	90 *	80

* The air flow between the spindle and the flowmeter may vary depending on various conditions

** Type P = +10 mm



HIGH SPEED SPINDLES

Air-cooled spindles

S 19



Air-cooled spindle designed for high speed, precision and reliability. It is intended for building into machines or automated cells for such operations as grinding, drilling, milling and deburring etc. Compressed air-cooling (type P) is advisable when operating in either dirty or hostile environments or if more effective cooling is requested. The noise level will also be lower.



▲ S 19-60
Fan-cooled



▲ S 19-60
Compressed
air-cooled

S 19 - 60

Housing:

Steel

Cooling:

Built-in fan
Compressed air (type P)

Ball bearings:

Permanently lubricated, spring pre-loaded, high performance angular contact ball bearings.

Electrical connection:

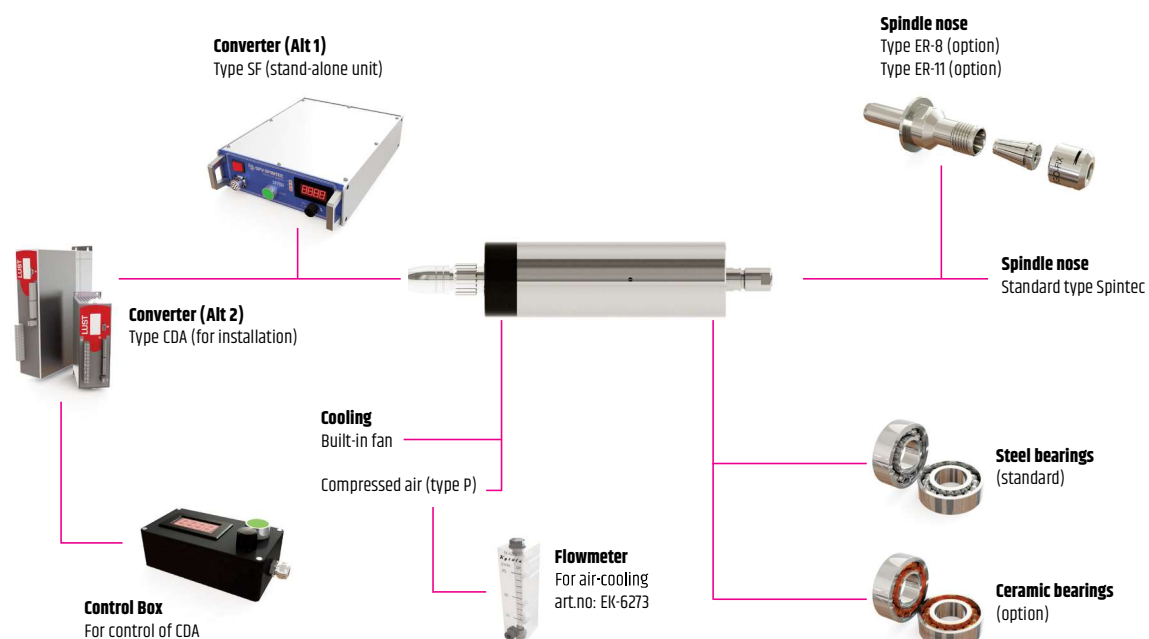
6-pin contact with PTC via frequency converter.

Rotation direction:

Right rotating
Left rotating (option)

HIGH SPEED SPINDLES

Air-cooled spindles



Standard accessories included

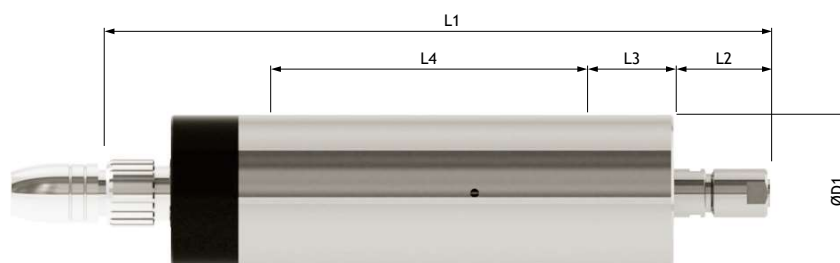
- ▲ 3 m cable
- ▲ 2 chuck keys
- ▲ 1 collet in any dimension (specify on order)

Drive unit

- ▲ Frequency converter, stand-alone unit: SF700
- ▲ Frequency converter for installation: CDA-0,75
- ▲ Control Box for control of CDA: CONTROL BOX

Spindle model	ØD1 mm	L1 mm	L2 mm	L3 mm	L4 mm	Weight kg	Spindle nose type	Collet max Ø mm
S 19 - 60	60	289	37	20	145	3,6	Spintec 17	8,0
	Effect max kW	Voltage V	Speed max RPM	Speed min RPM	Run-out max mm	Coaxiality max mm	Air consumption l / min (type p)	Noise level dB
S 19 - 60	0,4	210	60 000	15 000	0,005	0,05	90 *	80

* The air flow between the spindle and the flowmeter may vary depending on various conditions



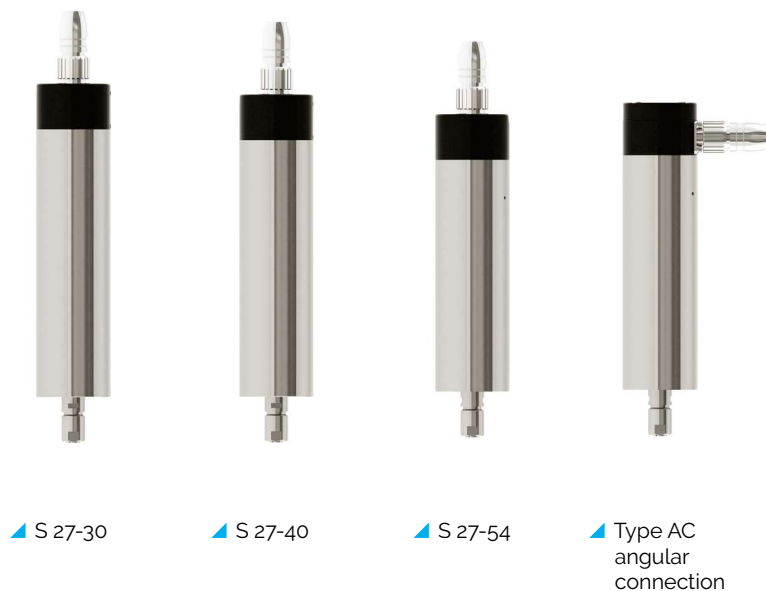
HIGH SPEED SPINDLES

Air-cooled spindles

S 27



Air-cooled spindle designed for high speed, precision and reliability. It is intended for building in to machines or automation cells for such operations as grinding, milling and deburring etc. Compressed air-cooling (type P) is advisable when operating in either dirty or hostile environments or if more effective cooling is required. The noise level is also lower.

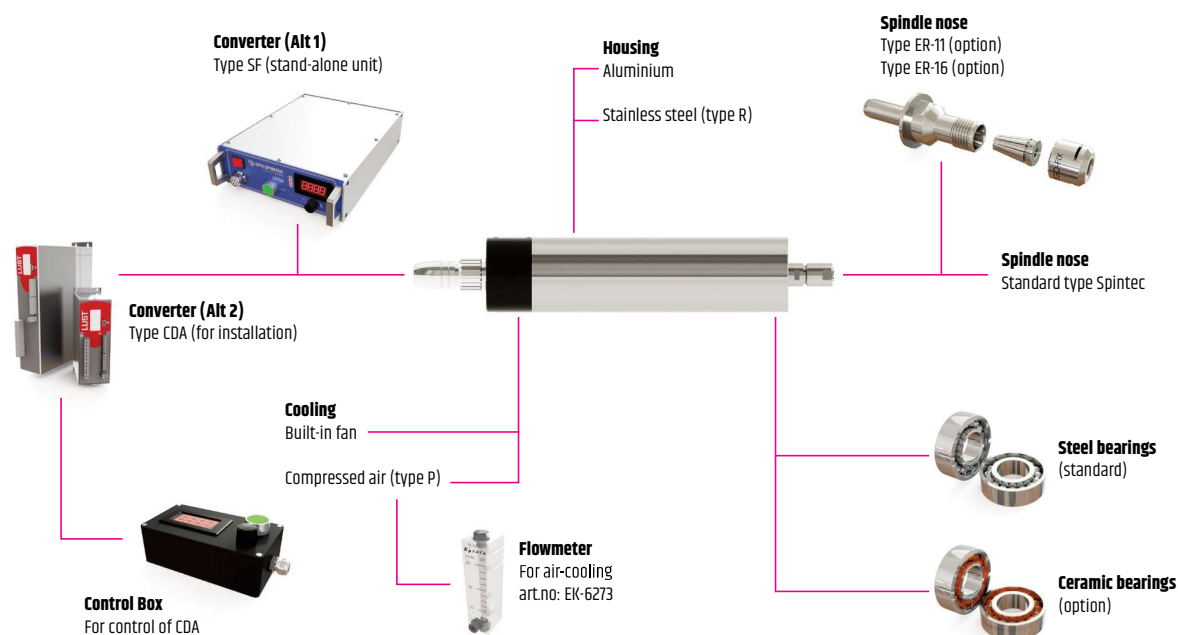


Technical specifications

S 27
Housing:
Steel
Cooling:
Built-in fan Compressed air (type P)
Ball bearings:
Permanently lubricated, spring pre-loaded, high performance angular contact ball bearings. S 27-30 is provided with dual front ball bearings.
Electrical connection:
6-pin contact with included PTC via frequency converter.
Rotation direction:
Right rotating Left rotating (option)

HIGH SPEED SPINDLES

Air-cooled spindles



Standard accessories included

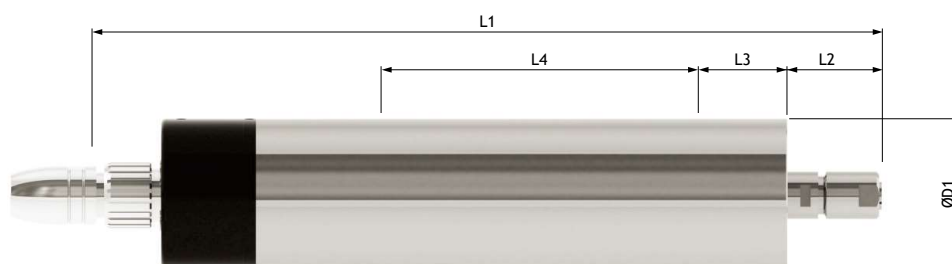
- ▲ 3 m cable
- ▲ 2 chuck keys
- ▲ 1 collet in any dimension (specify on order)

Drive unit

- ▲ Frequency converter, stand-alone unit: SF1500
- ▲ Frequency converter for installation: CDA-1,5
- ▲ Control Box for control of CDA: CONTROL BOX

Spindle model	ØD1 mm	L1 mm	L2 mm	L3 mm	L4 mm	Weight kg	Spindle nose type	Collet max Ø mm
S 27 - 30	60	347	37	25	102	3,3	Spintec 17	8,0
S 27 - 40	60	337	37	20	102	3,2	Spintec 17	8,0
S 27 - 54	60	318	37	20	82	3,0	Spintec 17	8,0
	Effect max kW	Voltage V	Speed max RPM	Speed min RPM	Run-out max mm	Coaxiality max mm	Air consumption l / min (type p)	Noise level dB
S 27 - 30	0,56	200	30 000	9 000	0,005	0,05	100 *	80
S 27 - 40	0,8	204	40 000	9 000	0,005	0,05	80 *	80
S 27 - 54	0,75	189	54 000	9 000	0,005	0,05	80 *	80

* The air flow between the spindle and the flowmeter may vary depending on various conditions



HIGH SPEED SPINDLES

Water-cooled spindles

S 20



Water-cooled spindle intended for building into machine or automation cells, where power, wide speed range and low noise level are essential. S20 is designed and manufactured with highest precision and accuracy which makes it optimal for internal grinding or other precision high speed machining.

Technical specifications

S 20 - 60

Housing:

Stainless steel

Cooling:

Water-cooling

Ball bearings:

Permanently lubricated, spring pre-loaded, high performance angular contact ball bearings.

Electrical connection:

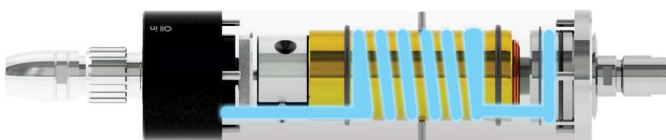
6-pin contact with included PTC via frequency converter.

Rotation direction:

Both directions are available

Water connection:

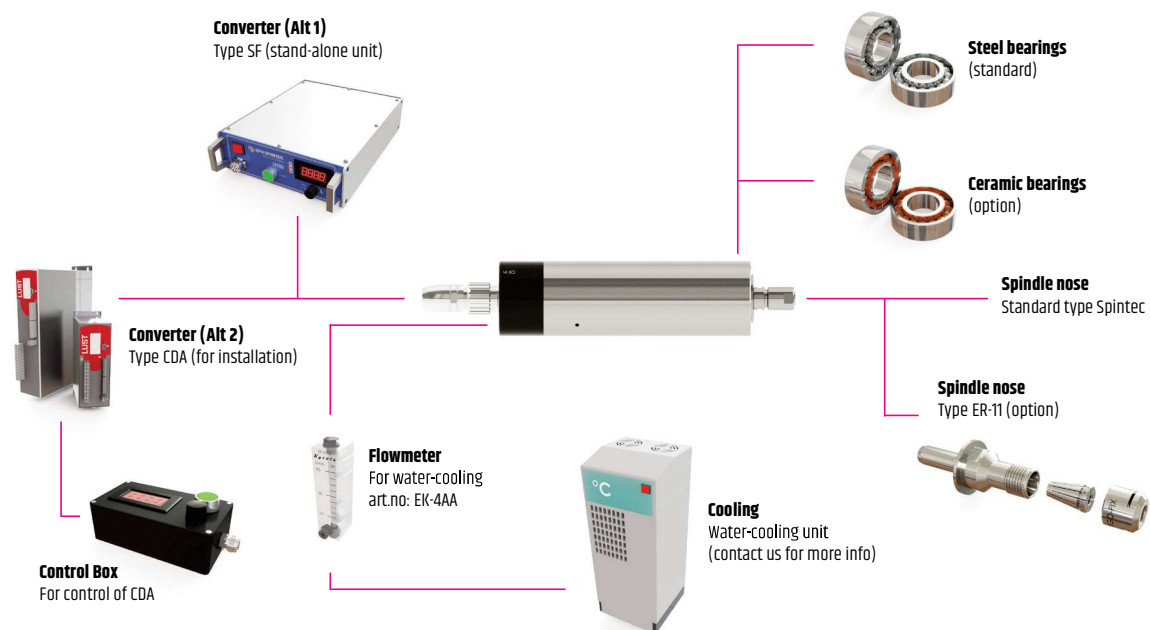
In- and outlet (R 1/8")



▲ Efficient water-cooling over the stator and the front ball bearings

HIGH SPEED SPINDLES

Water-cooled spindles



Standard accessories included

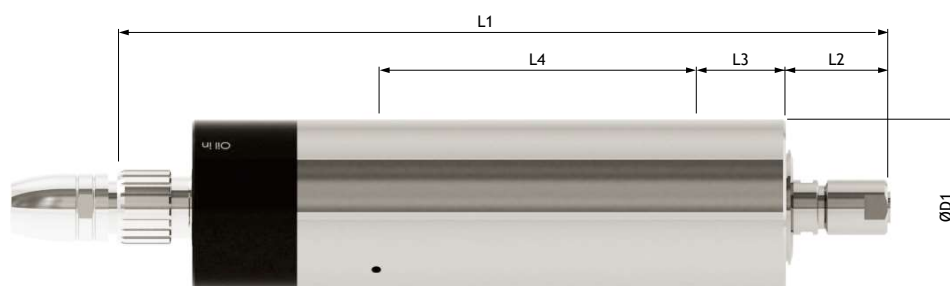
- ▲ 3 m cable
- ▲ 2 chuck keys
- ▲ 1 collet in any dimension (specify on order)

Drive unit

- ▲ Frequency converter, stand-alone unit: SF700
- ▲ Frequency converter for installation: CDA-0.75
- ▲ Control Box for control of CDA: CONTROL BOX

Spindle model	ØD1 mm	L1 mm	L2 mm	L3 mm	L4 mm	Weight kg	Spindle nose type	Collet max Ø mm
S 20 - 60	60	259	36	25	168	3,6	Spintec 17	8,0
	Effect max kW	Voltage V	Speed max RPM	Speed min RPM	Run-out max mm	Coaxiality max mm	Water flow l / min	Noise level dB
S 20 - 60	0,8	210	60 000	15 000	0,005	0,05	0,6 *	64

* The coolant flow between the spindle and the flowmeter may vary depending on various conditions



HIGH SPEED SPINDLES

Water-cooled spindles

S 21

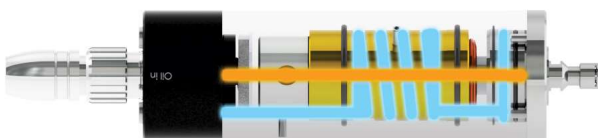


Water-cooled and oil mist lubricated spindle intended for building into machine or automation cells, where power, wide speed range and low noise level are essential. S21 is designed and manufactured with highest precision and accuracy which makes it optimal for internal grinding or other precision high speed machining.

Technical specifications

S 21
Housing:
Stainless steel
Cooling:
Water-cooling
Ball bearings:
Oil-mist lubricated, spring pre-loaded, high performance angular contact ball bearings.
Electrical connection:
6-pin contact with included PTC via frequency converter.
Rotation direction:
Both directions are available
Water connection:
In- and outlet (R 1/8")
Oil mist connection:
Inlet (R 1/8")

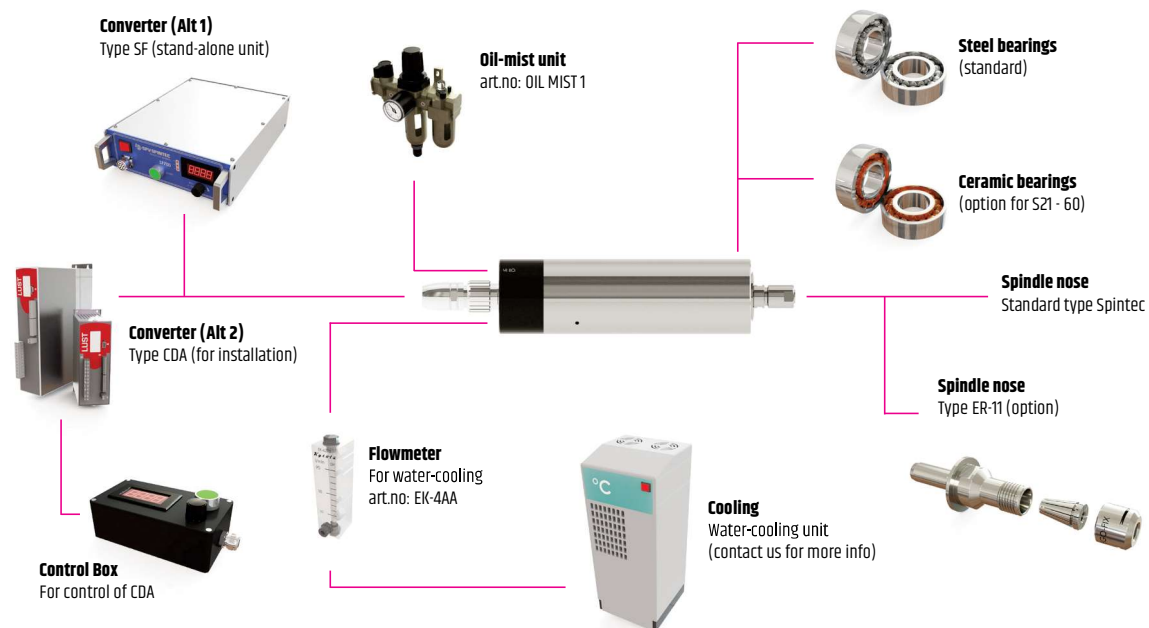
▲ Oil-mist lubrication of both front and rear ball bearing



▲ Efficient water-cooling over the stator and the front ball bearings

HIGH SPEED SPINDLES

Water-cooled spindles



Standard accessories included

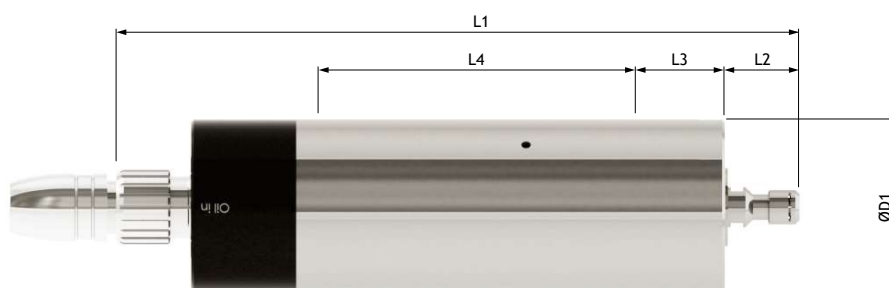
- ▲ 3 m cable
- ▲ 2 chuck keys
- ▲ 1 collet in any dimension (specify on order)

Drive unit

- ▲ Frequency converter, stand-alone unit: SF700
- ▲ Frequency converter for installation: CDA-0,75
- ▲ Control Box for control of CDA: CONTROL BOX

Spindle model	ØD1 mm	L1 mm	L2 mm	L3 mm	L4 mm	Weight kg	Spindle nose type	Collet max Ø mm
S 21 - 60	60	259	36	25	168	3,6	Spintec 17	8,0
S 21 - 90	60	229	33	20	125	2,9	Regofix ER-8	5,0
	Effect max kW	Voltage V	Speed max RPM	Speed min RPM	Run-out max mm	Coaxiality max mm	Air consumption l / min	Noise level dB
S 21 - 60	0,7	210	60 000	15 000	0,005	0,05	0,6 *	60
S 21 - 90	0,4	230	90 000	30 000	0,005	0,05	0,6 *	60

* The water flow between the spindle and the flowmeter may vary depending on various conditions



HIGH SPEED SPINDLES

Water-cooled spindles

S 28



Water-cooled spindle intended for building into machine or automation cells, where power, wide speed range and low noise level are essential. S28 is designed and manufactured with highest precision and accuracy which makes it optimal for internal grinding or other precision high speed machining.

Technical specifications

S 28 - 40

Housing:

Stainless steel

Cooling:

Water-cooling

Ball bearings:

Permanently lubricated, spring pre-loaded, high performance angular contact ball bearings.

Electrical connection:

6-pin contact with included PTC via frequency converter.

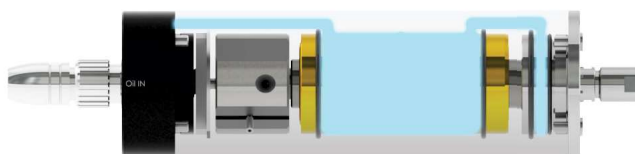
Rotation direction:

Both directions are available

Water connection:

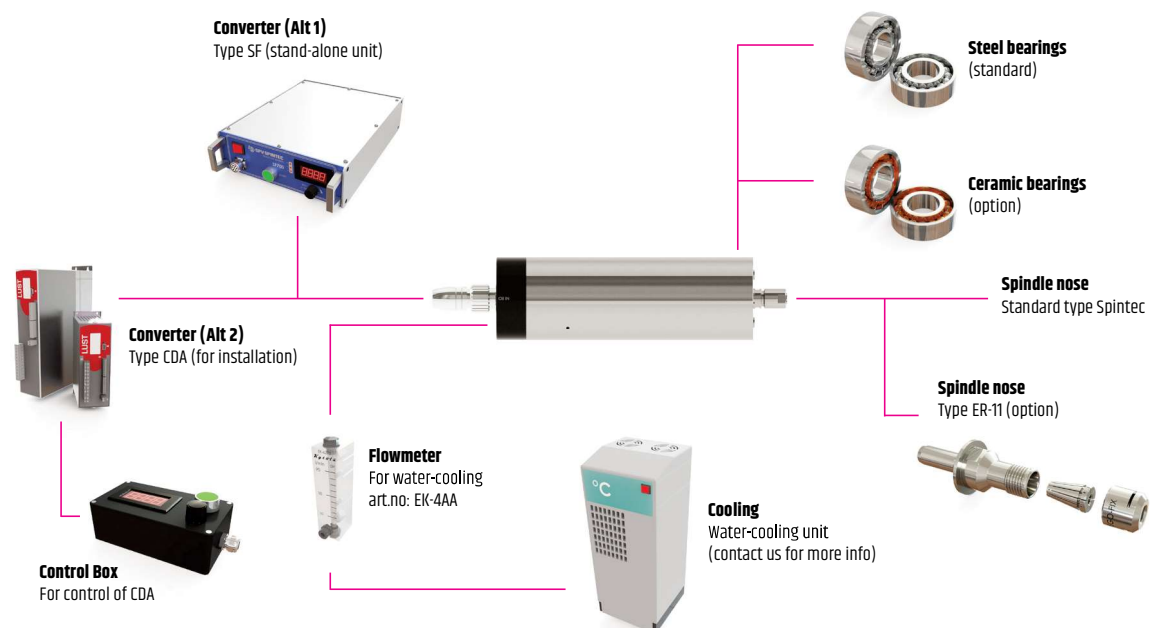
In- and outlet (R 1/8")

▲ Oil-mist lubrication of both front and rear ball bearing



HIGH SPEED SPINDLES

Water-cooled spindles



Standard accessories included

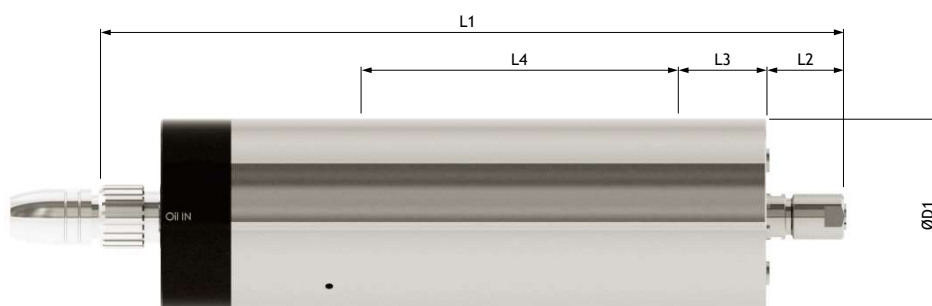
- ▲ 3 m cable
- ▲ 2 chuck keys
- ▲ 1 collet in any dimension (specify on order)

Drive unit

- ▲ Frequency converter, stand-alone unit: SF1500
- ▲ Frequency converter for installation: CDA-1,5
- ▲ Control Box for control of CDA: CONTROL BOX

Spindle model	ØD1 mm	L1 mm	L2 mm	L3 mm	L4 mm	Weight kg	Spindle nose type	Collet max Ø mm
S 28 - 40	80	340	34	35	177	6,8	Spintec 17	8,0
	Effect max kW	Voltage V	Speed max RPM	Speed min RPM	Run-out max mm	Coaxiality max mm	Water flow l / min	Noise level dB
S 28 - 40	1,1	204	40 000	9 000	0,005	0,05	1,2 *	60

* The coolant flow between the spindle and the flowmeter may vary depending on various conditions



HIGH SPEED SPINDLES

Water-cooled spindles

S 30

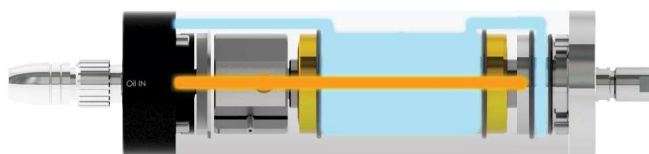


Water-cooled and oil mist lubricated spindle intended for building into machine or automation cells, where power, wide speed range and low noise level are essential. S30 is designed and manufactured with highest precision and accuracy which makes it optimal for internal grinding or other precision high speed machining.

Technical specifications

S 30
Housing:
Stainless steel
Cooling:
Water-cooling
Ball bearings:
Oil-mist lubricated, spring pre-loaded, high performance angular contact ball bearings.
Electrical connection:
6-pin contact with included PTC via frequency converter.
Rotation direction:
Both directions are available
Water connection:
In- and outlet (R 1/8")
Oil mist connection:
Inlet (R 1/8")

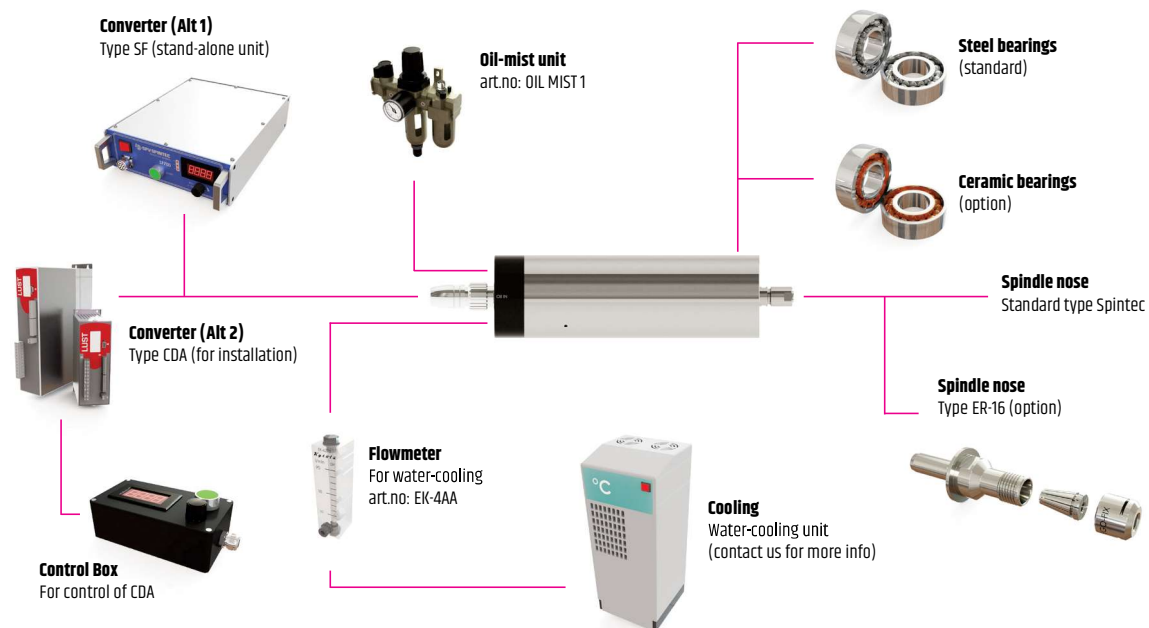
▲ Oil-mist lubrication of both front and rear ball bearings



▲ Efficient water-cooling over the stator and the front ball bearings

HIGH SPEED SPINDLES

Water-cooled spindles



Standard accessories included

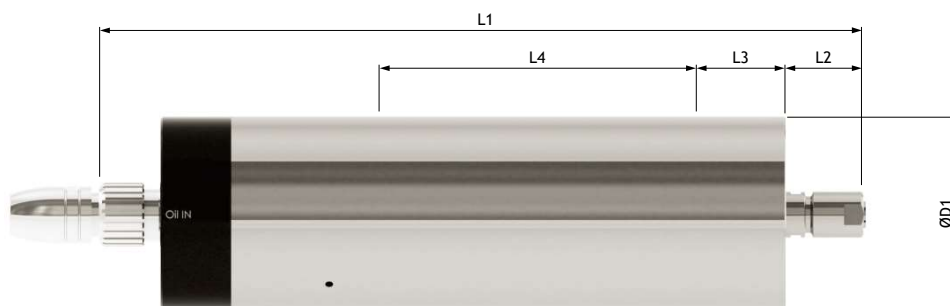
- ▲ 3 m cable
- ▲ 2 chuck keys
- ▲ 1 collet in any dimension (specify on order)

Drive unit

- ▲ Frequency converter, stand-alone unit: SF3000
- ▲ Frequency converter for installation: CDA-3,0
- ▲ Control Box for control of CDA: CONTROL BOX

Spindle model	ØD1 mm	L1 mm	L2 mm	L3 mm	L4 mm	Weight kg	Spindle nose type	Collet max Ø mm
S 30 - 60	80	303	34	43	169	7,0	Spintec 17	8,0
	Effect max kW	Voltage V	Speed max RPM	Speed min RPM	Run-out max mm	Coaxiality max mm	Water flow l / min	Noise level dB
S 30 - 60	2,0	210	60 000	15 000	0,005	0,05	1,2 *	63

* The coolant flow between the spindle and the flowmeter may vary depending on various conditions



HIGH SPEED SPINDLES

Water-cooled spindles

S 33

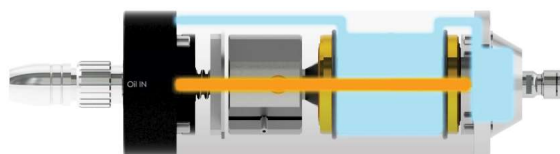


Water-cooled and oil mist lubricated spindle intended for building into machine or automation cells, where power, wide speed range and low noise level are essential. S33 is designed and manufactured with highest precision and accuracy which makes it optimal for internal grinding or other precision high speed machining.

Technical specifications

S 33
Housing:
Stainless steel
Cooling:
Water-cooling
Ball bearings:
Oil-mist lubricated, spring pre-loaded, high performance angular contact ball bearings.
Electrical connection:
6-pin contact with included PTC via frequency converter.
Rotation direction:
Both directions are available
Water connection:
In- and outlet (R 1/8")
Oil mist connection:
Inlet (R 1/8")

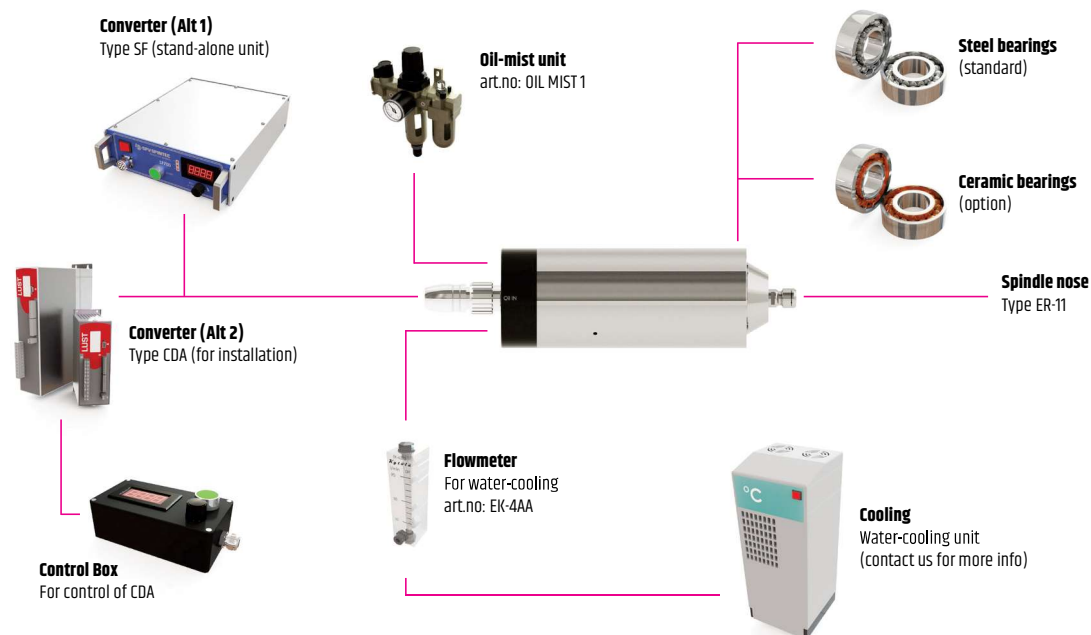
▲ Oil-mist lubrication of both front and rear ball bearings



▲ Efficient water-cooling over the stator and the front ball bearings

HIGH SPEED SPINDLES

Water-cooled spindles



Standard accessories included

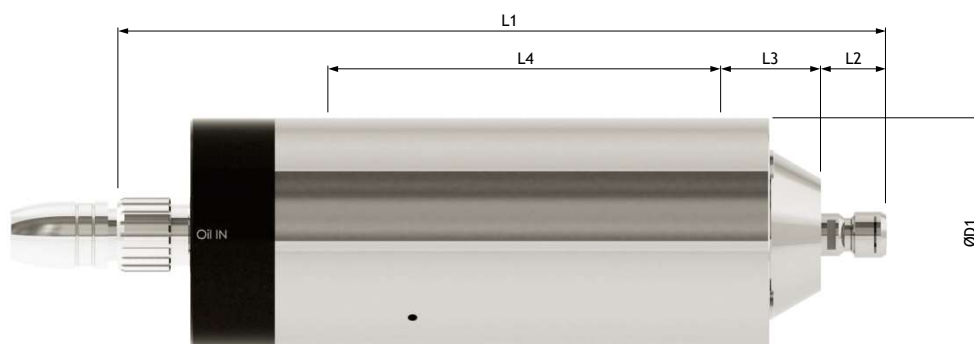
- ▲ 3 m cable
- ▲ 2 chuck keys
- ▲ 1 collet in any dimension (specify on order)

Drive unit

- ▲ Frequency converter, stand-alone unit: SF1500
- ▲ Frequency converter for installation: CDA-1,5
- ▲ Control Box for control of CDA: CONTROL BOX

Spindle model	ØD1 mm	L1 mm	L2 mm	L3 mm	L4 mm	Weight kg	Spindle nose type	Collet max Ø mm
S 33 - 75	80	257	24	35	151	7,0	Regofix ER-11	7,0
	Effect max kW	Voltage V	Speed max RPM	Speed min RPM	Run-out max mm	Coaxiality max mm	Water flow l / min	Noise level dB
S 33 - 75	1,2	192	75 000	25 000	0,005	0,05	1,2 *	64

* The coolant flow between the spindle and the flowmeter may vary depending on various conditions



HIGH SPEED SPINDLES

Water-cooled spindles

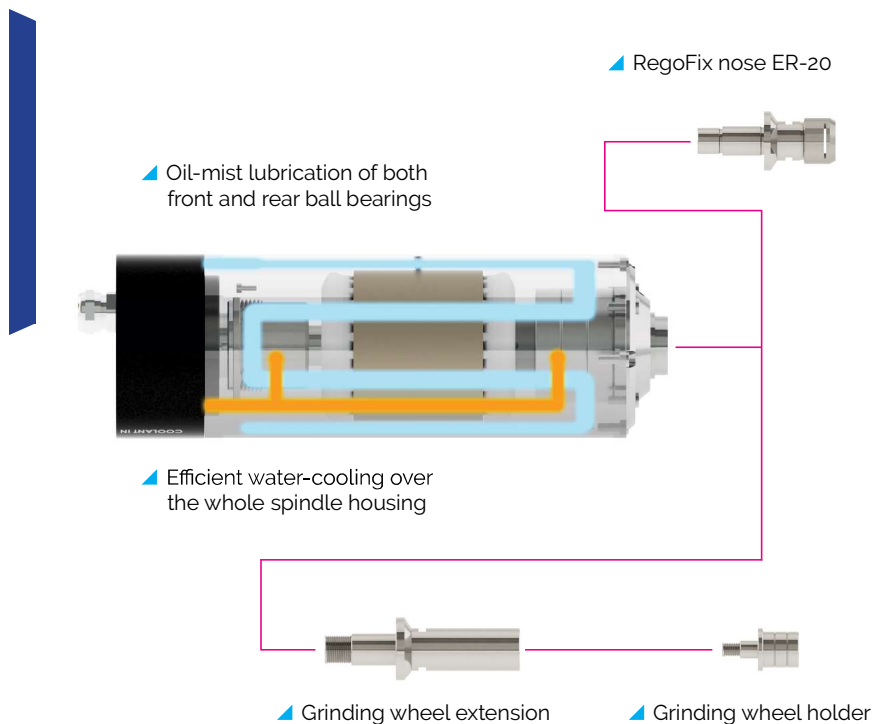
S 50



Water-cooled and oil mist lubricated spindle intended for building into machine or automation cells, where power, wide speed range and low noise level are essential. S50 is designed and manufactured with highest precision and accuracy which makes it optimal for internal grinding or other precision high speed machining.

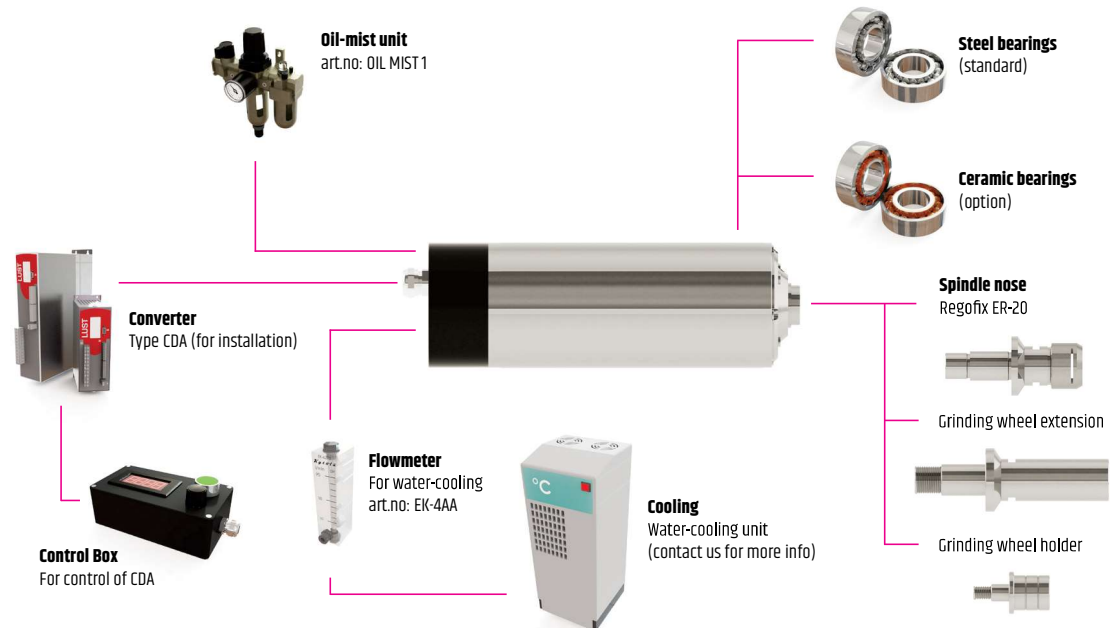
Technical specifications

S 50
Housing:
Stainless steel
Cooling:
Water-cooling
Ball bearings:
Oil-mist lubricated, spring pre-loaded, high performance angular contact ball bearings.
Electrical connection:
6-pin contact with included PTC via frequency converter.
Rotation direction:
Both directions are available
Water connection:
In- and outlet (R 1/8")
Oil mist connection:
Inlet (R 1/8")



HIGH SPEED SPINDLES

Water-cooled spindles



Standard accessories included

▲ 3 m cable

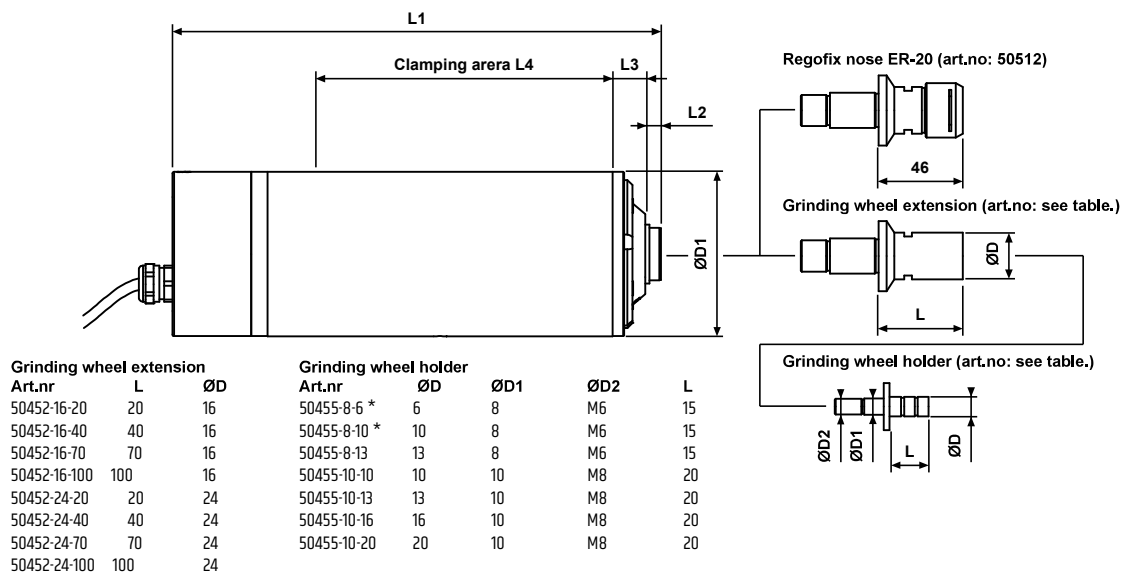
Drive unit

▲ Frequency converter for installation: CDA-5,5

▲ Control Box for control of CDA: CONTROL BOX

Spindle model	ØD1 mm	L1 mm	L2 mm	L3 mm	L4 mm	Weight kg	Spindle nose type		
S 50 - 30	100	298	9	21	150	12,0	See below		
	Effect max kW	Voltage V	Speed max RPM	Speed min RPM	Run-out max mm	Coaxiality max mm	Water flow l / min	Noise level dB	
S 50 - 30	5,0	350	30 000	5 000	0,005	0,05	1,2 *	60	

* The coolant flow between the spindle and the flowmeter may vary depending on various conditions



* Passar till 50452-16-...

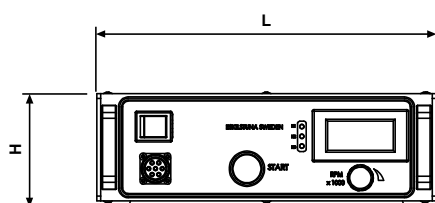
HIGH SPEED SPINDLES

Frequency converters

Model type SF (stand alone unit)



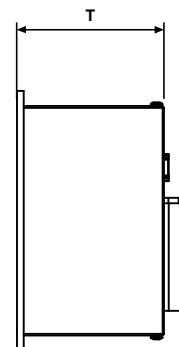
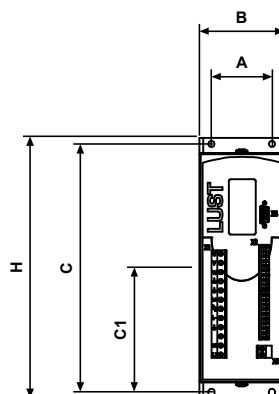
Converter model	SF 700	SF 1500	SF 3000
Voltage input	1-phase 50/60 Hz 230 V	1-phase 50/60 Hz 230 V	3-phase 50/60 Hz 400 V
Fuse	10 Ampere	10 Ampere	----
Output effect, max	750 W	1500 W	3 000 W
Frequency range	0 - 1500 Hz	0 - 1500 Hz	0 - 1500 Hz
Voltage output	3-phase 0 - 220 V	3-phase 0 - 220 V	3-phase 0 - 380 V
Dimensions L	280 mm	280 mm	435 mm
W	385 mm	385 mm	345 mm
H	95 mm	95 mm	95 mm
Weight	4,5 kg	5,0 kg	8,5 kg



HIGH SPEED SPINDLES

Frequency converters

Model type CDA (for instalation)



Converter model	CDA-0,75-1	CDA-1,5-1	CDA-3,0-3	CDA-5,5-3
Voltage input	1-phase 50/60 Hz 230 V	1-phase 50/60 Hz 230 V	3-phase 50/60 Hz 400 V	3-phase 50/60 Hz 400 V
Output effect, max	750 W	1 500 W	3 000 W	5 500 W
Frequency range	0 - 1 500 Hz	0 - 1 500 Hz	0 - 1 500 Hz	0 - 1 500 Hz
Voltage output	3-phase 0 - 220 V	3-phase 0 - 220 V	3-phase 0 - 380 V	3-phase 0 - 380 V
Dimensions A	50 mm	50 mm	40 mm	135 mm
B	70 mm	70 mm	70 mm	150 mm
C	205 mm	230 mm	320 mm	200 mm
C1	---	---	---	100 mm
H	215 mm	240 mm	330 mm	300 mm
T	120 mm	145 mm	150 mm	150 mm
Mounting screws	4 x M4	4 x M4	6 x M5	6 x M5
Weight	1,6 kg	2,3 kg	3,2 kg	5,2 kg

Control Box

By using our Control Box you get the chance for easy handling of start / stop, continuous control of speed and a display which shows the set RPM. There is also a possibility to purchase the components contained for operation



Key Pad

By using a Key Pad KP 300 you can easily change program and adjust the parameter settings for the CDA converters. All data can be saved and downloaded to a SmartCard. (Not included).



HIGH SPEED SPINDLES

Accessories

Collets type Spintec 10 and 17 (for VM 10 / VM 17)

Collet Ø mm	Standard collet Spintec 10 - Art.no	Standard collet Spintec 17 - Art.no
3,0	10570 3,0	17570 3,0
4,0	10570 4,0	17570 4,0
6,0	----	17570 6,0
8,0	----	17570 8,0



High precision collets type Spintec 10 and 17 (for spindles)

Collet Ø mm	High precision collet Spintec 10 - Art.no	High precision collet Spintec 17 - Art.no
3,0	10571 3,0	17571 3,0
4,0	10571 4,0	17571 4,0
6,0	----	17571 6,0
8,0	----	17571 8,0



Collets type RegoFix® ER

Regofix model	Width Ø mm	Length mm	Capacity Ø mm	Collet clamping capacity mm
ER-8	8,5	15,0	0,5 - 5,0	0,5
ER-11	11,5	18,0	0,5 - 7,0	0,5
ER-16	17,0	27,5	0,5 - 10,0	1,0
ER-20	21,0	31,5	0,5 - 13,0	1,0



High speed clamping nut RegoFix®

Nut Art.no	Width Ø mm	Length mm	Thread type
ER-8 MS	12,0	10,8	M10 x 0,75
ER-11 MS	16,0	11,3	M13 x 0,75
ER-16 MS	22,0	17,0	M19 x 1,0
ER-20 MS	28,0	19,0	M24 x 1,0



Wrench for high speed clamping nut RegoFix®

Wrench Art.no	Width mm	Length mm
ER-8 EMS	19,0	76
ER-11 EMS	22,0	100
ER-16 EMS	33,0	130
ER-20 EMS	42,0	140



Other accessories



- Flowmeter for regulation of cooling flow to units with compressed air-cooling. Capacity: 10 - 100 l / min

Art.no: EK-6273



- Flowmeter for regulation of cooling flow to units with water-cooling. Capacity: 0,1 - 1,25 l / min

Art.no: EK-4AA



- Oil-mist lubrication unit for spindles with oil-mist lubricated bearings.

Art.no: OIL MIST1



- Special oil for oil-mist lubrication units, 1 litre

Art.no: P-036997



- System cleaner for cleaning of water-cooled spindle systems, 1 litre. 3% is mixed with water.

Art.no: MOTOREX 02



- Corrosion protection concentrate for water-cooled spindles, 1 litre. 5% is mixed with water.

Art.no: COOLANT-F



- Water-cooling units for spindles: S20, S21, S28, S30, S33 and S50.

Depending on the type of processing and other conductions such as surrounding temperature, we recommend different types of water coolers.

Contact us for more information.

HIGH SPEED SPINDLES

Deburring machine

DB-Matic - For automatic deburring on rotation symmetrical parts.

▲ Deburring spindle

DB-Matic is equipped with a spindle type VM 17 RP, with a stainless steel housing and efficient cooling with compressed air.

▲ High flexibility

To fit your specific type of process the DB-Matic have an amount of different settings for application of the workpiece. Length, turn and angular settings enables deburring on many different types of gear wheels etc. All settings are infinite and very easy to access.

▲ Integration and automation

For quick and easy integration in a robotic cell or automation process the DB-Matic is prepared to be able to communicate with a superior control system.

▲ Uncomplicated operation

The control panel is designed for easy operation, but even so it has many different settings. For example a choice between right or left rotating table, the amount of machining cycles and infinite adjustable speed for both the spindle and the workpiece.

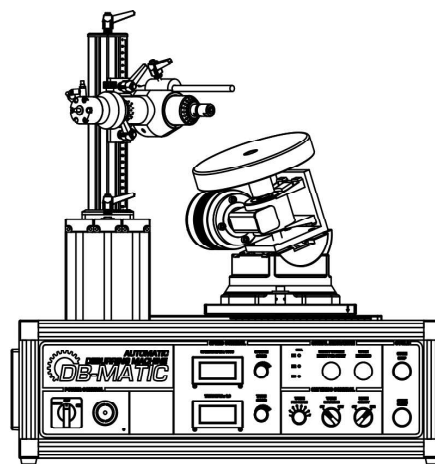
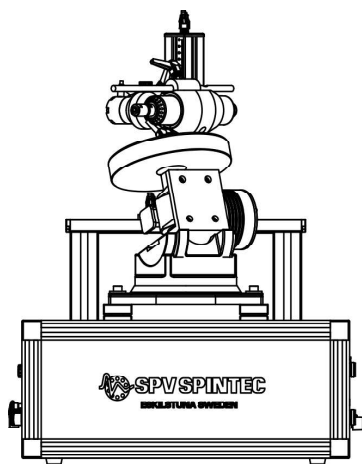
Properties

- For deburring of gear wheels, splines and other rotation symmetrical parts.
- Infinite adjustable length, height and processing angle makes it easy to adapt the process for many different parts.
- Deburring spindle type VM 17 RP with an effect of 0,4 kW and a maximum speed of 54 000 RPM.
- Easy setting of the machining cycle. Infinite adjustment of speed for both the spindle and the workpiece.

HIGH SPEED SPINDLES

Deburring machine

Technical specifications

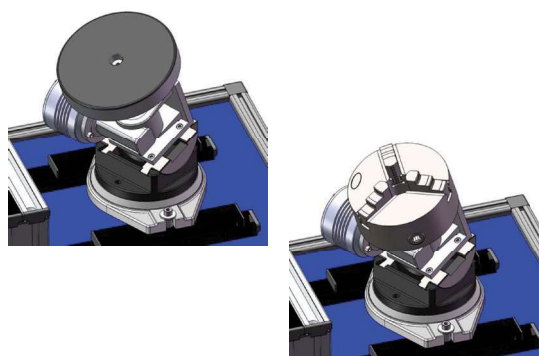


Dimensions	Weight	Working temperature	Input voltage	Frequency	Fuse
L 700 mm	45 kg	+5°C to +45°C	230 VAC	50/60 Hz	6 A (slow)
W 700 mm					
H 600 mm					
Compressed air input	Air consumption	Air hose input	Noise level	Max spindle effect	Max spindle speed
5 - 8 Bar	75 - 100 l / min	Ø6,0 mm	85 db	0,4 kW	54 000 RPM



Options for increased safety

For better personal safety the DB-Matic can be supplied with an enclosed cover which is equipped with magnetic contacts that stops the process if the doors are opened. The safety function can also be adapted to an automation cell etc.



Customized options

As options for the workpiece we offer a blank disc for adapting to fixtures etc. There is also the possibility to get a manual 3-jaw chuck. Choose what fits your type of process in the best way. On request we can also design special fixtures for different products.

Quick-change chucks



QUICK-CHANGE CHUCKS

Jahrts

Operation

By raising the locking sleeve the two sets of balls are released and the different types of inserts can be inserted or removed from the chuck.

When the sleeve is pulled down the insert gets locked in position.

Tool change can occur with both stopped and running machine spindle.

Precision and stability

The design consists of a solid chuck body with an internal taper and locking sleeve. Two sets of three balls serve to lock the inserts.

The first set of balls locks the annular groove on the insert's taper and pulls the insert in axial direction, while the upper sets lock in three of the six semispherical recesses and transfers the torque.

Properties

- The inserts are absolutely stuck
- Runout accuracy better than 0,01 mm
- Minimum space required for changing tool thanks to the possibility of oblique insertion
- For both left- and right-handed tools.
- Works in any spindle position (vertical, horizontal etc.)



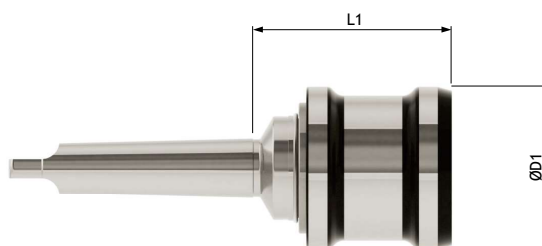
One-hand function - Model 80-4E

A variant of the chuck that has been simplified even further

- The insert is released as described above, by lifting the locking sleeve
- A new tool is applied with one hand since the return of the locking sleeve is done automatically

QUICK-CHANGE CHUCKS

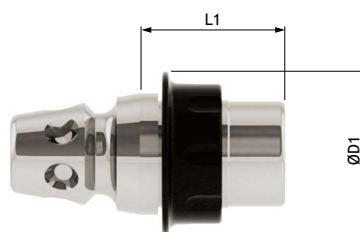
Jahrts



Jahrts Quick-Change Chuck

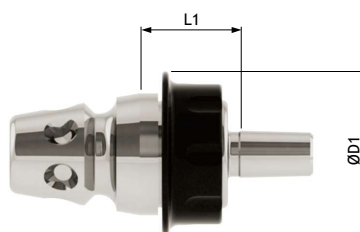
Jahrts model	Mount, taper	L mm	ØD mm	Art.no
80-3	Morse Taper 3	77	65	95143
80-3	Morse Taper 4	76	65	95145
80-4E	Morse Taper 4	93,5	83	95429
80-4E	Morse Taper 5	91	83	98220

* One-hand function



Jahrts Inserts for Morse Taper

Jahrts model	Internal taper	L mm	ØD mm	Art.no
80-3	Morse Taper 1	29	52	95164
80-3	Morse Taper 2	29	52	95165
80-3	Morse Taper 3	43	52	95166
80-4	Morse Taper 1	34	63	95167
80-4	Morse Taper 2	34	63	95168
80-4	Morse Taper 3	34	63	95169
80-4	Morse Taper 4	65	63	95170



Jahrts Inserts for chucks with internal B-taper

Jahrts model	External taper	L mm	ØD mm	Art.no
80-3	B16	33	52	95187
80-4	B16	38	63	95189

