



Process Engineering  
Division

Niro Pharma Systems

AEROMATIC  
BUCK  
COLLETTE  
COURTOY  
FIELDER  
NICA  
NIRO

# Courtoy modul™ D

## Double-sided rotary press

The shortest way to productivity  
and containment

### Your Benefits

- Exchangeable Compression Module (ECM) for D,B,BB and other sizes
- Highest productivity and flexibility, combined with product containment
- Double-output or double-layer tableting
- Multi-Control 4 control system (21 CFR part 11 compliant)
- Optional Dual Control (patent pending) for independent weight and hardness control
- Constant-level feed for optimal weight stability
  - ECM with unique Courtoy design features
  - Large front and rear door for easy access
  - Complete process control including all peripherals for lights-out production

### ECM : Exchangeable Compression Module

- All parts in contact with the product are encapsulated in the ECM including the tooling.
- The ECM is removed in a contained manner, eliminating the need for cleaning of the inside of the press.
- This results in very high productivity, as the downtime is reduced to an absolute minimum.
- At the same time, a very high level of operator protection is achieved.





*Lift to ensure easy removal and installation of the ECM*

## Technical Data

Tooling (EU or IPT)		D35	D	B	BB	BBS
Max. tablet diameter <sup>1</sup>	mm	35	25,4	16 (L=19)	13 (L=14,3)	8
Punch body diameter	mm	35	25,4	19	19	16
Die outside diameter	mm	52	38,1	30,16	24	22
Die height	mm	30	23,81	22,22	22,22	22,22
<b>Modul™ D</b>						
Number of stations		39	53	67	81	89
Maximum fill depth	mm	20 (25)	20	20	20	16
Top punch penetration	mm	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4
Max. pre-compression force <sup>2</sup>	kN	10	10	10	10	10
Max. compression force <sup>3</sup>	kN	100	100	100	100	100
Max. production capacity <sup>4</sup>	tab/hr	350,000	540,000	722,000	875,000	1,069,000
Electrical requirements		3phase+PE - 380V / 400V / 415V / 460V - 50 Hz / 60 Hz - 25 kVA				
Compressed air requirements		6-8 bar / 100 l/min				
Dust extraction requirements		230 m <sup>3</sup> /h at 30 mbar				
Machine dimensions & weight		W= 2000mm x D= 1500mm x H= 2250mm - 6500 kg				

In case of special tablet shapes, it is recommended to contact Courtoy.  
 10 kN under extended dwell time by air compensator. 100 kN is possible upon special request.  
 If the actual compression force required is above 70% of the maximum, please contact Courtoy.  
 Real output depends on tablet and powder characteristics.

## Niro Pharma Systems

AEROMATIC  
 BUCK  
 COLLETTE  
 COURTOY  
 FIELDER  
 NICA  
 NIRO

*Niro Pharma Systems unites the technologies of Aeromatic, Buck, Collette, Courtoy, Fielder, Nica and Niro to supply advanced processing solutions for solid dosage forms to the pharmaceutical industry.*



**modul™**

**Because time doesn't stop when you do!**

**GEA Niro Inc**

Process Engineering  
 Division

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