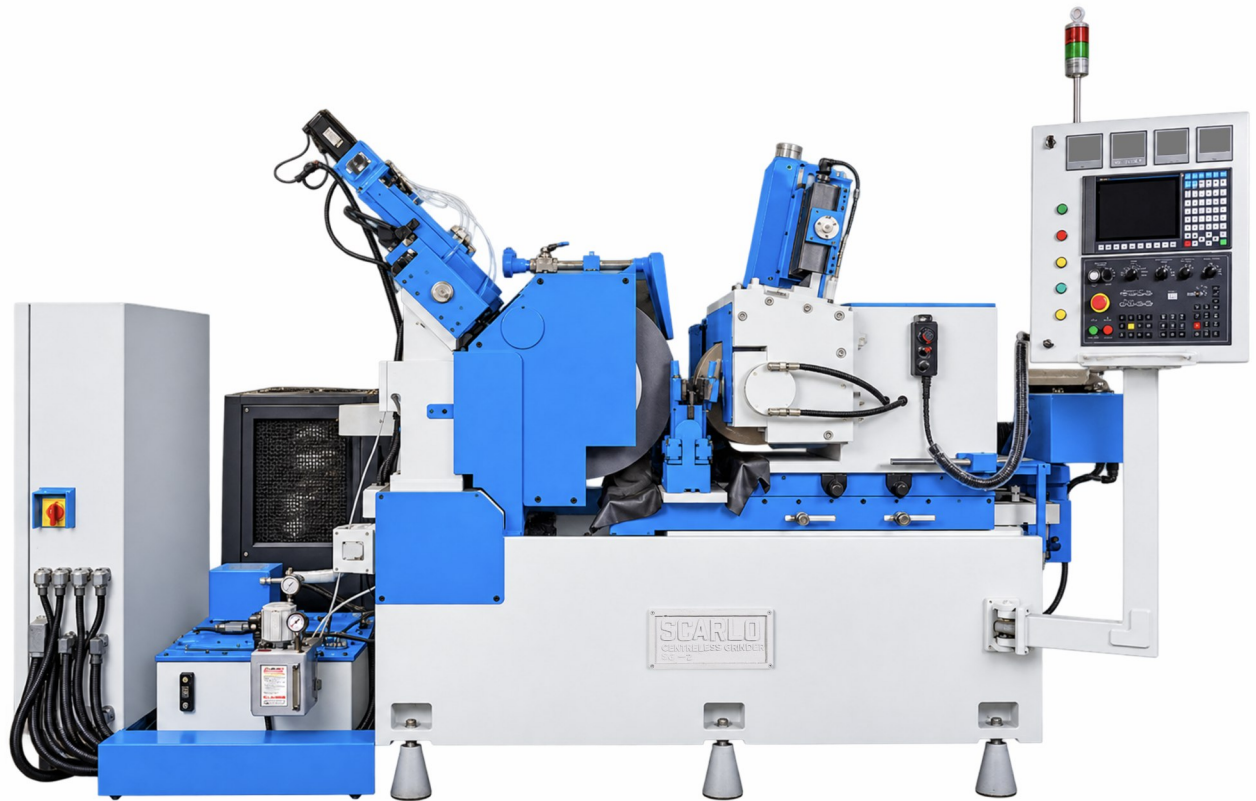




Salient Features :

- One piece rugged Machine Base casting which hosts grinding wheel spindle.
- Ceramic Coated Spindles for both wheels.
- Trouble free segment type hydrodynamic Babbitt bearings at both ends for grinding wheel spindle.
- Optional provision for AC Variable speed drive for grinding wheel spindle.
- Twin grip regulating wheel design supported on Babbitt bearings with AC variable speed drive.
- Continuous lubrication for both spindles.
- Automatic spindle oil temperature cut-off mechanism to protect spindle assemblies.
- Float switch mechanism upon oil return for spindle dry run protection.
- Automatic lubrication to slide ways of upper and lower infeed slide.
- Automatic lubrication for grinding & regulating wheel truing units.
- Hydraulic or servo with electric profile truing for both wheels.
- High precision ground ball screw for infeed axis movement.
- High precision ground ball screws for all dresser servo controlled axis movements.
- Swivel type regulating wheel truing unit which is independent from regulating wheel swivel.
- Air cooled / Refrigerant type heat exchanger for spindle oil.
- Hydraulic power packs for spindle lubrication and dressing units.
- Antifriction linear bearing assembly for infeed slide ways.
- Antifriction linear bearing assembly for grinding wheel dresser slides
- Antifriction diamond advance slide ways for both truing units.
- Spiral drum assembly in place of control wheel housing for taper roller OD grinding conversion available for models SG2 & SG300

Scarolo Centreless Grinding Model	UNIT	SG1	SG2	SG300	SG500
Grinding Range (Dia)	mm	1 to 100	1 to 150	1 to 150	1 to 150
Max length for infeed grinding	mm	150	250	300	500
Grinding Wheel size(Dia x Width x ID)	mm	400 × 150 × 228.6	600 × 250 × 304.8	600 × 300 × 304.8	600 × 500 × 304.8
Regulating wheel (Dia x Width x ID)	mm	230 × 150 × 101.6	350 × 250 × 152.4	350 × 300 × 152.4	350 × 500 × 152.4
Grinding Wheel Peripheral Speed	m/sec	33 or 45 (Optional)	33 or 45 (Optional)	33 or 45 (Optional)	33 or 45 (Optional)
Regulating Wheel Speed Range	rpm	0 to 200	0 to 200/300	0 to 300	0 to 300
Grinding Wheel motor power	hp	15	20	30	40
Regulating Wheel motor power	hp	3	5	7.5	7.5
Spindle Lubrication Pump motor	hp	0.25	0.25	2	2
Dresser actuation pump motor	hp	1	1	Electric	Electric
One shot slide lubrication motor	hp	0.125	0.125	0.125	0.125
Coolant Pump motor	hp	0.25	0.5	0.5	1
Coolant pump displacement capacity	lpm	70	150	250	250
Heat Exchanger pump motor	hp	0.1	0.1	0.1	0.1
Infeed Slide feed graduation	mm	0.02	0.02	0.02	0.02
Infeed Slide graduation with servo (opt)	mm	0.001	0.001	0.001	0.001
AC inverter for grinding wheel spindle (opt)	hp	15	20	30	40
AC inverter for regulating wheel spindle (standard)	hp	3	5	7.5	7.5
Regulating wheel tilt angle	deg	0 to +5	0 to +5	0 to +5	0 to +5
Regulating wheel dresser diamond offset range	mm	0 to 15	0 to 15	0 to 15	0 to 15
Grinding Wheel dresser least count (diamond)	mm	0.02	0.02	0.02	0.02
Grinding Wheel diamond advance (servo)	mm	0.001	0.001	0.001	0.001
Infeed slide movement servo motor (size)	Nm	11	14/16	19	22
Servo rating for g. w. dresser traverse	Nm	3	3	3	3
Servo rating for g. w. ram advance	Nm	3	3	3	3
Total Peak Power consumption	hp	20	27	41	51
Machine overall size approximate (WxLxH)	mtrs	2.0 × 3.0 × 3.0	3.0 × 4.0 × 3.0	5.0 × 4.0 × 3.0	5.5 × 5.0 × 3.0
Machine total weight - approximate	kgs	3000	5000	6500	9000

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