

WET PROCESSING WITH exateq

You are an experienced user of wet benches? Talk to us about your next level of improvement.

Wet processing is new to you? Building on us will be key to your success.

Based on more than 40 years of joint background in designing and building wet benches we employ experience aided techniques to do this for you and jointly with you.

Our focus:

- » Platform based engineering – keeping the concept – scaling the design
 - › macroscopic: customized products
 - › microscopic: using proven components
- » Cost efficient design and manufacturing = best value for money



exateq
experience aided techniques

SOLAR CELL PROCESSING

Our 'q' platform uses one design base for three levels of throughput:

High throughput	> 100 MW	q400	(400 wafers/batch)
Standard throughput	< 100 MW	q200	(200 wafers/batch)
Lab application		q50, q25	(50 or 25 wafers/batch)

Standard applications are etching, texturing and cleaning.

STANDARD FEATURES

- » Large sections
- » Minimized footprint
- » Integrated power and control electrics
- » Loading/unloading buffer 6 batches
- » Independent Hot DI generation
- » Recirculated baths
- » Immersion heaters
- » Double sided overflow
- » Flow controlled dosing
- » Wafer thickness at drying > 120 µm

UPGRADES/OPTIONS

- » Power heaters above 12 kW/bath
- » PFA coated heaters in recirculation loop
- » Eco (cascading)
- » Effi³ (ultrafast exchange of hot baths)
- » Weight-based dosing of chemicals (±2 g)
- » Hot DI generation integrated
- » Filter fan units
- » Effluent lift stations, integrated
- » Bulk chemical supply systems

TECHNICAL DATA (TYPICAL)

Illustrated for a typical alkaline texturing process (pre-clean, texturing, cleaning, drying)

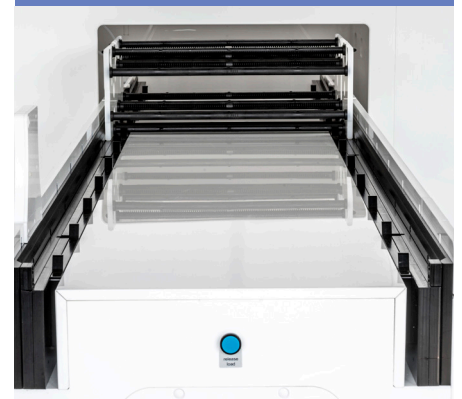
	qTex 400	qTex 200	qTex 50	Unit
Throughput, gross	6000	3000	n/a	wafers/h
L* x W x H	17.6 x 2.4 x 2.3	17.6 x 1.8 x 2.3	7.4 x 1.6 x 2.3	m ³
Utilities				
Compressed air	20	20	< 1	m ³ /h
Clean dry air/N₂	40	20	5	m ³ /h
Power, peak	230	190	40	kW
Exhaust Flow	13,500	10,000	2,400	m ³ /h

* Subject to process details, includes loading + unloading buffer

Process tank with lid and overflow rinse



Loading/unloading buffer



qTex 200, operating side

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