



French company created in 1987 (Toulouse)

Main activity: conception, development, fabrication and sales of respiratory diagnostic devices called "spirometers"

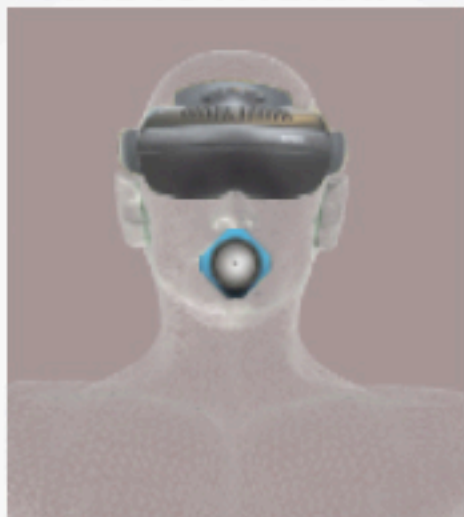
Local Market: France

Quality Certifications: [ISO9001](#) , [ISO13485](#) , [DIR 93/42 CEE](#)

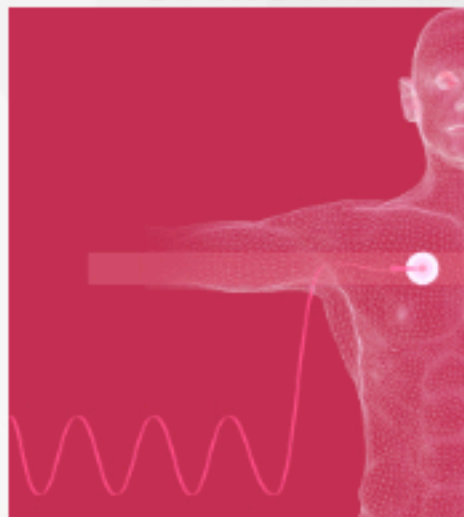
## ALLERGY



## RADIOTHERAPY



## SPIROMETRY



Business Units

**SPIROMETRY**: large range of spirometers used by pulmonologists and GP for Pulmonary Function Testing (PFT) - Asthma and COPD screening

**ALLERGY**: full range of anti dust mite covers used by patients suffering from asthma due to their dust mites allergy - medical prescription

**RADIOTHERAPY**: SDX / device of breathing control in Imaging and RT using a Spirometry sensor / Voluntary breath hold method for lung, breast and liver treatment

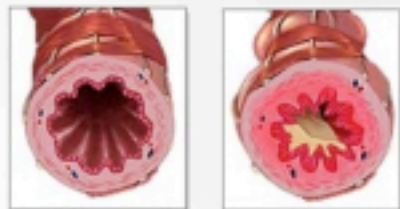
# Respiratory pathologies managed in physiotherapy and rehabilitation

- obstructive pathologies
- restrictive pathologies

# Obstructive respiratory pathologies

Flow limitations => difficulties for the mobilization of secretions

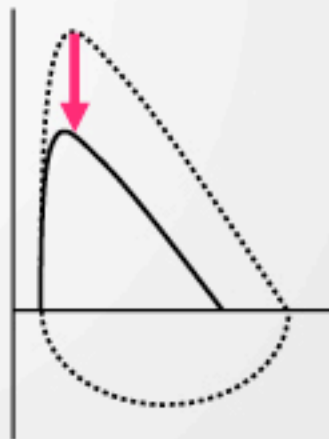
- Cystic Fibrosis
- COPD
- Asthma
- Bronchiolitis
- Pneumonia



# Restrictive respiratory pathologies

Peak Flow limitations => difficulties for the evacuation of secretions (cough)

- Neuromuscular pathologies





# SPEEDYN

Respiratory Physiotherapy



- Pulmonary Function Test
- Physiotherapy techniques and help for choice
- Airway clearance
- Rehabilitation
- Training / Education



# Ultrasonic Flow Sensor

- uses digital ultrasonic flow measurement technology for fast, accurate and reliable operation
- designed for full range testing in primary care, specialty physician, industrial and hospital settings

## Features

Electronic hardware includes data acquisition for flow, molmass and case temperature

Flow measurement independent of gas composition, temperature and humidity

No user calibration required

Extremely high reliability, no moving parts

Disposable spirette breathing tube for optimal hygiene

USB interface



## Specifications

Measurement principal :	ultrasonic transit-time
Breathing tube diameter :	20 mm (ID)
Sensor weight :	approx. 100 g (not including cable)
Dead space :	30 ml
Flow Accuracy :	+/- 3% or 20 ml/s
Flow Range :	+/- 16 l/s
Flow Sampling Rate :	200 Hz
Interface type :	USB
Electronics board dimensions :	length 81.5 mm, width 33.5 mm
Power Supply :	USB: 5 V @ approx. 200 mA

# Consumables "spirette"

## Positioning of teeth

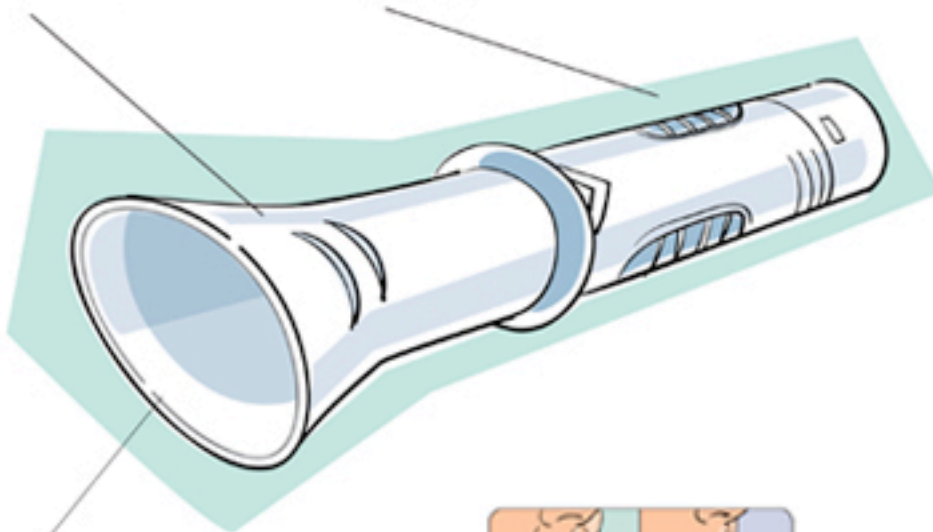
- keeps spirette™ securely in place

## Tight lip seal

- prevents leaks

## Filter membrane

- bacteria filter membrane built into each spirette™
- prevents cross contamination



## Mouthpiece

- smooth non-stick polyethylene for patients comfort
- shaped oval for optimal lip seal and teeth positioning
- conical to suit different mouth sizes



### Economical

- no other running costs are involved
- no costs for calibration equipment
- no costs or downtime for maintenance
- no costs for filters, sensors, or adaptators
- spirette is only accessory

### Simple and "foolproof"

- just insert spirette, ready for measurement (no bar code, no input of numbers)
- the TrueFlow instrument guides you through the process of spirometry

### Maintenance free

- no maintenance whatsoever is needed with spirette and TrueFlow instruments
- no calibration or checking procedures are required

### Hygienic

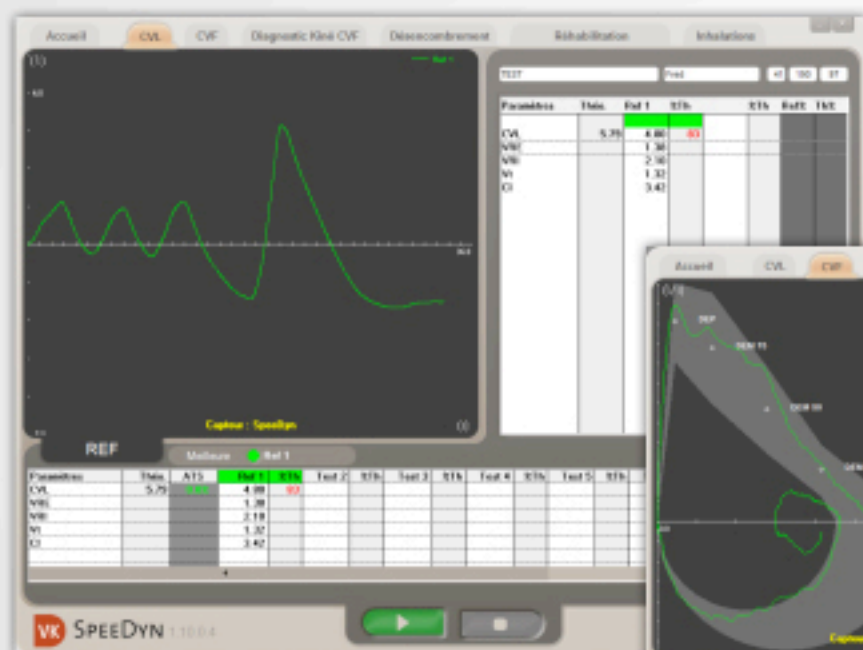
- the safest respiratory flow measurement system available

### Environmentally safe

- lightweight PE, environmentally friendly, disposable and bio-degradable

# Pulmonary Function Test

Volume and flow measurements



# Physiotherapy techniques

Active Cycle of Breathing technic

Forced Expiratory Technic

Strapping

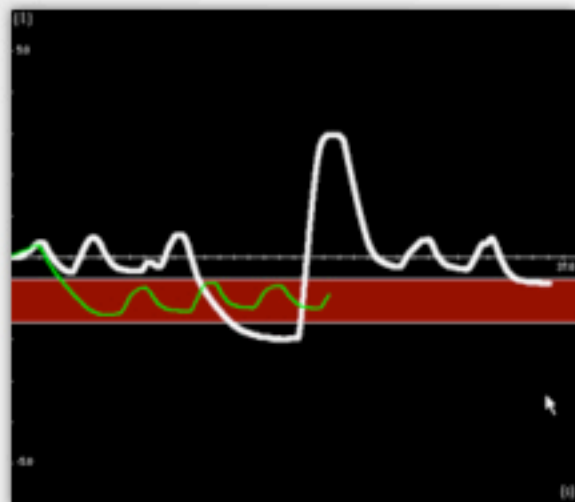
Positive Expiratory Pressure

Autogenic Drainage

Airway Clearance

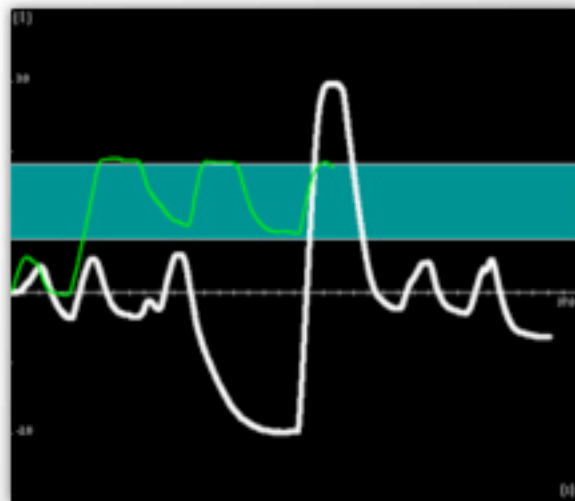


# Respiratory rehabilitation

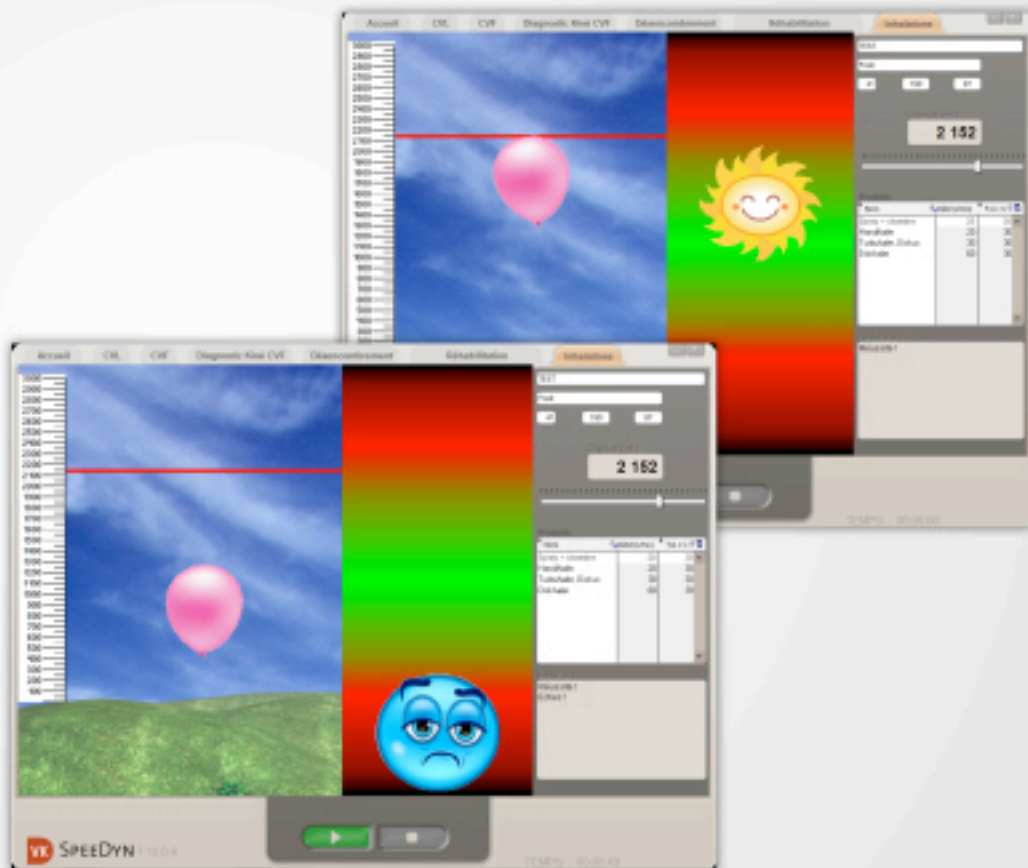


Expiratory level

Inspiratory level



# Training / Education





# Branding

chattanooga | Speedyn



# Public prices

Spirometer Speedyn VK

between 2500 € and 3000 €

Breathing tube "spirette"

between 1.50 € and 2 € per unit (box of 200)

# General details

Ultrasonic flow sensor used for PFT devices is already sold all over the world (Europe, America, Asia, Middle East, ...)

No existing devices in competition with Speedyn VK for physiotherapy and rehabilitation application

More information



[www.dynr.com](http://www.dynr.com)