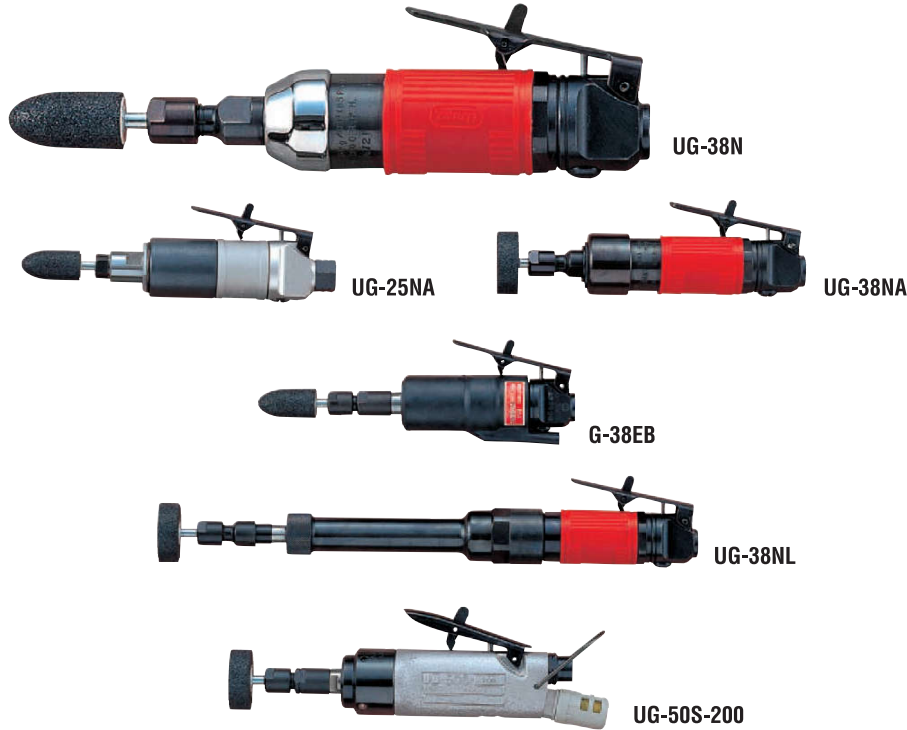


DIE GRINDERS



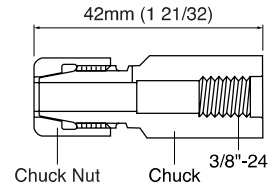
Self-Locking Lever attachment

To prevent accidental start of motor.



COLLET CHUCKS

G-38EB & UG-50S-200



- 923-534-0 3mm
- 923-535-0 6mm
- 923-536-0 1/4"

SPECIFICATIONS

Recommended Air Pressure : 0.6MPa (85psi)

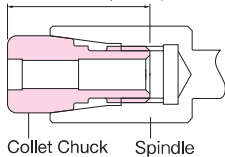
Model	Collet Chuck Size		Max.Free Speed (about)	Rated Horse Power	Overall Length (about)		Weight less wheel (about)		Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption	
	mm	in			rpm	w	mm	in		kg	lb	in	mm
UG-25NA	6	1/4	23500	210	153	6 1/32	0.53	1.17	NPT1/4	9.5	3/8	0.3	10.7
G-38EB	6	1/4	20000	315	165	6 1/2	0.65	1.43	NPT1/4	9.5	3/8	0.4	14.0
UG-38N	6	1/4	25000	315	164	6 15/32	0.57	1.25	NPT1/4	9.5	3/8	0.3	10.7
UG-38NA	6	1/4	22000	315	165	6 1/2	0.65	1.43	NPT1/4	9.5	3/8	0.4	14.0
UG-38NL	6	1/4	21000	315	317	12 31/64	0.92	2.02	NPT1/4	9.5	3/8	0.3	10.7
UG-50S-200	6	1/4	23000	195	198	7 51/64	0.60	1.32	NPT1/4	9.5	3/8	0.4	14.0



COLLET CHUCKS

UG-25N Series

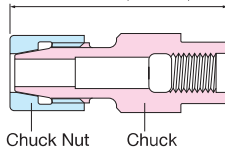
30mm (1 3/16)



- Chuck 6mm 923-003-0
- Chuck 3mm 923-001-0

UG-38N Series Chuck CP (Chuck+Chuck Nut)

47mm (1 55/64)



- Chuck CP 6mm 923-512-0
- Chuck CP 3mm 923-510-0

SPECIFICATIONS

Recommended Air Pressure : 0.6MPa (85psi)

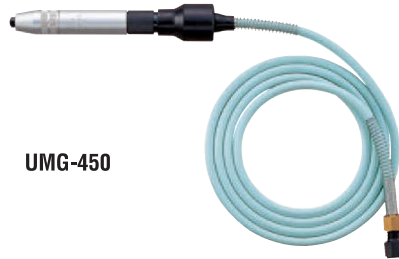
Model	Collet Chuck Size		Max.Free Speed (about)	Rated Horse Power	Overall Length (about)		Weight less wheel (about)		Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption	
	mm	in			rpm	w	mm	in		kg	lb	in	mm
UG-25NSA	6	1/4	23500	210	145	5 23/32	0.56	1.23	NPT1/4	9.5	3/8	0.3	10.7
UG-38NS	6	1/4	25000	315	174	6 27/32	0.60	1.32	NPT1/4	9.5	3/8	0.3	10.7
UG-38NSA	6	1/4	22000	315	174	6 27/32	0.65	1.43	NPT1/4	9.5	3/8	0.3	10.7
UG-38NSL	6	1/4	21000	315	330	12 63/64	0.95	2.09	NPT1/4	9.5	3/8	0.3	10.7

DIE GRINDERS & MIDGET GRINDER

UMG-450, muffled by a rubber silencer to minimize sound level for operator's comfort, is a super speed model for precise grinding and polishing for die making.



UG-45H



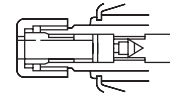
UMG-450



Fasten the collet chuck firmly to avoid loosening of the cutting tool.

COLLET CHUCKS

UG-45H



923-170-0	6mm
923-171-0	1/4"
923-172-0	8mm

Recommended Air Pressure : 0.6MPa (85psi)

SPECIFICATIONS

Model	Collet Chuck Size		Max.Free Speed (about)	Rated Horse Power	Overall Length (about)		Weight less wheel (about)		Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption	
	mm	in			rpm	w	mm	in		kg	lb	in	mm
UMG-450	3	No.5	45000	37	145	5 45/64	0.19	0.42	NPT1/4	4.8	3/16	0.2	7.0
UG-45H	6	1/4	18000	375	196	7 23/62	0.80	1.76	NPT1/4	9.5	3/8	0.6	22.0

ABRASIVE TOOLS

MINI ANGLE GRINDERS

UG-20A series are specially designed for applications of hard-to-reach areas.



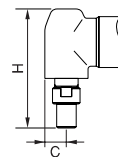
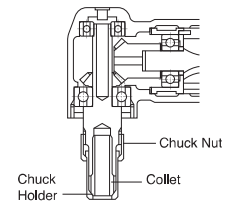
UG-20A-200



UG-50S-200A

ERICKSON Type COLLET CHUCKS

UG-20A Series	923-207-0	6mm
	923-201-0	1/4"



Model	C		H	
	mm	in	mm	in
UG-20A-120	14.5	37/64	80.0	3 5/32
UG-20A-200	14.5	37/64	80.0	3 5/32
UG-50S-200A	19.5	49/64	87.0	3 27/64

SPECIFICATIONS

Recommended Air Pressure : 0.6MPa (85psi)

Model	Collet Chuck Size		Max.Free Speed (about)	Rated Horse Power	Overall Length (about)		Weight less wheel (about)		Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption	
	mm	in			rpm	w	mm	in		kg	lb	in	mm
UG-20A-120	6	1/4	12000	113	131	5 3/16	0.50	1.10	NPT1/4	9.5	3/8	0.3	10.7
UG-20A-200	6	1/4	20000	113	131	5 3/16	0.50	1.10	NPT1/4	9.5	3/8	0.3	10.7
UG-50S-200A	6	1/4	20000	195	195	7 45/64	0.90	1.98	NPT1/4	9.5	3/8	0.4	14.0

GRINDERS

LIGHT TYPE UG-65 SERIES

Available in 9 models with three different throttle handles, these lightweight and compact grinders are generally used in all metal working industries for every grinding and polishing job.



UG-65E



UG-65EL



UG-65ER



UG-65EB



UG-65EBR



UG-65EBL



UG-650E



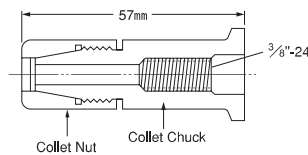
UG-650EL



UG-650ER

Collet chucks of 6mm and 1/4" capacity are available as optional accessories for mandrel mounted abrasives, cutters and files.

	6mm	1/4"
UNF3/8-24	923-530-0	923-532-0
W3/8-16	923-523-0	923-526-0



SPECIFICATIONS

Recommended Air Pressure : 0.6MPa (85psi)

Type	Model	Throttle Handle	Capacity (Wheel Size)		Max.Free Speed (about)	Rated Horse Power	Overall Length (about)		Weight less wheel (about)		Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption	
			mm	in			rpm	w	mm	in		kg	lb	in	mm
Standard	UG-65E	Sleeve	63.5	2 1/2	14600	412	242	9 27/32	1.25	2.75	NPT1/4	9.5	3/8	0.6	22
	UG-65ER	Self-closing	63.5	2 1/2	14600	412	271	10 43/64	1.50	3.30	NPT1/4	9.5	3/8	0.6	22
	UG-65EL	Lever	63.5	2 1/2	14600	412	272	10 23/32	1.40	3.08	NPT1/4	9.5	3/8	0.6	22
Rear Exhaust	UG-65EB	Sleeve	63.5	2 1/2	*14600	412	242	9 27/32	1.25	2.75	NPT1/4	9.5	3/8	0.6	22
	UG-65EBR	Self-closing	63.5	2 1/2	*14600	412	271	10 43/64	1.50	3.30	NPT1/4	9.5	3/8	0.6	22
	UG-65EBL	Lever	63.5	2 1/2	*14600	412	272	10 23/32	1.40	3.08	NPT1/4	9.5	3/8	0.6	22
Extended	UG-650E	Sleeve	63.5	2 1/2	14600	412	390	15 23/64	1.72	3.78	NPT1/4	9.5	3/8	0.6	22
	UG-650ER	Self-closing	63.5	2 1/2	14600	412	419	16 1/2	1.97	4.33	NPT1/4	9.5	3/8	0.6	22
	UG-650EL	Lever	63.5	2 1/2	14600	412	420	16 17/32	1.55	3.41	NPT1/4	9.5	3/8	0.6	22

* Speed without silencer

ABRASIVE TOOLS

GRINDERS



USG-7S



USG-L180D



USG-4S



AG-50L



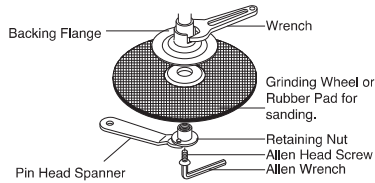
AG-100SL



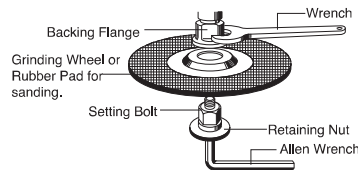
AG-100S

ABRASIVE TOOLS

"OUT" type
3/8"-24 Spindle with large FLANGE



"IN" type
URYU special Spindle with small FLANGE



WHEEL SIZE

Model	Thickness	Height
AG-50 Series	3-5mm	9mm
AG-100 Series	4-6mm	10mm
USG-4S	4-6mm	10mm
USG-7S	6-8mm	13mm
USG-L180D	6-8mm	13mm

SPECIFICATIONS

Recommended Air Pressure : 0.6MPa (85psi)

Model	Capacity (Wheel size)		Max.Free Speed (about)	Rated Horse Power	Overall Length (about)		Overall Height (about)		Weight less wheel (about)		Type of Spindle	Air Inlet Thread (Pipe Tap)		Air Hose Size		Average Air Consumption	
	mm	in			rpm	w	mm	in	mm	in		kg	lb	in	in	mm	in
AG-50(OUT)	50	2	15000	337	147	5 25/32	54	2 1/2	0.63	1.40	OUT	NPT1/4	9.5	3/8	0.45	16.0	
AG-50L(OUT)	50	2	15000	337	140	5 34/64	54	2 1/2	0.63	1.40	OUT	NPT1/4	9.5	3/8	0.45	16.0	
AG-100(IN)	100	4	13500	315	175	6 57/64	68	2 43/64	0.95	2.10	IN	NPT1/4	9.5	3/8	0.50	18.0	
AG-100L(IN)	100	4	13500	315	179	7 3/64	68	2 43/64	1.05	2.30	IN	NPT1/4	9.5	3/8	0.50	18.0	
AG-100(OUT)	100	4	13500	315	175	6 57/64	68	2 43/64	0.95	2.10	OUT	NPT1/4	9.5	3/8	0.50	18.0	
AG-100L(OUT)	100	4	13500	315	179	7 3/64	68	2 43/64	1.05	2.30	OUT	NPT1/4	9.5	3/8	0.50	18.0	
AG-100S(IN)	100	4	13500	315	175	6 57/64	68	2 43/64	1.00	2.20	IN	NPT1/4	9.5	3/8	0.50	18.0	
AG-100SL(IN)	100	4	13500	315	179	7 3/64	68	2 43/64	1.10	2.40	IN	NPT1/4	9.5	3/8	0.50	18.0	
AG-100S(OUT)	100	4	13500	315	179	7 3/64	68	2 43/64	1.00	2.20	OUT	NPT1/4	9.5	3/8	0.50	18.0	
AG-100SL(OUT)	100	4	13500	315	179	7 3/64	68	2 43/64	1.10	2.40	OUT	NPT1/4	9.5	3/8	0.50	18.0	
USG-4S	100	4	13500	450	236	9 19/64	94	3 45/64	1.65	3.60	IN	NPT1/4	9.5	3/8	0.60	22.0	
USG-7S	180	7	7600	962	296	11 21/32	120	4 47/54	3.00	6.60	IN	NPT3/8	12.7	1/2	1.30	46.0	
USG-L180D	180	7	7600	888	267	9 1/2	92	3 5/8	2.70	5.90	IN	NPT3/8	12.7	1/2	1.00	36.0	

VERTICAL GRINDERS



UVG-2300SL-59



UVG-1800SL-84



USG-4VL



USG-5VLA

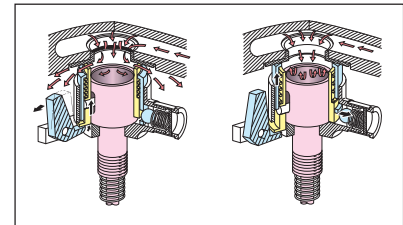
ABRASIVE TOOLS

100mm(4") & 125mm(5") Type

USG series * These gear-less vertical grinders of simple non-governed design offer powerful and trouble free operation.

180mm(7") & 230mm(9") Type

UVG series * Non-friction speed control governor incorporated with over-speed sensing device. This special governor contributes to power compensation also especially when grinding resistance gets strong causing slow speed.
 * Three different speeds are available for UVG-1800.
 * UVG-2300 series is equipped with Dual and Consecutive action Speed Piston Valve for smooth valve opening.



UVG SERIES

NON-FRICTION SPEED CONTROL GOVERNOR incorporated in OVERSPEED SENSING DEVICE

SPECIFICATIONS

Recommended Air Pressure : 0.6MPa (85psi)

Model	Capacity (Wheel size)		Max.Free Speed (about)	Rated Horse Power	Overall Length (about)		Overall Height (about)		Weight less wheel (about)		Type of Spindle	Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption	
	mm	in			rpm	w	mm	in	mm	in			kg	lb	mm	in
USG-4VL	100	4	12000	435	220	8 21/32	97	3 13/16	1.40	3.09	IN	NPT1/4	9.5	3/8	0.85	30.0
USG-5VLA	125	5	10500	375	220	8 21/32	97	3 13/16	1.48	3.26	IN	NPT1/4	9.5	3/8	0.85	30.0
UVG-1500SL-76	180	7	7600	1200	-	-	162	6 3/8	3.30	7.26	OUT	NPT3/8	12.7	1/2	1.40	49.0
UVG-1500SL-84	180	7	8400	1200	-	-	162	6 3/8	3.30	7.26	OUT	NPT3/8	12.7	1/2	1.40	49.0
UVG-1800SL-59	230	9	5900	1575	-	-	175	6 7/8	4.00	8.80	OUT	NPT3/8	12.7	1/2	1.90	67.0
UVG-1800SL-76	180	7	7600	1650	-	-	175	6 7/8	4.00	8.80	OUT	NPT3/8	12.7	1/2	2.00	70.0
UVG-1800SL-84	180	7	8400	1650	-	-	175	6 7/8	4.00	8.80	OUT	NPT3/8	12.7	1/2	2.00	70.0
UVG-2300SL-59	230	9	5900	2550	-	-	182	7 5/32	4.80	10.56	OUT	NPT1/2	19.0	3/4	2.50	80.0

ANGLE GRINDERS

ABRASIVE TOOLS



UAG-50SBL-120



UAG-40SBL-136



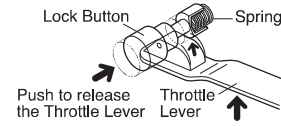
UAG-70SBL-76



UAG-90SBL-59

LOCK BUTTON

Push the spring-loaded Lock Button to release the Throttle Lever for operation. When released the Lever is locked automatically.



ROLL TYPE THROTTLE HANDLE



UAG-○○SB series
UAG-○○SC series

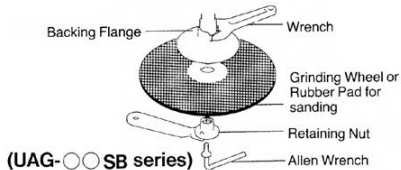
100mm-230mm(4"-9") Wheel Dia.

URYU offers UAG-series Angle Grinders of 100mm(4"), 125mm(5"), 180mm(7") and 230mm(9") capacity. These governed lightweight and compact grinders deliver high power to weight ratio and feature.

- Non-friction Speed Governor for most efficient grinding performance.
- Unique spring-loaded Exhaust Valve for noise-less trouble free operation.
- Vibration absorbent Dead Handle for less Operator fatigue.

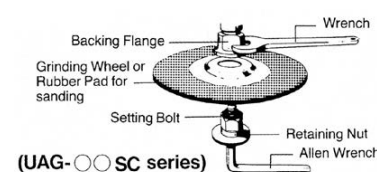
"B" type

Spindle with large Flange



"C" type

URYU unique Spindle with small Flange



Spring-loaded EXHAUST VALVE

This exhaust hole is kept closed off-operation but is opened upon triggering. This unique exhaust valve features:

- Cutting exhaust noise especially when air is shut off.
- Preventing foreign matters inhalation into the tool.



SPECIFICATIONS

Recommended Air Pressure : 0.6MPa (85psi)

Model	Capacity (Wheel size)		Max.Free Speed (about)	Rated Horse Power	Overall Length (about)		Overall Height (about)		Weight less wheel (about)		Type of Spindle	Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption	
	mm	in			rpm	w	mm	in	mm	in			kg	lb	in	mm
UAG-40SB-136	100	4	13600	712	208	8 3/16	76	3	1.5	3.3	OUT	NPT1/4	9.5	3/8	0.95	34.0
UAG-40SBL-136	100	4	13600	712	246	9 11/16	76	3	1.3	2.9	OUT	NPT1/4	9.5	3/8	0.95	34.0
UAG-40SC-136	100	4	13600	712	208	8 3/16	76	3	1.5	3.3	IN	NPT1/4	9.5	3/8	0.95	34.0
UAG-40SCL-136	100	4	13600	712	246	9 11/16	76	3	1.3	2.9	IN	NPT1/4	9.5	3/8	0.95	34.0
UAG-50SBL-120	125	5	12000	712	246	9 11/16	76	3	1.4	3.1	OUT	NPT1/4	9.5	3/8	0.95	34.0
UAG-50SCL-120	125	5	12000	712	246	9 11/16	76	3	1.4	3.1	IN	NPT1/4	9.5	3/8	0.95	34.0
UAG-50SC-120	125	5	12000	712	208	8 3/16	76	3	1.6	3.5	IN	NPT1/4	9.5	3/8	0.95	34.0
UAG-50SB-109	125	5	10900	712	208	8 3/16	76	3	1.6	3.5	OUT	NPT1/4	9.5	3/8	0.95	34.0
UAG-50SBL-109	125	5	10900	712	246	9 11/16	76	3	1.4	3.1	OUT	NPT1/4	9.5	3/8	0.95	34.0
UAG-70SBL-76	180	7	7600	1500	300	11 13/16	98	3 55/64	2.9	6.4	OUT	NPT3/8	12.7	1/2	1.60	57.0
UAG-70SB-76	180	7	7600	1500	253	10	98	3 27/64	3.0	6.6	OUT	NPT3/8	12.7	1/2	1.60	57.0
UAG-70SC-76	180	7	7600	1500	253	10	87	3 27/64	3.0	6.6	IN	NPT3/8	12.7	1/2	1.60	57.0
UAG-70SCL-76	180	7	7600	1500	300	11 13/16	87	3 27/64	2.8	6.2	IN	NPT3/8	12.7	1/2	1.60	57.0
UAG-90SBL-59	230	9	5900	1875	308	12 1/8	98	3 55/64	3.3	7.3	OUT	NPT3/8	12.7	1/2	1.90	67.0

HORIZONTAL GRINDERS



UG-1250L-72



UG-1250-72



UG-1500L-60



UG-1500-60

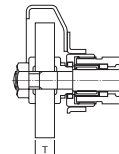


UG-2000L-45

ABRASIVE TOOLS

Heavy-Duty Type (Governed)

- Two speeds are available for UG-1500 and UG-2000 series. (Higher speed for resinoid wheels and lower speed for vitrified wheels)
- Two different Throttle Handles are available for every model.
- Lever Type Handles are recommended for safer operation.



WHEEL SIZE

Model Name	Thickness
UG-1200 Series	13-19mm
UG-1500 Series	18-25mm
UG-2000 Series	19-25mm

SPECIFICATIONS

Recommended Air Pressure : 0.6MPa (85psi)

Model	Capacity (Wheel Size)		Max.Free Speed (about)	Rated Horse Power	Overall Length (about)		Weight less wheel (about)		Spindle Size	Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption	
	mm	in			rpm	w	mm	in			kg	lb	in	in
UG-1250-72	125	5	7200	750	436	17 11/64	3.20	7.04	1/2-13	NPT3/8	12.7	1/2	0.90	32.7
UG-1250L-72	125	5	7200	750	436	17 11/64	2.80	6.16	1/2-13	NPT3/8	12.7	1/2	0.90	32.7
UG-1500-60	150	6	6000	1320	497	19 9/16	4.88	10.74	5/8-11	NPT3/8	12.7	1/2	1.30	45.9
UG-1500-41	150	6	4100	975	497	19 9/16	4.88	10.74	5/8-11	NPT3/8	12.7	1/2	1.30	45.9
UG-1500L-60	150	6	6000	1320	495	19 31/64	4.62	10.16	5/8-11	NPT3/8	12.7	1/2	1.30	45.9
UG-1500L-41	150	6	4100	975	495	19 31/64	4.62	10.16	5/8-11	NPT3/8	12.7	1/2	1.30	45.9
UG-2000L-45	200	8	4500	1500	520	20 15/32	5.30	11.62	5/8-11	NPT3/8	12.7	1/2	1.55	54.7
UG-2000L-31	200	8	3100	1260	520	20 15/32	5.30	11.62	5/8-11	NPT3/8	12.7	1/2	1.55	54.7

* Do not use vitrified wheels with higher speed type of each model.

SANDERS / POLISHERS

ABRASIVE TOOLS



UP-25DB



UP-15



UP-15N



USG-45P



UP-25NB

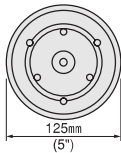


AG-180W

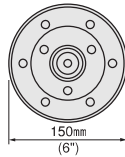


UP-80-15

UP-15N/25NB PAD



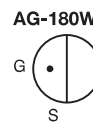
UP-26NB PAD



HOLED PAD



Dust collection bag
For UP-15N, 25NB&26NB



AG-180W

* Two different speeds available: 4,500rpm for sanding and 7,000rpm for grinding. AG-180W comes with sanding speed setting 4,500rpm with relevant accessories as standard. AG-180W can be converted into grinder model by changing speed regulator to G position and mounting wheel guard.

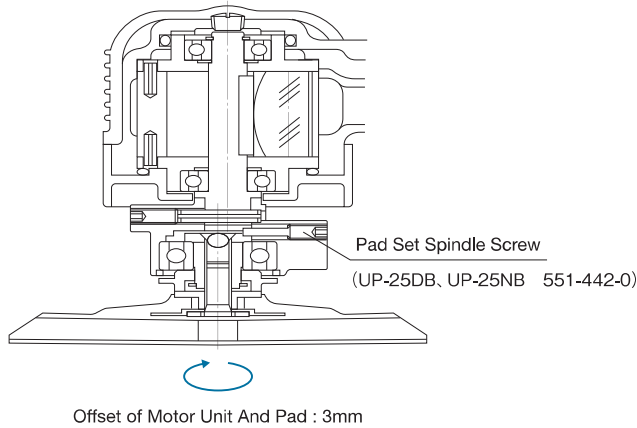
SPECIFICATIONS

Recommended Air Pressure : 0.6MPa (85psi)

Model	Capacity (Pad/Paper size)		Max.Free Speed (about)	Rated Horse Power	Overall Length (about)		Overall Height (about)		Weight less wheel (about)		Spindle Size	Air Inlet Thread (Pipe Tap)		Air Hose Size		Average Air Consumption	
	mm	in			rpm	w	mm	in	mm	in		kg	lb	in	in	mm	in
USG-45P	125	5	12000	225	187	7 23/64	104	4 3/32	0.87	1.91	3/8-24	NPT1/4	9.5	3/8	0.55	20.0	
AG-180W	180	7	7000	690	315	12 13/32	111	4 3/8	2.80	6.16	5/8-11	NPT1/4	9.5	3/8	0.90	32.0	
UP-80-15	160	6 3/8	1500	337	-	-	170	6 7/8	1.80	3.96	5/8-11	NPT1/4	9.5	3/8	0.80	28.0	
UP-80-40	160	6 3/8	4000	337	-	-	164	6 15/32	1.80	3.96	5/8-11	NPT1/4	9.5	3/8	0.80	28.0	
UP-80-60	160	5/16	6000	337	-	-	170	6 7/8	1.80	3.96	5/8-11	NPT1/4	9.5	3/8	0.80	28.0	
UP-15	125	5	8000	210	112	4 13/32	93	3 21/32	1.20	2.64	-	NPT1/4	6.35	1/4	0.45	16.0	
UP-25DB	125	5	10000	259	212	8 11/32	120	4 3/4	1.70	3.74	-	NPT1/4	6.35	1/4	0.20	7.0	
UP-26DB	150	6	10000	259	212	8 11/32	120	4 3/4	1.78	3.92	-	NPT1/4	6.35	1/4	0.20	7.0	
UP-15N	125	5	9000	225	175	6 57/64	103	4 1/16	1.50	3.30	-	NPT1/4	6.35	1/4	0.45	16.0	
UP-25NB	125	5	9000	300	250	9 23/64	119	4 23/32	1.77	3.90	-	NPT1/4	9.5	3/8	0.60	21.0	
UP-26NB	150	6	9000	300	263	10 23/64	119	4 23/32	1.95	4.30	-	NPT1/4	9.5	3/8	0.60	21.0	

FEATURES

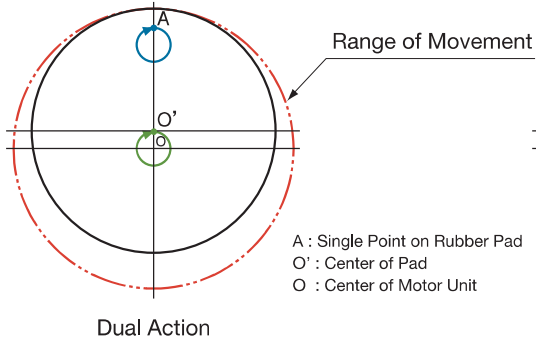
Features of Dual Action Orbital Sander UP-15, UP-25DB/26DB, UP-25NB/26NB



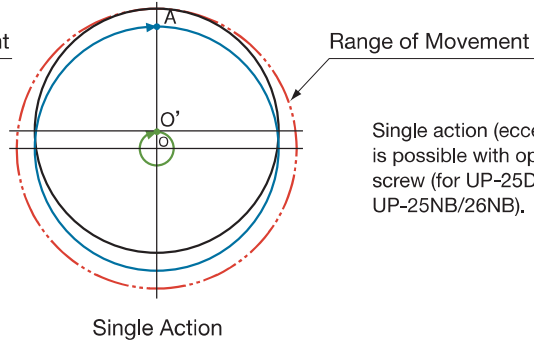
Dual action type (Dual rotation movement) adopted. As the whole surface of paper attached rubber pad is rotated in ellipse and true circle, smooth finish without sanding scratch is possible.

Movement of Single Point on Rubber Pad

(Without Pad Set Spindle Screw)

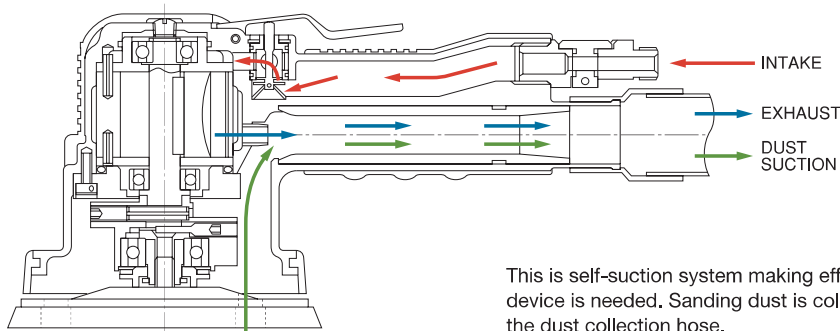


(With Pad Set Spindle Screw)



Single action (eccentric movement only) is possible with optional pad set spindle screw (for UP-25DB/26DB, UP-25NB/26NB).

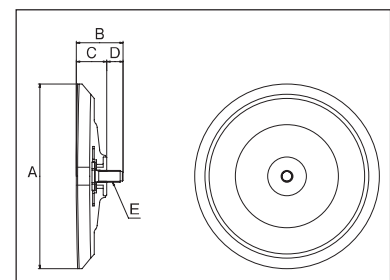
Self-Suction Type Dual Action Orbital Sander (UP-25NB/26NB)



This is self-suction system making effective use of exhaust. No forced suction device is needed. Sanding dust is collected in the dust collection bag, through the dust collection hose.

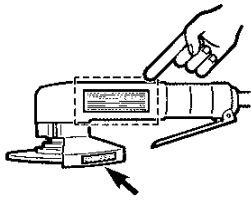
Backing Pad Assembly for UP-25/UP-26 Series

Name	Dimension					Part Number	Model
	A (mm)	B (mm)	C (mm)	D (mm)	E		
Backing Pad Assembly (5")	124	31.5	20.5	11	NPT1/4	551-409-2	UP-25DB
Backing Pad Assembly (6")	149	30	19	11	NPT1/4	551-409-8	UP-26DB
Backing Pad Assembly (5")	124	28	16.5	11.5	NPT1/4	548-409-3	UP-25NB
Backing Pad Assembly (6")	149	30	19	11	NPT1/4	548-409-5	UP-26NB

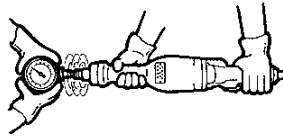


WARNING FOR SAFETY USE

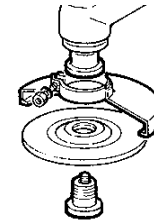
Firstly, follow your local safety regulations strictly on grinders and abrasives. Following are basically required.



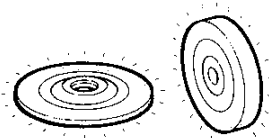
1. Before mounting to the Grinder, make sure that the Grinding Wheels or other Abrasives are of suitable size, shape, quality and strength to the rated speed (RPM) stamped on the name plate or tool housing.



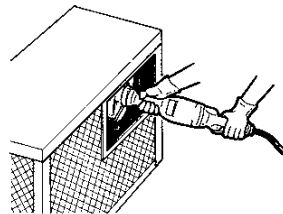
2. The Wheel Spindle speed should be regularly checked with a tachometer to make sure whether normal speed is maintained. The governed Grinders must be checked to be sure governor mechanism is functioning properly.



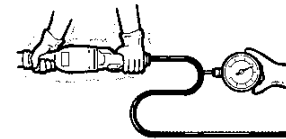
3. Make sure before operation that the Abrasive Wheel should be mounted carefully and sufficiently with flanges and nuts of proper size and shape by use of the Spanners.



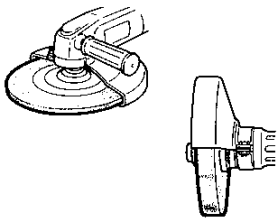
4. All Grinding Wheels should be closely inspected before installation and use. If cracks, nicks, or chips are found, do not use the Wheel in question.



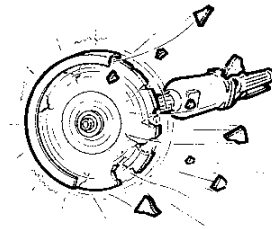
5. Before installing a Grinding Wheel, after all Grinders repair and whenever the Grinder is issued for use, test run the Grinder by a competent person for one minute under a protected area.



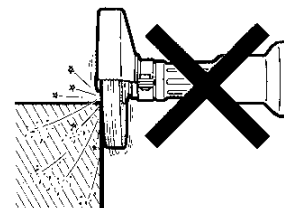
6. Pay attention so that the speed of Grinder does not exceed its maximum speed specified. Do not increase air pressure for power-up.



7. Make sure to use wheel guard of suitable size and fix it properly when using Grinding Wheels of more than 50mm in diameter.



8. Never exceed maximum speed of the Abrasive Wheel to avoid dangerous breakage. Fragments from the Wheel can cause serious injury or death. Do not operate without wearing eye protector and gloves.



9. Never use the side of grinding Wheel, when a Grinding Wheel is not intentionally designed for side use.