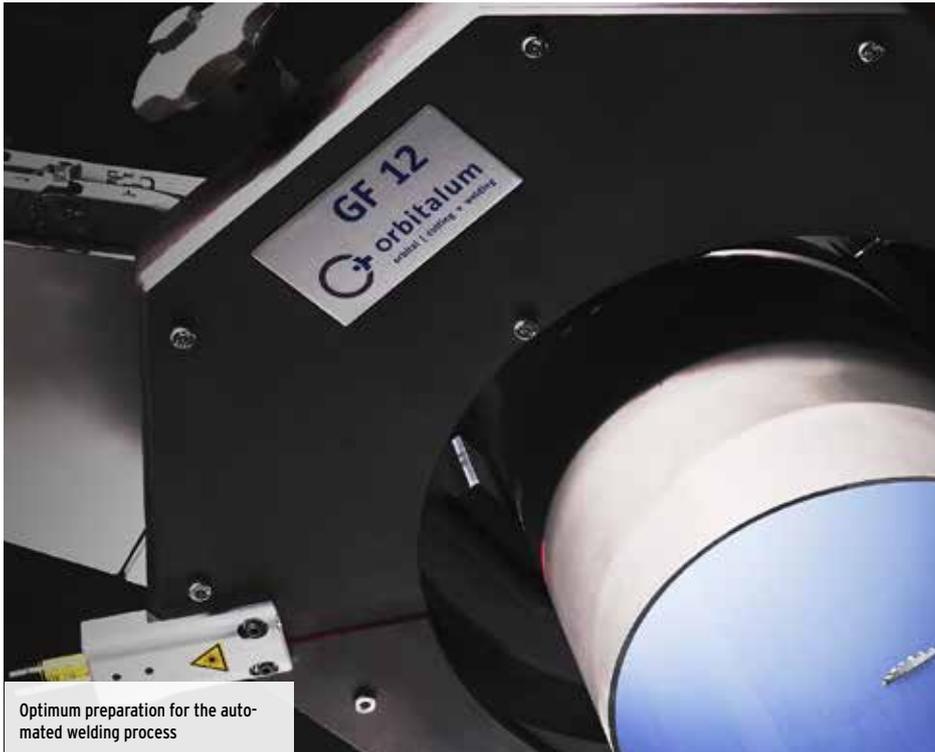


# GF 8, GF 12 (AVM/MVM)

## Pipe cutting and beveling machines

Cost effective pipe processing with top technology by Orbitalum Tools!

Cutting and beveling in seconds of pipes made of high-alloyed steel (special steel), low-alloyed and unalloyed steel, cast materials, plastics and non-ferrous metals according to the procedure of the "planetary cutting".



Right-angled, burr-free and cold processing process	✓
Deformation-free clamping system for thin-walled and thick-walled pipes	✓
Optimum preparation for the automated welding process	✓
Robust design with powerful drive	✓
Unique, automatically guided immersion process	✓
Multipoint clamping of the pipe	✓
Quick setting of the pipe dimension	✓
Cutting speed regulation	✓
Quick tool change	✓

Optimum preparation for the automated welding process

**"Increased safety through standing pipe - rotating tool". The tried-and-tested procedure of "planetary cutting" is an important feature which is characteristic for ORBITALUM pipe saws.**

The saw blade immerses into the cut and is guided orbitally around the pipe. The advantage of this is that a small saw blade allows cutting a large pipe diameter without heating up the pipe.

**Innovative clamping principle through multipoint clamping of the pipe:** Deformation-free clamping allows pipes to be cut easily and quickly material-dependently with a wall thickness of 2 up to 10 mm (0.079" - 0.394"). You can machine all high-alloyed, unalloyed and low-alloyed steels, aluminum, copper, brass, annealed cast pipe, general structural steel, black and galvanized steel pipe and plastic. Optionally the user, apart from pure manual actuation, has the choice between a manual (MVM) and an automatic (AVM) feeding module. The latter optimizes the cutting result, increases the service life of the tools, and reduces physical strain for the operator. The result: maximum reliability and productivity.

### ADDITIONAL ADVANTAGES:

- Optionally with feeding module AVM or MVM for automatic or mechanized separation cut, thus lower physical strain for the operator.
- Optimum tool action at only one point of the pipe respectively.
- Optimized speed control (40-215 rpm), ideal for cutting high-performance materials (Hastelloy®, P91, etc.)
- Ergonomically designed motor handle, therefore safe operator position
- Separate cutting in seconds
- Beveling of pipe ends during the cutting process or separately
- Increased productivity
- Increased service life of the tools
- More corrosion protection through stainless steel clamping jaw attachments (included)
- Cable incl. plug connection with a quick-disconnect coupler for easy and quick replacement of power cables

### FEED VARIANTS:

Pipe cutting and beveling machine with **automated feeding module AVM\***: The intelligent control of the AVM continuously monitors the feed force as a function of the required output. After completion of the cutting process the AVM switches off automatically. An inadvertent startup is prevented by a restart inhibitor. Pipe cutting and beveling machines **with manual feeding module MVM\***: An add-on module at the machine makes it easier to process pipes through a manually operated handwheel. This ensures that the machine head rotates easily around the pipe user-friendly with little effort and constant feed.



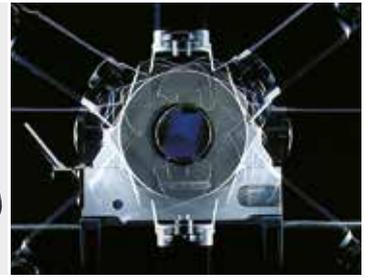
Optional with feeding module AVM or MVM



Feeding module MVM



Optimized speed range through new motor



Planetary cutting principle

APPLICATION AREA		GF 8	GF 8 AVM*	GF 8 MVM*	GF 12	GF 12 AVM*	GF 12 MVM*
Code	[230 V]	790 045 095	790 045 001	790 045 069	790 047 095	790 047 001	790 047 069
	[120 V]	790 045 096	790 045 007	790 045 082	790 047 096	790 047 007	790 047 082
Pipe OD	[mm]	114 - 230	114 - 230	114 - 230	157 - 325	157 - 325	157 - 325
	[inch]	4.488 - 9.055	4.488 - 9.055	4.488 - 9.055	6.181 - 12.795	6.181 - 12.795	6.181 - 12.795
Wall-thickness depending on material	[mm]	2 - 10	2 - 10	2 - 10	2 - 10	2 - 10	2 - 10
	[inch]	0.079 - 0.394	0.079 - 0.394	0.079 - 0.394	0.079 - 0.394	0.079 - 0.394	0.079 - 0.394
Pipe ID min. (saw blade Ø 63 mm)	[mm]	137	137	137	190	190	190
Pipe ID min. (saw blade Ø 2.480")	[inch]	5.394	5.394	5.394	7.480	7.480	7.480
Pipe ID min. (saw blade Ø 68 mm)	[mm]	132	132	132	185	185	185
Pipe ID min. (saw blade Ø 2.677")	[inch]	5.197	5.197	5.197	7.283	7.283	7.283
Pipe ID min. (saw blade Ø 80 mm)	[mm]	120	120	120	173	173	173
Pipe ID min. (saw blade Ø 3.150")	[inch]	4.724	4.724	4.724	6.811	6.811	6.811
Pipe ID min. (saw blade Ø 100 mm)	[mm]	100	100	100	153	153	153
Pipe ID min. (saw blade Ø 3.937")	[inch]	3.937	3.937	3.937	6.024	6.024	6.024
Materials		Special steel (any Cr- and Mo-content); special steel stainless (any Cr- and Mo-content); special steel (Cr < 12% and Mo < 2.5%; Cr < 20% and Mo = 0%); Case hardening steels, high-speed steels, heat-treated steels, rolling bearing steels, tool steels; black and galvanized steel pipe; general structural steel; annealed cast pipe (GGG); aluminum; brass; copper; plastic (PE, PP, PVDE, PVC)					
TECHNICAL SPECIFICATIONS		GF 8	GF 8 AVM*	GF 8 MVM*	GF 12	GF 12 AVM*	GF 12 MVM*
Power	[kW]	1.8	1.9	1.8	1.8	1.9	1.8
	[hp]	2.41	2.54	2.41	2.41	2.54	2.41
Power AVM	[kW]	-	0.05	-	-	0.05	-
	[hp]	-	0.07	-	-	0.07	-
Built-in electronic speed regulation with speed stabilization	[rpm]	40 - 215	40 - 215	40 - 215	40 - 215	40 - 215	40 - 215
Rotary speed machine head with AVM	[rpm]	-	0.1 - 2.3	-	-	0.1 - 1.8	-
Torque machine head max. with AVM	[Nm]	-	165	-	-	210	-
Protection class	[Class]	II (DIN EN 60745-1)	I (DIN EN 60204-1)	II (DIN EN 60745-1)	II (DIN EN 60745-1)	I (DIN EN 60204-1)	II (DIN EN 60745-1)
Sound pressure level at the workplace approx.	[dB (A)]	79	79	79	79	79	79
Vibration level (according to DIN EN 28662, Part 1)	[m/s <sup>2</sup> ]	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5
Mains fuse on site	[A]	16	16	16	16	16	16
Dimensions (LxWxH)	[mm]	778 x 430 x 485	918 x 430 x 485	788 x 430 x 485	940 x 374 x 592	1,070 x 374 x 592	1,090 x 374 x 592
	[inch]	30.6 x 16.9 x 19.1	36.1 x 16.9 x 19.1	31.0 x 16.1 x 19.1	37.0 x 14.7 x 23.3	42.1 x 14.7 x 23.3	42.9 x 14.7 x 23.3
Machine weight approx.**	[kg]	102.5	110.0	104.6	138.6	146.1	140.7
	[lbs]	225.9	242.5	230.6	305.6	322.1	310.2
Versions (single-phase alternating current)	[V, Hz]	230 V, 50/60 Hz	230 V, 50/60 Hz	230 V, 50/60 Hz	230 V, 50/60 Hz	230 V, 50/60 Hz	230 V, 50/60 Hz
		120 V, 50/60 Hz	120 V, 50/60 Hz	120 V, 50/60 Hz	120 V, 50/60 Hz	120 V, 50/60 Hz	120 V, 50/60 Hz
SCOPE OF DELIVERY		GF 8	GF 8 AVM*	GF 8 MVM*	GF 12	GF 12 AVM*	GF 12 MVM*
Pipe cutting and beveling machine	PCS	1	1	1	1	1	1
Transportation case	PCS	1	1	1	1	1	1
Saw blade (Code 790 043 018)	PCS	1	1	1	1	1	1
Mounting plate	PCS	1	1	1	1	1	1
Line laser with fastening screws and 10 button cells 1.5 V (Code 790 142 124)	PCS	1	1	1	1	1	1
Tool key set	set	1	1	1	1	1	1
Saw blade lubricant GF TOP (Code 790 060 228)	Tube	1	1	1	1	1	1
Special gear oil (Code 790 041 030)	Bottle	1	1	1	1	1	1
Operating instructions with spare parts list	set	1	1	1	1	1	1

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

\* The automatic or manual feeding module AVM/MVM is already mounted on the pipe saw on delivery.

\*\* Weight without packaging and accessories.



GF 8

GF 8 AVM

GF 8 MVM

GF 12

GF 12 AVM

GF 12 MVM