

TABLET COMPRESSION TOOLING



SINGHANIA[®]
TABLETING

— 50 YEARS OF EXPERTISE —

ADEPT

CONCEPT
ENGG.CO.

Imperial
Pharmachines

Pharmachines
INDIA

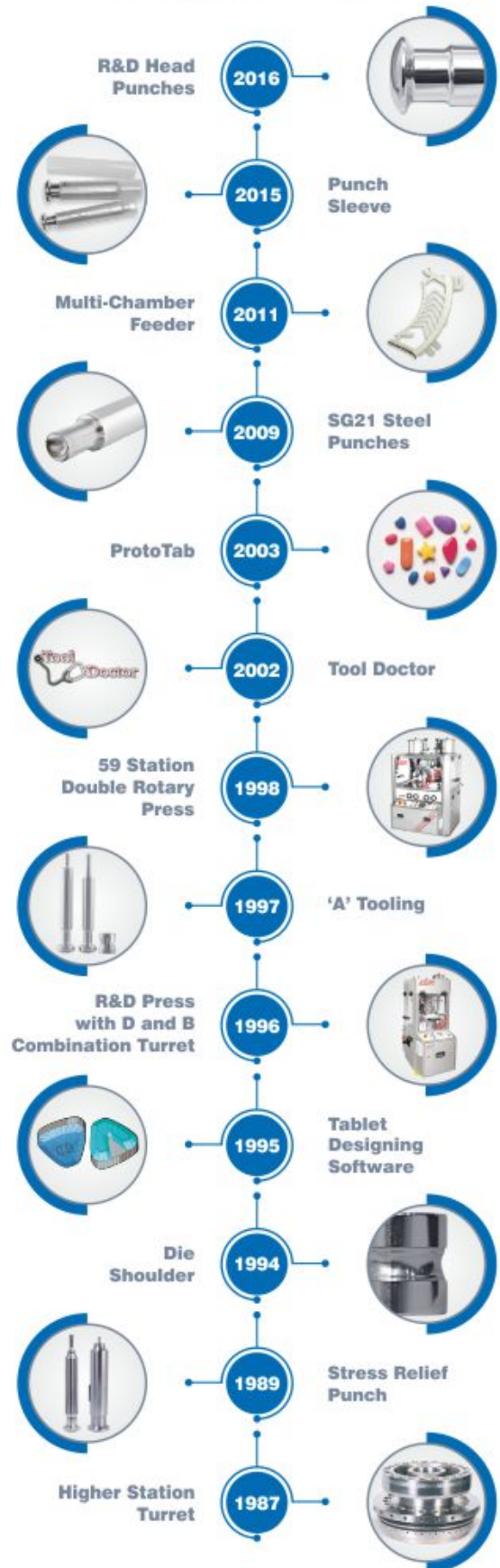
SINGHANIA TABLETING group comprises of ADEPT ENGINEERS, CONCEPT ENGG, IMPERIAL PHARMACHINES and PHARMACHINE INDIA.

The group was formed in 1968 on a commitment to provide high quality Punches & Dies to the pharmaceutical industry. Our passion for quality and adherence to IPT / Euro norms ensures that the tooling are both precise and consistent. Today we are the most reputed manufacturer of Punches & Dies in India.

In 1989, we capitalised on our expertise and knowledge in manufacturing Punches & Dies to develop ADEPT tablet presses. ADEPT Tablet Presses are remarkably sturdy and simple to use. Special emphasis has been given to safety & durability while designing these machines.



INNOVATIONS



PUNCHES & DIES



Special Shaped Tooling



Multi Tip Tooling



Killian Tooling



Rotating Head Tooling

- Singhania Tableting has 50 years of experience in manufacturing Punches & Dies
- Only Indian Manufacturer to be mentioned as a contributor in TSM (Tableting Specification Manual).
- Adherence to IPT / Euro norms ensures that the tooling precise and consistent
- Tooling supplied for any make of Tablet Press: Cadmach, Courtoy, Fette, Kilian, Korsch, Sejong...
- Tablets designed as per weight, shape, embossing and coating requirement
- Special care is taken during tablet designing to avoid Picking, Capping, Soft Zone, Twinning, Tip Breakage and optimise tool life
- Various steel & coating options offered to suit different formulation properties

*Specifications subject to change without notice

PUNCHES & DIES



Core Rod Tooling



EU 441 Tooling



FS 12 Tooling

Teflon Punch for Effervescent Tablet

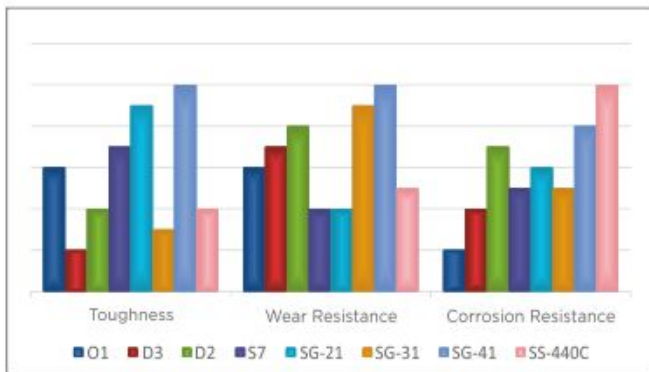


Lower Punch with Bakelite Relief

STEEL OPTIONS

Steel selection plays a critical role in tooling performance. Different steels have different properties with respect to strength, toughness, wear resistance and corrosion resistance. Proper steel selection can ensure smooth production without breakdowns because of sticking, edge chipping, tip breakage and other issues caused due to formulation properties.

- O1 steel punches
- D3 steel punches
- D2 steel punches
- S7 steel punches
- SG-21 steel punches
- SG-31 steel punches
- SG-41 steel punches
- S.S. 440C steel punches
- TC lined dies

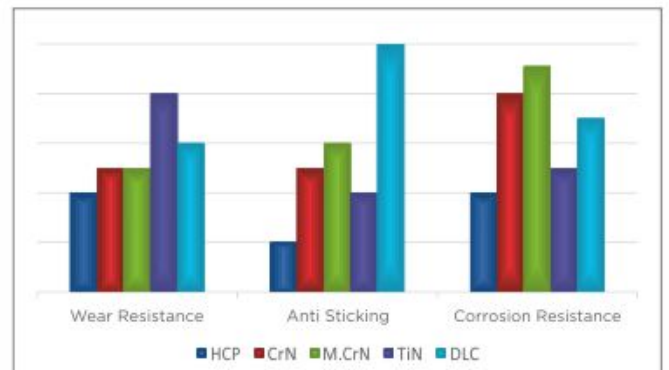


Carbide Dies

COATING OPTIONS

Sticking, Picking and Corrosion are the most common problems faced in Tablet Production. These problems have increased due to Direct Compression and Complex Formulation. To reduce such issues we offer tooling with special coating. Proper selection of coating not only increases the efficiency of tableting process but also increases tool life by reducing abrasion, corrosion...

- Hard Chrome Plating [HCPL]
- Chromium Nitride [CrN] Coating
- Multi Layer Chromium Nitride [M.CrN] Coating
- Titanium Nitride [TiN] Coating
- Diamond-Like Carbon [DLC] Coating



TiN Coated Punch

DLC Coated Punch

*Specifications subject to change without notice

PUNCH CAVITY POLISHING KIT



The Punch Cavity Polishing Kit helps you maintain the original cavity finish. Polishing the punch cavity at regular intervals is important to ensure consistent tooling performance.

KIT CONTENTS

- Polishing Motor with Chuck
- Felt Bob-Dome Type
- Felt Bob-Conical Flat Type
- Nylon Brush-Cup Type
- Nylon Brush-Wheel Type
- Punch Cavity Shining Paste
- Diamond Paste
- Hiffin Lubricant

DIE-PUNCH INSPECTION KIT



The Inspection Kit can be used for checking critical Punch & Die dimensions like Working Height, Tip Size, Punch Tip to Body Concentricity, Die OD, Die Height and others. This would ensure that you do not get weight variation, thickness variation, excessive powder seepage and other issues during tableting.

KIT CONTENTS

- Dial Gauge Comparator Stand
- Magnetic 'V' Block
- Punch Holding Bush: Suitable for 'D' & 'B' Punch
- Digital Dial Gauge
- Digital Micrometer: 0-25mm range
- Radius Gauge: 0-7mm, 7.5-15mm & 15.5-25mm
- Standard Punch Height and Die O.D. Gauge
- Die Bore Go-Nogo Gauges: 6 sizes
- Magnifying Glass: 4x

HORIZONTAL STORAGE SYSTEM



'B' Tooling Tray



Fette Segment Tray



Trolley

The Horizontal Storage System is a Safe, Compact and Systematic way to keep Punches & Dies. It also reduces handling of individual Punches & Dies.

TECHNICAL SPECIFICATIONS

PARTICULAR	HSS 9-100		HSS 18-50		HSS 12-75	
Number of Metal Drawers	9		18		12	
Height of Drawer (mm)	100		50		75	
Usable Height of Drawer	85		35		60	
Plastic Tray per Drawer	4 x 2 layers		4		4	
TOOLING TYPE	D	B	D	B	EU441	D
Sets per Tray	8	11	7	11	7	8
Sets per Drawer	64	88	28	44	28	32
Total Capacity	576	792	504	792	336	384
MOC: Cabinet & Drawer	Mild Steel with Oven Baked Paint OR SS304					
Tray	ABS Plastic, Black Colour					
Dimensions (mm)	W x D x H (720x720x1100)					
Weight (Kgs)	Net:230		Gross:300			

*Specifications subject to change without notice

TOOL STORAGE BOX



Special Tray for Transportation

The Tool Storage Box is a Safe and simple system for storing Punches & Dies.

KEY ADVANTAGES

- Made of polypropylene to prevent accidental tip damage
- Serial number on each pocket for easy identification
- Special head support for easy punch removal
- Can be stacked to optimise floor space utilisation
- Inbuilt recessed handles for easy lifting
- Tray can be provided with handles and legs to minimise handling. Tooling can be taken in the tray to Tablet Press and for Ultrasonic Cleaning

TECHNICAL SPECIFICATIONS

Capacity:

D Tooling : 24 Sets (48 Punches + 24 Dies)

B/BB Tooling : 36 Sets (72 Punches + 36 Dies)

Dimension : 45 x 25 x 18.5 cms (L x B x H)

Net Weight : 3.25 kgs

ULTRASONIC TOOL CLEANER



The Ultrasonic Tool Cleaner ensures consistent and efficient cleaning of Punches & Dies without Manual Intervention and any deterioration.

TECHNICAL SPECIFICATIONS

PARTICULAR	UTC1	UTC2
Capacity: D / B Tooling (SETS)	28 / 45	56 / 90
Number of Baskets	2 Punch + 2 Die	4 Punch + 4 Die
Ultrasonic Power (Watt)	750	1250
Frequency	28kHz	28kHz
Digital Timer for Ultrasonic	Yes	Yes
Heater (Watt)	1500 x 2nos	3500 x 2nos
Digital Temperature Controller	Yes	Yes
Float Switch for min water level	Yes	Yes
Rinsing Jet	Yes	Yes
Air Gun for Drying (with FRL)	Yes	Yes
Tank Size (L X B X H mm)	350x335x400	650x335x400
Water Consumption (Litres per fill)	35	70
MOC - Tank	S.S. 316L	S.S. 316L
MOC - Structure & Outer Panels	S.S. 304	S.S. 304
Inlet Valve	Yes	Yes
Drain Valve	Yes	Yes
Overflow Port	Yes	Yes
Sloped Bottom for easy draining	Yes	Yes
Machine Size (L X B X H mm)	750x715x965	1050x715x965
Net Weight (kgs)	100	120

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AUTOMATIC PUNCH POLISHER



The Auto Punch Polisher is an efficient and safe way of polishing Punches & Dies.

KEY ADVANTAGES

- Reduces Polishing Time
- Minimises Skill Requirement
- Does not wear out Engraving / Coating
- Improves surface finish of entire punch

TECHNICAL SPECIFICATIONS

- Capacity : 54 punches of B or D tooling
- Cycle Time : 20 mins for re-polishing 1 batch
- Main Motor : 2 HP controlled by an A.C. Drive
- Dimension : 95 x 75 x 220 cms
- Net Weight : 300 kgs



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