

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 optionally available only for USG-4VL and USG-5VL to reduce exhaust noise level considerably.

Coverision to SANDER will be available if you buy an optional accessory #554-406-1 Rubber Pad.

4" RUBBER PAD for Sanding (Option)



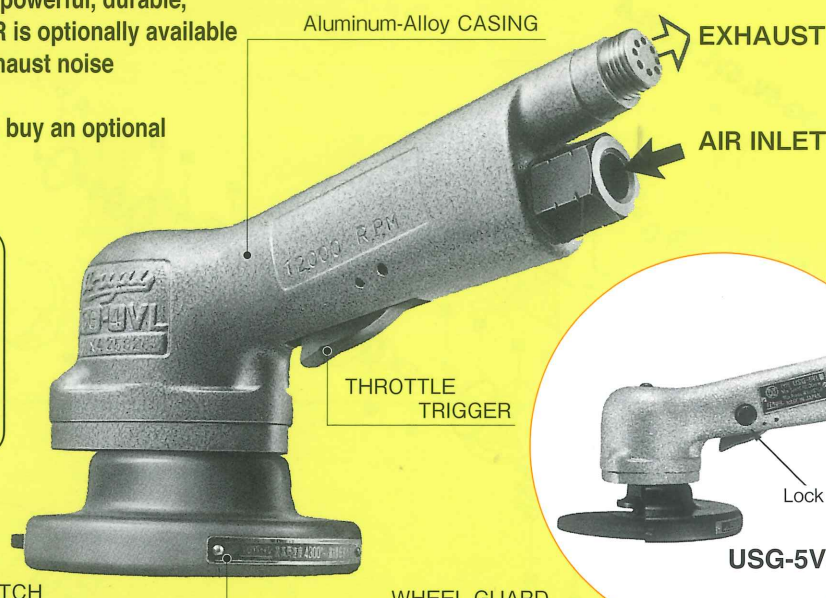
Code No. 554-406-1

MODEL
USG-4VL

4" Disc Wheel
12,000 r. p. m

USG-5VL

5" Disc Wheel
10,500 r. p. m



MODEL
USG-4V

4" Disc Wheel
12,000 r. p. m

USG-5V

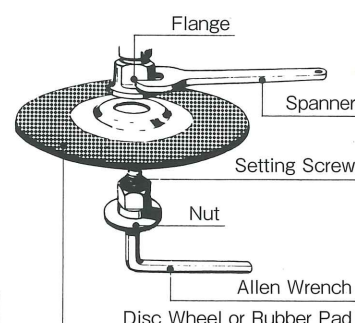
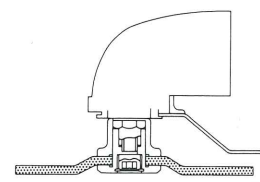
5" Disc Wheel
10,500 r. p. m



USG-5VLA

URYU Unique mounting devices for disc wheels and Rubber Pad.

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



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

※ The uncertainty in the sound levels is 3dB(A).

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)		Sound Pressure Level (L _{PA})	Sound Power Level (L _{WA})	Vibration Total Value (A _W)	Vibration Uncertainty (K)
	in	mm		in	mm	lb	kg		in	mm	ft ³ /min	m ³ /min				
USG-4V	4 15/16	125	12,000	7 5/16	185	3.1	1.40	N.P.T. 1/4	3/8	9.5	28.0	0.80	88	99	<2.5	0.6
USG-4VL	4 15/16	125	12,000	8 21/32	220	3.1	1.40	N.P.T. 1/4	3/8	9.5	30.0	0.85	88	99	<2.5	0.6
USG-5V	4 59/64	125	10,500	7 5/16	185	3.2	1.45	N.P.T. 1/4	3/8	9.5	28.0	0.80	88	99	<2.5	0.7
USG-5VL	4 59/64	125	10,500	8 21/32	220	3.2	1.45	N.P.T. 1/4	3/8	9.5	30.0	0.85	88	99	<2.5	0.7
USG-5VLA	4 59/64	125	10,500	8 21/32	220	3.2	1.45	N.P.T. 1/4	3/8	9.5	30.0	0.85	88	99	<2.5	0.7

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



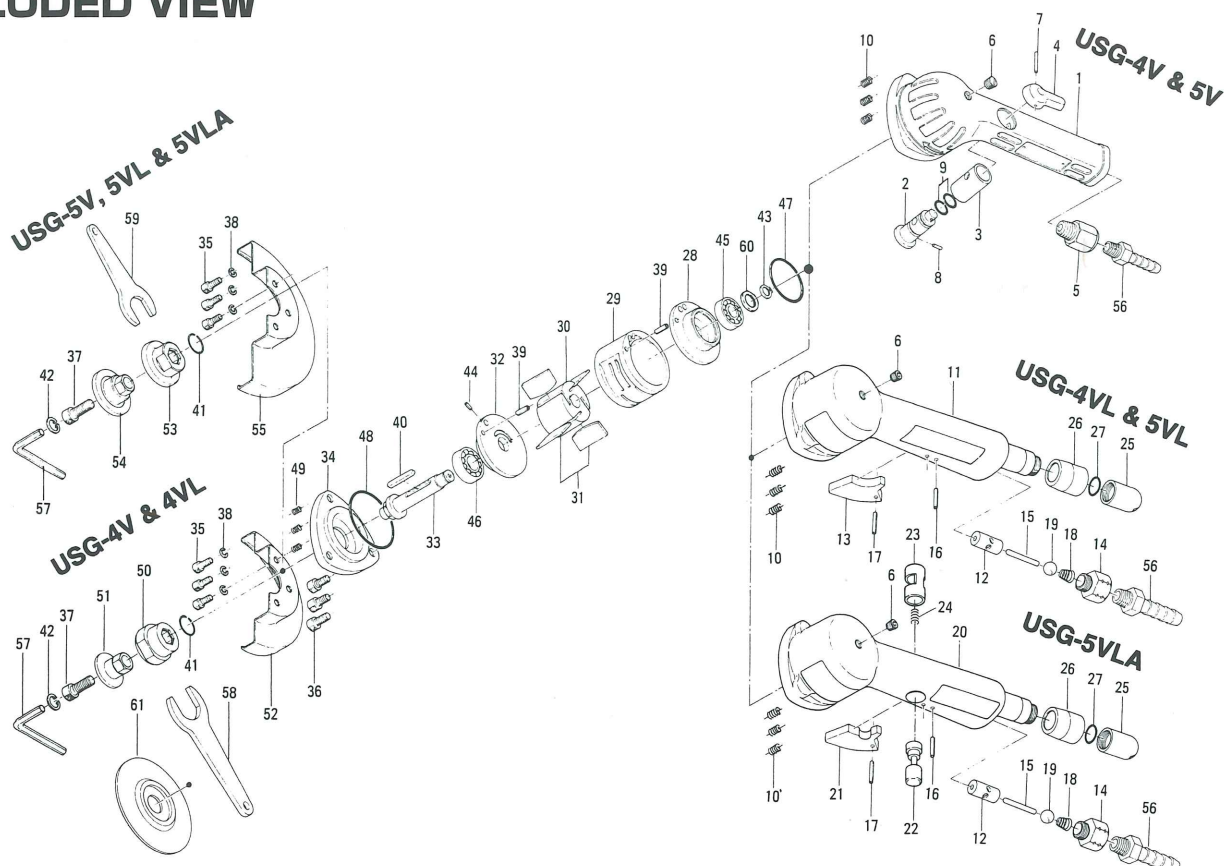
URYU SEISAKU, LTD.

Osaka, Japan

OKA-073-17-08-02-2009

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				#16	973-122-0	Roll Pin (3×22)	1	#48	990-043-0	O-Ring (P-46)	1
# 1	555-025-1	Casing	1	#17	973-120-0	Roll Pin (3×20)	1	#49	965-010-0	Heli-Sert (M5×1D)	3
# 2	555-100-1	Valve	1	#18	977-220-0	Cone Spring (9×10×25)	1	#60	975-752-0	Adjusting Spacer (15×10×t)	1
# 3	555-101-1	Valve Bushing	1	#19	981-210-0	Steel Ball (3/8)	1	PARTS FOR USG-4V & 4VL			
# 4	555-107-1	Valve Switch Lever	1	#20	558-025-9	Casing	1	#50	554-393-6	Wheel Holder Flange	1
# 5	942-114-0	Connecting Screw (1/4×NPT1/4)	1	#21	558-107-9	Throttle Trigger	1	#51	554-394-1	Wheel Nut Flange	1
# 6	966-022-0	Oil Plug (1/8)	1	#22	558-146-9	Stop Valve	1	#52	555-759-1	Wheel Guard (4")	1
# 7	971-120-0	Pin (2×20)	1	#23	558-147-9	Stop Valve Bushing	1	PARTS FOR USG-5V, 5VL & 5VLA			
# 8	973-006-0	Roll Pin (2×6)	1	#24	976-079-0	Spring (5×12)	1	#53	892-001-0	Wheel Holder Flange	1
# 9	990-008-0	O-Ring (P-10)	2	#25	606-780-1	Exhaust Stack	1	#54	892-002-1	Wheel Nut Flange	1
#10	965-020-0	Heli-Sert (M6×1D)	3	#26	612-778-0	Nylon Protector	1	#55	555-759-3	Wheel Guard (5")	1
558-004-6 CASING ASSEMBLY for USG-4VL & 5VL				#27	990-912-0	O-Ring (SNS-14)	1	STANDARD ACCESSORIES			
# 6	966-022-0	Oil Plug (1/8)	1	#28	555-285-1	Rear Plate	1	IN COMMON			
#10	965-020-0	Heli-Sert (M6×1D)	3	#29	555-286-1	Cylinder	1	#56	940-114-0	Air Hose Nipple (NPT 1/4×3/8)	1
#11	558-025-6	Casing	1	#30	555-287-1	Rotor	1	#57	939-007-0	Allen Wrench (6mm)	1
#12	063-102-1	Valve Bushing	1	#31	555-288-1	Blade	4	For USG-4V & 4VL			
#13	085-107-1	Throttle Trigger	1	#32	555-289-1	Front Plate	1	#58	936-054-0	Spanner (29×4.76×150)	1
#14	185-091-7	Air Inlet Bushing	1	#33	547-390-1	Wheel Spindle	1	For USG-5V, 5VL & 5VLA			
#15	970-337-0	Pin (4×36)	1	#34	555-065-1	Casing Front Cover	1	#59	936-521-0	Spanner (21)	1
#16	973-122-0	Roll Pin (3×22)	1	#35	945-110-0	Allen Head Bolt (M5×10)	3	OPTIONAL ACCESSORIES			
#17	973-120-0	Roll Pin (3×20)	1	#36	945-208-0	Allen Head Bolt (M6×8)	3	For USG-4VL, 5VL & 5VLA			
#18	977-220-0	Cone Spring (9×10×25)	1	#37	945-990-0	Hexagon Socket Bolt (M8×18)	1	#25	606-780-1	Exhaust Stack	1
#19	981-210-0	Steel Ball (3/8)	1	#38	962-008-0	Spring Washer (2-5S)	3	#26	612-778-0	Nylon Protector	1
558-004-9 CASING ASSEMBLY for USG-5VLA				#39	973-162-0	Roll Pin (3.5×12)	2	#27	990-912-0	O-Ring (SNS-14)	1
# 6	966-022-0	Oil Plug (1/8)	1	#40	974-130-0	Key (4×30)	1	For USG-4V & 4VL			
#10	965-020-0	Heli-Sert (M6×1D)	3	#41	978-170-0	Snap Ring (17×1)	1	#61	554-406-1	Rubber Pad	1
#12	063-102-1	Valve Bushing	1	#42	979-314-0	Inner Snap Ring (IRTW-14)	1				
#14	185-091-7	Air Inlet Bushing	1	#43	979-107-0	Outer Snap Ring (10)	1				
#15	970-337-0	Pin (4×36)	1	#44	980-008-0	Round Head Notch (2.4)	1				
				#45	982-100-0	Ball Bearing (6000)	1				
				#46	982-141-0	Ball Bearing (6001Z)	1				
				#47	990-033-0	O-Ring (P-34)	1				

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

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URYU SEISAKU, LTD. Osaka, Japan

For further information, please contact at any time your nearest URYU distributor.