

## Company profile

- ◆ Founded in 1972 as the part of Dynatech USA, in 1996 renamed to DYNEX, for several years member of Thermo Electron
- ◆ Since 2002 an independent company – based in the Czech Republic with a subsidiary in Slovakia
- ◆ Team of more than 90 professionals

### Our activities

#### DYNEX Global - Development and production of laboratory devices and diagnostics, worldwide export

- ◆ All products are CE IVD marked
- ◆ Possibility of OEM production
- ◆ ISO 13485:2016 quality assurance system
- ◆ Core competencies: DNA hybridization, ELISA, immunoblot and westernblot readers / washers / automated platforms, cell thawing devices

#### DYNEX CZ&SK - Distribution of laboratory equipment on the market of the Czech Republic and Slovakia

- ◆ DYNEX is a distributor of more than 15 foreign companies representing brands such as EUROIMMUN, QIAGEN, ESCO, DYNEX USA, Finnppipette, and others.
- ◆ Core competencies: ELISA, immunoblot and westernblot, immunofluorescence assay (IFA), PCR, DNA hybridization, electrophoresis, microarray, next-generation sequencing, lateral-flow immunoassay (LFIA), immunoprecipitation, cultivation and cell growth curves measurements

#### DYNEX Producer - Your European partner for high-quality production

- ◆ We can develop your product
- ◆ We can certify your product
- ◆ We can manufacture your product



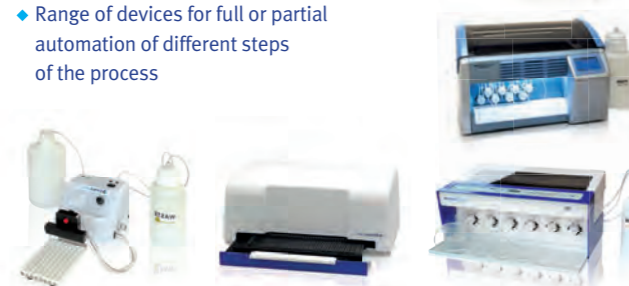
## Product line

### Strip assay processing technologies

- ◆ Automation of DNA hybridization assay processing



- ◆ Automation of immunoblot and westernblot processing
- ◆ Range of devices for full or partial automation of different steps of the process



### Microplate assay processing technologies



- ◆ Absorbance reader
- ◆ Automatic or manual ELISA washers
- ◆ High throughput dispenser

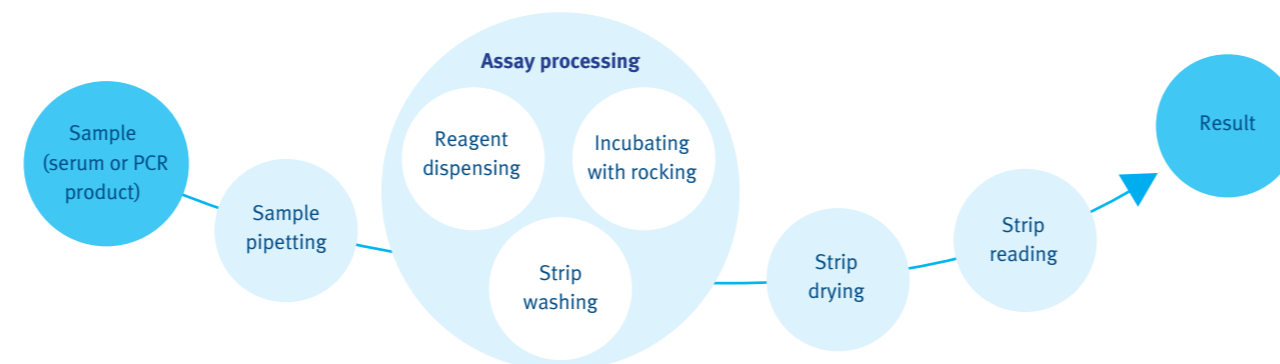
### Thawing technologies

- ◆ Standardization of cell thawing



## Strip assay processing technologies

Each instrument automates different steps of the process:



### DYNABLOT HEAT

Automated instrument used to process strip hybridization assays

- ◆ Accurate temperature control using dry bath
- ◆ Smart functions assuring high temperature uniformity
- ◆ Alarm for lack of reagents
- ◆ Compact design with capacity of 30 strips and 8 reagents
- ◆ Open platform

Automates assay processing and strip drying



see the scheme above



DNA hybridization

### DYNABLOT AUTOMATIC

Fully automated instrument for the immunoblot and westernblot assays

- ◆ Fully walk-away operation
- ◆ Proven by hundreds of users
- ◆ Easy maintenance including pumps auto-calibration
- ◆ Capacity up to 44 samples (in primary tubes), 44 strip positions and 8 reagents
- ◆ Open platform

Automates the full process from sample to result



see the scheme above



Immunoblot and westernblot

### DYNABLOT COMFORT

Next generation of automated instrument used to process the immunoblot and westernblot assays

- ◆ Redesigned version of DYNABLOT Plus
- ◆ Compact design with capacity of up to 50 strips and 8 reagents
- ◆ Alarm for lack of reagents
- ◆ Strip drying function
- ◆ Modern colour touch screen for easy operation
- ◆ Open platform

Automates assay processing and strip drying



see the scheme on the left



Immunoblot and westernblot

### DYNABLOT PLUS

Automated instrument used to process the immunoblot and westernblot assays

- ◆ Basic economical solution
- ◆ Proven by more than a thousand of users
- ◆ Easy maintenance and reliable operation
- ◆ Compact design with capacity of 44 strips and 7 reagents
- ◆ Open platform

Automates assay processing



see the scheme on the left



Immunoblot and westernblot

### DYNACAM

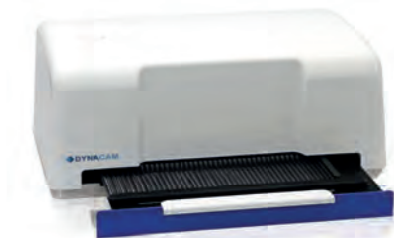
Instrument for image scanning of strips with a drying function

- ◆ Image scanning directly in reaction wells eliminates errors caused by manipulation with strips
- ◆ Completes the workflow together with DYNABLOT Comfort or DYNABLOT Plus
- ◆ Efficient suppression of false reflections
- ◆ Expandable for use with DNA hybridization strips
- ◆ Open platform

Automates strip drying and reading



see the scheme on the left



Immunoblot and westernblot

### DYNAWASH-B

Manual washer of immunoblot and westernblot strips

- ◆ Basic economical solution
- ◆ Intended for low throughput or as a back-up washer for automatic blot processor
- ◆ Easy to operate:
  - place the strip tray into the holder
  - tilt the holder and aspirate the fluid by pressing down the comb
  - simply dispense washing solution by pressing the red button

Simplifies manual washing of strips



see the scheme on the left



Immunoblot and westernblot

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## Microplate assay processing technologies

### DYNAREAD

#### Absorbance microplate reader

- ◆ End-point and kinetic read methods
- ◆ Long-life, reliable and stable LED light source
- ◆ High-speed 12-channel reading
- ◆ Accommodates up to 8 filters, wavelength range 365 – 1050 nm
- ◆ Linear shaking function
- ◆ User-friendly evaluating software for data analysis included



ELISA

### DYNAWASH AUTOMATIC

#### Fully automated ELISA washer

- ◆ High flexibility and convenience in creating assays via PC
- ◆ Can be used for a separated function of filling and aspirating
- ◆ Multi-point aspiration assuring low residual volume
- ◆ Outstanding cost/benefit ratio
- ◆ 2 versions available: 2 or 4 liquid sources



ELISA

### DYNAWASH-E

#### Manual ELISA washer

- ◆ Basic economical solution
- ◆ Intended for low throughput or as a back-up washer for automatic ELISA processor
- ◆ Easy to operate:
  - aspirate the fluid by inserting the needles to the wells
  - dispense the washing solution as long as you push the red button



ELISA

### DYNAMIC

#### 96-channel dispenser for filling of microplates

- ◆ Intended for high throughput applications
- ◆ Each well of the standard 96-well microplate can be filled with different fluid
- ◆ Filling time for a microplate less than 1 second
- ◆ Automatic start of dispensing by inserting of individual microplates
- ◆ Used e.g. for prefilling MIC microplates



High throughput dispensing

## Thawing technologies

### DYNATHAW-V

#### Automated device for standardized cell thawing

... there is a better way than warming the frozen vial in hands.



- ◆ Every time the same thawing conditions enable **standardization** within cell cryopreservation workflow
- ◆ Detailed operation log files are recorded to ensure **traceability** (including temperature trends of the block and the surface of the vial)
- ◆ Consistent temperature control for the highest **safety** of your sample
- ◆ Automatic cooling **preserves** the sample after finishing of thawing
- ◆ Integrated barcode and QR code reader for easy sample **identification**

Cell suspension thawing

## DYNEX: Your European partner for high-quality production

### Production of laboratory instruments is our strength...

#### Comprehensive skills and experience

##### Development

- ◆ Mechanics, electronic software, and prototyping
- ◆ Communication with the notified body

##### Certification (CE IVD)

- ◆ Paperwork, arrangements and communication
- ◆ Communication with the notified body

##### Production

- ◆ Mechanical parts production, surface modification, and complete quality check
- ◆ Electronics - cabling, electronic circuits
- ◆ Assembly including putting the instruments into operation
- ◆ Output procedures – instrument run-in, final check, packaging
- ◆ Technical administration – supplies and logistics, documentation management
- ◆ Technical customer support

#### We can develop your product

*Tomáš Kubina*

Tomáš Kubina  
Mechanical Designer



#### We can certify your product

*Hana Pissinali*

Hana Pissinali  
Legal & Certification Specialist



#### We can manufacture your product

*Petr Sobota*

Petr Sobota  
Mechanical Parts Manufacture Specialist



#### High capacity

- ◆ New production facility



... and we are ready to share all this with you.



- ▶ Know-how and experience when developing your product
- ▶ Connection to reference labs and key opinion leaders when consulting your project
- ▶ Professional management and time saving when getting the notified body to certify your product
- ▶ Well-established state-of-the-art technologies for your product production
- ▶ Comprehensive administration support when documenting your project
- ▶ The complete workflow for your project from a smart idea to smart production

#### Proven European Quality



Your partner for microplate and strip assay solutions



www.dynex.eu