

RoboCut | High speed spindles For finishing and high precision deburring



ESR 1000 FW



ESR 855 FW



ESR 551 FW

Technical data

RoboCut		ESR 1 000	ESR 855	ESR 551
Order-No.		60007-42-5	60007-38-5	60007-39-5
RoboCut		ESR 1 000 FW	ESR 855 FW	ESR 551 FW
Order-No.		29948-71-5	29948-67-5	29948-66-5
Compressed air		non-lubricated	lubricated	lubricated
Free speed	rpm	100 000	80 000	55 000
Motor power	Watt	100	100	100
Radial compliance		± 4°	± 4°	± 4°
Exhaust air		to the front	to the front	to the front
ZG collet included	mm	3	3	3
ZG collets available	mm	1.0 1.5 2.0 2.5 3/32" 1/8"	1.0 1.5 2.0 2.5 3/32" 1/8"	1.0 1.5 2.0 2.5 3/32" 1/8"
Pre-adjusted compliance force		5–7 N	5–7 N	5–7 N
Compliance force range *		4–12 N	3–12 N	3–12 N
Direction of rotation		clockwise	clockwise	clockwise
Noise level	dB(A)	70	86	78
Air consumption	l / sec	5.3	2.3	2.3
Weight	kg	0.82	0.66	0.57
Connection air supply (hose)	∅ mm, inside /outside	2.7 4	2.7 4	2.7 4
Accessories supplied		wrench, spring sets	wrench, spring sets	wrench, spring sets

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

* ESR 1 000, ESR 855, ESR 551: Compliance force is set by precision pressure regulator.

All types

- High true-running accuracy for long endurance running
- High revolution speed for excellent surface finishing

ESR 1000 FW, ESR 855 FW, ESR 551 FW

- Different compliance forces by simply changing the springs being supplied with the tool (special compliance forces upon request)

ESR 1000 FW

- For **non-lubricated use**, practically wearless, with floating spindle support
- Easy to service turbine motor
- Ideal for plastics and other materials which require non-lubricated and clean air

ESR 1000, ESR 855, ESR 551

- The force of compliance can be set and adjusted precisely by using a **precision pressure regulator** (see page 31).