



GRAVOTECH

by  BRADY



ENGRAVING PARAMETERS

LS900 80 W

SUMMARY

PLASTICS >	Gravoply™ Laser	3
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	Gravoply™ 2	
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MACHINE CONFIGURATION



Machine	LS900
Source power	80 W
Lens	2"

ENGRAVING EXAMPLES

**RASTER
ENGRAVING**

Raster
Text engraving

**VECTOR
ENGRAVING**

Vector
Line engraving

**VECTOR
CUTTING**

Vector cutting
Cutting

GRAVOPLY™ LASER

Type	Thickness	Power	Speed	DPI (%)	Focus Offset	Air assist	Passes
Raster	0,8 mm	20	100	500	0	No	1
	1,3 mm	20	100	500	0	No	1
	1,6 mm	20	100	500	0	No	1
Vector	0,8 mm	9	100	500	0	No	1
	1,3 mm	9	100	500	0	No	1
	1,6 mm	9	100	500	0	No	1
Vector cutting	0,8 mm	31	40	500	0	Yes	1
	1,3 mm	37	30	500	0	Yes	1
	1,6 mm	37	25	500	0	Yes	1

GRAVOPLY™ ULTRA

Type	Thickness	Power	Speed	DPI (%)	Focus Offset	Air assist	Passes
Raster	0,5 mm	20	100	500	0	No	1
	1,6 mm	20	100	500	0	No	1
	2,4 mm	20	100	500	0	No	1
Vector	0,5 mm	9	100	500	0	No	1
	1,6 mm	9	100	500	0	No	1
	2,4 mm	6	100	500	0	No	1
Vector cutting	0,5 mm	18	40	500	0	Yes	1
	1,6 mm	38	25	500	0	Yes	1
	2,4 mm	38	10	500	0	Yes	1

GRAVOPLY™ 2

Type	Thickness	Power	Speed	DPI (%)	Focus Offset	Air assist	Passes
Raster	-	20	100	500	0	No	1
Vector	-	6	100	500	0	No	1

Gravoply™ 2 is not recommended for laser cutting, which is why no cutting parameters are provided.

ACRYLICS

GRAVOGLAS™ 1

Type	Thickness	Power	Speed	DPI (%)	Focus Offset	Air assist	Passes	Comments
Raster	1,5 mm	31	90	500	0	No	1	Engraving below
	3 mm	31	90	500	0	No	1	Engraving below
	5 mm	31	90	500	0	No	1	Engraving below
Vector	1,5 mm	16	40	500	0	No	1	Engraving below
	3 mm	16	40	500	0	No	1	Engraving below
	5 mm	16	40	500	0	No	1	Engraving below
Vector cutting	1,5 mm	36	18	500	0	Yes	1	Leave a protection film
	3 mm	38	10	500	0	Yes	1	Leave a protection film
	5 mm	38	6	500	0	Yes	1	Leave a protection film

ACRYLIC

Type	Thickness	Power	Speed	DPI (%)	Focus Offset	Air assist	Passes	Comments
Raster	3 mm	20	100	500	0	No	1	
	5 mm	20	100	500	0	No	1	
	10 mm	20	100	500	0	No	1	
Vector	3 mm	9	100	500	0	No	1	
	5 mm	9	100	500	0	No	1	
	10 mm	9	100	500	0	No	1	
Vector cutting	3 mm	38	5	500	0	Yes	1	Pin table recommended
	5 mm	38	3	500	0	Yes	1	Pin table recommended
	10 mm	38	0,8	500	0	Yes	1	Pin table recommended

FLEXIBLE FOILS

RUBBALASE™

Type	Thickness	Power	Speed	DPI (%)	Focus Offset	Air assist	Passes
Raster	2,2 mm	38	19	500	0	No	1
Vector cutting	2,2 mm	38	10	500	0	Yes	1
Vector Pnt	2,2 mm	38	10	500	0	Yes	1

FLEXILASE™

Type	Thickness	Power	Speed	DPI (%)	Focus Offset	Air assist	Passes	Comments
Raster	0,25 mm	19	100	500	0	No	1	Gravogrip use recommended for fixing
Vector	0,25 mm	9	100	500	0	No	1	Gravogrip use recommended for fixing
Vector cutting	0,25 mm	19	35	500	0	Yes	1	Gravogrip use recommended for fixing

STICKALASE™

Type	Thickness	Power	Speed	DPI (%)	Focus Offset	Air assist	Passes	Comments
Raster	0,09 mm	18	100	500	0	No	1	Gravogrip use recommended for fixing
Vector	0,09 mm	2	50	500	0	No	1	Gravogrip use recommended for fixing
Vector cutting	0,09 mm	4	50	500	0	Yes	1	Gravogrip use recommended for fixing

GRAVOLASE™ METALLICS

Type	Thickness	Power	Speed	DPI (%)	Focus Offset	Air assist	Passes
Raster	0,5 mm	20	100	500	0	No	1
	1,6 mm	20	100	500	0	No	1
Vector	0,5 mm	9	100	500	0	No	1
	1,6 mm	9	100	500	0	No	1
Vector cutting	0,5 mm	17	40	500	0	Yes	1
	1,6 mm	36	20	500	0	Yes	1

METALLEX™

Type	Thickness	Power	Speed	DPI (%)	Focus Offset	Air assist	Passes
Raster	0,5 mm	20	100	500	0	No	1
	0,8 mm	20	100	500	0	No	1
	1,6 mm	20	100	500	0	No	1
	2,4 mm	20	100	500	0	No	1
Vector	0,5 mm	8	100	500	0	No	1
	0,8 mm	8	100	500	0	No	1
	1,6 mm	8	100	500	0	No	1
	2,4 mm	8	100	500	0	No	1

Metallex™ is not recommended for laser cutting, which is why no cutting parameters are provided.

METALS

GRAVOXAL™

Type	Thickness	Power	Speed	DPI (%)	Focus Offset	Air assist	Passes
Raster		38	50	500	0	No	1
Vector		20	50	500	0	No	1

Gravoxal™ is made of anodized aluminum, which makes it impossible to cut with a CO2 laser.

ALUMAMARK®

Type	Thickness	Power	Speed	DPI (%)	Focus Offset	Air assist	Passes
Raster		19	50	500	0	No	1
Vector		9	50	500	0	No	1

DURABLACK®

Type	Thickness	Power	Speed	DPI (%)	Focus Offset	Air assist	Passes
Raster		15	50	500	0	No	1
Vector		11	50	500	0	No	1

GRAVOMETALL™

Type	Thickness	Power	Speed	DPI (%)	Focus Offset	Air assist	Passes
Raster		20	100	500	0	No	1
Vector		15	50	500	0	No	1

Gravometal™ is made of brass, which makes it impossible to be cut with a CO2 laser.

PHENOLICS

GRAVOSTRAT™

Type	Thickness	Power	Speed	DPI (%)	Focus Offset	Air assist	Passes
Raster		20	30	500	0	No	1
Vector		20	30	500	0	No	1

Gravostrat™ is not recommended for laser cutting, which is why no cutting parameters are provided.

ADA

GRAVOTAC™ EXTERIOR

Type	Thickness	Power	Speed	DPI (%)	Focus Offset	Air assist	Passes
Vector cutting	0,8 mm	20	37	500	0	Yes	1
	1,6 mm	38	27	500	0	Yes	1
	3,2 mm	38	9	500	0	Yes	1