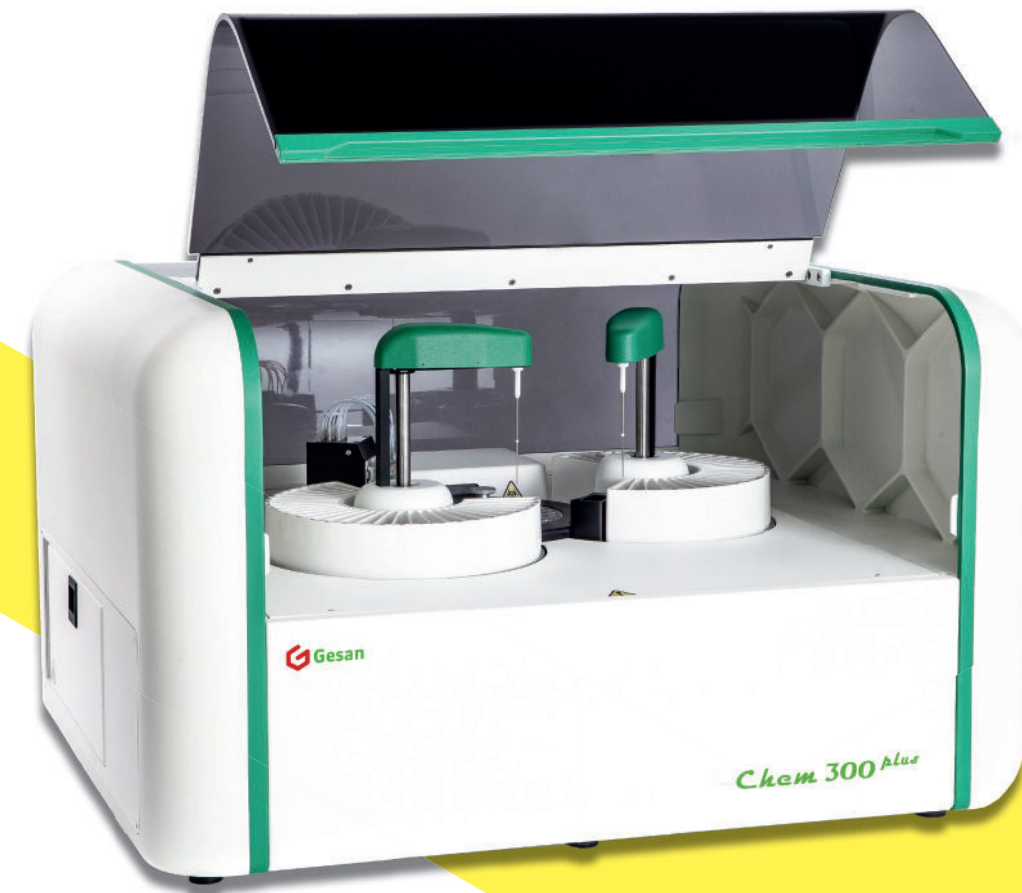




Chem 300 plus

Technical Specifications *Chem 300 plus*

System Type	Fully Automatic, Random Access, STAT sample priority	Reaction Cuvettes	80 washable BIONEX® cuvettes which allow approximately 20000 tests for a fully loaded rotor
Throughput	Up to 300 tests / hour	Reaction Volume	210 - 400 µl
Analysis Methods	Endpoint (Bichromatic-Differential-Sample blank), Kinetics, Fixed-Time, Turbidimetry	Reaction Time	Up to 11 min
Calibration Curve	Linear, Non Linear, Cubic - Spline, Multi Point, Log - Logit	Reaction Temperature	38°C ± 0.1°C
Sample Type	Serum, Plasma, Urine, CSF	Optical Source	1 halogen lamp (6 V, 10 W) with extended UV emission
Sample Positions	Removable tray, with 60 positions - Optional 20 tubes + 20 Hitachi cups = 40 positions	Optical Range	0 - 3 Abs Linearity ±0.5% from 0.1 to 1.5 Abs
Sample Volume	2 - 300 µl	Optical Path	6 mm
Sample Cuvettes	Tubes of 12 - 13 mm, 5 - 7 ml / cups of 0.5-1.5 ml (require a metal adapter) - optional 20 tubes of 12 - 16 mm / 20 cups (Hitachi type).	Wavelength	8 interference filters of 340, 405, 505, 546, 578, 600, 650, 700 nm, 1 free position, 1 solid position for dark reading
Sample Dilution	Yes - Automatic by software	Photo - Amplifier	Photoelectric detector, Signal amplifier, response range, 340 nm to 900 nm
Stat Samples	Yes	Diluter Syringe	368 µl capacity, long-life syringe
Sampling Technology	Capacitive Liquid Level Detection, needle shock sensor	Hydraulic System	8 self-priming peristaltic pumps (life 800 hrs), 2 vacuum pumps Pinch Valve
Sample Barcode	Optional internal barcode reader	Wash Station	Needles: 5 dispensating, 6 aspiration, 1 clearing (7 step washing sequence for each cuvette). Less than 3 l/hour water consumption.
Reagent Positions	2 Removable and Refrigerated Rack with 30 + 30 = 60 Reagent positions	Needle Wash	Internal and external with system solution
Reagent Volume	5 - 350 µl	Run / Reaction Monitor	Operation status monitor on screen
Reagent Bottles	20 ml and 50 ml	Quality Control	Levey - Jennings Graphics - Westgard Algorithm
Pipetting Technology	Capacitive Liquid Level Detection. Needle shock sensor	External Computer	(Min. requirements) Intel i3 family, 4 Gb ram, 1280 x 768 resolution, Windows 7, 8 or Windows 10 with NET framework 4.6
Reagent Storage	Reagent Cooling for both Reagent Rack with independent power supply	Connections	Ethernet LAN port for LIS host communication, USB port for analyzer connection
Reagent Barcode	Optional by hand barcode reader	Printer	External Printer
Power Supply	100 - 240 Vac, 50 / 60 Hz, single phase with ground	Environmental	16 - 30 °C, < 80% humidity
Size / Weight	93 x 74 x 60 cm (W x D x H), 75 kg		



Clinical Chemistry Autoanalyzer
The choice that goes double
random access clinical chemistry analyzer



Chem 300 plus
watch the descriptive video

Made in Italy

Since 1989

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+39 0924912534
overseas@gesanproduction.it
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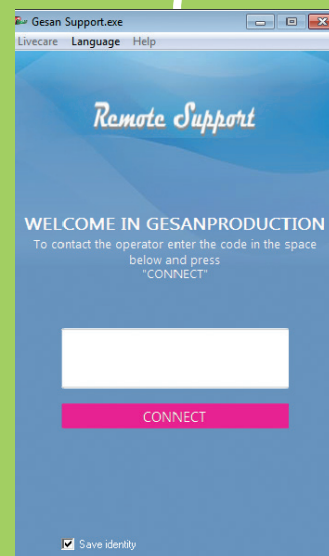


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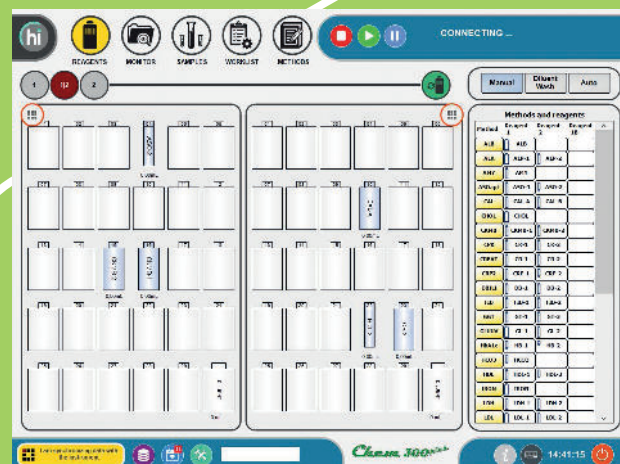

Chem 300 Plus

- Touch Screen Technology
- Automatic Pre - Post Dilutions
- Re-calculation of results
- Archive: Sample - Calibration - QC
- Incompatibility function
- Programmable wash operations



Online remote support

- Up to 300 tests / hour capacity
- 60 refrigerated reagents with 2 racks
- 60 sample positions with continuous loading
- 2 Pipetting needles with shock and level detecting



FULL LIST OF DEDICATED PARAMETERS

Liquid Stable | Ready to Use | High Quality | Validated | Barcoded Reagents

Routine and Special Parameters

- ACE
- Acid Phosphatase
- Acid Citric / Oxalic
- ADA
- Albumin
- Aldolase
- Alkaline Phosphatase
- Amylase / Amy Pancreatic
- Antithrombin III
- ALT-GPT
- AST-GOT
- APO A1 / APO B
- ASO / CRP / RF
- α - 1 Antitrypsin
- α - 1 Acid Glycoprotein
- β - 2 Microglobulin
- Bicarbonate CO₂
- Bile Acids
- Bilirubin Direct / Total
- Calprotectin
- Calcium CPC / Arsenazo III
- Calcium Direct Free - Ca⁺⁺
- Cholesterol
- Cholesterol HDL / LDL Direct
- Cholinesterase
- Chloride
- CK-NAK
- CK - MB
- Copper
- Creatinine Jaffe / UV
- C3 / C4
- Cystatin C
- Dibucaine

- Ferritin
- Fructosamine
- G6PD
- GSP
- Gamma GT
- Glucose
- Haptoglobin
- HbA_{1c}
- HGB
- Homocystein
- Iodide
- IgA / IgE / IgG / IgM
- Iron / TIBC
- Lambda / Kappa Chain
- Lp (a)
- Lactate
- Lipase
- Lithium
- LDH
- Magnesium Xylidyl / UV
- Microalbumin
- Phosphorous
- Potassium
- Precalcitonin
- Sodium
- Transferrin
- Total Protein
- Tryglicerides
- Urea Color / UV
- Uric Acid
- Urinary Proteins
- Vitamin D
- Zinc

D O A Parameters

- Alcohol
- Amphetamine
- Barbiturates
- Benzodiazepine
- Cocaine Metabolite
- Ecstasy (MDMA)
- Methadone
- Opiates
- THC (Cannabis)

T D M Parameters

- Digoxin
- Carbamazapine
- Phenobarbital
- Phenytoin
- Valproic Acid



- Monitoring of Reagent Status
- Monitoring of Sample Status - Results
- Monitoring of Reaction Status
- Monitoring of Calibration Status - Results
- Monitoring of QC Status – Results

