



## Technical data

<b>Type (with ZG collet)</b>		<b>• ES 280 ZG</b>	<b>• ES 200 ZG</b>	<b>• ES 170 ZG</b>
Order-No.		29924-53-7	60008-31-7	29924-45-7
<b>Type (with ER collet)</b>		<b>• ES 280 ER</b>	<b>• ES 200 ER</b>	<b>• ES 170 ER</b>
Order-No.		29924-52-7	60008-32-7	29924-44-7
Free speed	rpm	28 000	20 000	15 000
Motor power	Watt	380	400	800
Direction of rotation *		clockwise	clockwise	clockwise
Exhaust air **		to the rear	to the rear	to the rear
• ZG collet included	mm	6	6	8
• ZG collets available	mm   "	3   5   8   1/4"	3   5   8   1/4"	3   5   6   1/4"   10
• ER collet included	mm	6	6	8
• ER collets available	mm	3   5   8   10	3   5   8   10	3   5   6   10
Carbide burrs	max. mm	10	12	15
Mounted points and wheels	max. mm	16	25	32
Noise level	dB(A)	80	72	86
Air consumption	l/sec	11.5	8.5	15.8
Weight	kg	0.75	1.10	1.65
Connection air supply (hose)	∅ mm, inside /outside	10   12	10   12	10   12

Power and free speed at 6 bar operating pressure. Compressed air quality: lubricated (2–3 drops per minute).

\* Direction of rotation: *counterclockwise* on request | \*\* Exhaust air: with *guided exhaust air* upon request

- For installation in transfer lines, machine tools and robot stations
- Stainless steel housings
- Stainless steel spindles
- With collet chuck or precision collet chuck
- High true-running accuracy
- Paired bearings for longer tool life time and better running characteristics
- With splashguard to prevent penetration of dust, water or metal chips