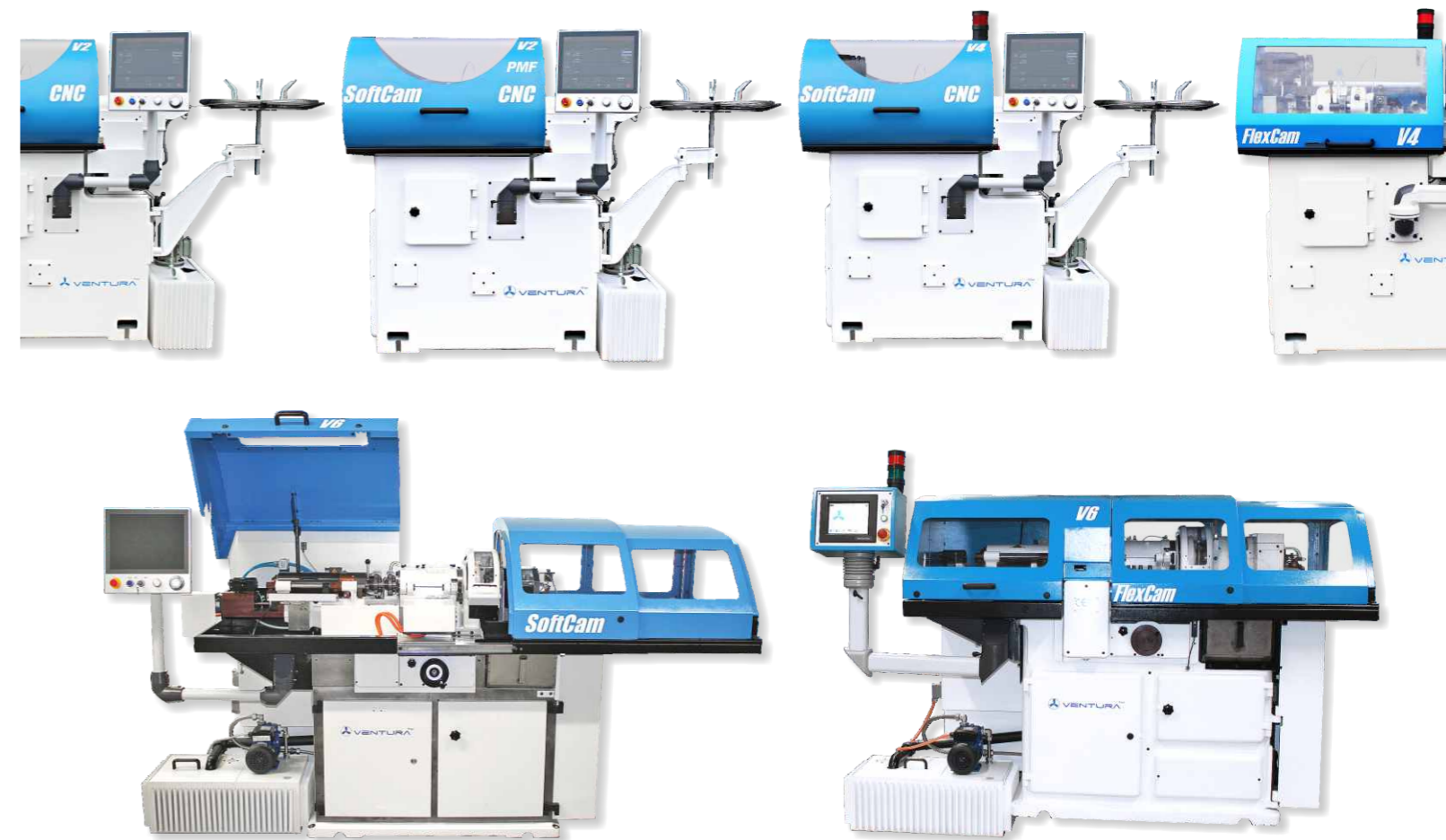


7 Softcam CNC Lathes – 7 Flexcam Automatic Lathes

Application Guide – Lathes

Softcam		Flexcam
... Up to 6 Simultaneous Movements of Machine Axes		Fastest Cycle Times
Softcam V6-PM: 6 Material Feed Tool Axis 1 Tool Axis 2 Tool Axis 3 Mobile Counter Collet Straightener	Softcam V6-SR1A: 6 Material Feed Tool Axis 1 Tool Axis 2 Tool Axis 3 Mobile Counter Collet ³ 4 Station Turret ³ Straightener ³ Same Axis	All Flexcam Models Machine construction optimised for fastest cycle times and highest production rates Flexible camshaft speed programmable by segment
Productivity Increase After Retrofit – Up To		
Softcam V2: + 10% Softcam V2-PM: + 20% Softcam V2-PMF: + 50% Softcam V4/V5: + 20% Softcam V6: + 30% Softcam V6-PM: + 30% Softcam V6-SR1A: + 20%		
Productivity Guide – Softcam → Request Your Copy (45 Pages)		Customer Machine Trade-In
Part 1 – Overview for Management Improve competitiveness Reduce part costs Reshore production Overcome shortage of skilled operators Knowledge of CNC languages not required	Part 2 – Overview for Escomatic® Machine Operators Easy-to use Softcam CNC control software 40+ pictograms and conversational programming Rapid machine set-ups (under 1 hour, 2-4 hours) Production optimisation and monitoring	Escomatic® Base Model Optional trade-in of Escomatic® D2/D4/D5/D6 from customer, or base machine provided by Ventura Mecanics

- 14 Models
- 7 Softcam CNC Lathes with Virtual Cams
- 7 Flexcam Automatic Lathes with Mechanical Cams
- Retrofitted on Escomatic® D2/D4/D5/D6 Base Models



Ventura Mecanics – Expertise and Customers



- 12'000 Escomatic® Tool-Heads
- 500 Ventura® High Speed Tool-Heads
- 200 Retrofitted Escomatic® Lathes
- 900 Precision Turning Machines
- 1983 Founding Year
- 400 Customers
- 40 Export Countries
- 80% Export Sales

Customer Industries	
Automotive	Aerospace
Medical	Dental
Electronics	Connectors
Appliances	Mechanics
Watchmaking	Security Hardware

Examples of Customer Products
Axes for micro-motors and household appliances
Special screws, pins and connector rods
Pins for semiconductor connectors
Axes for medical instruments and dental drills
Spring bars for watch bracelets
Fasteners and pins and for locking mechanisms

Distributor/Agent



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7 Softcam CNC Lathes – 7 Flexcam Automatic Lathes

For Precision Turning and Machining of Small Diameter Parts			
Ø 7 mm			
6 mm			
5 mm			
4 mm	14 pcs/min. 16 pcs/min.		
3 mm	14 pcs/min. 10 pcs/min. 14 pcs/min. 25 pcs/min.	25 pcs/min. 16 pcs/min.	25 pcs/min. 3 pcs/min.
2 mm	6 pcs/min. 25 pcs/min.	20 pcs/min. 50 pcs/min.	20 pcs/min. 16 pcs/min. 3 pcs/min.
1 mm		11 pcs/min. 3 pcs/min.	11 pcs/min. 50 pcs/min.

Simple Parts ←

Retrofitted on Escomatic® D2/D4/D5/D6 Base Models

Up To Diameter 6.35 mm and Length 124 mm			
		3 pcs/min. 5.6 pcs/min.	
		3 pcs/min.	3 pcs/min.
14 pcs/min. 16 pcs/min.	20 pcs/min.	16 pcs/min.	25 pcs/min.
14 pcs/min. 10 pcs/min. 14 pcs/min. 25 pcs/min.	50 pcs/min.	16 pcs/min.	16 pcs/min. 20 pcs/min.
6 pcs/min. 25 pcs/min.	3 pcs/min. 25 pcs/min.		11 pcs/min.

→ Complex Parts

V2



V2-PM



V2-PMF



Overview

V4/V5



V6



V6-PM



V6-SR1A

Overview

Softcam

Softcam CNC Lathes	Flexcam Automatic Lathes	Part Diameter 0.15 - 5.0 mm Part Length - 110 mm	Part Diameter 0.50 - 6.35 mm Part Length - 124 mm
<p>Virtual cams for more production flexibility and higher productivity</p>	<p>Mechanical cams for large production series and lower cost per part</p>	<p>Softcam and Flexcam</p> <p>Model V2 Retrofit of Escomatic® D2 Fixed Counter Collet</p> <p>Model V2-PM Retrofit of Escomatic® D2-PM Mobile Counter Collet</p> <p>Model V2-PMF Retrofit of Escomatic® D2-PMF Milling Attachment Mobile Counter Collet</p> <p>Model V4/V5 Retrofit of Escomatic® D4/D5 3 Station Drilling Turret Mobile Counter Collet</p>	<p>Softcam and Flexcam</p> <p>Model V6 Retrofit of Escomatic® D6 3 Independent Turning Operations Fixed Counter Collet</p> <p>Model V6-PM Retrofit of Escomatic® D6-PM 3 Independent Turning Operations Mobile Counter Collet</p> <p>Model V6-SR1A Retrofit of Escomatic® D6-SR 3 Independent Turning Operations 4 Station Turret for Complex Parts Front, Back and Transverse Operations Mobile Counter Collet</p>
<p>Innovative Technologies for Industry 4.0 Performance</p> <p>All Models Complete mechanical, electrical, electronic, hydraulic and pneumatic retrofit of Escomatic® D2/D4/D5/D6 base model</p> <p>For higher machining precision, tighter tolerances, improved part surface quality and lower maintenance costs</p>			

Up to 13 Machining Operations	Up to 5 Simultaneous Machining Operations	Up to 6 Simultaneous Movements of Machine Axes ...
<p>All Models Turning & Cutting Knurling Option</p> <p>Depending on Model Knurling Attachment → V2, V6 Milling Attachment → V2-PMF 3 Station Drilling Turret → V4/V5 4 Station Turret for Complex Operations → V6-SR1A Front Operations¹ Back Operations² Transverse Operations</p> <p>¹Drilling, Tapping, Threading, Thread Rolling, Milling, Reaming ²Drilling, Cross-Drilling, Milling, Cross-Milling</p>	<p>Softcam V2, V2-PM: 1 Turning</p> <p>Softcam V2-PMF: 2 Turning, Milling</p> <p>Softcam V4/V5: 2 Turning, Drilling</p> <p>Softcam V6, V6-PM: 3 Turning, Turning, Turning</p> <p>Softcam V6-SR1A: 5 Turning, Turning, Turning Front Operations¹ Back Operations²</p>	<p>Softcam V2: 3 Material Feed Tool Axis 1 Straightener</p> <p>Softcam V2-PM: 4 Material Feed Tool Axis 1 Mobile Counter Collet Straightener</p> <p>Softcam V2-PMF: 5 Material Feed Tool Axis 1 Mobile Counter Collet Milling Attachment Straightener</p> <p>Softcam V4/V5: 4 Material Feed Tool Axis 1 Mobile Counter Collet³ 3 Station Drilling Turret³ Straightener</p> <p>Softcam V6: 5 Material Feed Tool Axis 1 Tool Axis 2 Tool Axis 3 Straightener</p> <p>³Same axis (see next page)</p>