

MACHINE RANGE CATALOG



GRANULATION | CAPSULE FILLING | TABLETING | COATING | TABLET TOOLING
BLISTER PACKING | INSPECTION SYSTEMS | CARTONING | CASE PACKING



With over fifty years of industry expertise, ACG Worldwide has established itself as an integrated manufacturing, packaging and R&D solution provider to the global pharmaceutical industry. We synergistically integrate businesses right from granulation and coating equipment to hard capsules & capsule filling machines; barrier packaging films to blister and cartoning machines; tablet compression systems to tablet tooling; vision inspection systems to end-of-line packaging machines. We have over 20,000 machine installations in more than 100 countries and have subsidiary offices in Brazil, China, Indonesia, the UK and the US.

A GLOBAL ENTERPRISE

The ACG Worldwide mission is to consistently raise the bar of quality and performance with our strong belief in Quality, Performance, Innovation and Value. We work with our customers to create innovative and practical solutions with world-class standards.

This is why, ACG Worldwide is Your Trusted Oral Solid Dosage Partner.



Granulation
Hard Capsules
Capsule Fillers
Tableting Machines & Tooling
Coating



Barrier Films
Blister Packing Machines
Cartoning Machines
Inspection Systems
End-of-Line Solutions



Capsules (Clinicaps)
Capsule Fillers (Lab)
Coaters (Lab)
Blister Packing (Lab)
ANDA Support



Capsules (Four color printing)
Capsules (Pearl finish)
Capsule Fillers (Combinations)
Metalized / ALU Look PVC Films
Liquid filled Hard Capsules



Your Oral Solid Dosage Partner

Four Engineering Companies

ACG Pharma Technologies

(Formerly known as Pam Glatt Pharma Technologies Pvt Ltd)

ACG Pharma Technologies is a trusted name in manufacturing world-class fluid bed equipment and advanced tablet coating systems. As a member of ACG Worldwide, ACG Pharma Technologies offers one-stop solution for R&D, pilot and manufacturing-scale applications from its manufacturing facility in Pune, India.

Global After-Sales Service Network

ACG-pam

ACG-Pam, the flagship engineering company of ACG Worldwide, is one of the Asia's largest pharmaceutical machinery manufacturers. ACG-Pam offers automation solutions for manufacturing solid oral dosages ranging from capsule filling of powders, granules, pellets, tablets, capsules and liquids in hard capsules to high-speed tablet compression systems. We also offer a specialized range of line machines and 100% checkweighers.

Innovative, Robust, Reliable Machinery

ACG-pampac

ACG Pampac, a member of ACG Worldwide, is a leading manufacturer of advanced packaging machinery. Based near Pune, India, the company produces hi-tech blister packing machines, cartoning machines and end-of-line packaging solutions that promise efficiency, reliability and flexibility.

20,000 Installations Globally

ACG-Inspection

ACG Inspection is a hi-tech vision inspection solutions company that helps address challenges for effective online checks and maintain product quality. It also offers customized camera inspection solutions to the pharma industry, helping them maintain product quality and eliminate possible loss of revenue & reputation.



SciTech Centre

Powered by Innovation. Enriched by Knowledge.

ACG Worldwide has a dedicated R&D centre in India to introduce breakthrough technologies in Oral Solid Dosage Forms.

SciTech Centre is ACG Worldwide's state-of-art government-recognized R&D facility in Mumbai. Spread over 50,000 sq. ft., SciTech Centre is where new ideas are conceptualized, developed and implemented - all under one roof. Through a dedicated team, SciTech Centre aids the pharmaceutical industry by partnering in developmental activities right from dosage development to pharmaceutical engineering.



GRANULATION : COATING : DRYING : PELLETIZING : LAB MODELS

ACG Pharma Technologies

(Formerly known as Pam Glatt Pharma Technologies Pvt Ltd)

LAB MODEL (GRANULATION & COATING)



Quest-TC™

Three interchangeable pans -
0.8, 1.6 and 2.5 litres



Quest-FB™

Top spray 3 litres and
bottom spray 1.5 litres

GRANULATION

FLUID BED SYSTEMS

COATING

FLUID BEDS & PAN COATERS

OTHER PRODUCTS

PRODUCT HANDLING & WASHING SYSTEMS



GPCG 1.1

Container capacity for top spray
4.7 litres & bottom spray 2.4 litres

PILOT SCALE MODEL (GRANULATION & COATING)



FBE 25C

Container capacity for top spray
27 litres & bottom spray 23 litres



FBE SERIES

Fluid Bed Top Spray Granulator & Dryer
From 50 litres to 1,275 litres



COMBO SERIES

**Fluid Bed Wurster Bottom Spray
Coater, Granulator & Dryer**
From 40 litres to 1,000 litres

SMARTCOATER™ SERIES



SC 500™
Advanced Tablet Coating System
Capacity: 500 litres

Also available coaters
with capacities from 125 liters to 900 liters

OTHER PRODUCTS

PRODUCT HANDLING SYSTEMS
Lifting & Tippling Devices &
Product Conveying Systems

WASH IN PLACE SYSTEMS
Stand-alone Systems &
Integrated Systems

**Pharmaceutical Technology!..
Built for the Future...**



SOLIDS : LIQUIDS : LAB MODELS : PACKAGING

CAPSULE FILLING

HIGH SPEED - AUTOMATIC - SEMI-AUTOMATIC - MANUAL - LAB MODELS

PERFORMANCE ENHANCERS

SORTING - POLISHING - COUNTERS - ELEVATORS - CHECK WEIGHERS
VISION SYSTEMS - DEBLISTERING - TABLET/CAPSULE LOADER - ADU

TABLETING

HIGH-SPEED TABLET COMPRESSION - TABLET TOOLING

PACKAGING (GLOBAL ALLIANCES)

UNIT PACKS - CANDY PACKS - POUCH PACKAGING - SHRINK WRAPPER



ACG-pam

www.acg-pam.com

HIGH-SPEED CAPSULE FILLING



AF 200T
Upto 200,000 capsules/hour

HIGH-SPEED TABLETING



DESTINY 8100
Upto 1 million tablets/hour

CAPSULE FILLING (SOLIDS)

AF SERIES - Arguably the largest selling capsule fillers in the world

CONTAINMENT CAPSULE FILLER



AF T-LAB
(Lab model)



AF 90T
(Tamping)
Upto 90,000 capsules/hour
(150,000 capsules/hour
variant also available)



SECUREFILL 12T
Up to 12,000 capsules/hour

Also available

AF 25T (Tamping) Up to 25,000 capsules/hour

AF 40T (Tamping) & **AF 40D** (Dosator) Up to 40,000 capsules/hour

CAPSULE FILLING (LIQUIDS)



FLUIDOCAP 1000
Liquid-filling machine (Lab model)
Up to 1,000 capsules/hour



FLUIDOCAP F-40
Liquid-filling machine
Up to 40,000 capsules/hour

FLUIDOCAP F-70
Up to 70,000 capsules/hour
(Also available)



FLUIDOCAP S-70
Band-sealing machine
Up to 70,000 capsules/hour

100% CHECKWEIGHER

OTHER PRODUCTS - PERFORMANCE ENHANCERS

CTS - Capsule Tablet Sorter

ECS 100 - Empty Capsule Sorter

FS 100 - Feeder Sorter

PCS 200 - Product Conveying System

SE 200/100 - Sorter-cum-Elevator

MCS 200/100 - Mini Capsule Sorter

DCW 100 - Dynamic Check Weigher

MF 30 - Manual Capsule Filler

SA 9/SA 10 - Semi-Automatic Capsule Filling Machine

AL 90 - Automatic Capsule Loading Machine



ACCURA 200FF
100% Checkweigher
(Format Free)
Up to 200,000 capsules/hour

Also available
ACCURA 100FF
Up to 100,000 capsules/hour

*World's Most Comprehensive Range
in Blister Packing & Cartoning*

ACG-pampac



ACG-pampac

**BLISTER PACKING : CARTONING : R&D MODELS
LINE COMBINATIONS : END-OF-LINE**

**BLISTER PACKING (PVC, PVdC, ALU-ALU, TROPICAL)
HIGH SPEED - AUTOMATIC - R&D MODELS**

**CARTONING (VERTICAL & HORIZONTAL)
HIGH SPEED - AUTOMATIC**

**LINE COMBINATION
BLISTER : CARTONING**

**END-OF-LINE
CASE PACKER - PALLETIZER**

ACG-pampac®

www.acg-pampac.com

HIGH SPEED BLISTER PACKING



B45
Up to 45 strokes/minute (For PVC/ALU)
Up to 35 strokes/minute (For ALU/ALU)

HIGH SPEED CARTONING



K120i
Up to 120 cartons/minute
(Horizontal)

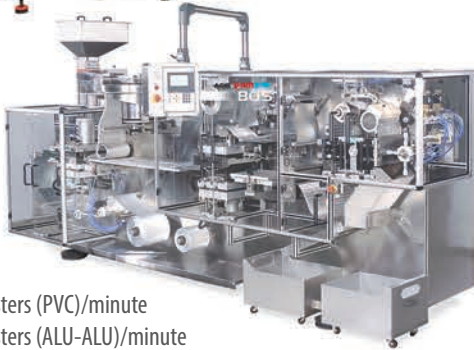
BLISTER PACKING SOLUTIONS



BP 102
Up to 240 blisters/minute



BP 450 AD
(Deep Blister)
450 ampoules/minute



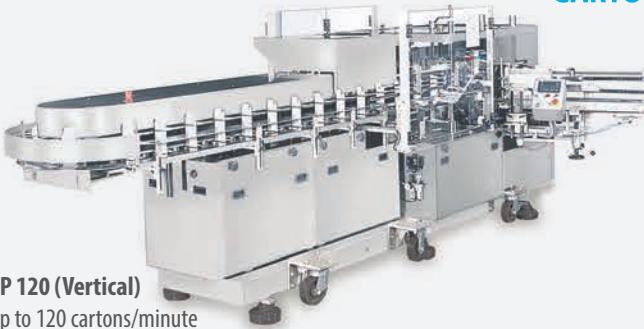
BQS
Up to 600 blisters (PVC)/minute
Up to 280 blisters (ALU-ALU)/minute



CARTOBLIS
Up to 300 blisters/minute

Also available
MINIBLIS
(Lab model blister packing machine)
Up to 25 cycles/minute

CARTONING SOLUTIONS



VP 120 (Vertical)
Up to 120 cartons/minute

HI-CART (Horizontal)
Up to 220 cartons/minute



Also available
other horizontal variants
CP 120
Up to 120 cartons/minute
and
CP 150
Up to 150 cartons/minute

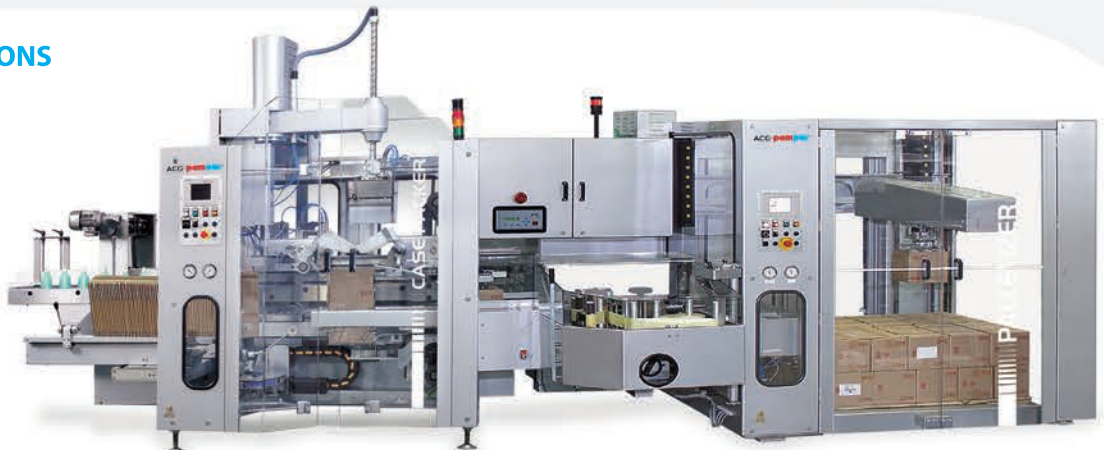
LINE COMBINATIONS



B45+K120i
Up to 45 strokes & 120 cartons per minute

Also available: **BQS+HI-CART**
Up to 400 blisters & 200 cartons
per minute

END-OF-LINE SOLUTIONS



CASEPACKER - PALLETIZER
Up to 40 cycles/minute



ACG-Inspection

www.acg-inspection.com

CAMERA INSPECTION : SUPPLY CHAIN SECURITY

INSPECTION SYSTEMS



Blis-i series of hi-resolution camera system ensures online check of various essential product parameters ranging from black spots to chipped or broken tablets and even color shade variation. It also detects presence of empty pockets or an unwanted product on opaque alu-alu blisters. Blis-i series seamlessly integrates with all types of blister packing machines.



Label-i is an ideal product for inspection of online/offline batch code OCV (Optical Character Verification) & code on sticker labels, leaflets & cartons. It ensures single shot inspection for overprinting & code for lengths of 90-100mm. It works with the same efficiency for inkjet, stereo or thermal printing. Its applications range from vial labels, syringe labels, bottle labels, shipper labels, medical device labels etc.



Micro-i inspection system can be integrated with any capsule filler to ensure consistency in fill volume of powder, granules or pellets. Micro-i also checks number of tablets and micro-tablets being filled in every capsule & can reject fully faulty capsules in which the micro tablets are inaccurately filled. It can also inspect each tablet for its print, color, shape etc.



Cart-i is designed to inspect codes & batch printing details on the cartons & leaflets at the time of packing on cartoning machines. It is capable of interfacing with multiple cameras & the machine PLC to ensure single point inspection & rejection mechanism on cartoning machines. Its robust design supports complete linkup with high speed cartoning machines.

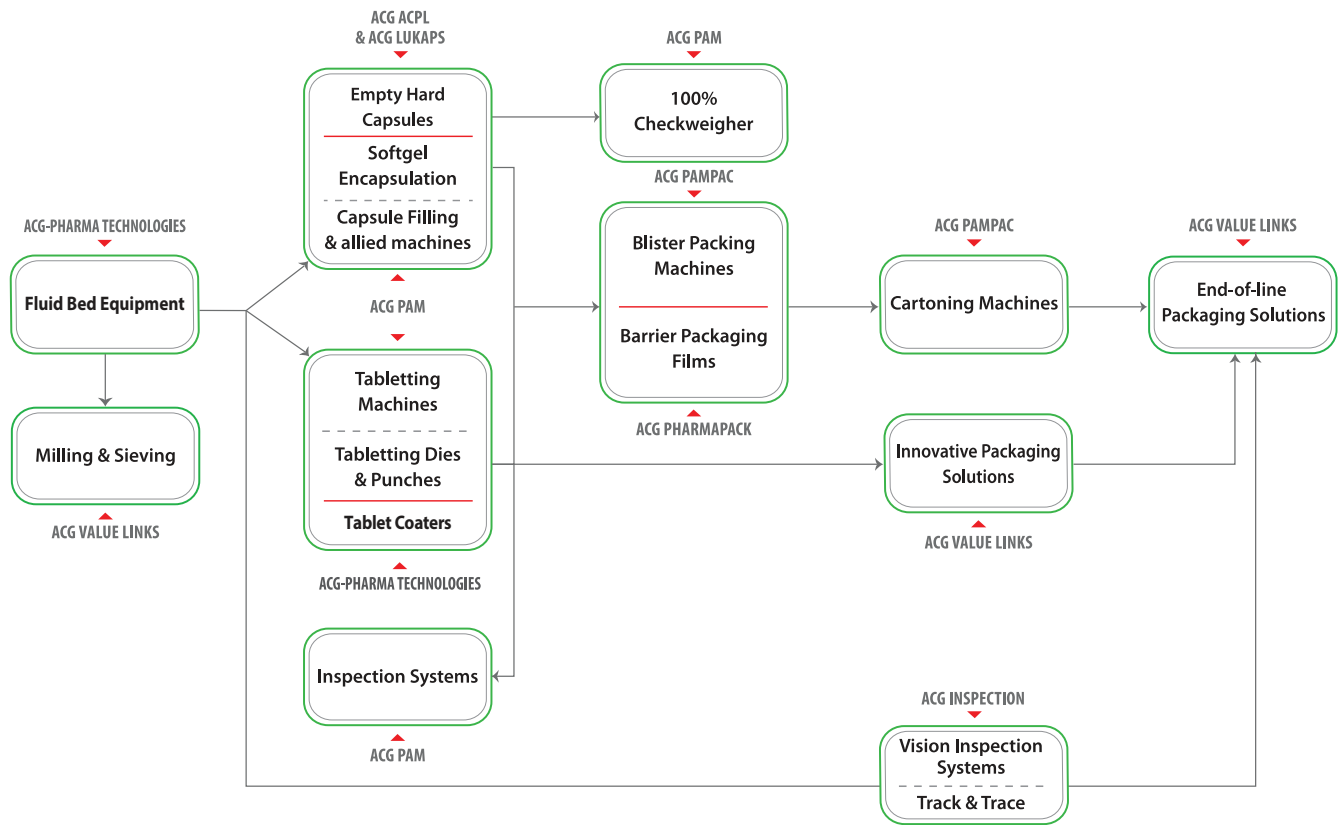


Print-i ensures 100% verification of printing with respect to characters, fonts, logos & colors on product labels, pre-printed cartons, sample sachets, paper & aluminium lidding foils, product leaflets, paper/plastic pouches etc. It can be integrated with line stoppage systems of printing machines to ensure minimal wastage & accurate print control.

PRODITEC

ACG offers Automatic Inspection Machines and a complete range of sorting and measuring systems for tablets and capsules based on Vision Technology in technical collaboration with Proditex of France.

Partnering You at Every Step



Biotech Solutions: Lyophilizers | cGMP Pharma Washers | Prefilled Syringe Lines | Ampoule & Vial Filling Lines

OUR GROUP COMPANIES

Synergy at Work

ACG Pharma Technologies
(Formerly known as Pam Glatt Pharma Technologies Pvt Ltd)

 **ACG-Associated Capsules**

ACG-LUKNPS
Croatia

ACG-pam

ACG-pharmapack
INNOVATION

ACG-pampac

ACG-Inspection

 **ACG Value Links**



- User Friendly Equipment
- Customised Solutions
- Superior Efficiency & Speed
- High-tech Design & Features
- Extensive Validation
- Prompt After-Sales Service

ACG Worldwide works in technical/financial collaboration with the world's leading companies, exporting its products to over 100 countries. It has warehouses, marketing establishments and services centers in several countries - across the globe.



Empowering Customers Around the World

Our Global Presence

- BRAZIL • CHINA • EUROPE • INDIA
- INDONESIA • NORTH AMERICA



Worldwide Partnerships & Alliances

ACG Worldwide has partnered with global leaders to bring to India some of the latest advances in process and packaging technology.

We add value to the business of our customers with the prompt and efficient service back up to our customers in India for equipments sourced from our business partners.

OUR VALUE-LINK PARTNERS



Registered trademarks / logos of our global partners depicted here are owned by their respective owners

TTS-5



Fully Automatic sorting machine model TTS-5 for sorting coated and uncoated tablets for thickness. Undersize, good and over size tablets are automatically separated into 3 discharge channels.

Features

- Thickness sorting accuracy adjustable up to ± 0.1 mm
- Clear digital display for adjustment of sorting channels
- Toolless changeover within 2-3 minutes
- Printer port for batch report
- cGMP design
- Swing type "roller top assembly" helps in very quick cleaning and product changeover
- Removable discharge channels for good and rejected tablets protected with safety interlocks

- High accuracy camera inspection systems like Blis-i, Label-i, Cart-i from ACG Inspection can be added to TTS-5 for effective online monitoring to maintain product quality

TABLET TOOLING

DIES : PUNCHES



*The Fine Art of Tablet Tooling...
Perfected by Technology.*

Exacting Standards

Dies and punches from ACG are manufactured with cutting edge technology using the highest precision methods to produce perfect tablets even for complex shapes - on today's high-end, high-speed tableting machines.

Validation & Documentation

Apart from world-class manufacturing, we partner you in the entire sequence of product development - from design & development to validation & documentation.



Precision Manufacturing

ACG uses ultra-modern facilities for machining and engraving of masters and punches. The sophisticated "Special Purpose Machine" (SPM) is used for matching round and profile tips of punches, enabling achievement of closest tolerance and accuracy for any complicated tools' shape.

The complete SPM operation helps achieve uniformity across all punches and dies giving inter-changeability between every punch or die within the same set.

CANDY PACKS



ACG partners with Theegarten Pactec of Germany, a worldwide leader in the manufacturing of high speed chocolate & candy wrapping equipment.

ACG Pharma Technologies
(Formerly known as Pam Glatt Pharma Technologies Pvt Ltd)

ACG-pam

ACG-pampac

ACG-Inspection

ACG Pharma Technologies Pvt. Ltd.

Plot No. 1100, Shirwal, Taluka - Khandala, Dist. Satara - 412 801.

Tel: +91-2169-249724; E-mail: sales.apt@acg-world.com; Web: www.acg-world.com

ACG Pam Pharma Technologies Pvt. Ltd.

127, Kandivali Industrial Estate, Kandivali (West), Mumbai - 400 067.

Tel: +91-22-30780701/02; Fax: +91-22-28683690

E-mail: sales.pam@acg-world.com; Web: www.acg-pam.com

ACG Pampac Machines Pvt. Ltd.

127, Kandivali Industrial Estate, Kandivali (W), Mumbai- 400 067, India

Tel: +91-22-30780700/01/02; Fax: +91-22-30780697

Email : sales.pampac@acg-world.com; Web: www.acg-pampac.com

ACG Inspection Systems Pvt. Ltd.

7, Prabhat Nagar, Jogeshwari (West), Mumbai - 400 102, India.

Tel: +91-22-30462978/60; E-mail: sales.inspection@acg-world.com

Web: www.acg-inspection.com

BRAZIL

ACG do Brasil S/A

1714, Rua Cristovão Pereira Campo Belo, São Paulo, 04620-013 Brazil

Tel: +55.11.5096.1704

Email: sales.brasil@acg-world.com

CHINA

ACG (Shanghai) Co. Ltd.

1607, Guoli Mansion, 1465 Beijing Rd, Shanghai 200040

Tel: +86.21.5212.0007; Fax: +86.21.5212.0042

Email: sales.china@acg-world.com

EUROPE

ACG Europe Ltd.

73, St. Mary's Mansions, St. Mary's Terrace, London, W2 1SY, UK

Tel: +44.2077.245692; Fax: +44.7771.924479

Email: sales.acpl@acg-world.com

INDONESIA

P.T. ACG Indonesia Ltd.

Jl. GadingKirana Barat IX, Blok C10 No. 26,

KelapaGading, Jakarta Utara -14240, Indonesia

Tel: +62.21.45874093; Fax: +62.21.45874011

Email: acg.indonesia@acg-world.com

NORTH AMERICA

ACG North America LLC

229, Durham Ave., South Plainfield, NJ 0780, USA

Tel: +1.908.7573425; Fax: +1.908.757.3287; Toll Free: +1.877.618.3344

Email: sales.acgna@acg-world.com

Members of



Email: info@acg-world.com