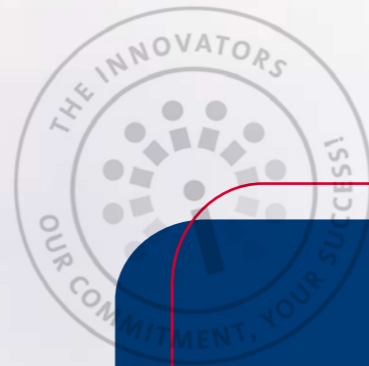




[WWW.RESATO.COM/WATERJET](http://WWW.RESATO.COM/WATERJET)

THE POWER OF SIMPLICITY



## The power of simplicity

The technology for waterjet cutting developed by Resato may be complicated, but its translation into machines is simple. Just like operation and maintenance. Ease of use and ergonomics are foremost in the design of the machines. The components are easily accessible. Due to the application of direct linear motors, maintenance is minimal, also over the longer term. Innovative solutions for problems that are usually coupled with high working pressures – such as 'tapering' – are successfully addressed. The new C3 (Compensated Contour Cutting) cutting head guarantees an always straight cut from top to bottom.



### Maintenance-free

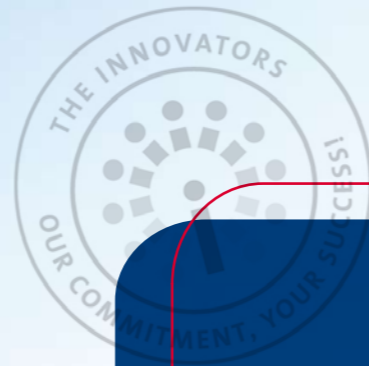
The Resato Waterjet cutting machine has few moving components; the drive is maintenance-free

### High cutting quality

Undesired effects, such as 'tapering', are a thing of the past

### Innovative cutting head

Special software compensates for deviations in the micron range



## A piece of cake

Anyone can easily operate the control panel, which is provided with a touch screen. The simple input of minimal data on the screen is sufficient; the whole process can be simulated before any cutting begins. By adjusting process parameters such as abrasives feed, water pressure and cutting speed, the process can be further optimised.

Thereafter, just about any material can be cut into the desired form: from metals to plastics, from cardboard to frozen cake.

There is hardly any limitation to the thickness and complexity of the shape.



### Control panel

Easy operation

### Process optimisation

- Abrasives feed
- Water pressure
- Cutting speed



## Over and over again

Resato has developed a unique drive system for waterjet cutting machines. Direct linear motors position the cutting head with a precision and repeatability in the micron range. This allows for unprecedented cutting tolerances in dimensions, parallelism and squareness. It is even possible to interrupt the cutting process and subsequently continue without any problems, because the cutting head always returns to exactly the correct position. This direct drive system leaves the performances of mechanical drives, such as ball race shafts and toothed rack and pinion combinations, far behind. There is no question of any play caused by change round. In this way, the same results are achieved over and over again, with a constant high quality.

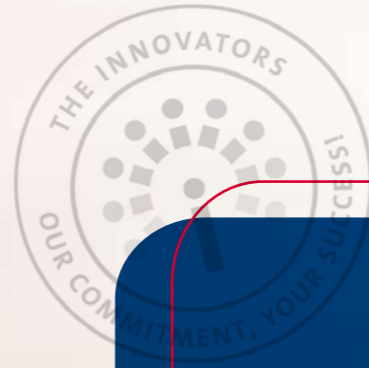


### Accurate

Positioning and repeatable accuracy in the order of microns

### Productive

The direct linear drive makes high cutting speeds possible



## Never too much of a good thing

The advanced dynamics of the direct linear drive pave the way for the application of higher cutting speeds, using a pump with a working pressure of 6000 bar. Not only can cutting speeds be increased by fifty per cent compared to a 4000 bar pump, but also less abrasives and water are used. These benefits translate into higher productivity and lower production costs.

The critical components in Resato's waterjet machines are completely designed for the task at such high water pressures.



### Productivity

High working pressures, up to 6000 bar, reduce the cutting time by 50%

### Wastage

Savings on abrasives, water and energy



**Resato**  
WATERJET TECHNOLOGY





#### Cutting heads

#### Advantages

- Higher cut quality
- Higher cutting speeds
- Automatic abrasives feed
- Less abrasives use

#### Important attributes

- Working pressures of up to 6000 bar
- Up to 50% faster
- Adjustable from 50 to 1000 g
- 10–20% savings on abrasives

#### Control panel

#### Advantages

- No specific CNC knowledge required
- Extremely user-friendly operation
- Continuously adjustable parameters during the cutting process
- Visualisation of all (cutting) activities

#### Important attributes

- Windows operating system
- Embedded MMI software for windows XP
- Specifically designed for waterjet cutters
- Mobile 15" touch panel

#### Cutting tables

#### Advantages

- Direct linear drive on all axes
- No play after change rounds
- Better cutting performances
- Higher quality cut
- Insensitive to wear
- Virtually maintenance free

#### Important attributes

- Unique concept
- Positioning accuracy  $\pm 0.02$  mm/m
- Repeatable accuracy  $\pm 0.015$  mm
- Contact-free transmission
- Low maintenance costs
- More production

#### Powerjet pumps

#### Advantages

- Low energy consumption
- Noiseless
- Ceramic plunger rams
- Constant working pressure
- Low maintenance costs

#### Important attributes

- Up to 20% less power usage
- Noise levels fewer than 72 dB(A)
- Standing time for high-pressure seals approx. 1000 hours
- 2.5-litre accumulator
- 25-litre oil tank

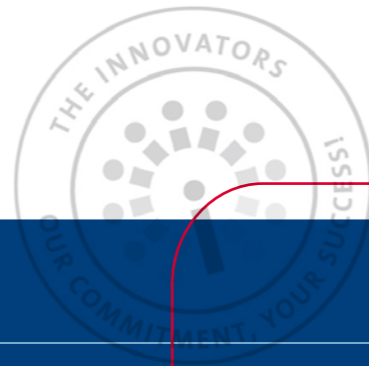
**The power of simplicity**

**A piece of cake**

**Over and over again**

**Never too much**

**of a good thing**



### Available machine types

Net cutting area (X x Y) in mm

1500	x	1500
2000	x	1000
2000	x	1500
2000	x	2000
2000	x	4000
2000	x	6000
3000	x	1500
3000	x	2000
3000	x	3000
3000	x	4000
3000	x	6000
4000	x	4000
4000	x	6000
4000	x	8000
4000	x	12000

Other dimensions on request.

### Available pump types

Type

PJ	2-4000
PJ	4-4000
PJ	8-4000
UPJ	3-6000

Other pump types on request.

Machine type

1 cutting head

2 cutting heads

3 cutting heads

4 cutting heads

R-LCM 1515 -1			
R-LCM 2010 -1			
R-LCM 2015 -1			
R-LCM 2020 -1	R-LCM 2020 -2		
R-LCM 2040 -1	R-LCM 2040 -2		
R-LCM 2060 -1	R-LCM 2060 -2		
R-LCM 3015 -1	R-LCM 3015 -2	R-LCM 3015 -3	
R-LCM 3020 -1	R-LCM 3020 -2	R-LCM 3020 -3	
R-LCM 3030 -1	R-LCM 3030 -2	R-LCM 3030 -3	
R-LCM 3040 -1	R-LCM 3040 -2	R-LCM 3040 -3	
R-LCM 3060 -1	R-LCM 3060 -2	R-LCM 3060 -3	
	R-LCM 4040 -2		R-LCM 4040 -4
	R-LCM 4060 -2		R-LCM 4060 -4
	R-LCM 4080 -2		R-LCM 4080 -4
	R-LCM 40120-2		R-LCM 40120 -4



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