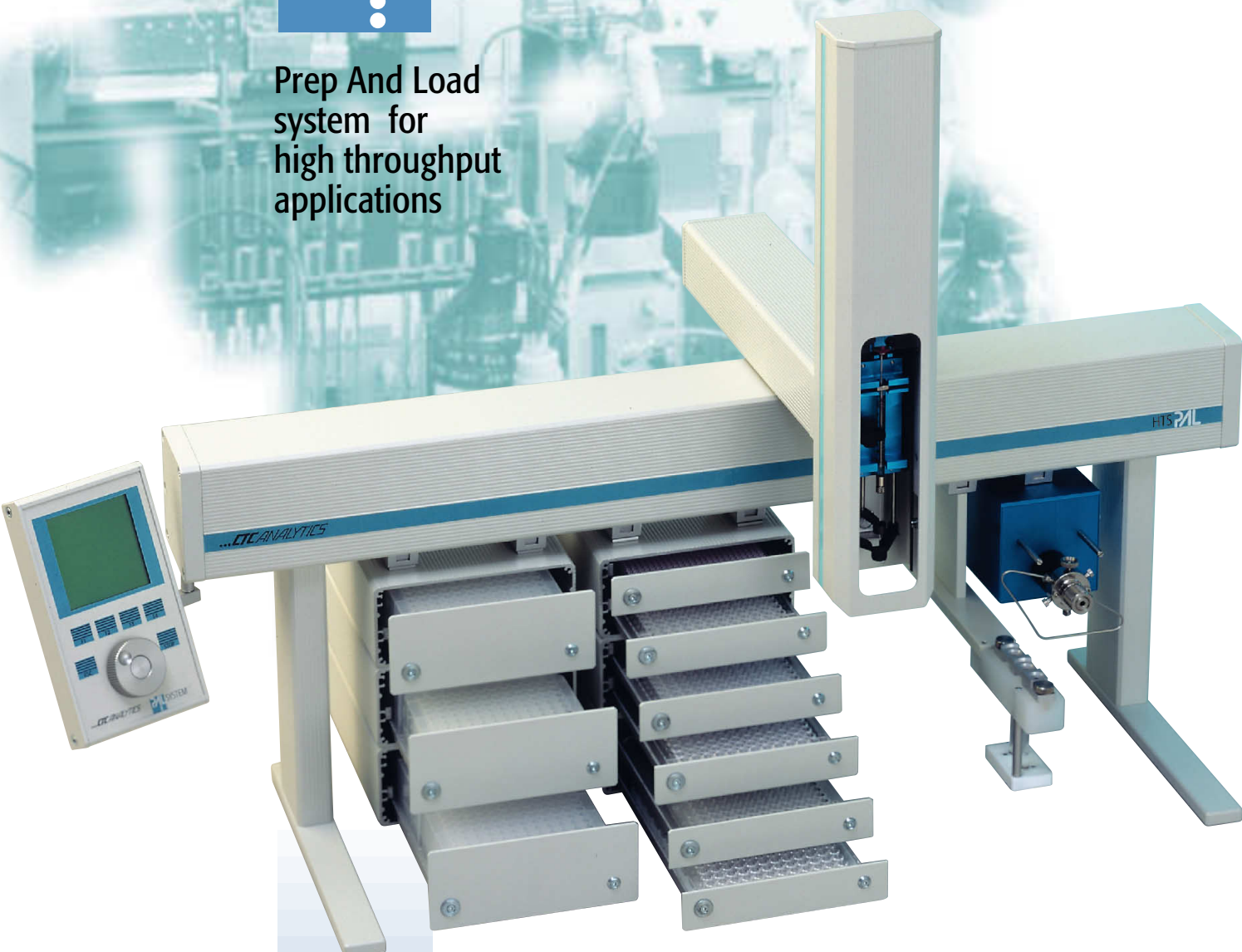


# HTS PAL

Prep And Load  
system for  
high throughput  
applications



## Drug Discovery

High Throughput  
Screening


Combinatorial  
Chemistry

Organic Synthesis

Chemical Libraries

Preclinical Research

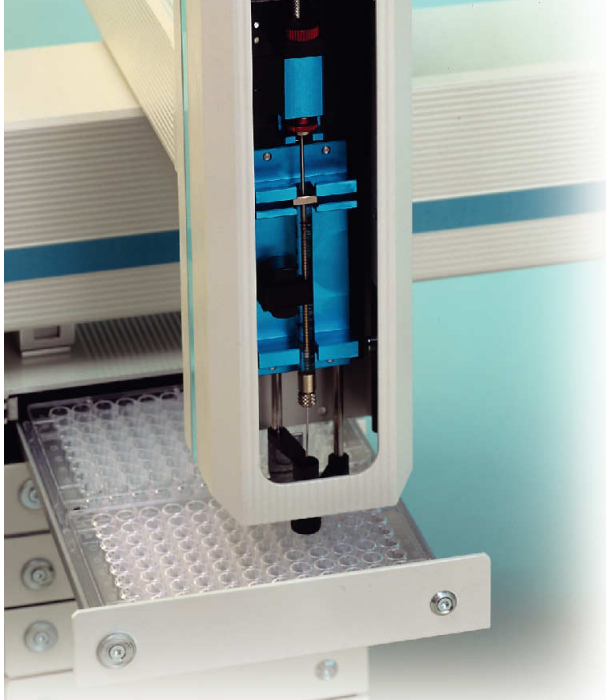
 Front End Automation for HPLC and  
LC-MS microplate applications

 Accepts up to 24 deepwell or standard  
microplates

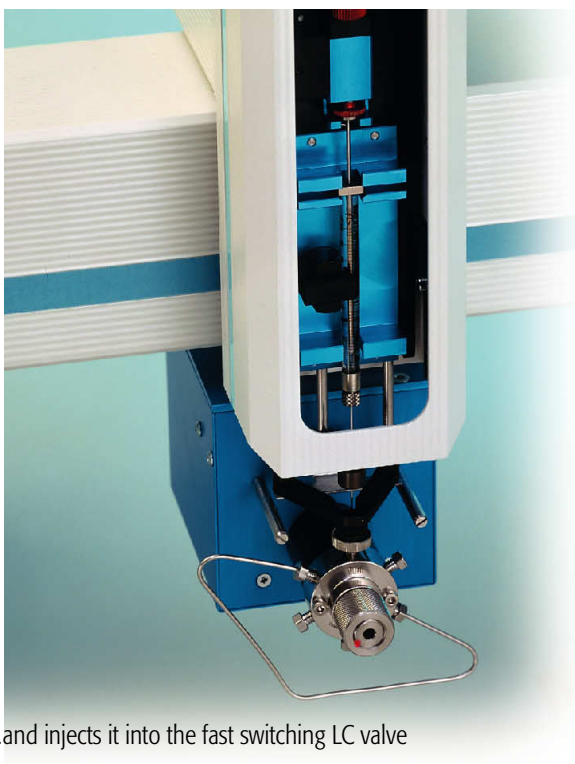
 Injects every 60 seconds into your  
LC-MS system

 Ready for "Open Access"  
technology

 Interfaces with any  
major LC-MS system



The *HTS PAL* automatically opens a drawer and aspirates the sample from the microplate...



...and injects it into the fast switching LC valve

Distributed by:

The race to speed up the development of new drugs and get them to market quickly continues to be the focus of many pharmaceutical companies. High throughput screening, combinatorial chemistry and LC-MS have become key technologies for increasing the speed with which new drug compounds can be identified and developed for market release.

The *HTS PAL* is designed to meet these new requirements in terms of speed, capacity and precision in chromatography "Front End" automation. The *HTS PAL* manufactured by CTC Analytics represents the only sample injection system which has been especially designed for high throughput applications. The *HTS PAL*'s unique performance is now changing the way sample injection is handled in today's modern laboratories.

Besides Micro and Deepwell plates the *HTS PAL* handles standard vials and tubes from which samples can be injected directly into a LC valve. It fits into the HTS/Combinatorial Chemistry applications where large numbers of samples have to be characterized. Throughput is extremely high since recovery time between injections is reduced to a minimum of 40-60 seconds. The *PAL System* software architecture supports the "Open Access" technology wherein the *HTS PAL* is always ready to accept new samples for processing at a later time.

The unique *PAL* system design guarantees unmatched flexibility regardless of the labware utilized.

#### Specifications HTS PAL

##### System Type

XYZ robot with syringe only concept, no tubing in sample path

##### Syringe sizes

10, 25, 100, 250, 1000, 2500, µl

##### LC Injector

Electrically actuated fast switching 6 port valve (optional second valve for dual injection)

##### Sample Capacity

Up to 3 Microplate Stacks each holding  
12 Standard Microplates (96/384 wells)  
or 6 Deepwell Plates  
or 6 54 x 11mm vials (2ml)

##### Needle, Syringe, Valve Cleaning

Dedicated fast wash station, 2 different solvents

##### Local Control

Control panel with 4 function keys, Graphical LCD Display  
Unique scroll knob for teach functions

##### Remote Control

Windows 95/NT® based PC software

##### Electrical Control

2 RS 232C ports  
3 TTL Input / 3 TTL Output  
2 Opto Coupler Input / 2 Relay Output

##### Dimensions

L: 828mm D: 385mm H: 648mm

##### Weight

10kg (without accessories)

Specifications are subject to change without notice

#### HTS PAL Accessories

Sample Trays for 1ml / 2ml / 10ml / 20ml vials  
Thermostatted Sample Trays  
Diluent Reservoirs for dilutions/derivatisations  
Second electrically actuated fast switching valve  
4 - and 10 port electrically actuated fast switching valve  
Barcode Reader

...CTC ANALYTICS



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