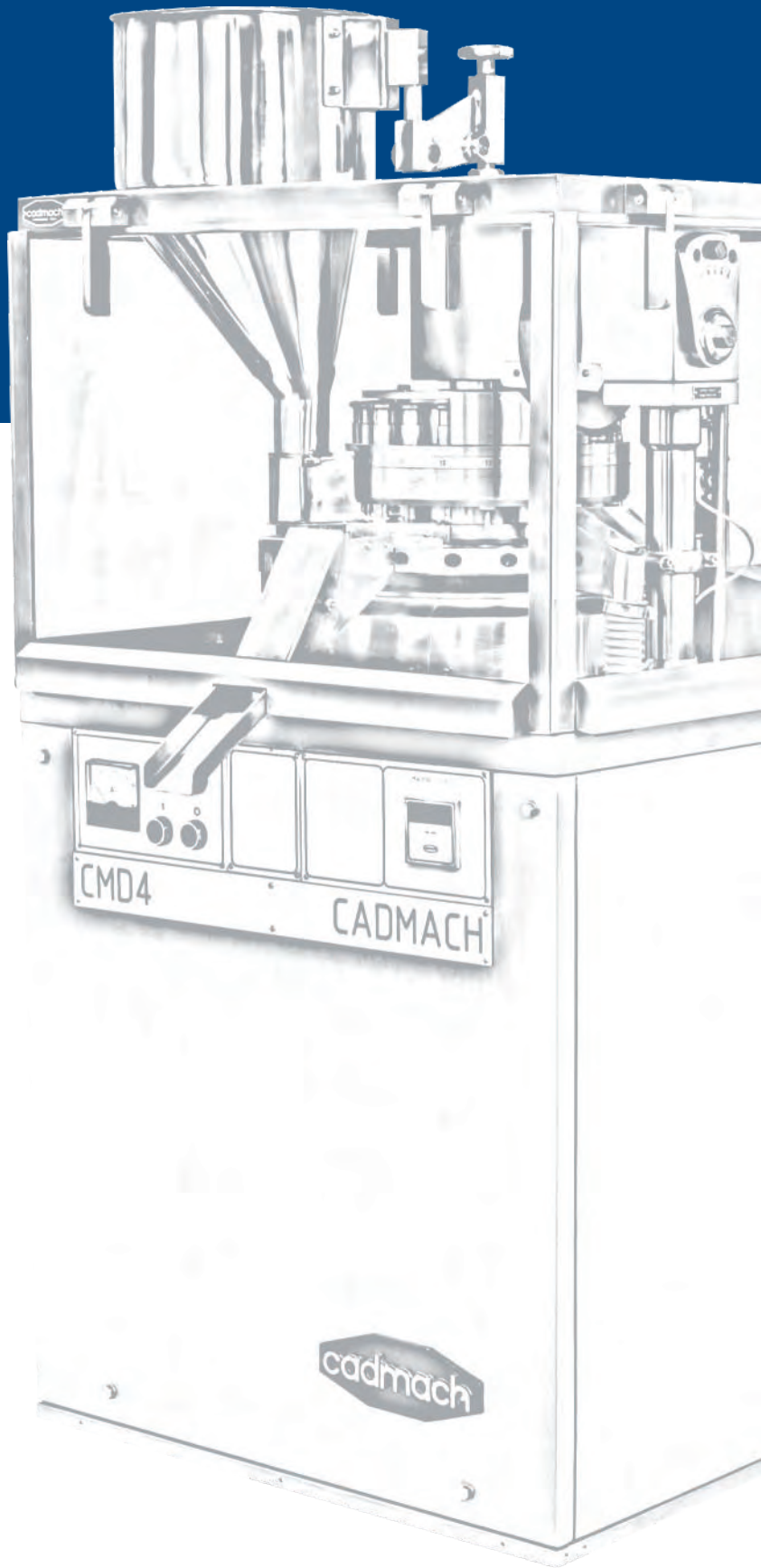


CADMACH

CMD 4

SINGLE SIDED ROTARY TABLETING MACHINE

[illegible]

We **do more** for productivity

MACHINE CONSTRUCTION

a) Feeding Material

For consistent tablet weight it is essential that feeding of the powder in the dies must be controlled. The feeder support platform is preset at the factory at the correct height and should not require adjustment. The clamping screws allow removal of the feeder and tool changeover without the need to disturb the feeder platform setting. A powder re-circulating band fitted to the feeder keeps the powder losses to an absolute minimum at maximum output. The die is covered with an extended tail over die until moment of compression thereby ensuring greater weight consistency at higher speeds.

b) Powder Inlet Setting

The powder inlet setting is adjustable from the hopper support bracket obviating the need to shut down the machine and open the guards before making any adjustment.

c) Adjustable Upper Punch Entry

Adjustable upper punch entry, a feature that is generally supplied as an optional extra, is incorporated as a standard feature of the machine which allows the position at which the tablet is made in the die to be varied.

d) Lower Punch Scraper Seals

The lower punch guides are protected by scraper seals to minimize the possibility of tight lower punches caused by the possible ingress of powder into punch guide holes.

e) Cleanability

While designing the tableting zone of the machine, Good Manufacturing Practice (GMP) was firmly considered. The result is a completely paint free tableting zone. The wide upper guards and the removal of the corner pillars give easy access to the tableting zone for cleaning purposes, while the relocation of a large majority of the usual fittings minimizes the number of inaccessible dust traps, thus facilitating not only easy but also more thorough cleaning.

f) Maintenance

The hinged side and rear panels allow full access to all major controls and the one-shot lubrication system. The panels are not interlocked, as there is no moving part in this area. Hence all major adjustments can be carried out safely while the machine is in operation.

g) Lubrication

The one-shot lubrication system delivers oil to all major lubrication points. At points where continuous lubrication is required, oil cups are provided.

h) Overload Pressure Release

The overload pressure release is in fact the safety valve of the machine and has been fitted to lower pressure roll. Easily adjusted from the lower cabinet, the overload pressure release should always be adjusted to relieve the pressure with the minimum of effort consistent with the diameter and hardness of the tablets being made. If this system is properly set and maintained, it will prevent serious damage to both the machine and punches that could occur from overloading.

i) Drive Arrangement

The turret is driven by a precision phosphorous bronze worm fitted to a bearing mounted worm shaft which is driven by a pulley and vee belt and variable speed pulley mounted on the motor shaft. Speed adjustment is achieved by raising or lowering the motor on its slide by means of a hand wheel.

j) Motor Overload

An ammeter is fitted to the control panel to indicate any increase in motor overload that might occur due to tight punches etc. When the machine is running, the amperage should be noted and if any increase occurs; the machine should be stopped and the fault to be investigated.

CADMACH CMD4

CADMACH developed this new single sided Rotary Tablet Press with the principles of modern tablet machine technology and emphasis on simplicity of operation and ease of maintenance. Simplicity of Operation, Operator Safety and ease of maintenance are the key features in this machine's design philosophy. Guards interlocking switches are fitted to the upper guards and handwheel guard so that if a guard is opened while the machine is running the machine will immediately switch off. This feature ensures operator's safety.

Machine Feeding System



Adjustable Upper Punch Penetration



Tablet Outlet



Upper Punch Flight Control Plate



TECHNICAL SPECIFICATIONS:

Type	CMD4 - 20	CMD4 - 25
Number of Station	20	25
Type of Tooling	D	B
Output (Tablets/Hr)*		
Maximum	50400	63000
Minimum	22800	28500
Max. Operating Pressure (KN)	100	65
Max. Tablet Diameter (mm)	25	16
Max. Depth of Fill (mm)	20	17
Upper Punch Penetration (mm)	3 to 6	

*Depending upon Tooling Size, Shape and also Material Characteristics.

Type	CMD4 - 12 (Special)
Number of Station	12
Type of Tooling	Special
Output (Tablets/Hr)*	12300
Max. Operating Pressure (KN)	100
Max. Tablet Diameter (mm)	38
Max. Depth of Fill (mm)	31.75
Upper Punch Penetration (mm)	3 to 6
Punch Diameter (mm)	38.10
Upper Punch Height (mm)	133.65
Lower Punch Height (mm)	152.40
Die Diameter (mm)	50.80
Die Height (mm)	34.92



SPECIAL FEATURES:

Auto Lubrication System

Force Feeding Assembly

Three Piece Turret with Stainless Steel 304 / 316 die - table

Combination Tooling with "D" & "B" Tooling on same Turret

AC Variable drive for Main Motor and Force Feeder Motors

Powder Level Sensors

Lower Punch Spray Lubrication System for effervescent Tablet Production

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