

# S 21, S 30 & S 33

**Water cooled and Oil mist lubricated spindles** are intended for building into machines, where power, wide speed range and low noise levels are essential.

As motors are manufactured to the highest possible standards with all rotating parts dynamically balanced spare parts are fully interchangeable thus ensuring consistent performance.

When servicing becomes necessary it is recommended that spindles and converters be returned to our factory.

## STANDARD EXECUTION

### HOUSING

Stainless steel



### COOLING

Water cooling



### BEARINGS

Oil mist lubricated, spring preloaded, high precision angular contact ball bearings.



### ELECTRICAL CONNECTION

6-pole contact with PTC through converter



### WATER/OIL MIST CONNECTION

Connections at the back for inlet and outlet (R 1/8")



### ROTATION DIRECTION

Possible to run in both directions



### ACCESSORIES

Case

Connection cable (3 m)

2 off chuck wrenches

1 off collet

## SPECIAL EXECUTION

Ceramic ball bearings



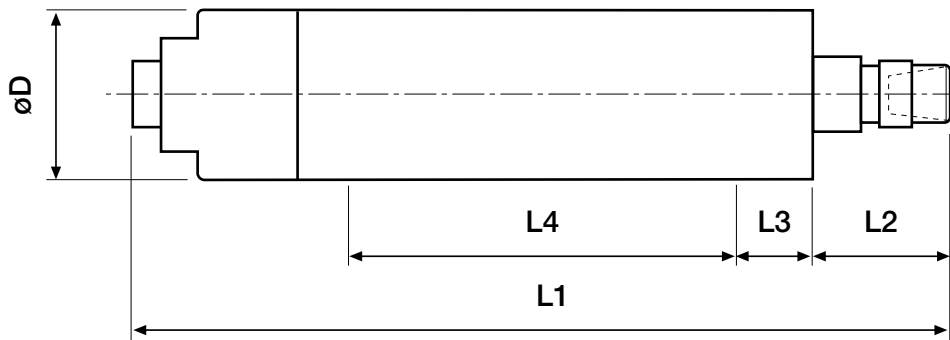
Spindle nose with regofix collet  
ER 11 (max 7,0 mm)

**rsp** robot system  
products

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# S 21, S 30 & S 33



Technical Specifications	S 21-60	S 21-90	S 30-60	S 33-75
Dimensions, mm				
D (h6)	60	60	80	80
L1	259	229	303	257
L2 (incl. collet)	36	29	34	24
L3	25	20	43	35
L4	168	125	169	151
Weight, kg	3,5	2,9	7,0	7,0
Spindle nose type	17	Regofix, ER 8	17	Regofix, ER 11
Included collet (ø)	6,0	3,0	6,0	6,0
Max. collet diameter (ø)	8,0	5,0	8,0	7,0
Output, max kW	0,70	0,40	2,00	1,20
Voltage, Band	Öberg/S2 ***	Öberg/S2 ***	Nema 5	Nema 6
Speed, max rpm	60.000	90.000	60.000	75.000
Speed, min rpm	15.000	30.000	15.000	25.000
Max run-out (mm)	0,005	0,005	0,005	0,005
Max coaxiality (mm)	0,05	0,05	0,05	0,05
Water consumption (l/min) *	0,6	0,6	1,2	1,2
Noise level (dBa)	60	60	63	64

Accessories	S 21-60	S 21-90	S 30-60	S 33-75
Converter	SF 750/SF 700 ***	SF 750/SF 700 ***	SF 1500	SF 1500
Water regulator (0,1-1,25 l/min)	EK-4AA	EK-4AA	EK-4AA	EK-4AA
Cooling system **	PWK 17-S	PWK 17-S	PWK 17-S	PWK 17-S
Oil mist regulator	Oil mist 1	Oil mist 1	Oil mist 1	Oil mist 1

## CE-approval / EMC test

All SPINTEC products are CE-approved and EMC-tested acc. to EMC directive 89/336/EEC with test according to EN 50 081-2 (1993) & EN 50 082-2 (1995)

\* Depending of the surrounding temperature etc.

\*\* In locations where the surrounding temperature exceeds 25°C or when the spindle works continuously with a high output (>80% of max. output) we recommend using the PHK 1025

\*\*\* High voltage (max 240V)

We reserve the right to make alterations in design.



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