

UPT

(URYU Pneumatic Tools)

4"(100mm) & 5"(125mm) VERTICAL GRINDERS & SANDERS (Non-governed)

These handy and compact grinders/sanders are of gear-less and governor-less simplified design offering powerful, durable, and smooth operation. Detachable SILENCER is available only for USG-4VL and USG-5VL to reduce exhaust noise level considerably.

Rubber Pads and Sanding Papers can be equipped with the same adapters for grinding wheel to convert these tools into Sanders.

4" RUBBER PAD for Sanding (Option)



Code No. 554-406-1

MODEL USG-4VL

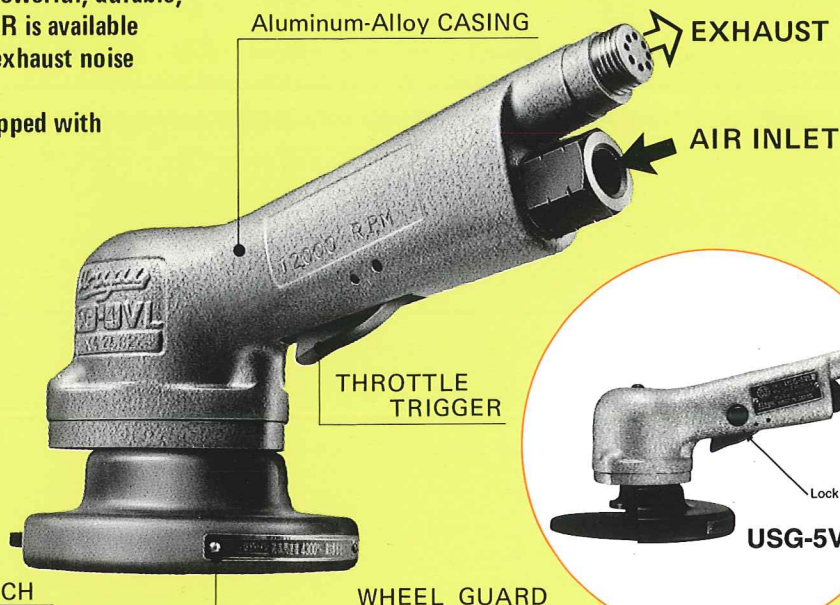
4" Disc Wheel

12,000 r. p. m

USG-5VL

5" Disc Wheel

10,500 r. p. m



GREASE PLUG

THROTTLE SWITCH



MODEL USG-4V

4" Disc Wheel

12,000 r. p. m

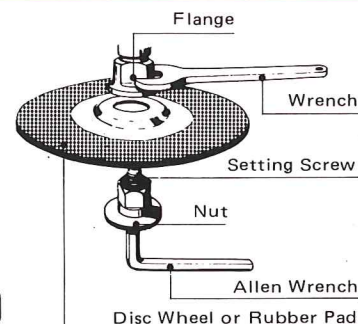
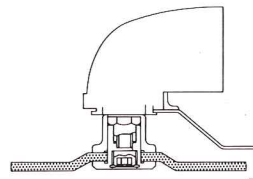
USG-5V

5" Disc Wheel

10,500 r. p. m

URYU Unique mounting devices for disc wheels and Rubber Pad.

The same mounting adapters can be used for both wheels and rubber pads.



IMPORTANT!!

- ★ **Wheel Guard & Flanges:** — Use Wheel Guard and Flanges designed under local safety regulations.
- ★ **Grinding Wheel:** — Use resinoid wheels of suitable size, shape, quality and strength to the speed of the Grinders. Handle with care to avoid dropping and bumping.
- ★ **Speed:** — Check the Spindle speed frequently.
- ★ **Air Pressure:** — 85 psi (6 kg/cm²) Air Pressure is recommended for the most efficient performance. Too high air pressure will cause damage.
- ★ **Lubrication:** — **For Air Motor** — Supply light Spindle Oil properly through Air Inlet or Line Oiler every before and after operation. (For example MOBIL SPINDLE OIL NO.1, SHELL SPINDLE OIL 60 and or equivalent.) **For Bearing** — Supply recommended high quality Grease properly (for examples, SHELL ALVANIA NO.2, MOBILPLEX 2 and or equivalents) once every three months and when the tool is overhauled. Over-greasing will cause dull motion or heating.
- ★ **Dry & Clean Air:** — Drain daily, and install filter at or near the take-off point to prevent trouble from foreign matter.
- ★ **Air Hose & Joints:** — Use Air Hose (the shorter, the better), Joints and other fittings of good condition and of proper size to avoid pressure drop.
- ★ **Genuine Parts:** — Use only URYU's genuine spare parts for replacement.
- ★ **Regular Overhaul:** — At least once every three months regular or periodical overhaul by a competent person is needed for best performance and trouble-less operation.

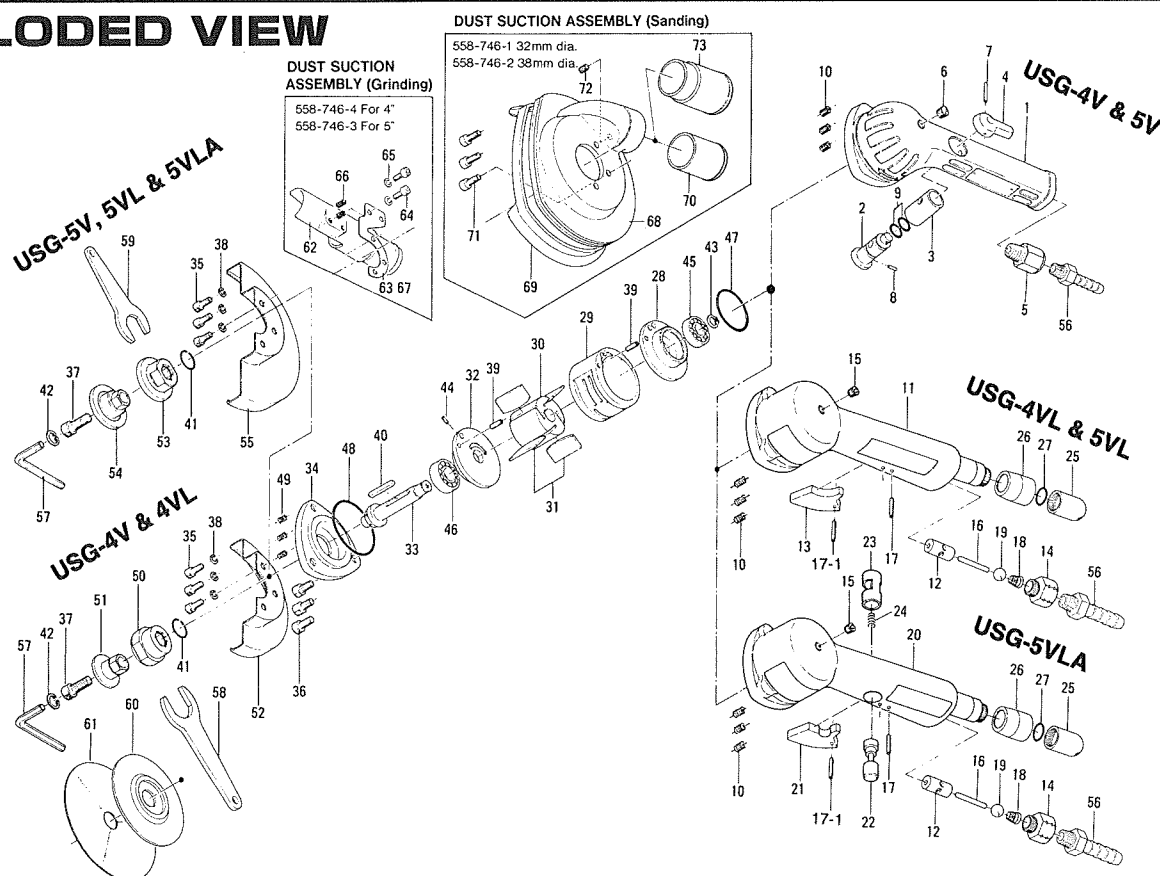
SPECIFICATIONS

MODEL	Capacity (Wheel Size)		Free Speed without Silencer (about)	Overall Length (about)		Weight less Wheel (about)		Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption (about)	
	in	mm		in	mm	lb	kg		in	mm	ft ³ /min	m ³ /min
USG-4V	4 ¹⁵ / ₁₆ × 5 ⁵ / ₃₂	100 × 16 × 4	12,000	7 ⁵ / ₁₆	185	3.1	1.40	N.P.T. 1/4	3/8	9.5	28.0	0.80
USG-4VL	4 ¹⁵ / ₁₆ × 5 ⁵ / ₃₂	100 × 16 × 4	12,000	8 ²¹ / ₃₂	220	3.1	1.40	N.P.T. 1/4	3/8	9.5	30.0	0.85
USG-5V	4 ⁵⁹ / ₆₄ × 5 ⁵⁵ / ₆₄ × 1 ¹⁵ / ₁₆	100 × 22 × 6	10,500	7 ⁵ / ₁₆	185	3.2	1.45	N.P.T. 1/4	3/8	9.5	28.0	0.80
USG-5VL	4 ⁵⁹ / ₆₄ × 5 ⁵⁵ / ₆₄ × 1 ¹⁵ / ₁₆	125 × 22 × 6	10,500	8 ²¹ / ₃₂	220	3.2	1.45	N.P.T. 1/4	3/8	9.5	30.0	0.85
USG-5VLA	4 ⁵⁹ / ₆₄ × 5 ⁵⁵ / ₆₄ × 1 ¹⁵ / ₁₆	125 × 22 × 6	10,500	8 ²¹ / ₃₂	220	3.2	1.45	N.P.T. 1/4	3/8	9.5	30.0	0.85

Standard Accessories: Air Hose Nipple, Spanners. Air Pressure : 85 psi. (0.6MPa)

USG-4V,4VL,5V,5VL & 5VLA VERTICAL GRINDERS

EXPLODED VIEW



PARTS LIST

Index. No.	Code No.	Parts Name	Quantity	Index. No.	Code No.	Parts Name	Quantity	Index. No.	Code No.	Parts Name	Quantity
555-004-1 CASING ASSEMBLY for USG-4V & 5V				# 25	606-780-1	Exhaust Stack	1	For USG-4V & 4VL			
# 1	555-025-1	Casing	1	# 26	612-778-0	Nylon Protector	1	# 58	936-054-0	Spanner (29×4.76×150)	1
# 2	555-100-1	Valve	1	# 27	990-912-0	O Ring (SNS-14)	1	For USG-5V, USG-5VL & 5VLA			
# 3	555-101-1	Valve Bushing	1	# 28	555-285-1	Rear Plate	1	# 59	936-521-0	Spanner(21)	1
# 4	555-107-1	Valve Switch Lever	1	# 29	555-286-1	Cylinder	1	OPTIONAL ACCESSORIES			
# 5	942-114-0	Connecting Screw (1/4×NPT1/4)	1	# 30	555-287-1	Rotor	1	For USG-4VL & 5VL			
# 6	966-022-0	Oil Plug (1/8)	1	# 31	555-288-1	Blade	4	# 25	606-780-1	Exhaust Stack	1
# 7	971-120-0	Pin (2×20)	1	# 32	555-289-1	Front Plate	1	# 26	612-778-0	Nylon Protector	1
# 8	973-006-0	Roll Pin (2×6)	1	# 33	547-390-1	Wheel Spindle	1	# 27	990-912-0	O Ring (SNS-14)	1
# 9	990-008-0	O Ring (P-10)	2	# 34	555-065-1	Casing Front Cover	1	For USG-4V & 4VL			
# 10	965-020-0	Heli-Sert (M6×1D)	3	# 35	945-110-0	Allen Head Bolt (M5×10)	3	# 60	554-406-1	Rubber Pad	1
558-004-6 CASING ASSEMBLY for USG-4VL & 5VL				# 36	945-208-0	Allen Head Bolt (M6×8)	3	# 61	998-002-0	Emery Paper	1
# 11	558-025-6	Casing	1	# 37	945-990-0	Hexagon Socket Bolt (M8×18)	1	558-746-4 Dust Suction Assembly for Grinding			
# 12	063-102-1	Valve Bushing	1	# 38	962-008-0	Spring Washer(2-5S)	2	# 62	558-542-3	Dust Receiver	1
# 13	085-107-1	Throttle Trigger	1	# 39	973-162-0	Roll Pin (3.5×12)	3	# 63	558-079-4	Joint Arm	1
# 14	185-091-7	Air Inlet Bushing	1	# 40	974-130-0	Key (4×30)	1	# 64	945-110-0	Allen Head Bolt (M5×10)	2
# 15	966-022-0	Oil Plug (1/8)	1	# 41	978-170-0	Snap Ring (17×1)	1	# 65	962-008-0	Spring Washer(2-5S)	2
# 16	970-337-0	Pin (4×36)	1	# 42	979-314-0	Inner Snap Ring (IRTW-14)	1	# 66	965-011-0	Heli-Sert (M5×1.5D)	2
# 17	973-122-0	Roll Pin (3×22)	1	# 43	979-107-0	Outer Snap Ring (10)	1	For USG-5V, 5VL & 5VLA			
# 17-1	973-120-0	Roll Pin (3×20)	1	# 44	980-008-0	Round Head Notch (2.4)	1	558-746-3 Dust Suction Assembly for Grinding			
# 18	977-220-0	Cone Spring (9×10×25)	1	# 45	982-100-0	Ball Bearing (6000)	1	# 62	558-542-3	Dust Receiver	1
# 19	981-210-0	Steel Ball (3/8)	1	# 46	982-141-0	Ball Bearing (6001Z)	1	# 67	558-079-3	Joint Arm	1
# 10	965-020-0	Heli-Sert (M6×1D)	3	# 47	990-033-0	O Ring (P-34)	1	# 64	945-110-0	Allen Head Bolt (M5×10)	2
558-004-9 CASING ASSEMBLY for USG-5VLA				# 48	990-043-0	O Ring (P-46)	1	# 65	962-008-0	Spring Washer(2-5S)	2
# 20	558-025-9	Casing	1	# 49	965-010-0	Heli-Sert (M5×1D)	3	# 66	965-011-0	Heli-Sert (M5×1.5D)	2
# 12	063-102-1	Valve Bushing	1	PARTS FOR USG-4V & 4VL				In Common			
# 21	558-107-9	Throttle Trigger	1	# 50	554-393-6	Wheel Holder Flange	1	558-746-1 Dust Suction Assembly [32mm dia]			
# 22	558-146-9	Stop Valve	1	# 51	554-394-1	Wheel Nut Flange	1	# 68	558-747-1	Dust Suction Hood	1
# 23	558-147-9	Stop Valve Bushing	1	# 52	555-770-1	Wheel Guard(4")	1	# 69	553-444-3	Ruber Skirt	1
# 24	976-079-0	Spring (5×12)	1	PARTS FOR USG-5V, 5VL & 5VLA				# 70	585-573-1	Suction Connector (32mm)	1
# 14	185-091-7	Air Inlet Bushing	1	# 53	892-001-0	Wheel Holder Flange	1	# 71	945-112-0	Allen Head Bolt (M5×12)	3
# 15	966-022-0	Oil Plug (1/8)	1	# 54	892-002-1	Wheel Nut Flange	1	# 72	954-628-0	Allen Head Cup Point Screw (M5×8)	1
# 16	970-337-0	Pin (4×36)	1	# 55	547-770-1	Wheel Guard	1	558-746-2 Dust Suction Assembly [38mm dia]			
# 17	973-122-0	Roll Pin (3×22)	1	STANDARD ACCESSORIES				# 68	558-747-1	Dust Suction Hood	1
# 17-1	973-120-0	Roll Pin (3×20)	1	In Common				# 69	558-444-3	Ruber Skirt	1
# 18	977-220-0	Cone Spring (9×10×25)	1	# 56	940-114-0	Air Hose Nipple (NPT 1/4 × 3/8)	1	# 73	585-573-2	Suction Connector (38mm)	1
# 19	981-210-0	Steel Ball (3/8)	1	# 57	939-007-0	Allen Wrench (6mm)	1	# 71	945-112-0	Allen Head Bolt (M5×12)	3
# 10	965-020-0	Heli-Sert (M6×1D)	3					# 72	954-628-0	Allen Head Cup Point Screw (5M×8)	1

(※:Option)

When ordering spare parts, please specify tool type, code number and parts name.

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