

Drive Units

RNA drive units offer reliability and endurance. The use of high performance magnets give a continuous high feed rate regardless of the number of parts in the bowl. RNA drive units are renowned for their durability, smooth feed characteristics and low noise levels.

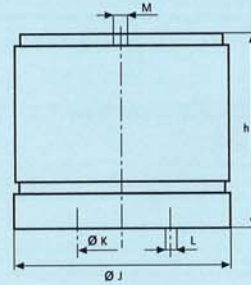


SRC-N 63-2
SRC-N 100-2

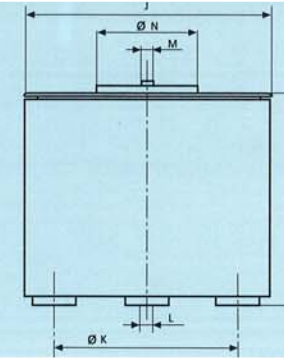
Electrical Equipment

Supply Voltage 200V 50 Hz
Protection class IP54

Output vibrating frequency: -1=50 Hz/3000 min⁻¹
-2=100 Hz/6000 min⁻¹



SRC-N 160-2
SRC-N 200-2
SRC-B 200-2



Drive Units



Application area for 50 Hz vibration frequency (-1 design)

- for heavy additional mass at the bowl (f.e. extensive orienting devices)
- for minor noise emission
- drive unit will be more damageable by heavy loading (filling weight) as by -2 design

Application area for 100 Hz vibration frequency (-2 design)

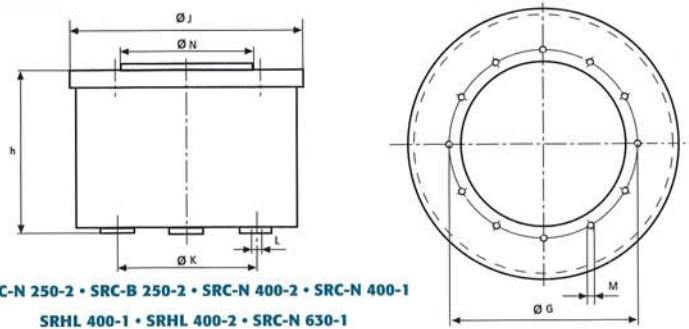
- if "fine" orienting devices are needed for small sort criterions of the work pieces
- better for critical cutting site passage (small vibrating cast of the work pieces)

Standard nominal tension 200 V/50 Hz. Also available in special nominal tensions 110 V/220 V and frequencies 50 Hz/60 Hz.

SRHL The bowl feeder type SRHL 400 is a very efficient drive unit and is recommended for use with heavy tooling and high feed requirements.

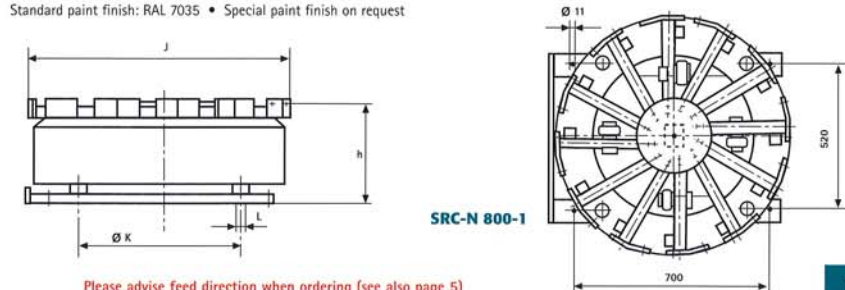
Type	SRC-N 63-2	SRC-N 100-2	SRC-N 160-2	SRC-N 200-2	SRC-B 200-2**	SRC-N 250-2	SRC-B 250-2**	SRC-N 400-1	SRHL 400-1	SRC-N 630-1	SRC-N 800-1
h = Drive unit height/ Top casting	65	82	133	165	165	218	218	231	255	228	315
J = Drive unit diameter	60	90	157	180	180	290	290	440	470	660	826
K = Pitch between mountings/ no. of bores	40/2	70/3	120/3	130/3	130/3	220/3	220/3	350/3	350/3	560/3	735
L = Thread dimensions	M4	M4	M6	M6	M6	M8	M8	M10	M10	M10	M10
M = Bowl fixing	M5	M5	M8	M8	M8	M6 8 x 45*	M6 8 x 45*	M6 12 x 30*	M6 12 x 30*	M6 12 x 30*	-
N = Shoulder diameter	-	-	150	161	161	165	165	300	300	500	-
G = Bolt circle (Bowl fastening)	-	-	-	-	-	186	186	320	320	525	-
Drive unit weight [kg]	0.8	1.8	7	11	11	40	40	103	140	168	270
Rating in amps [A]	0.04	0.055	0.55	1.2	1.2	2.6	2.6	3.75[...-1] 4.05[...-2]	5.7[...-1] 5.3[...-2]	5	8.5
Length of connection cable* [m]	1.4	1.4	1.4	1.4	1.4	0.5	0.5	0.5	0.5	0.5	1.4

Adapter plates for strange bowls see page 23-1

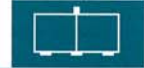


* Longer connection cables are available upon request • ** Extra springs for larger capacity

Standard paint finish: RAL 7035 • Special paint finish on request

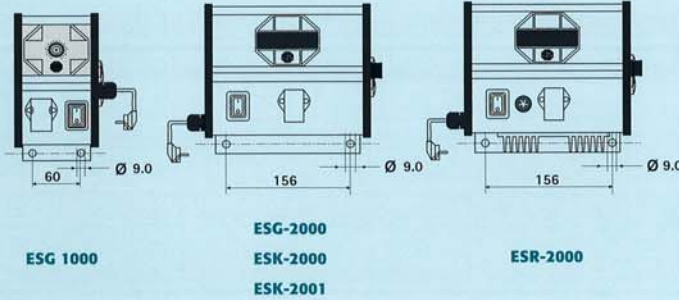


Please advise feed direction when ordering (see also page 5)
Subject to manufacturing tolerances.



Control Boxes

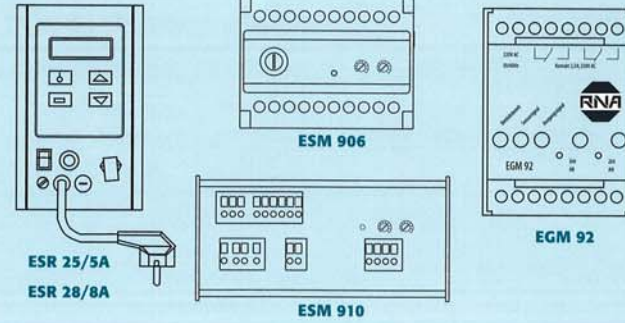
RNA provides state of the art controllers for all vibratory drive units. These range from low cost units to self calibrating, high-tech controllers using microprocessor technology to control external sensors and provide communication signals. These are specially designed to meet the requirements of the bowl feeder industry. All controllers are CE approved.



ESG 1000

ESG-2000
ESK-2000
ESK-2001

ESR-2000



ESR 25/5A
ESR 28/8A

ESM 906

ESM 910

EGM 92

Control Boxes



Modular for integration in switch cabinets

Type	ESG 1000	ESG-2000	ESK-2000	ESK-2001	ESR 2000	ESR 25/5A*	ESR 28/8A	ESM 906	ESM 910	EGM 92
Mains voltage	230 V AC, 50/60 Hz, +20 %/-15 % 110 V AC, 50/60 Hz, +10 %/-10 %	230 V AC, 50/60 Hz, +20 %/-15 % 110 V AC, 50/60 Hz, +10 %/-10 %	230 V AC, 50/60 Hz, +20 %/-15 % 110 V AC, 50/60 Hz, +10 %/-10 %	230 V AC, 50/60 Hz, +20 %/-15 % 110 V AC, 50/60 Hz, +10 %/-10 %	230 V AC, 50/60 Hz, convertible to 110 V AC 50/60 Hz	230 V AC 50/60 Hz, convertible to 110 V AC 50/60 Hz	230 V AC 50/60 Hz, convertible to 110 V AC 50/60 Hz	230 V AC, 50/60 Hz +6 % / -10 % 110 V AC, 50/60 Hz +6 % / -10 %	230 V AC, 50/60 Hz +6 % / -10 % 110 V AC, 50/60 Hz +6 % / -10 %	230 V AC, 50/60 Hz -+10 % on request
Output voltage	0 ... 208 V _{eff} / 230 V AC 20 ... 105 V _{eff} / 110 V AC	0 ... 208 V _{eff} / 230 V AC, 0 ... 98 V _{eff} / 110 V AC	0 ... 208 V _{eff} / 230 V AC, 0 ... 98 V _{eff} / 110 V AC	0 ... 208 V _{eff} / 230 V AC, 0 ... 98 V _{eff} / 110 V AC	0 ... 208 V _{eff} / 230 V AC 20 ... 105 V _{eff} / 110 V AC	0 ... 210 V _{eff} / 230 V AC 20 ... 105 V _{eff} / 110 V AC	0 ... 210 V _{eff} / 230 V AC 20 ... 105 V _{eff} / 110 V AC	0 ... 220 V _{eff} / 230 V AC 0 ... 105 V _{eff} / 110 V AC	0 ... 220 V _{eff} / 230 V AC 0 ... 105 V _{eff} / 110 V AC	- -
Control method	Phase angle control	Phase angle control	Phase angle control	Phase angle control	Variable frequency PWM	Variable frequency PWM	Variable frequency PWM	Phase angle control	Phase angle control	-
Load current max. channel 1+2	-	-	-	10 A _{eff} / 4 A _{eff}	-	-	-	-	-	-
Load current max.	6 A _{eff}	10 A _{eff}	10 A _{eff}	10 A _{eff}	6 A _{eff}	5.5 A _{eff}	8.5 A _{eff}	6 A _{eff}	10 A _{eff}	-
Load current min.	80 mA	80 mA	80 mA	80 mA	80 mA	60 mA	60 mA	-	-	-
Internal fuse	microfuse 5x20, 6.3 A slow	F 1 = 10 A	F 1 = 10 A	F 1 = 10 A / F 2 = 4 A	F 1 = 10 A	-	-	-	-	-
Soft start/stop time	Soft start is adjustable and can be turned off	0 ... 5 sec. independently adjustable	0 ... 5 sec. independently adjustable	0 ... 5 sec. independently adjustable	0 ... 5 sec. independently adjustable	0 ... 5 sec. independently adjustable	0 ... 5 sec. independently adjustable	0 ... 5 sec. independently adjustable	0 ... 5 sec. independently adjustable	0 ... 5 sec. independently adjustable
External speed control	-	-	0 ... 10 V DC	0 ... 10 V DC	0 ... 10 V DC	-	-	0 ... 10 V oder Poti 10 / k Ω	-	-
Sensor inputs	-	-	2	2	2	1	1	-	-	-
Remote control input	contact or 24 V DC	24 V DC (10-24 V DC)	24 V DC (10-24 V DC)	24 V DC (10-24 V DC)	24 V DC (10-24 V DC)	extend. with add. print	-	Potential free contact / 12 ... 24 V DC, Ri 10 k Ω	-	-
Sensor power supply	-	-	24 V DC, max. 60 mA (per sensor)	24 V DC, max. 60 mA (per sensor)	24 V DC, max. 60 mA (per sensor)	each 24 V DEC, max. 60 mA	each 24 V DEC, max. 60 mA	0 ... 20 mA / 0 ... 10 V or Poti 10 / k Ω	24 V / 100 mA	-
Sensor delay On	-	-	0 ... 60 sec.	0 ... 60 sec.	0 ... 60 sec.	-	-	0 ... 60 sec.	-	-
Sensor delay Off	-	-	0 ... 60 sec.	0 ... 60 sec.	0 ... 60 sec.	-	-	0 ... 60 sec.	-	-
Outputs	-	2 Optocouplers	2 Relay / 2 Optocouplers	2 Relay / 2 Optocouplers	2 Relay / Optocouplers	-	-	2/0 PTO couplers	-	Relay point 2x voltage-free changeover contact
Status output (optocouplers)	-	max. 30 V DC 10 mA	max. 30 V DC 10 mA	max. 30 V DC 10 mA	max. 30 V DC 10 mA	24 V, 50 mA	24 V, 50 mA	30 V 0.1 A DC	30 V 0.1 A DC	-
Relay output contacts	-	-	max. 6 A 250 V AC	max. 6 A 250 V AC	max. 6 A 250 V AC	-	-	-	-	max. 6 A 250 V AC
Operating temperature	0 ... 50 °C	0 ... 50 °C	0 ... 50 °C	0 ... 50 °C	0 ... 50 °C	0 ... 40 °C	0 ... 40 °C	0 ... 45 °C	0 ... 45 °C	0 ... 50 °C
Protection class	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 20	IP 20	IP 30
Dimensions W x H x D	80 x 190 x 140	192 x 180 x 132	192 x 180 x 132	192 x 180 x 132	192 x 180 x 132	140 x 220 x 160	140 x 220 x 160	104 x 77 x 112	150 x 74 x 109	55 x 75 x 110

* Also available with reduced output current 0.6 A and 1.8 A, suitable for small drive units.