

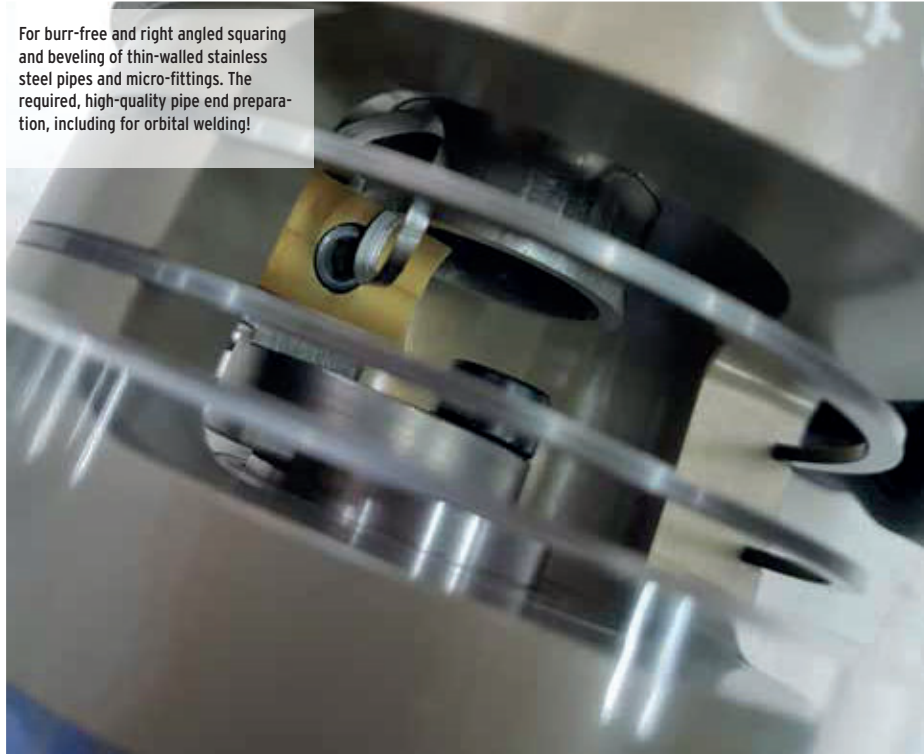
# RPG ONE, RPG 1.5

## Tube squaring machines (electric/battery)

The RPG series stands for ease of use and particularly economical processing.

The domains of the RPG XS series include squaring (I-seam) thin-walled stainless steel pipes and micro-fittings, as well as unalloyed and low-alloyed steels, aluminum, titanium. The machines fit excellently in the hand and its size and weight can hardly be surpassed. Users can select the appropriate clamping collars from the range of accessories for each diameter.

For burr-free and right angled squaring and beveling of thin-walled stainless steel pipes and micro-fittings. The required, high-quality pipe end preparation, including for orbital welding!



Generates a tube squaring surface with very high surface finish	✓
Burr-free and right-angled	✓
Beveling possible with special holder (only RPG 1.5)	✓
Quick change system for tools, clamping collars and pipes	✓
Machining of thin-walled stainless steel pipes (V4A) and micro-fittings	✓
Base plate with 2 cutting edges and high-performance coating	✓
Electric versions with speed controlled electric motor with speed stabilization	✓
Battery versions with powerful and environment-friendly lithium-ion technology	✓
Portable and light machine for mobile and safe use	✓

Pipe and installation manufacturers from the high-purity gas, electronics, pharmaceuticals, food processing, beverages, solar and chemical industries benefit from the mobile, high-quality and burr-free processing of pipe ends with our RPG series.

Tools, clamping shells and pipes can be replaced with the quick change system easily and without additional accessories.

All multifunctional tools (MFW) have up to 2 cutting edges and a high-performance coating against wear. This way pipes made of unalloyed, low-alloyed and high-alloyed steels and aluminum can be processed rapidly and economically with high precision.

In case of an extension or repair of an existing plant we offer the optimum, network-independent solution for tight spaces with the **battery variant**. The battery drive has been adapted to the requirements of the customer.

The machine and accessories are supplied in a handy

transport case, including a 230 V charger for the European market or a 110 V charger for the American market.

#### ADDITIONAL ADVANTAGES:

- Feed with millimeter graduation for an optimum result
- No additional tools required for processing
- Modular design enables compatibility within the RPG series

#### ELECTRIC VERSIONS:

- Rotatable and removable drive
- Speed-controlled electric motor with speed stabilization
- Vario-Tacho-Constamatic (VTC) full-wave electronic control
- Inhibitor protection prevents an inadvertent start-up of the machine after repeated power supply or in case of voltage recovery after power failure
- Adjustment wheel for speed selection
- Robust marathon motor

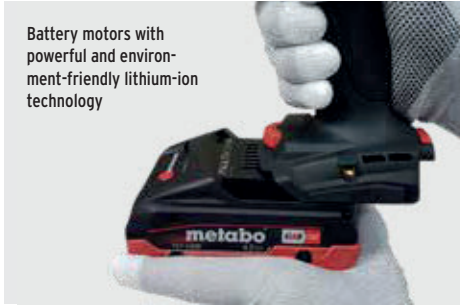
- Overload protection
- Cut-off carbon brushes
- Carbon wear display

#### BATTERY VERSIONS:

- Short overall length
- Lithium-ion technology
- Brushless motor with high performance
- No memory effect
- Single cell monitoring in rechargeable battery pack
- Electronic overload protection with integrated temperature monitor
- Robust rechargeable battery packs with capacity indicator
- Low self-discharge
- Environmentally friendly
- AIR COOLED technology for short charging times and a long service life



Speed-controlled electric motor with speed stabilization



Battery motors with powerful and environment-friendly lithium-ion technology

Technical specifications are non-binding. They do not constitute any assurance of properties. We reserve the right to make changes.

APPLICATION AREA		RPG ONE	RPG ONE BATTERY	RPG 1.5	RPG 1.5 BATTERY
Code	[230 V]	790 036 031	790 036 021	790 037 001	790 037 011
	[115 V]	-	790 036 022	-	790 037 012
	[110 V]	790 036 032	-	790 037 002	-
	[110 V]	790 036 033	-	790 037 003	-
Pipe OD min. - max.	[mm]	3.0* - 25.4	3.0* - 25.4	3.0* - 38.1	3.0* - 38.1
	[inch]	0.118* - 1.0	0.118* - 1.0	0.118* - 1.5	0.118* - 1.5
Wall thickness max.	[mm]	2.0	2.0	3.0	3.0
	[inch]	0.079	0.079	0.118	0.118
Materials		High-alloyed steels (special steel material no. 1.40... - 1.45... according to DIN 17455 and DIN 17456), unalloyed and low-alloyed steels, aluminum.			
TECHNICAL SPECIFICATIONS		RPG ONE	RPG ONE BATTERY	RPG 1.5	RPG 1.5 BATTERY
Dimensions (LxWxH)	[mm]	390 x 70 x 200	261 x 80 x 255	400 x 160 x 350	275 x 90 x 255
	[inch]	15.4 x 2.8 x 7.9	10.3 x 3.2 x 10	15.8 x 6.3 x 13.8	10.8 x 3.5 x 10
Tool speed	[rpm]	145 - 380	0 - 500	145 - 380	0 - 500
Power	[W]	1100	-	1100	-
Exchangeable battery voltage	[V]	-	18	-	18
Capacity	[Ah]	-	4.0	-	4.0
Sound pressure level at the workplace (EN 23741)	[dB (A)]	Approx. 78	Approx. 78	Approx. 78	Approx. 78
Vibration level (EN 50144)	[m/s <sup>2</sup> ]	< 2.5	< 2.5	< 2.5	< 2.5
SCOPE OF DELIVERY		RPG ONE	RPG ONE BATTERY	RPG 1.5	RPG 1.5 BATTERY
Tube squaring machine	PCS	1	1	1	1
transport case	PCS	1	1	1	1
Exchangeable batteries	PCS	-	2	-	2
Charger	PCS	-	1	-	1
Overload fuse (square nut)	PCS	-	-	-	-
Tool holder WH (Code 790 ...)	PCS	1 (... 037 152)	1 (... 037 152)	1 (... 037 152)	1 (... 037 152)
Tool key	set	1	1	1	1
Operating instructions and spare part list	set	1	1	1	1

Base plate for battery machines is optionally available on request (Code 790 037 169)

\* Field of application with standard tool holder (Code 790 037 152) as of 6.0 mm/0.236" possible. With special tool holder (Code 790 037 161) as of 3.0 mm/0.118".



RPG ONE



RPG 1.5



RPG ONE battery



RPG 1.5 battery

## Tube squaring machines

### RPG ONE, RPG 1.5

Special-steel clamping collars have to be ordered separately.

ITEM	VERSION	CODE	MACHINE WEIGHT KG	SHIPPING WEIGHT KG
RPG ONE	230 V, 50/60 Hz EU	<b>790 036 031</b>	4.140	9.600
RPG ONE	110 V, 50/60 Hz US	<b>790 036 032</b>	4.140	9.600
RPG ONE	110 V, 50/60 Hz EU	<b>790 036 033</b>	4.140	9.600
RPG ONE battery (18 V)	230 V, 50/60 Hz EU	<b>790 036 021</b>	2.880	8.200
RPG ONE battery (18 V)	115 V, 60 Hz US	<b>790 036 022</b>	2.880	8.200
RPG 1.5	230 V, 50/60 Hz EU	<b>790 037 001</b>	4.700	9.500
RPG 1.5	110 V, 50/60 Hz US	<b>790 037 002</b>	4.700	9.500
RPG 1.5	110 V, 50/60 Hz EU	<b>790 037 003</b>	4.700	9.500
RPG 1.5 battery (18 V)	230 V, 50/60 Hz EU	<b>790 037 011</b>	3.440	10.100
RPG 1.5 battery (18 V)	115 V, 60 Hz US	<b>790 037 012</b>	3.440	10.100



RPG ONE / RPG ONE battery



RPG 1.5 / RPG 1.5 battery

### Angle drive for RPG ONE (battery) and RPG 1.5 (battery)

The angle drive is available optionally and can be mounted subsequently on the following RPG machines:

RPG ONE; RPG ONE battery; RPG 1.5; RPG 1.5 battery

The angle drive can be used to reduce the overall length to 200 mm (7.874"). The technical specifications remain unchanged.

ITEM	CODE	KG
Angle drive for RPG ONE and RPG 1.5 (battery)	<b>790 037 400</b>	0.475



Angle drive

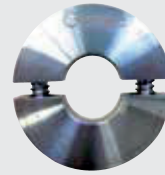
#### TUBE SQUARING TECHNOLOGY

## Special-steel clamping collars

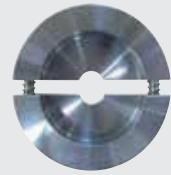
Extremely resistant. Ensure a precise clamping of pipes and micro-fittings and a rapid clamping collar change without tools through a unique design with forcibly actuated clamping shell mechanism. Further clamping collar dimensions are available.

Please check the outer diameter of the pipes before ordering the clamping collars.

Machine model:	Clamping length for pipes:	Clamping length for micro-fittings:
RPG ONE	10.0 mm (0,394")	4.0 mm (0,157")
RPG 1.5	15.0 mm (0,591")	4.0 mm (0,157")



Stainless-steel clamping collar  
For pipes



Stainless-steel clamping collar  
For micro-fittings

MACHINE TYPE	RPG ONE					RPG 1.5			
	PIPE OD		PIPES		MICRO-FITTINGS	PIPES		MICRO-FITTINGS	
[MM]	[INCH]	790...	KG	790...	KG	790...	KG	790...	KG
3.00	0.118	036 232	0.118	-	-	037 220	0.300	037 300	0.225
3.18	0.125	036 201	0.119	-	-	037 221	0.308	037 301	0.227
4.00	0.157	-	-	-	-	037 222	0.310	037 302	0.226
4.78	0.188	-	-	-	-	037 223	0.310	037 303	0.234
5.00	0.197	-	-	-	-	037 224	0.308	037 304	0.228
6.00	0.236	036 213	0.117	036 304	0.066	037 225	0.310	037 305	0.220
6.35	0.250	036 202	0.118	036 301	0.066	037 226	0.306	037 306	0.460
7.00	0.276	036 214	0.118	-	-	037 257	0.306	037 333	-
8.00	0.315	036 215	0.118	036 307	0.065	037 227	0.299	037 307	0.223
9.00	0.354	-	-	-	-	037 254	0.280	-	-
9.53	0.375	036 203	0.115	036 302	0.064	037 228	0.297	037 308	0.300
10.00	0.394	036 204	0.115	036 305	0.065	037 229	0.298	037 309	0.222
10.10	0.398	036 222	0.114	-	-	-	-	-	-
11.00	0.433	036 226	0.112	-	-	037 293	0.252	-	-
11.11	0.437	-	-	-	-	037 255	0.295	-	-
12.00	0.472	036 205	0.112	036 306	0.064	037 230	0.293	037 310	0.220
12.10	0.476	036 223	0.111	-	-	-	-	-	-
12.50	0.492	-	-	-	-	-	-	037 317	0.220
12.70	0.500	036 206	0.111	036 303	0.062	037 231	0.292	037 311	0.220
13.00	0.512	-	-	-	-	037 232	0.295	-	-
13.20	0.520	-	-	-	-	037 263	0.290	-	-
13.50	0.531	036 227	0.110	-	-	037 233	0.290	-	-
14.00	0.551	036 228	0.108	-	-	037 234	0.288	-	-
14.10	0.555	036 224	0.107	-	-	-	-	-	-
14.30	0.563	-	-	-	-	037 253	0.289	-	-
14.70	0.579	-	-	-	-	037 290	0.287	-	-
15.00	0.591	036 216	0.107	-	-	037 235	0.287	-	-
15.30	0.602	-	-	-	-	037 259	0.287	-	-
15.60	0.614	036 225	0.105	-	-	-	-	-	-
15.70	0.618	-	-	-	-	037 291	0.284	-	-
15.88	0.625	036 211	0.105	-	-	037 236	0.285	-	-
16.00	0.630	036 212	0.104	-	-	037 237	0.285	-	-
17.00	0.670	036 221	0.103	-	-	037 256	0.280	-	-
17.08	0.672	-	-	-	-	037 260	0.281	-	-
17.20	0.677	036 207	0.104	-	-	037 238	0.300	037 312	0.220
18.00	0.709	036 217	0.102	-	-	037 239	0.280	-	-
19.00	0.748	-	-	-	-	037 240	0.275	037 314	0.216
19.05	0.750	036 208	0.100	-	-	037 241	0.274	037 315	0.215
20.00	0.787	036 230	0.096	-	-	037 242	0.272	-	-
21.00	0.827	-	-	-	-	037 294	0.270	-	-
21.20	0.835	-	-	-	-	-	-	037 313	0.213
21.30	0.839	036 209	0.094	036 317	0.057	037 243	0.270	037 318	0.212
21.70	0.854	036 220	0.093	-	-	037 261	0.270	-	-
22.00	0.866	036 218	0.093	-	-	037 244	0.264	-	-
22.22	0.875	-	-	-	-	037 292	0.270	-	-
23.00	0.906	036 219	0.085	-	-	037 245	0.255	-	-
24.00	0.945	-	-	-	-	037 246	0.256	-	-
25.00	0.984	036 231	0.081	-	-	037 247	0.252	-	-
25.40	1.000	036 210	0.083	-	-	037 248	0.240	-	-
26.90	1.059	-	-	-	-	037 249	0.260	-	-
27.00	1.063	-	-	-	-	037 264	0.260	-	-

### TUBE SQUARING TECHNOLOGY

MACHINE TYPE		RPG ONE				RPG 1.5			
PIPE OD		PIPES		MICRO-FITTINGS		PIPES		MICRO-FITTINGS	
[MM]	[INCH]	790...	KG	790...	KG	790...	KG	790...	KG
27.20	1.071	-	-	-	-	<b>037 262</b>	0.260	-	-
28.00	1.102	-	-	-	-	<b>037 250</b>	0.240	-	-
29.00	1.142	-	-	-	-	<b>037 251</b>	0.232	-	-
30.00	1.181	-	-	-	-	<b>037 252</b>	0.228	-	-
31.80	1.250	-	-	-	-	<b>037 280</b>	0.230	-	-
32.00	1.260	-	-	-	-	<b>037 258</b>	0.226	-	-
33.40	1.315	-	-	-	-	<b>037 281</b>	0.220	-	-
33.70	1.327	-	-	-	-	<b>037 282</b>	0.218	-	-
34.00	1.339	-	-	-	-	<b>037 283</b>	0.215	-	-
35.00	1.377	-	-	-	-	<b>037 284</b>	0.210	-	-
36.00	1.417	-	-	-	-	<b>037 285</b>	0.204	-	-
38.00	1.496	-	-	-	-	<b>037 286</b>	0.199	-	-
38.10	1.500	-	-	-	-	<b>037 287</b>	0.194	-	-



Tool holder WH

## Tool holder WH

For max. wall thickness 3 mm.

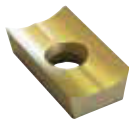
Application area Tool holder	Machine method		Beveling angle [°]		Pipe OD	
	Squaring	Beveling			RPG ONE (battery)	RPG 1.5 (battery)
WH12-I/Standard* Code 790 037 152	x	-	-	[mm]	6.0 - 25.4	6.0 - 38.1
				[inch]	0.236 - 1.0	0.236 - 1.5
WH12-I Code 790 037 161	x	-	-	[mm]	3.0 - 6.0	3.0 - 6.0
				[inch]	0.118 - 0.236	0.118 - 0.236
WH12-I/Micro-fittings** Code 790 037 156	x	-	-	[mm]	-	3.0 - 21.2
				[inch]	-	0.118 - 0.84
WH3-V-30*** Code 790 037 158	-	x	30°	[mm]	-	max. 35.0
				[inch]	-	max. 1,378
WH3-V-35*** Code 790 037 159	-	x	35°	[mm]	-	max. 33.7
				[inch]	-	max. 1,327
WH3-V-45*** Code 790 037 157	-	x	45°	[mm]	-	max. 33.7
				[inch]	-	max. 1,327

ITEM	CODE	KG
Standard tool holder WH12-I*	<b>790 037 152</b>	0.040
Special tool holder WH12-I	<b>790 037 161</b>	0.026
Special tool holder micro-fittings WH12-I**	<b>790 037 156</b>	0.100
Tool holder WH3-V-30***	<b>790 037 158</b>	0.024
Tool holder WH3-V-35***	<b>790 037 159</b>	0.024
Tool holder WH3-V-45***	<b>790 037 157</b>	0.022

\* Included in the standard scope of delivery.

\*\* Only to be used with special steel clamping collars for micro-fittings.

\*\*\* Cannot be used with the RPG ONE.



Multifunctional tool MFW

## Multifunctional tool MFW

With 2 cutting edges and process-specific tool wear protective coating.  
Can be used with all the machines of the RPG series.

ITEM	QUAN- TITY	CODE	KG
Multifunctional tool MFW-P-2	10	<b>790 038 315</b>	0.045
Torx screw	1	<b>790 086 220</b>	0.002