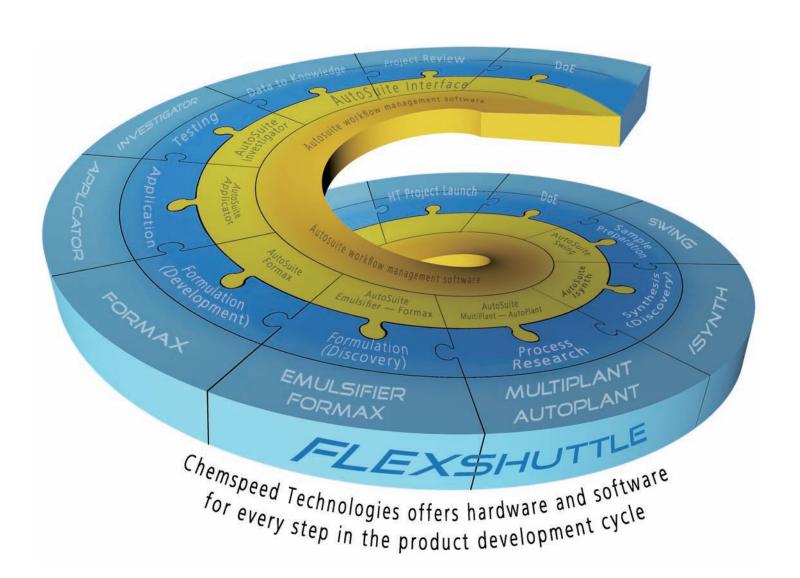




WORKFLOW PORTFOLIO

- Chemspeed Solutions cover Every Step in the Product

Development Cycle -



Robustness and Ease-of-Use by Design

Chemspeed's:

- unique dimension of exchangeable robotic tools
- overhead gravimetric dispensing
- precision reactors and formulation vessel technology enable a paradigm shift in automated

enable a paradigm shift in automated Research & Development of new and better products!

Chemspeed Technologies is the leading provider of Automated High-Throughput and High-Output Solutions that enhance Efficiency and Productivity for Experimental Workflows.

Chemspeed's unique modular and flexible concept of robotic tools, reactors and vessels, application tools, integration of e.g. analytical instruments as well as software, allows you to adapt perfectly an automated platform to your workflow needs and to significantly increase the throughput and quality (= Output). Virtually any combination of Chemspeed's functionalities can be easily configured on one robotic platfom.

All of Chemspeed's robotic platforms can be easily integrated with one another to enable multi-workflow processes (e.g. Formulation, Application and Testing procedures on one platform).

Chemspeed's solutions are used worldwide in the following industries:

- Pharmaceuticals & Agrochemicals
- Fine & Specialty Chemicals
- Petrochemicals
- Material Science: Catalysts, Polymers, Lubricants, Paints & Coatings, Adhesives, Ceramics & Abrasives, Porous Materials, Nanomaterials, Biopolymers
- Renewables and Energy
- Personal & Home Care
- Nutrition

Chemspeed's core capabilities:

- Workflow management solutions.
- Workflow task driven user interface.
- Exchangeable robotic tools: Chemspeed can bring more than 50 robotic tool based features to reactors, vessels, etc.
- Unrivaled gravimetric, direct-to-destination dispensing technology.
- High-Performance, synthesis and process research reactors, flexible formulation vessels in either disposable or reusable formats.
- A large choice of integrated hardware and software solutions.

Precision – Speed – Accuracy Performance – Versatility – R&D Cost Savings – High-Throughput



Complete Suite of Automated Workflow Solutions



Mark the relevant boxes to receive a tailored information package



Chemspeed's **SWING** robotic platform is the leading high-throughput solution in unattended, automated Sample Preparation combining unrivalled flexibility and modularity for sustainably increasing R+D efficiency



□ SWING

Automated Compound, Substance Handling, Sample Preparation, Reaction Preparation, ...

□ SWILE

Automated 1:1 Gravimetric Pick and Dispense

☐ SWING POWDERDOSE

Automated Gravimetric Solid Dispensing / Dosing Precision, Accuracy, Speed, Traceability (for applications in a GMP environment)



Automated Gravimetric Viscous Liquid, Paste, Cream Dispensing

☐ SWING WAXDOSE

Automated Gravimetric Highly Viscous Liquid and Wax Dispensing

☐ SWING XDOSE

Automated Gravimetric Solid, Powder, Liquid, Viscous Liquid, Wax Dispensing / Dosing Precision, Accuracy, Speed, Traceability (for applications in a GMP environment)



Automated Viscosity Measurement Expandable with Rheology

☐ SWING DENSITY

Unattended Density Measurement: Positive Displacement and / or on the Fly Operation while Dispensing

☐ SWING pH

Unattended Parallel pH Measurement

☐ SWINGRP

Automated Reaction Preparation for e.g. Library Synthesis, Catalyst Screening

☐ SWING SOLID CM

Solid Compound Management & Distribution / Reformatting

☐ SWINGSP

Automated Sample Preparation for e.g. Analytics, Preformulation

☐ SWING SPEEDEXTRACT

Automated Parallel Pressure Extraction

☐ SWING CRYSTAL

Crystallization, Polymorph, Salt and Solubility Screening

☐ SWING MIXINGPOSSIBLE

Automated Mixing and Grinding of Different Materials

☐ SWING QUECHERS

Automated Sample Preparation and Analysis of Pesticide Residues in Food Samples

☐ SWING KF

Automated Sample Preparation and Inline Karl Fischer Water Titration

☐ HERBAL PLANTEX

Automated Actives Extraction & Purification of Plant Ingredients at Ambient and / or Elevated Pressure

☐ HERBAL TRACE

Automated Trace Extraction & Analysis of e.g. Pesticides, Metal Trace and other Contaminants at Ambient and / or Elevated Pressure

☐ SWING BIOMASS

Automated Biomass Pre-treatment & Analytics (Organosolve, Hydrosolve, ...)

☐ SWING MEDTECH

Automated Dispensing, Blending, and Microwave Assisted Baking of Powders Within highly regulated environments (e.g. GMP, GLP)

☐ SWING FLEXY WEIGHER PLUS

Automated Vial Weighing, Filling, Capping & Crimping

☐ SWING LIQUID GAS RP

Automated Reaction Preparation for e.g. Polymerization Screening of Liquefied Monomers in Disposable Glass Bottles

(Hybrid products for unattended Synthesis, Formulation, Application and Testing are commonly offered by Chemspeed on one or more platforms, within one product development cycle)















Mark the relevant boxes to receive a tailored information package



Chemspeed's ISYNTH robotic platform is the leading high-throughput and high-output solution in unattended, automated Synthesis combining unrivalled flexibility and modularity for sustainably increasing R+D efficiency



Library Synthesis in Disposable Glass Vials / Reactors and / or Reusable Double-Jacket Reactors and / or Microwave Reactors



☐ ISYNTH AI



☐ ISYNTH

Active Ingredients (AI) Library Synthesis in Disposable Glass Vials / Reactors and / or Reusable Double-Jacket Reactors

Automated Library Synthesis in Disposable Vials / Reactors under Accelerating Superheated Conditions



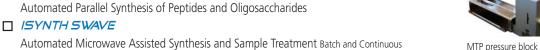
Arrays of disposable

and / or double-jacket precision glass reactors

including condensers,

filtration, valve system and

☐ ISYNTH PSW





Unattended Pharma Science (Polymorph Screening, Salt Selection)

☐ ISYNTH CATIMPREG



☐ ISYNTH ENERGY

Automated Fuel Cell Catalyst Discovery & Optimization, Organic / Inorganic Frameworks / Cages Synthesis, Photovoltaics Screening



Unattended Polymer Research (controlled radical polymerization (CRP) techniques)



Automated Biomaterial / Biopolymer / Drug Delivery Devices Synthesis



Unattended Polyolefin Catalyst Synthesis and Screening





or stainless steel reactor (1 mL - 100 mL)

(Hybrid products for unattended Sample Preparation, Formulation, Application and Testing are commonly offered by Chemspeed on one or more platforms, within one product development cycle)



Chemspeed's MULTIPLANT and AUTOPLANT robotic platforms are the leading high-output solutions in unattended, automated Process R&D, Polymer / Material and Preparative Synthesis combining unrivalled flexibility and modularity for sustainably increasing R+D efficiency



□ MULTIPLANT / AUTOPLANT

Solutions for Process R&D and Preparative Synthesis

□ MULTIPLANT / AUTOPLANT PRORES

Optimization and Scale-Up

□ MULTIPLANT / AUTOPLANT POLY

Emulsion, Suspension, Dispersion, Solution, Mass and Pressure Polymerization Development and Scale-Up

□ MULTIPLANT / AUTOPLANT POSYCAT Unattended Polyolefin / Rubber Catalyst Synthesis



Process development workstation



Process research reactor with unique screwless and selfsealing design

Mark the relevant boxes to receive a tailored information package

□ MULTIPLANT / AUTOPLANT POSY

Polyolefin and Rubber Synthesis, Optimization and Scale-Up

☐ MULTIPLANT / AUTOPLANT PREP

Automated Preparative Organic and Inorganic Synthesis

☐ MULTIPLANT / AUTOPLANT CATTEST

Unattended Catalyst Testing (hydrogenation, carbonylation, metathesis, Heck, Suzuki, ...)

☐ MULTIPLANT / AUTOPLANT PRECIP

(Mixed) Oxides by pH-Controlled Precipitation, Ion Exchange and Sol-Gel Process

☐ MULTIPLANT / AUTOPLANT ZEO

Accelerated and Standardized Zeolite and Metallorganic Framework (MOF) Synthesis by Precisely Controlled Hydroand Solvothermal Synthesis

☐ MULTIPLANT / AUTOPLANT ENERGY

Fuel Cell Catalyst Discovery and Optimization

□ MULTIPLANT / AUTOPLANT BIOMASS

Biomass Treatment & Analysis (Organosolve, Hydrosolve, AFEX, ...)

□ MULTIPLANT / AUTOPLANT AUTOCAL

Parallel and Real Time Calorimetry in High-Precision







(Hybrid products for unattended Sample Preparation, Formulation, Application and Testing are commonly offered by Chemspeed on one or more platforms, within one product development cycle)



Chemspeed's FORMAX and EMULSIFIER robotic platforms are the leading high-throughput and high-output solutions in unattended, automated (Re-)formulation and Characterization combining unrivalled flexibility and modularity for sustainably increasing R+D efficiency







Automated Formulation and Characterization

☐ FORMAX SKIN CARE & SUNSCREEN

Automated Formulation and Characterization of Personal Care products (skin care, lotion, soap, sunscreen)

☐ FORMAX HAIR CARE & COLORANTS

Unattended Formulation and Characterization of Colorants & Hair Care products

☐ FORMAX HOME CARE

Automated Formulation and Characterization of Home Care / Household products

☐ FORMAX FOOD & FEED

Unattended Formulation and Characterization of Food & Feed products (nutrition, functional food, beverages)

□ FORMAX PAINTS & COATINGS

Automated Formulation and Characterization of Paints & Coatings

□ FORMAX LUBES

Unattended Formulation and Testing of Lubricants (Oils, Greases)

□ EMULSIFIER AGRO

Automated Formulation, Application and Testing of Emulsion & Suspension Concentrates

☐ EMULSIFIER EOR

Unattended Surfactant and Additive Screening for Enhanced Oil Recovery



FORMAX high-performance formulation vessel with overhead gravimetric dispensing of liquids, viscous liquids, pastes, waxes WHILE mixing, scraping, heating, cooling, refluxing



Expanded view of the high-performance formulation vessel (blender, mixer)

(Hybrid products for unattended Sample Preparation, Synthesis, Application and Testing are commonly offered by Chemspeed on one or more platforms, within one product development cycle)

For complete and fully integrated Formulation, Application, Testing product development workflows, Chemspeed provides a unique solution for virtually unrestricted flexibility in combining sequential and parallel processing (FLEXSHUTTLE).

Mark the relevant boxes to receive a tailored information package



Chemspeed's APPLICATOR robotic platform is the leading high-throughput solution in unattended, automated Application of formulated products combining unrivalled flexibility and modularity for sustainably increasing R+D efficiency



☐ APPLICATOR SKIN CARE & SUNSCREEN

Unattended Application of Personal Care products (skin care, lotion, soap, sunscreen)

☐ APPLICATOR HAIR CARE & COLORANTS

Automated Application of Colorants & Hair Care products

☐ APPLICATOR PAINTS & COATINGS

Unattended Application of Paints & Coatings (draw-down, spray coating, spin coating, ...)

☐ APPLICATOR PERMAT

Automated Application of Oils, Adhesives, Lubricants, Sealants, Rubbers



Molding etc.



(Hybrid products for unattended Sample Preparation, Synthesis, Formulation and Testing are commonly offered by Chemspeed on one or more platforms within one product development cycle)

For complete and fully integrated Formulation, Application, Testing product development workflows, Chemspeed provides a unique solution for virtually unrestricted flexibility in combining sequential and parallel processing (FLEXSHUTTLE).



Chemspeed's INVESTIGATOR robotic platform is the leading high-throughput solution in unattended, automated Investigation / Testing of formulated & applied products combining unrivalled flexibility and modularity for sustainably increasing R+D efficiency



☐ INVESTIGATOR SKIN CARE & SUNSCREEN

Automated Investigation of Personal Care products (skin care, lotion, soap, sunscreen)

□ INVESTIGATOR HAIR CARE & COLORANTS

Unattended Investigation of Colorants & Hair Care products (I*a*b, shine, ...)

□ INVESTIGATOR PAINTS & COATINGS

Automated Investigation of Paints & Coatings (color, gloss, scratch resistance, ...)



Unattended Investigation of Oils, Adhesives, Lubricants, Sealants, Rubbers





Color & gloss measurement

(Hybrid products for unattended Sample Preparation, Synthesis, Formulation and Application are commonly offered by Chemspeed on one or more platforms, within a product development cycle)

For complete and fully integrated Formulation, Application, Testing product development workflows, Chemspeed provides a unique solution for virtually unrestricted flexibility in combining sequential and parallel processing (FLEXSHUTTLE).



Chemspeed's Workflow Management Software

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□ AUTOSUITE USER INTERFACE

Selection of Interfaces in the product brochure

☐ VIRTUALLAB

Lab Journal, Workflow Management, Instrument Control

☐ JMP, MODDE

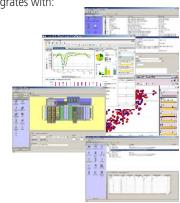
Design of Experiments - DoE

□ SPOTFIRE

Data Visualization and Selection

☐ CUSTOM INTEGRATION PACKAGE

Chemspeed integrates a variety of software products, please contact us for interfaces or integration.



Mark the relevant boxes to receive a tailored information package.

Object Oriented Workflow Design



Chemspeed's FLEXSHUTTLE is the step-changing high-throughput and high-output solution for unrestricted sequential and parallel processing of entire (or partial) product development workflows. The unrivalled design enables dramatic product development efficiency increases combined with highest quality and maximum ease of use.



☐ FLEXSHUTTLE PRODUCT DEVELOPMENT

Fully integrated and automated product development from Sample Preparation to Array Synthesis and Process Development or even up to integrated Formulation in one workflow set-up in industries such as Pharmaceutical, Agrochemical, Fine & Specialty Chemicals, Material Sciences (Catalysts, Polymers, Paints & Coatings, Porous Materials, Nanomaterials, Biomaterials), Renewables & Energy.



☐ FLEXSHUTTLE PAINTS & COATINGS DEVELOPMENT

Fully integrated and automated paints and coatings development from Formulation to Application and Testing.

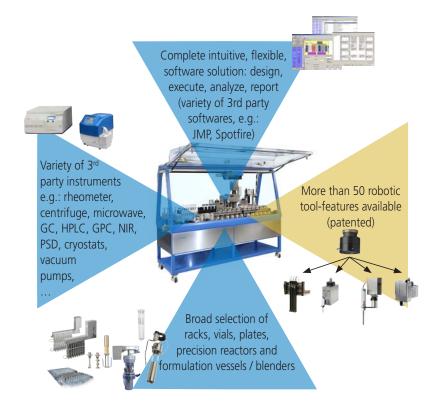
☐ FLEXSHUTTLE COLMATCH

Fully integrated and automated system for Colour Blending and Colour Matching.

 \sqcap FILMAX

Fully integrated and automated film applicator for draw-down of e.g. inks, paints, coatings, battery pastes, adhesives.

4 Dimensions of Modularity and Flexibility



Off-the-Shelf-Design –

- Individual platform configuration tailored to your workflow with marketproven off-the-shelf components.
- Robotic platforms which can easily be integrated with one another to enable multi-workflow processes (e.g. Formulation, Application and Testing procedures all integrated in a single platform).



More than 50 robotic tool-features can be integrated with Chemspeed's unique robotic tool exchange technology, including unrivaled overhead gravimetric dispensing, which can operate while mixing, heating, refluxing and cooling.

Virtually any combination of these robotic tools is possible.



Robotic tool exchange interface (proprietary)

Precision balance Overhead gravimetric dispensing robotic tools (proprietary)

Volumetric dispensing robotic tools

Action robotic tools

Analytic robotic tools

- Overhead gravimetric 1:1 pick & place / dispense of solids & powders DIRECTLY from virtually any source to any destination (<0.1 mg to about 30mg) Disposable pick & dispense pipets (no dead volume) resolution: 0.1 mg (or 0.01 mg with a second balance
- Overhead gravimetric dispensing of solids & powders (0.1 mg to 20 g) Dispensing container volume: 15 mL or 30 mL resolution: 0.1 mg (or 0.01 mg with a second balance)
- Overhead gravimetric dispensing of solids & powders (1 mg to 100 g, larger volumes are available) Dispensing container volume: 100 mL resolution: 1 mg (or 0.01 mg with
- Overhead gravimetric dispensing of highly viscous liquids, pastes and creams (1 mg to 100 g) with viscosities from 1 mPa·s to 500'000 mPa·s (based on Newtonian substances) resolution 1 mg (or 0.01 mg with a second balance)
- Optional aspiration feature • Optional transfer of hot (up to 90 °C) substrates via heatable
- · Overhead gravimetric aspiration and dispensing of viscous liquids (1 mg to 100 g) with viscosities from 1 mPa·s to 15'000 mPa·s via disposable positive displacement syringes, resolution: 1 mg (or 0.01 mg with a second balance)

Overhead gravimetric / volumetric aspiration and dispensing of viscous liquids (0.1 µL to 12.5 mL) with viscosities from 1 mPa·s to 15'000 mPa·s via disposable positive displacement syringes, resolution: down to 1 μL

- Liquid handling powered by 4 syringe pumps (syringe volumes: 1, 10, or 25 mL) for viscosities from 1mPa·s to 100 mPa·s Special options:
- Disposable tips (1'200 µL)
- Disposable syringes
- Heated needles (up to 100°C)
- Spray needles
- pH and temperature measurement and control
- · Coated needles, PEEK needles.
- Liquid gas dispensing with gravimetric control resolution: down to 0.1 mg

- Multigripper for vial and MTP transport and much more
- Automated barcode scanner
- Screw capper Vial diameter range: from 10 mm to 50 mm Larger ranges available Torque range: from 0.1 Nm to 1 Nm
- Capping, crimping (N8 / N11 / N13 / N20)
- Decapping (N8 / N11/ N13 / N20)
- High shear homogenization (11'000 to 30'000 rpm)
- Overhead stirrer (20 to 200 rpm) Different stirrer types available
- Ultrasonic dispersion (100 W)



- Vacuum / Degassing
- Reflux condenser
- Evaporation
- Filtration
- High speed injection molding
- Foam formation
- Draw-down with disposable or reusable precision spiral and / or gap bars
- Free film generation
- Dip coating
- Spray coating
- Wet-on-wet coating
- Robotic transfer arm to serve 3rd party instruments e.g. centrifuge



- Online density measurement (aspiration technology), on the fly resolution: 1 mg (or 0.01 mg with second balance)
- Brookfield Viscosimeter (RVDV-II+ Pro BK)



- Tri gloss measurement
- Thickness measuremen
- Color measurement
- Precision tack-cure



- Camera
- Observation of dissolution
- Particle size distribution and dynamic light scattering



Selection of Racks, Vials, Plates, Precision Reactors and Formulation Vessels / Blenders

Mark the relevant boxes to receive a tailored information package.

 □ Disposable formats for Sample Preparation, Synthesis, Emulsion Preparation and Analysis (microwave), Catalyst Impregnation, etc. □ Disposable reactors for a variety of applications including Synthesis, Emulsions, Crystallization, etc. □ Quartz Vials for Temperature up to 650 °C □ Vortex mixing □ Speedmixing □ Reactor racks for crimp reactors □ Electrical heating racks (disposable reactors) and simultaneous cooling (one temperature per block) □ Evaporation (optional evaporation tool is required) □ Reflux (optional reflux robotic tool is required) □ Filtration (optional filtration tool is required) □ Capping, de-capping, screw capping of reactors for sample preparation, work under pressure / multi-step synthesis, etc. Your vision: 	 ☐ High-Throughput and High-Output Synthesis (Discovery) & Library Synthesis ☐ High-speed vortexing precision reactors including all features for high-performance synthesis ☐ ISYNTH Disposable reactors for a variety of applications including Synthesis, Emulsions, Crystallization, etc. ☐ ISYNTH SpeedChem Library Synthesis in disposable glass vials / reactors at ambient and elevated pressure in 96-well plates (Flexible MTP format: 24, 48, 96, MTP bressure block: 100 bar) ☐ Up to e.g. 12 reactor arrays for up to e.g. 192 parallel reactors ☐ Reactor volume: from 1 up to 100 mL ☐ Arrays of double-jacketed glass or stainless steel reactors for a broad temperature (-70 to +180°C) and pressure (up to 100 bar) range ☐ Closure of reactors by a ceramic or stainless steel valve system (reactor block) allowing operation under high quality vacuum down to 10 mbar (for online evaporation), inert atmosphere (no need for septa, filtration etc.) ☐ Efficient yet gentle vortex mixing (up to 1,400 rpm), even while accessing the reactor ☐ Inert atmosphere for sensitive reagents or inert reaction conditions: Inertization of the reactors (vacuum inert gas cycles) Inertization pseudomechanical stirring for viscous liquids Your vision:
 High-output process research reactors Totally individually controlled reactors with unique screwless and selfsealing design Reactor volume: 100 mL, 250 mL, 1000 mL Exchangeable stirrer design Up to 8 individually controlled continuous feeds Individual control of jacket and internal reactor temperature Individual control of agitation (torque & speed) Individual control of multiple feeds (gases and liquids) Individual measurement, control, adjustment of viscosity Interfaces with different probes: pH, Pt100, NIR, UV / VIS, Raman, laser scattering, Vacuum and filtration capabilities Different modes of operation (batch, semi-batch, continuous cascade) Pressure range (standard: 100 bar, upgrade: 200 bar) Temperature range (standard: -20 to +250 °C, upgrade: -50 to 350 °C) 	 ☐ High-performance formulation vessels (blenders, mixers) Proven concept Totally individually controlled blenders Reactor volume: 100 mL (1000 mL on request) Exchangeable stirrer design Exchangeable scraper 6′000++ rpm 500+ Pa.s / 1,000 rpm Gravimetric dispensing of solids, viscous liquids, waxes WHILE mixing & scraping, heating, refluxing, cooling, measurement, etc. A variety of in-line analytics available (pH, visc, control of T, P, agitation) Degassing Individually controlled feeds

 $\hfill \square$ More reactors and formulation vessel designs, please tell us your

Mark the relevant boxes to receive a tailored information package.

Further Action Tools	Application Tools / Modules	Testing Tools / Modules	
☐ Sample Aging	☐ Dip Coating	☐ Karl Fischer Titrator	☐ Turbidity, Nephelometry
☐ Variety Agitation Methods	☐ Draw Down	☐ Abrasion / Wear / Mar	☐ Particle Size Distribution by
☐ Capping, Crimping,	☐ Free Film Generation	☐ Adhesion / Delaminating	Dynamic Light Scattering
Screw Capping, Decapping	☐ Heat / UV Curing	☐ Parallel Precision Calorimetry	☐ Profilometry
☐ Centrifuge / Speed Mixer	☐ Hair Treatment	☐ Coefficient of Friction	☐ Rheology
☐ Continuous Feeding (pressure possibility)	☐ Injection Molding / Foam	Color Measurement	☐ Solvent Exposure
□ Compaction	Formation	Contact Angle, Surface Tension	☐ Surface Energy / Surface
☐ Crushing	☐ Spin Coating	☐ Density Measurement	Tension
☐ Drying, Calcination, Desiccation	☐ Spray Coating (airborne / airless)	☐ Dissolution Observation	☐ Tack / Cure
☐ Evaporation	- Wet on Wet couling	☐ Durability - Exterior Weathering	☐ Viscosity Measurement /
☐ Gas Supplies (pressure)	☐ Your vision:	☐ Simulation	Control / Adjustment
☐ High Shear Homogenizer	Special Tools	☐ Dynamic Mechanical Analysis	□ pH Measurement / Control /
☐ Heating / Cooling of Racks and	•	☐ Film Thickness	Adjustment
Vials	Disposable Formats:	GC / (MS)	☐ Weighing
	•	☐ HPLC / (MS)	☐ C / R, Hide Measurement
☐ MTP and Vial Transfer	☐ Disposable Formulation Vessels	☐ Homogeneity Determination	☐ Color Acceptance / Rub-Out
☐ Microwave Treatment		☐ Foam Analysis	□ K&S
☐ Pigment Grinding	☐ Disposable Reactors	☐ Camera (e.g. observation of emulsion concen-	☐ Reflectance
Reflux Condenser Robotic Tool	Disposable Plates for	trate behaviours in solvents), Quality control,	☐ Block Resistance
☐ Scheduling / Sample Tracking	Coatings (MTP format)	Control of Dissolution, Residue, etc.	☐ Scrub Resistance
☐ Sieving	☐ Disposable Dispensing	☐ Image Analysis (e.g. paint / coating failures),	☐ Stain Wash / Washability
SPE (Solid Phase Extraction)	Tools	etc.	☐ Burnish Resistance
☐ Storage of e.g. coated MTP	☐ Disposable Measurement	☐ Haze Gloss	☐ Dirt Pick-Up Resistance
Plates	Tools	☐ Sheen / Sheen Uniformity	☐ Stability (Heat)
☐ Ultrasonic	☐ Fraction Collector (e.g. for MiniPlants)	☐ Hair Testing	☐ Tint Strenght
☐ Vacuum / Degassing	•	☐ Nano- / Micro-Hardness	☐ Sag and Leveling
☐ Additional Balances on the deck	Labelling	☐ Micro- / Mechanical Properties	☐ Your vision:
for e.g. vial weighing	☐ Your vision:	☐ Scratch Resistance Testing	
☐ Your vision:	LI TOUT VISIOH.	☐ Your vision:	



Complete Software Solution: Design, Execute, Analyze, Report

Smart hardware enables the full power of smart and easy to use software. The **Chemspeed Workflow Management Software** together with the **AutoSuite User Interface & Executor** and **VLab Software** is a powerful combination for DoE, execution, analysis and reporting.

The **AutoSuite User Interface & Executor** controls and executes the entire Sample Preparation, Synthesis, Formulation, Application and Testing Workflow or parts of the product development cycle. It controls all Chemspeed Robotic Platforms and any other integrated 3rd party software and hardware.

AutoSuite User Interface & Executor integrates virtually any preferred 3rd party software or hardware module. The AutoSuite Application Pro gramming Interface (API) is easily accessible for integration of 3rd party software and hardware modules. Scheduling, Barcode and Sample Tracking, Expert Tools such as Autoteaching, and many other Workflow Tools are integrated in **AutoSuite User Interface & Executor**.

Chemspeed VLab is a powerful design (DoE), analysis and reporting tool. It includes a full document management system. The software scales from a single PC to large network installations with multiple hardware instruments and clients.

Chemspeed VLab and AutoSuite User Interface and Executor control, schedule, coordinate, execute, and track all Robotic Platforms of the entire Product Development Cycle, including the integrated 3rd party instruments and software tools.

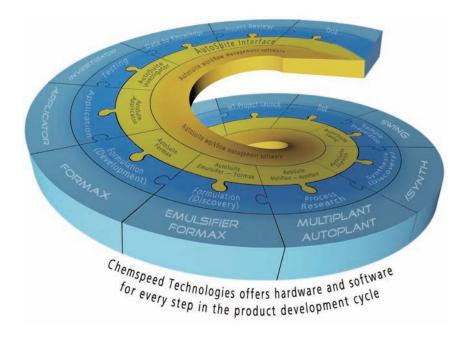


15+ Years of Experience in Automated Experimentation. Customized Workflow Solutions.

Swiss Quality Products.

An International Team of Highly Experienced Chemists.

Chemspeed Technologies AG is the leading provider of high-throughput and high-output research & development workflow-solutions from single bench-top / standalone automated workstations (powder dispensing - sample preparation- synthesis - process development - formulation - application - testing) up to complete and integrated product development workflows for the entire product development processes in the chemical, material science, renewables & energy, pharmaceutical, agrochemical, specialty chemical, home care, cosmetics and nutrition industries, as well as academia.



Discover our enabling portfolio for the entire product development cycle!

