OPTICAL MEASURING MACHINES

SYLVAC SCAN

Dedicated to fast, precise, non-contact measurement of cylindrical parts. Our new SCAN machines reproduce high resolution images of the components profile in just a few seconds. Thanks to the easy to use REFLEX-SCAN software, parts can be measured with just a click of a button, offering over 150 different types of measurement features.

SYLVAC VISIO





SYLVAC-SCAN

DESCRIPTION S25 & S25T

 Vertical optical measuring machine for static and dynamic measurement of various elements on small cylindrical parts.

- The parts can be mounted between two centres or held in place using various accessories. Attractive design and robust construction with many new features: New touch screen control panel for easy operation directly at the work-place, bi-telecentric optical system, high resolution CMOS camera, precision sliding headstock with integrated and protected daily standard, quick and easy accessory changing system, integrated temperature sensors, dynamic LED indicator of the general status of the measured part (GO/NG) and operator messages. Equipped with an exclusive optics tilting system.
- Machines specially designed to measure threads such as, parallel, trapezoidal, conical, round, square, conical, worms, ball screws, bone screws, dental implants, etc.
- Reflex SCAN+ concept for measuring parts without prior programming at the touch of a button
- Delivered complete with a PC and the Reflex SCAN+ software, which allows a multitude of elements to be measured easily and intuitively.
- The machine is delivered fully equipped «Automation Ready» as standard.



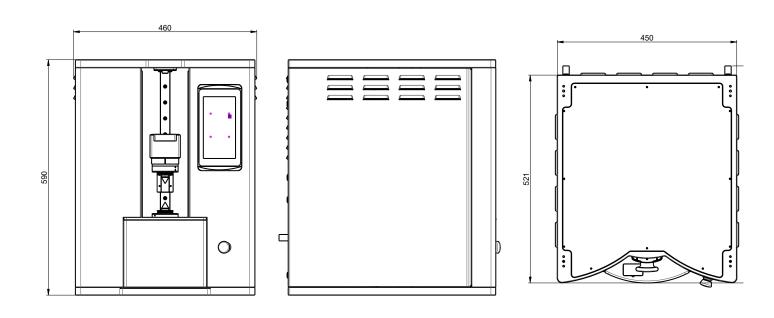
J



SYLVAC-SCAN

DIMENSIONAL DRAWINGS

S25 & S25T



TECHNICAL SPECIFICATIONS

		902-	4020	902-4025		
		Sylvac SCAN S25		Sylvac SCAN S25T		
		Diameter	Diameter Length		Length	
Measuring range	mm	26	200	26	200	
Resolution up to	mm	0.0001	0.0001	0.0001	0.0001	
Max. error	μm	0.9 +D[mm]/100) μm	(2.5 +D[mm]/200) μm	0.9 +D[mm]/100) μm	(2.5 +D[mm]/200) μm	
Repeatability 2 o	μm	0.4	0.8	0.4	0.8	
Holding capacity diameter	mm	51	200	51	200	
Headstock			High preci	sion rotary		
Tilting for thread measurement		- • 30°				
Max. weigth of part	kg	2				
Machine's weight	kg	60				

STANDARD DELIVERY

- Instrument according to technical specifications
- Computer with screen, keyboard and mouse
- Windows multilingual operating system
- Sylvac Reflex SCAN Software +
- Accessories: 2x 902-6259 ISO / MK2 adapter, 2x 902-6202, 902-6161 & 902-6212
- Manual

J



SYLVAC-SCAN

For turned parts

DESCRIPTION 52 REFLEX-CLICK

- Horizontal SCAN machine, measuring in landscape format, the same as the parts are produced
- Robust construction with granite column for use in workshop or control laboratory
- Concept Reflex SCAN patented for measuring cylindrical workpieces without preprogramming
- Measurements performed in seconds by a single click
- Load the part, click the button and you get all the main values directly!
- Automatic recognition of recorded parts already measured
- Easy daily calibration thanks to the integrated master
- Quick return of investment



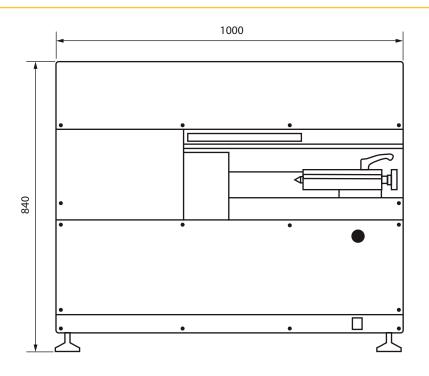


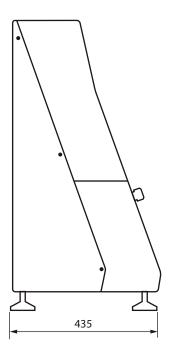


SYLVAC-SCAN

DIMENSIONAL DRAWINGS

52 REFLEX-CLICK





TECHNICAL SPECIFICATIONS

		902.5520		902.5521	
		Diameter	Length	Diameter	Length
Measuring range	mm	0.5 ÷ 52	300	0.5 ÷ 52	300
Resolution up to	mm	0.0001	0.0005	0.0001	0.0005
Max. error	μm	1.5 + D/100	4 + L/100	1.5 + D/100	4 + L/100
Repeatability	μm	0.6	2.5	0.6	2.5
Headstock		Non-Rotating headstock for static measurements		Rotary headstock for static	and dynamic measurements
Max. weigth of part	kg	4			
Machine's weight	kg	103			

BASIC INSTRUMENT

- Instrument according to technical specifications
- Accessories : 2x 902.6202, 902.6161, 902.6212
- Computer with screen, keyboard and mouse
- Windows multilingual operating system
- Sylvac Reflex SCAN Software
- Manual

1



SYLVAC-SCAN

DESCRIPTION F60 & F60T

- Concept Reflex SCAN patented for measuring cylindrical workpieces without preprogramming
- Part measurement from **0.2 to 64mm diameter and up to 300mm** length
- Complete 2D part scan in <3 seconds!
- Reduce inspection time, scrap and increase productivity
- Exclusive helix tilting system for thread measurements (only on T models)
- Quick return of investment, typically < 6 months
- New software Reflex SCAN + : advanced programming and functions
- Quick release tooling

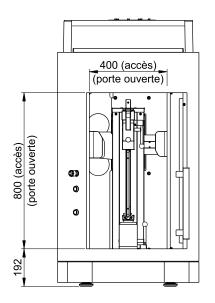


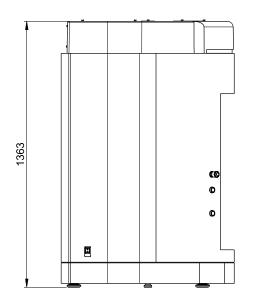


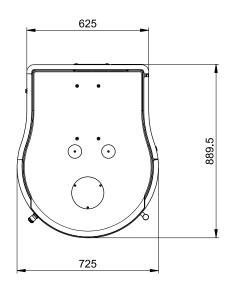
SYLVAC-SCAN

DIMENSIONAL DRAWINGS

F60 & F60T







TECHNICAL SPECIFICATIONS

		902.	4060	902.4065	
		Sylvac SCAN F60		Sylvac SCAN F60T	
		Diameter Length		Diameter	Length
Measuring range	mm	64	300	64	300
Resolution up to	mm	0.0001	0.0001	0.0001	0.0001
Max. error	μm	(1 + D[mm]/100) μm	(3 + L[mm]/200) μm	(1 + D[mm]/100) μm	(3 + L[mm]/200) μm
Repeatability	μm	0.5 1.0		0.5	1.0
Holding capacity diameter	mm	120	315	120	315
Headstock			Rotary headstock for static	and dynamic measurements	
Tilting for thread measurement		- • 30°			
Max. weigth of part	kg	10			
Machine's weight	kg	265			

BASIC INSTRUMENT

- Instrument according to technical specifications
- Accessories : 2x 902.6202, 902.6161, 902.6212
- Computer with screen, keyboard and mouse
- Windows multilingual operating system
- Sylvac Reflex SCAN Software +
- Manual



SYLVAC-SCAN

DESCRIPTION F60L & F60LT

- Concept Reflex SCAN patented for measuring cylindrical workpieces without preprogramming
- Part measurement from **0.2 to 64mm diameter and up to 500mm** length
- Complete 2D part scan (500mm) in <5 seconds!
- Reduce inspection time, scrap and increase productivity
- Exclusive helix tilting system for thread measurements (only on T models)
- Quick return of investment, typically < 6 months
- New software Reflex SCAN + : advanced programming and functions
- Quick release tooling

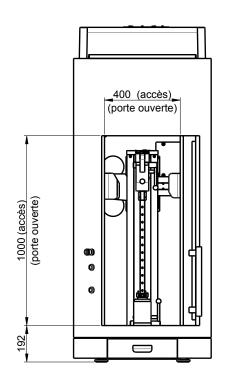


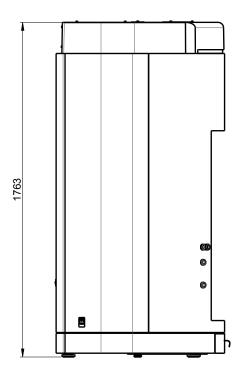


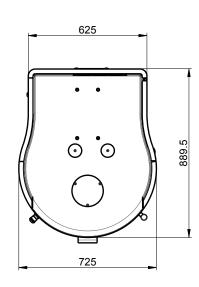
SYLVAC-SCAN

DIMENSIONAL DRAWINGS

F60L & F60LT







TECHNICAL SPECIFICATIONS

		902.4	4062	902.4067	
		Sylvac SCAN F60L		Sylvac SCAN F60LT	
		Diameter Length		Diameter	Length
Measuring range	mm	64	500	64	500
Resolution up to	mm	0.0001	0.0001	0.0001	0.0001
Max. error	μm	(1 + D[mm]/100) μm	(3 + L[mm]/200) μm	(1 + D[mm]/100) μm	(3 + L[mm]/200) μm
Repeatability	μm	0.5	1.0	0.5	1.0
Holding capacity diameter	mm	120	500	120	500
Headstock			Rotary headstock for static	and dynamic measurements	
Tilting for thread measure	ement		-	• (30°
Max. weigth of part	kg		1	0	
Machine's weight	kg	330			

BASIC INSTRUMENT

- Instrument according to technical specifications
- Accessories : 2x 902.6202, 902.6161, 902.6212
- Computer with screen, keyboard and mouse
- Windows multilingual operating system
- Sylvac Reflex SCAN Software +
- Manual

J



SYLVAC-SCAN

TECHNICAL SPECIFICATIONS

SOFTWARES

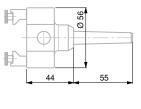
	FUNCTIONS		
	SYLVAC REFLEX SCAN	SYLVAC REFLEX SCAN+	
Automatic measurement of the main features (diameters, lenghts, angles, radius)	•	•	
Automatic parts / program recognition	•	•	
Off-line programming		option	
Advanced dust filtering		•	
Statistic view		•	
CAD import		•	
Reports editor	•	•	
Data export	•	•	
SPC basic calculations	•	•	
Script function		option	
SPC software	On request	On request	
Access management - security lever	1	multiple	

	GEOMETRICAL TOLERANCING - FEATURES SUMMARY		
	SYLVAC REFLEX SCAN	SYLVAC REFLEX SCAN+	
Diameters	•	•	
Lenghts, heights, distances	•	•	
Angles, chamfers	•	•	
Radii	•	•	
Threads (parallel)	•	•	
Threads (root detail, taper, multi-starts, ball screws,			
worm screws, special threads)		•	
Perpendicularity		•	
Form deviation		•	
2 and 3D alignment of the parts (axis correction)	•	•	
Rotational diameters	•	advanced	
Run out	•	advanced	
Concentricity	•	•	
Roundness	•	•	
Cylindricity	•	•	
Across flats	•	•	
Straightness	•	•	
Interrupted parts (splines, turbines)		•	



SYLVAC-SCAN

ACCESSORIES





902.6220	
902.6220	

Two-jaw gripper External clamping for manual use

Requires 902.6360



902.6231 H=22

Raising blocks for external jaws, in pairs

External jaws,

in pairs

(Morse 1 requires 902.6220)

902.6141

 $0.6 \, \text{mm} \, \text{T} = 1.5$

902.6142

 $0.6 \, \text{mm} \, \text{T} = 3$

902.6143

6÷12mmT=3

902.6144

12÷18mm T=6

902.6145

18÷24mmT=9

902.6152

0.6mmT = 6

902.6153

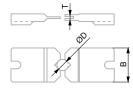
0÷6mm T = 15

902.6140

6÷12mmT=15

For 902.6220

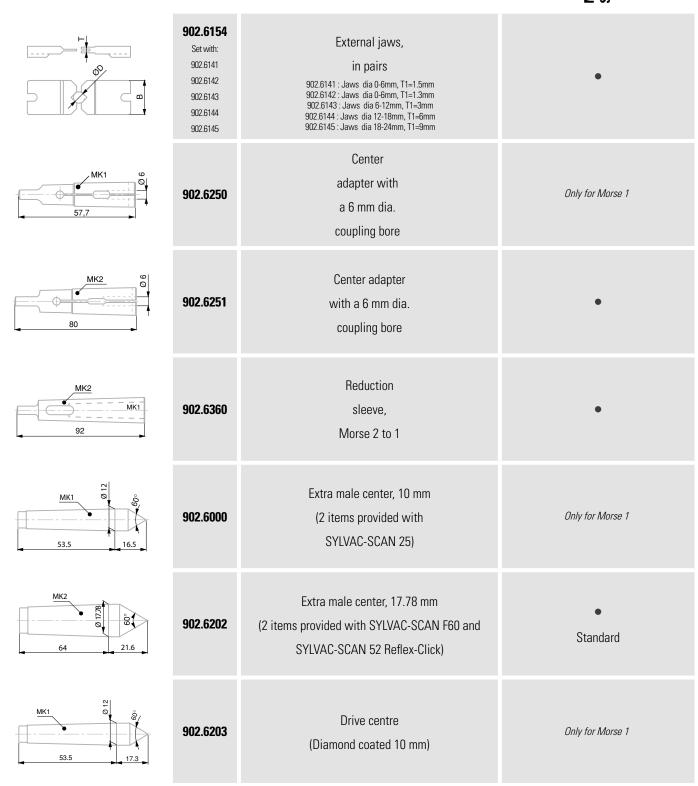
(also for Morse 1)



SYLVAC-SCAN

ACCESSORIES

Morse 2 SCAN 52 / F6

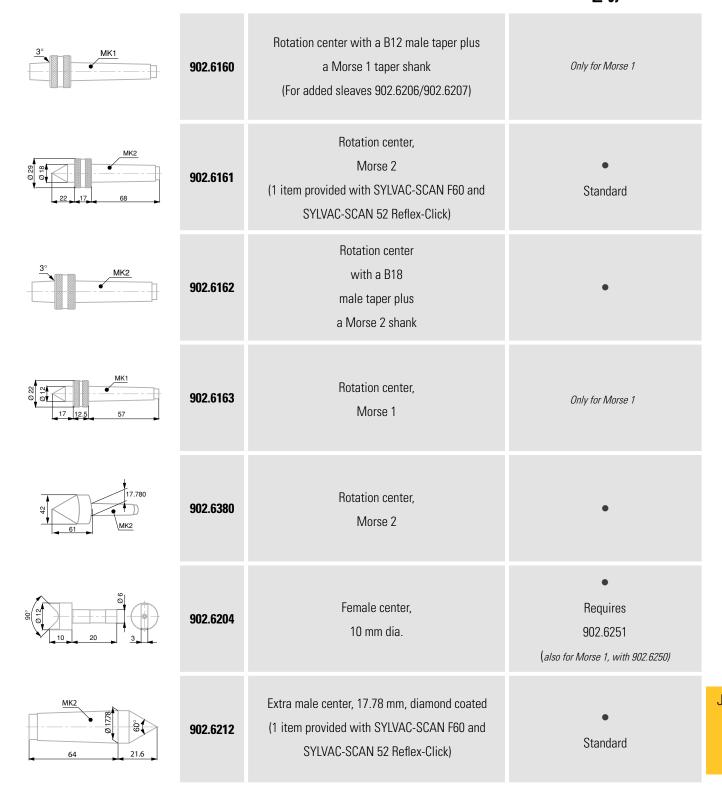




SYLVAC-SCAN

ACCESSORIES

Morse 2 SCAN 52 / F6

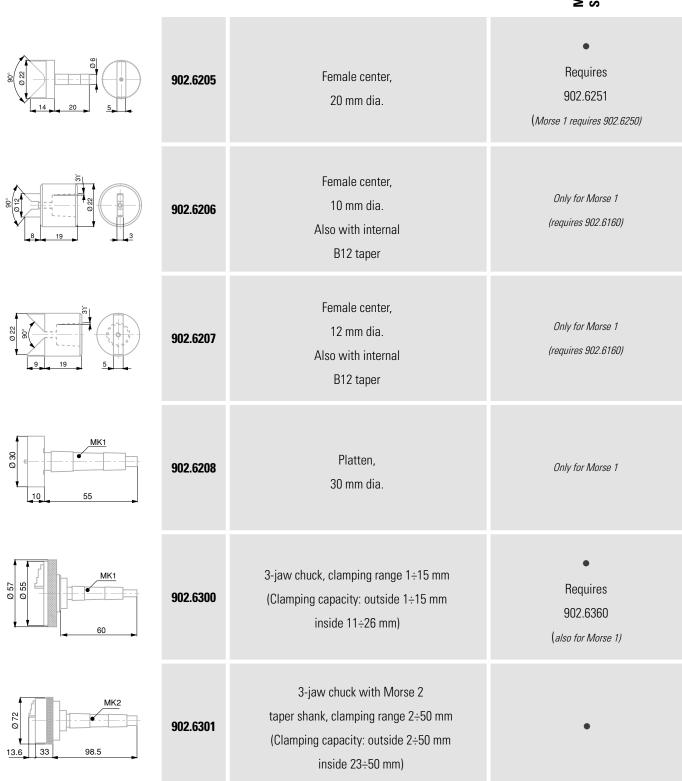




SYLVAC-SCAN

ACCESSORIES

Morse 2 SCAN 52 / F60



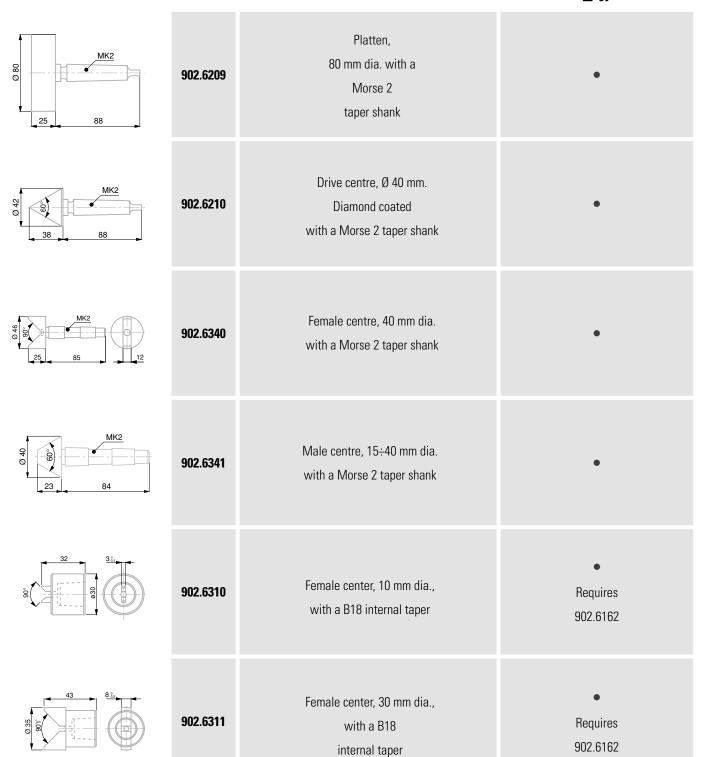
272



SYLVAC-SCAN

ACCESSORIES

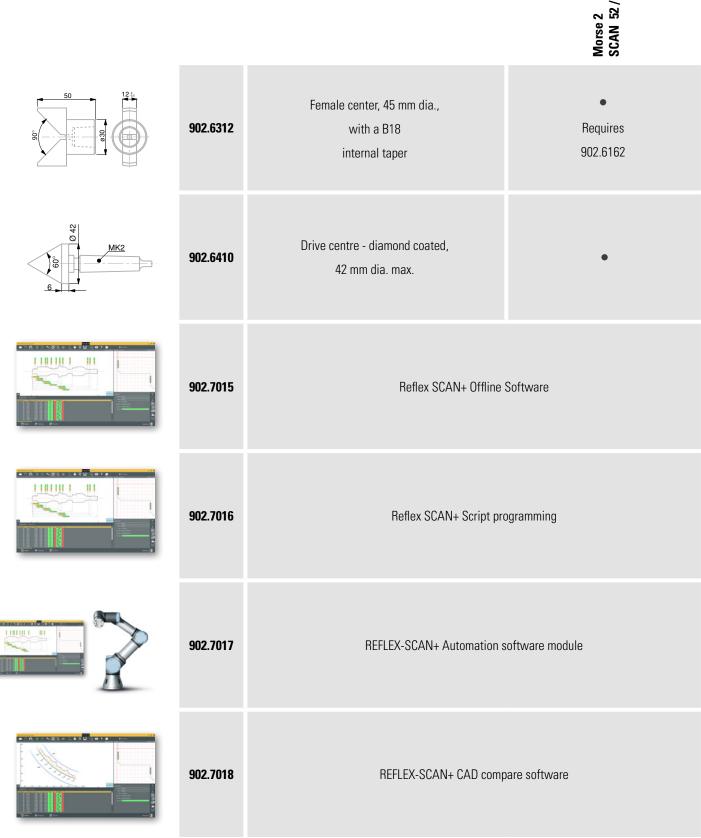
Morse 2 SCAN 52 / F6





SYLVAC-SCAN

ACCESSORIES





SYLVAC-SCAN

ACCESSORIES

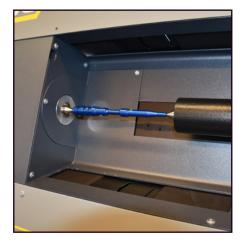
		SCAN 52	SCAN F60
902.6012	Gold demo part	•	•
902.6013	Gold demo part for threads	•	•
902.6600	Table for Sylvac SCAN F60 (85x85x70mm)		•
902.6601	Furniture for Sylvac SCAN F60 storage for PC, drawer with lock and arm for keyboard and screen.		•
902.6605	Height-adjustable table (71-1140mm) for key- board, screen and mouse (80x60)		•
902.6607	Accessories tidy insert for drawer (combined with 902.6601)		•
902.6608	Pneumatic tailstock		•



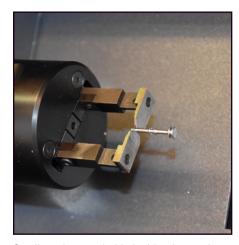
Our Sylvac Scan range can be fully automated with a robot that can load all your workpieces for you directly on the machine for measurement. Available on request.



APPLICATIONS



Measurement of a turned part with SCAN 52



Small turning part holded with 2-jaws gripper accessory on SCAN 52



Thread measurement with SCAN F60T



Part measurement with SCAN F60



Part measurement with SCAN F60L



SCAN 52 and robot : closed loop with automatic correction of the part