

# RPG ONE, RPG 1.5, RPG 2.5

RENTAL  
AVAILABILITY

Designed for burr-free squaring and beveling of thin-walled stainless steel tubes and micro fittings. High quality tube end preparation for orbital welding.



Precise clamping of tubes and micro fittings

Built-in electronic speed regulation with speed stabilization

Environmentally friendly cordless versions thanks to lithium-ion technology

## SMALL DIAMETER TUBE SQUARING MACHINES

THE SMALL RPG SERIES TUBE SQUARING MACHINES HAVE SET THE HIGH PURITY ORBITAL WELDING INDUSTRY STANDARD FOR SAFETY AND PRECISION.

- Repeatable high quality burr-free tube end squaring
- Dual tool bit safety guards to maximize safe operation
- Stainless steel clamping eliminates cross contamination
- Wide range of collets for tube and micro-fittings
- No tools required for operation
- Linear micrometer feed system for high tolerance length control ( $\pm .004''$ )
- Dual cutting edge tool bit yields the best "cost per cut" in the industry

### CORDED (120V - 230V) DRIVE MOTOR

- Built in electronic VTC speed control gives maximum power at any speed setting
- Restart protection for operation safety
- Overload protection
- Brush wear indication and shut off

### CORDLESS (18V) DRIVE MOTOR with quick charger (120V - 230V)

- Minimizes tool working area requirement (small package)
- Quick battery recharge
- Battery charge capacity display
- Overload protection

# RPG One, 1.5, & 2.5 Tube Squaring

APPLICATION RANGE	RPG ONE	RPG ONE CORDLESS	RPG 1.5	RPG 1.5 CORDLESS	RPG 2.5	RPG 2.5 CORDLESS	
Tube OD min.-max.	0.118*-1.0in (3.0*-25.4mm)		0.118*-1.5in (3.0*-38.1mm)		0.118*-2.5in (3.0*-63.5mm)		
Wall thickness max.	0.118in (3.0mm)						
Tube materials	High-alloy, unalloyed, and low-alloy steels and aluminum. Others on request.						
Length	15.4in (390mm)	10.3 (261mm)	15.8in (400mm)	10.8in (275mm)	19.7in (500mm)	10.2in (260mm)	
Width	2.8in (70mm)	3.2in (80mm)	6.3in (160mm)	3.5in (90mm)	6.7in (170mm)	12.6in (320mm)	
Height	7.9in (200mm)	10in (254mm)	13.8in (350mm)	10in (254mm)	11.8in (300mm)	11.8in (300mm)	
Variable cutting speed	145-380 RPM	0-400 RPM	145-380 RPM	0-400 RPM	1: 9-24 RPM 2: 27-153RPM	1: 0-24 RPM 2: 0-83 RPM	
Power	1100 W		1100 W		1100 W		
Battery Voltage		18 V		18 V		18 V	
Battery Capacity		2.6 Ah		2.6 Ah		2.6 Ah	
Noise level at the workpiece (EN 23741)	approx. 78 dB (A)						
Vibration level (EN 50144)	< 2.5 m/s <sup>2</sup>						
Machine Weight	9.1 lb (4.1 kg)	6.3 lb (2.9 kg)	10.4 lb (4.7 kg)	7.6 lb (3.4 kg)	14.6 lb (6.6 kg)	11.8 lb (5.3 kg)	
Shipping Weight	21.2 lb (9.6 kg)	18.1 lb (8.2 kg)	20.9 lb (9.5 kg)	22.3 lb (10.1 kg)	27.6 lb (12.5 kg)	25 lb (11.3 kg)	
CODE	(1-phase AC) 230 V 50/60 Hz	0T790.036.031	0T790.036.021	0T790.037.001	0T790.037.011	0T790.030.001	0T790.030.011
	(1-phase AC) 120 V 50/60 Hz	0T790.036.032	0T790.036.022	0T790.037.002	0T790.037.012	0T790.030.002	0T790.030.012
SCOPE OF DELIVERY	RPG ONE	RPG ONE CORDLESS	RPG 1.5	RPG 1.5 CORDLESS	RPG 2.5	RPG 2.5 CORDLESS	
• Overload protection (square nut)			1	1	1	1	
• Adapter clamping shell					0T790.030.094		
<ul style="list-style-type: none"> <li>• Tube squaring machine</li> <li>• Durable storage and shipping case</li> <li>• (2) Rechargeable batteries (Cordless Only)</li> <li>• Battery charger (Cordless only)</li> <li>• Tool holder WH (0T790.037.152)</li> <li>• Multifunctional tool MFW (0T790.038.314)</li> <li>• Tool set</li> <li>• Operating instructions and spare parts list</li> <li>• Bench stand for cordless machines optional available (Code 0T790.037.169)</li> </ul>							

The technical data are not binding. They are not warranted characteristics and are subject to change. Please consult our general conditions of supply.

\* Application range with standard tool holder (Code 0T790.037.152) is from 6.0 mm/0.236 in OD. With special tool holder (Code 0T790.037.161) 3.0 mm/0.118 in OD is possible.

For the RPG 2.5 (battery) only with a special adapter clamping shell (included in the standard scope of delivery of the RPG 2.5).

## FEATURES OF THE CORDLESS VERSIONS:

- Very short design
- Lithium-ion technology
- Motor with high performance and small size
- No memory effect
- Single cell monitoring in the cordless pack
- Electronic overload protection with integrated temperature monitor
- Robust cordless packs with capacity display
- Minimal self-discharge
- Environmentally friendly
- AIR-COOLED technology for short charging times and a long service life



RPG ONE



RPG ONE Cordless



RPG 1.5



RPG 1.5 Cordless



RPG 2.5



RPG 2.5 Cordless

# RPG One, 1.5, & 2.5 Tube Squaring Accessories

## Stainless steel clamping shells

Extremely durable. Assures accurate centering and quick clamping shell change without any tools with its unique design and positive clamping shell mechanism.

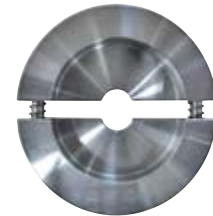
Other dimensions of clamping shells are available.

Please check the outer diameter of the tubes before ordering the clamping shells.

WORKS WITH	APPLICATION	TUBE OD	TUBE CLAMPING LENGTH	WEIGHT	CODE
RPG ONE	Tube	.118in (3mm)	.394in (10mm)	4 oz (118 g)	OT790.036.232
RPG ONE	Tube	.125in (3.18mm)	.394in (10mm)	4 oz (118 g)	OT790.036.201
RPG ONE	Tube	.236in (6mm)	.394in (10mm)	4 oz (118 g)	OT790.036.213
RPG ONE	Tube	.250in (6.35mm)	.394in (10mm)	4 oz (118 g)	OT790.036.202
RPG ONE	Tube	.314in (8mm)	.394in (10mm)	4 oz (118 g)	OT790.036.215
RPG ONE	Tube	.375in (9.53mm)	.394in (10mm)	4 oz (118 g)	OT790.036.203
RPG ONE	Tube	.394in (10mm)	.394in (10mm)	4 oz (118 g)	OT790.036.204
RPG ONE	Tube	.472in (12mm)	.394in (10mm)	4 oz (118 g)	OT790.036.205
RPG ONE	Tube	.500in (12.7mm)	.394in (10mm)	4 oz (118 g)	OT790.036.206
RPG ONE	Tube	.625in (15.88mm)	.394in (10mm)	4 oz (118 g)	OT790.036.211
RPG ONE	Tube	.750in (19.05mm)	.394in (10mm)	4 oz (118 g)	OT790.036.208
RPG ONE	Tube	1.0in (25.4mm)	.394in (10mm)	4 oz (118 g)	OT790.036.210
RPG ONE	Microfitting	.236in (6mm)	.157in (4mm)	2 oz (66 g)	OT790.036.304
RPG ONE	Microfitting	.250in (6.35mm)	.157in (4mm)	2 oz (66 g)	OT790.036.301
RPG ONE	Microfitting	.314in (8mm)	.157in (4mm)	2 oz (66 g)	OT790.036.307
RPG ONE	Microfitting	.375in (9.53mm)	.157in (4mm)	2 oz (66 g)	OT790.036.302
RPG ONE	Microfitting	.394in (10mm)	.157in (4mm)	2 oz (66 g)	OT790.036.305
RPG ONE	Microfitting	.472in (12mm)	.157in (4mm)	2 oz (66 g)	OT790.036.306
RPG ONE	Microfitting	.500in (12.7mm)	.157in (4mm)	2 oz (66 g)	OT790.036.303
RPG 1.5	Tube	.118in (3mm)	.591in (15mm)	11 oz (300 g)	OT790.037.220
RPG 1.5	Tube	.125in (3.18mm)	.591in (15mm)	11 oz (300 g)	OT790.037.221
RPG 1.5	Tube	.187in (4.78mm)	.591in (15mm)	11 oz (300 g)	OT790.037.223
RPG 1.5	Tube	.236in (6mm)	.591in (15mm)	11 oz (300 g)	OT790.037.225
RPG 1.5, RPG 2.5	Tube	.250in (6.35mm)	.591in (15mm)	11 oz (300 g)	OT790.037.226
RPG 1.5, RPG 2.5	Tube	.314in (8mm)	.591in (15mm)	11 oz (300 g)	OT790.037.227
RPG 1.5, RPG 2.5	Tube	.375in (9.53mm)	.591in (15mm)	11 oz (300 g)	OT790.037.228
RPG 1.5, RPG 2.5	Tube	.394in (10mm)	.591in (15mm)	11 oz (300 g)	OT790.037.229
RPG 1.5, RPG 2.5	Tube	.472in (12mm)	.591in (15mm)	11 oz (300 g)	OT790.037.230
RPG 1.5, RPG 2.5	Tube	.500in (12.7mm)	.591in (15mm)	11 oz (300 g)	OT790.037.231
RPG 1.5, RPG 2.5	DN 10	.512in (13mm)	.591in (15mm)	10 oz (270 g)	OT790.037.232
RPG 1.5, RPG 2.5	Tube	.625in (15.88mm)	.591in (15mm)	10 oz (270 g)	OT790.037.236
RPG 1.5, RPG 2.5	Tube (DN 15)	.750in (19.05mm)	.591in (15mm)	10 oz (270 g)	OT790.037.241
RPG 1.5, RPG 2.5	DN 20	.906in (23mm)	.591in (15mm)	8 oz (240 g)	OT790.037.245
RPG 1.5, RPG 2.5	Tube	1.0in (25.4mm)	.591in (15mm)	8 oz (240 g)	OT790.037.248
RPG 1.5, RPG 2.5	DN 25	1.142in (29mm)	.591in (15mm)	8 oz (240 g)	OT790.037.251
RPG 1.5, RPG 2.5	Tube	1.25in (31.8mm)	.591in (15mm)	8 oz (240 g)	OT790.037.280
RPG 1.5, RPG 2.5	1in Pipe	1.315in (33.4mm)	.591in (15mm)	8 oz (240 g)	OT790.037.281
RPG 1.5, RPG 2.5	DN 32	1.378in (35mm)	.591in (15mm)	8 oz (240 g)	OT790.037.284
RPG 1.5, RPG 2.5	Tube	1.5in (38.1mm)	.591in (15mm)	8 oz (240 g)	OT790.037.287
RPG 2.5	DN 40	1.614in (41mm)	.591in (15mm)	1.1 lb (498 g)	OT790.030.230
RPG 2.5	1 1/4in Pipe	1.660in (42.4mm)	.591in (15mm)	1.1 lb (498 g)	OT790.030.227
RPG 2.5	1 1/2in Pipe	1.900in (48.3mm)	.591in (15mm)	1.1 lb (498 g)	OT790.030.226
RPG 2.5	Tube	2.0in (50.8mm)	.591in (15mm)	1.1 lb (498 g)	OT790.030.220
RPG 2.5	DN 50	2.087in (53mm)	.591in (15mm)	1.0 lb (454 g)	OT790.030.232
RPG 2.5	2in Pipe	2.375in (60.3mm)	.591in (15mm)	14 oz (397 g)	OT790.030.222
RPG 2.5	Tube	2.5in (63.5mm)	.591in (15mm)	12 oz (340 g)	OT790.030.223
RPG 1.5	Microfitting	.118in (3mm)	.157in (4mm)	8 oz (220 g)	OT790.037.300
RPG 1.5	Microfitting	.125in (3.18mm)	.157in (4mm)	8 oz (220 g)	OT790.037.301



Stainless steel clamping shells



Stainless steel clamping shell for micro fittings

# RPG One, 1.5, & 2.5 Tube Squaring Accessories

WORKS WITH	APPLICATION	TUBE OD	TUBE CLAMPING LENGTH	WEIGHT	CODE
RPG 1.5	Microfitting	0.187 (4.78mm)	.157in (4mm)	8 oz (220 g)	OT790.037.303
RPG 1.5, RPG 2.5	Microfitting	.236in (6mm)	.157in (4mm)	8 oz (220 g)	OT790.037.305
RPG 1.5, RPG 2.5	Microfitting	.250in (6.35mm)	.157in (4mm)	8 oz (220 g)	OT790.037.306
RPG 1.5, RPG 2.5	Microfitting	.314in (8mm)	.157in (4mm)	8 oz (220 g)	OT790.037.307
RPG 1.5, RPG 2.5	Microfitting	.375in (9.53mm)	.157in (4mm)	8 oz (220 g)	OT790.037.308
RPG 1.5, RPG 2.5	Microfitting	.394in (10mm)	.157in (4mm)	8 oz (220 g)	OT790.037.309
RPG 1.5, RPG 2.5	Microfitting	.472in (12mm)	.157in (4mm)	8 oz (220 g)	OT790.037.310
RPG 1.5, RPG 2.5	Microfitting	.500in (12.7mm)	.157in (4mm)	8 oz (220 g)	OT790.037.311
RPG 1.5, RPG 2.5	Microfitting	.750in (19.05mm)	.157in (4mm)	8 oz (220 g)	OT790.037.315

## Tool Holder WH

Fits multifunctional tool OT790.038.314. Includes Torx fixing screw.  
For max. wall thickness 3 mm (0.118 in).

TOOL HOLDER APPLICATION	RECOMMENDED APPLICATION RANGE	RPG ONE (CORDLESS)	RPG 1.5 (CORDLESS)	RPG 2.5 (CORDLESS)	WEIGHT	CODE
WH12-I/Standard* Standard tool holder Squaring	0.236 - .5in (6 - 12.7mm)	0.236 - .1in (6 - 25.4mm)	0.236 - 1.5in (6 - 38.1mm)	0.236 - 2.5in (6 - 63.5mm)	1 oz (40 g)	OT790.037.152
WH12-I Special tool holder Squaring	0.118 - .236in (3 - 6mm)	0.118 - .236in (3 - 6mm)	0.118 - .236in (3 - 6mm)	0.118 - .236in (3 - 6mm)	1 oz (26 g)	OT790.037.161
WH12-I** Special tool holder Squaring micro fittings			0.118 - .84in (3 - 21.2mm)	0.25 - .84in (6.35 - 21.2mm)	4 oz (100 g)	OT790.037.156
WH3-V-30 Tool holder 30° Beveling			Maximum 1.378in (35mm)	Maximum 2.374in (.3 mm)	1 oz (24 g)	OT790.037.158
WH3-V-35 Tool holder 35° Beveling			Maximum 1.327in (33.7mm)	Maximum 2.335in (59.3mm)	1 oz (24 g)	OT790.037.159
WH3-V-45*** Tool holder 45° Beveling			Maximum 1.327in (33.7mm)	Maximum 2.3in (59mm)	1 oz (22 g)	OT790.037.157
WH-I Tool holder Squaring	0.118 - .472in (3 - 12mm)				1 oz (20 g)	OT790.033.150
WH-I Tool holder Squaring	0.472 - .75in (12 - 19.05mm)				1 oz (20 g)	OT790.033.151

\* Supplied as standard with the RPG.

\*\* Only to be used with stainless steel clamping shells for micro fittings.

\*\*\* Not applicable with the RPG XS and the RPG ONE.

## Multifunctional Tool MFW

Two-sided tool bit with protective coating against tool wear.  
Usable for all machines of the RPG series.

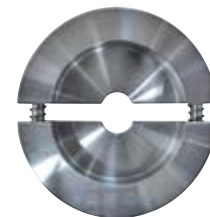
MODEL	QTY	WEIGHT	CODE
Multifunctional tool MFW-P-2	10	1.6 oz (45 g)	OT790.038.315
Torx screw (RPG ONE, RPG 1.5, RPG 2.5)	1	0.1 oz (2 g)	OT790.086.220
Torx screw (RPG XS)	1	0.1 oz (2 g)	OT790.086.217



Stainless steel clamping shells



Tool holder WH



Stainless steel clamping shell for micro fittings



Multifunctional tool MFW