











Super fast

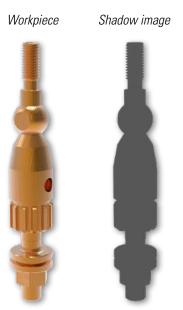


Very quick ROI

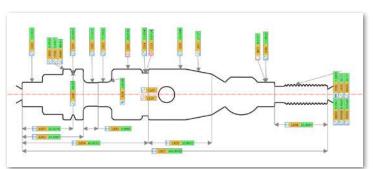
### General features

#### **APPLICATIONS**

Our range of SYLVAC machines are designed to measure round parts with diameters up to 145 mm and up to 1'280 mm long. Most cylindrical parts, such as aerospace and automotive shafts and components, connectors, dental screws and implants, hydraulics parts, metal packaging for food and cosmetics, rollers, turbines parts, CNC turned parts, etc. can be measured in a few seconds. Various thread types and features can be measured and analyzed with our machines.



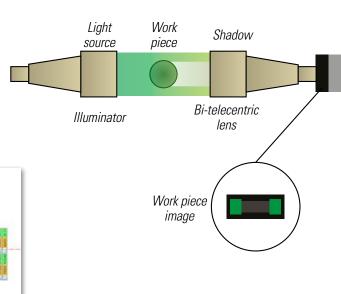
The contour of the workpiece is reproduced on the software and all the various elements shown can be measured in static (without part rotation) or in dynamic (with part rotation) when geometrical features such as run-out or concentricity must be measured.





#### **MEASURING PRINCIPLE**

All Sylvac-Scan machines incorporate high resolution line-scan cameras. Using the green LED illuminator to project a collimated beam of light across the part, the part is scanned at speeds up to 100mm/s, whilst the contour of the part is collected through the high precision bi-telecentric lens system and the projected image is detected and processed using the latest line-scan camera technology.







Reduce inspection time



Easy to use



Increase efficiency



**Reduce scrap** 



Save money



**Reduce CNC downtime** 



Increase productivity



**Quick ROI** 



Avoid QC bottle necks

# Optical machines

#### SYLVAC SCAN

Optical machine specially designed for workshop measurement close to the machine-tool.

Suitable for first-off part, control in process (SPC), sampling or 100% inspection, our Sylvac SCAN machines are set to revolutionize the control in workshop.

#### **SHOP HARDENED**

Sylvac SCAN machines are Swiss made, quality, robust, precision measuring machines designed to work in even the harshest workshop environments. Our machines come with built in calibration masters which are used to keep the machines accuracy and performance within the required specification, compensating for temperature variations.

The S25/F60/S145 ranges, comes with the added value of temperature sensors, used to detect temperature variation and trigger an automatic calibration, which only takes a short moment. Ensuring the highest precision at all times.







Optical **machines** Page **5** 



**CALIBRATION MASTER** 







**ONE** CLICK

**MEASUREMENT** 

#### **REFLEX-CLICK:**

THE MEASURING SYSTEM THAT MAKES EVERYONE AN EXPERT!

Page 6 Optical machines

# Operating principle

#### SYLVAC-REFLEX SCAN

The SYLVAC-SCAN's are equipped with Reflex SCAN software. These make them robust and easy to use, allowing perfect integration in workshops. Adjacent to operators, it advantageously replaces conventional measuring systems including multi-gauging thanks to unsurpassed flexibility and time saving.



# START START START Manager Insu Mr 61 Singer Insu

# «Reflex-Click technology» for one-click measurement!

The cutting edge REFLEX-Click mode measures your parts with a simple click.

#### PROGRAMMING MADE EASY

Place part





Push the start button

Part profile is scanned in just a few seconds





Main features automatically measured. Edit and save program for repeat work.

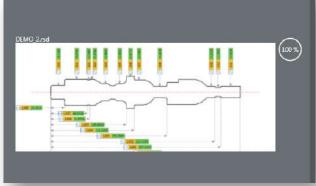
These four operations only take a few minutes.

#### **MEASUREMENT MADE EASY**

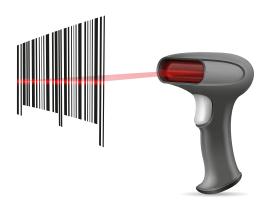
Step 1: load the part, Step 2: push the button!

The part will be automatically recognised and measured by the machine, displaying classified results in just a few seconds.





Intelligent automatic part recognizion



#### **BARCODE READER**

Optionally a barcode reader can be used to instantly recall part programs.

#### **FLEXIBLE REPORT EDITOR**

A flexible report editor is also available, enabling you to customize the presentation of your measuring reports by adding information through a drag & drop method.



# The state of the s

#### **MEASUREMENT ANALYSIS**

Once the part is scanned and measured, it is possible to review the scanned data in the measurement analysis window. Allowing the operator to make a visual check of the part in precise detail, whether it is a root radius on a thread or a form measurement of a diameter.

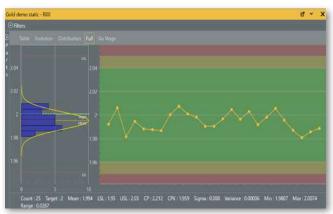
#### **DATA EXPORT AND STATISTICS**

The main statistical calculations are included as a standard feature in our RS+ software, along with a statistical view.

Results data can be exported in a variety of formats such as CSV, XML for the purpose of archiving and traceability. Or can be exported as specific formats directly into 3rd party SPC software.

Optionally you can take advantage of the Data Monitoring included with RS+ 'PRO' level software, facilitating live and historical result trends, evolution and distribution charts, statistics such as, CP/CPK, sigma, range and variance.





#### INTEGRATED MEASUREMENT

For additional measurements not covered by our SCAN machine, such as an internal diameter, Sylvac can provide a selection of instrument, such as calipers, indicators and internal micrometers.

These Sylvac instruments can be linked to the SCAN machine via our renowned *Bluetooth®* technology, providing a complete part measurement all in one report and sequence.







# Exclusive Tilt system

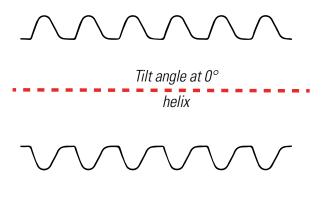
# FOR MORE COMPREHENSIVE THREAD MEASUREMENTS

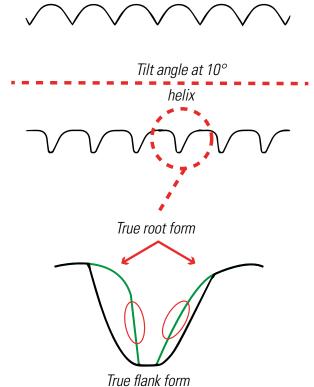
The Sylvac-Scan machines equipped with the additional tilt 'T' axis (S25T/F60T/F60LT) offer the ultimate measurement solution for threaded parts.

Thanks to our unique tilting optics, the thread can be scanned according to the helix angle, revealing elements of the thread which would otherwise be hidden. Sylvac-Scan offers true thread measurement.



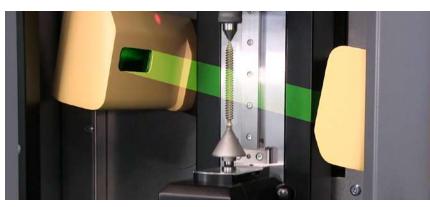






TYPICAL MEASUREMENT REQUIREMENTS:

- Major diameter
- Minor diameter
- Pitch
- Pitch diameter
- Flank angles
- Root & Crest radius
- Taper angle
- Circularity
- •
  <sup>Ø</sup> ○Run-out
- Concentricity



Axis inclinaison on F60T

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# Software features



# CAD Software CAD import/export

Advanced thread measurement

Advanced dust filtering





Access management- security level Customisable operator interface

Formula wizard

Script function

BT Connectivity to Sylvac instruments





Easy to read results

Data export Statistic view

Reports editor

Off-line programming
Automatic part/program recognition





Easy to use

Automatic measurement of the main features

One-click measurement

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# Sylvac SCAN S25 & S25T

- Bench top machine for smaller parts
- Integrated operator touch screen control panel
- Integrated calibration master & temperature sensors for environmental control
- Quick and easy accessory changing system
- High definition optics suited to micro parts
- Reflex click technology
- Tilt axis for advanced thread measurement
- Advanced software features
- Fully equipped «Automation Ready»
- Motorised tailstock
- High resolution sensor for intricate features



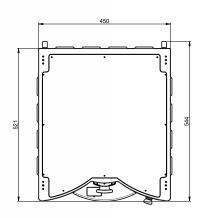
#### **TECHNICAL SPECIFICATIONS**

		902.4020 - SCAN S25		902.4025 - SCAN S25T		
		Diameter	Length	Diameter	Length	
Measuring range	mm	26	200	26	200	
Resolution	mm	0.0001				
Accuracy	μm	Diameter: (0.9 + D/100) / Length: (2.5 + L/200)				
Repeatability 2 <b>5</b>	μm	Diameter : 0.5 / Length : 0.8				
Holding capacity	mm	51	200	51 200		
Tilting for thread measur	rement		-	<b>~</b> :	30°	
Axial move speed up to	mm/s		10	00		
Max. part weight	kg	3				
Machine weight	kg	73				





- 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



# Sylvac SCAN 52 Reflex-click



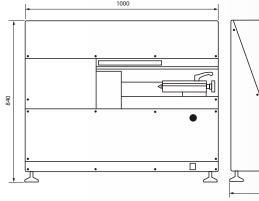
- Mid size machine for general turned parts
- Landscape design
- Integrated calibration master
- Easy to use
- Reflex click technology
- Robust construction with granite column
- Reporting and exporting capabilities



#### **TECHNICAL SPECIFICATIONS**

		902.5520 - SCAN 52		902.5521 - SCAN 52 R		
		Diameter	Length	Diameter	Length	
Measuring range r	nm	0.5 ÷ 52	300	0.5 ÷ 52	300	
Resolution r	mm	Diameter : 0.0001 / Length : 0.0005				
Accuracy	μm	Diameter : (1.5 + D/100) / Length : (4 + L/100)				
Repeatability 2 <b>δ</b>	μm		Diameter : 0.6	/ Length : 2.5		
Rotary headstock		- •				
Max. part weight	kg	4				
Machine weight	kg	103				





# 435

- 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

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Sylvac SCAN F60(T) & F60L(T)

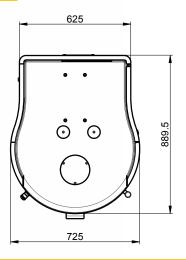
- Capable mid size machine for general and complex parts
- Single pass rapid scan 100mm/s
- Quick release tooling
- Large LED status light
- Safety light curtain
- Integrated calibration master & temperature sensors for environmental control
- Reflex click technology
- Tilt axis for advanced thread measurement
- Advanced software features
- Optional custom scripts
- Dust filtering for part contamination



#### **TECHNICAL SPECIFICATIONS**

		902.4060 -	SCAN F60	902.4065 -	SCAN F60T	902.4062 - 3	SCAN F60L	902.4067 - S	CAN F60LT
		Diameter	Length	Diameter	Length	Diameter	Length	Diameter	Length
Measuring range	mm	64	300	64	300	64	500	64	500
Resolution	mm		0.0001						
Accuracy	μm		Diameter : (1.0 + D/100) / Length : (3 + L/200)						
Repeatability 2 <b>o</b>	μm		Diameter : 0.5 / Length : 1.8						
Holding capacity	mm	120	315	120	315	120	500	120	500
Tilting for thread measur	ement		- ✓ 30°		-	- <b>√</b> 30°		30°	
Axial move speed up to	mm/s		100						
Max. part weight	kg	10							
Machine weight	kg		265 330						

- 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 S145 & S145L

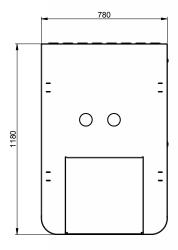


- Free standing machine for larger parts with heavy weight loads
- Automation ready
- Removable roof for heavy part loading
- Motorised tailstock
- Quick release tooling
- LED status light
- Safety light curtain
- Integrated calibration master & temperature sensors for environmental control
- Reflex click technology
- Advanced software features
- Optional custom scripts



#### **TECHNICAL SPECIFICATIONS**

		902.4145 -	SCAN S145	902.4147 - SCAN S145L			
		Diameter	Length	Diameter	Length		
Measuring range	mm	145	615	145	1280		
Resolution	mm		Diameter : 0.0001 / Length : 0.0001				
Accuracy	μm		Diameter : (1.5 + D/100) / Length : (4 + L/200)				
Repeatability 2 <b>δ</b>	μm		Diameter : 0.5 / Length : 1.0				
Holding capacity	mm	254	615	254	1280		
Rotary headstock		,	,	•	,		
Axial move speed up to	mm/s		160				
Max. part weight	kg	100					
Machine weight	kg	50	30	65	50		



- Instrument according to technical specifications
- 2 Adaptors for Morse 2 (902-6260), rotative centre 42mm (902-6380) et drive centre (902-6210)
- Computer with screen, keyboard and mouse
- Machine stand, with screen & keyboard holder
- Windows multilingual operating system
- Sylvac Reflex SCAN+ Software
- Manual

# Specifications of the softwares

FUNCTIONS	Sylvac Reflex SCAN	Sylvac Reflex SCAN+	Sylvac Reflex SCAN+ PRO
Automatic measurement of the main features (diameters, lenghts, angles, radius)	•	•	•
Automatic parts / program recognition	<b>✓</b>	•	•
Reports editor	•	•	<b>✓</b>
Data export	•	<b>✓</b>	<b>✓</b>
SPC basic calculation	<b>✓</b>	<b>✓</b>	<b>✓</b>
Access management - security level	1	Multiple	Multiple
Off-line programming		Optional	Optional
Advanced dust filtering		<b>✓</b>	•
Statistic view		<b>✓</b>	<b>✓</b>
CAD Import / Export / Compare			<b>✓</b>
Script function			<b>✓</b>
Monitoring SPC module			<b>~</b>
Thread wizard for custom threads			•

GEOMETRICAL TOLERANCING - FEATURES SUMMARY	Sylvac Reflex SCAN	Sylvac Reflex SCAN+	Sylvac Reflex SCAN+ PRO
Diameters	<b>✓</b>	•	•
Lenghts, heights, distances	<b>✓</b>	<b>~</b>	<b>✓</b>
Angles, chamfers	<b>✓</b>	•	•
Radii	<b>✓</b>	•	•
Roundness	<b>✓</b>	·	<b>→</b>
Cylindricity	<b>✓</b>	<b>✓</b>	<b>✓</b>
Across flats	<b>✓</b>	<b>✓</b>	•
Rotational diameters	Basic	·	<b>✓</b>
Run out	Basic	·	•
Concentricity	Basic	·	<b>✓</b>
Threads (parallel)	<b>✓</b>	·	<b>→</b>
Threads taper		<b>✓</b>	<b>✓</b>
Advanced threads (root detail, taper, multis-		·	•
tarts, worm screws,)		Tilt machines only	Tilt machines only
Custom threads (bone-screws, dental im-			
plants, etc.)			•
Perpendicularity		•	•
Form deviation		~	•
Straightness		•	•
Interrupted parts (splines, turbines)		·	•

### Investment

#### SYLVAC SCAN MACHINES QUICK ROI

Because the return on investment is essential data to make sensible decisions, SYLVAC can help you calculate your estimated payback time. It will directly depend on the profile of your company and the expected use of the machine.

You can see for yourself that your return on investment will be less than than 6 months in most cases. Moreover, the quality of your measurements will be improved!



#### TRADITIONAL MANUAL METHODS USING MULTIPLE GAUGES:



10-30 min
INSPECTION TIME

#### **SYLVAC-SCAN SERIES:**





30-60 SEC INSPECTION TIME Page **18** 🚺 Optical machines

### Tailor-made solutions

#### **CLAMPING SOLUTIONS**

Apart from our standard range of fixtures, customised solutions can be developed to optimise your measuring process.

#### **SOFTWARE**

Thanks to the Reflex SCAN+ and its flexible open script option, custom software features and macros can be created.



Example of SCAN S25T with robot





HAS NEVER BEEN SO EASY!

- Quality control for your shafts just got easier!
- The Sylvac-Scan range of optical measuring centres, now available fully automated
- Rapid automatic part loading/unloading by a robot, classification feedback for specified drop location
- Machine tool feedback for part correction / offsets

# **Applications**



We can measure all your components with our optical machines dedicated to the industry.



**PACKAGING** 



**COSMETICS** 



**PLUMBING** 



**PLASTICS** 



**HYDRAULIC** 



**PNEUMATIC** 



**CONNECTORS** 



**AUTOMOTIVE** 



**AEROSPACE** 













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# Accessories

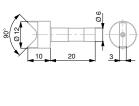
#### **CENTRES AND DRIVE CENTRES**

			S25T	Morse 2 52/F60	S145
1007 B 8	902-6000	Male centre 10 mm MK1	• Requires 902-6360	• Requires 902-6360	• Requires 902-6360
3° MK1	902-6160	Rotation centre with a B12 male taper plus a Morse 1 taper shank	• Requires 902-6360	• Requires 902-6360	• Requires 902-6360
80 9 MK2	902-6161	Rotation centre, Morse 2	•	•	•
3° MK2	902-6162	Rotation centre with a B18 male taper plus a Morse 2 taper shank	•	•	•
MK1	902-6163	Rotation centre, Morse 1	• Requires 902-6360	• Requires 902-6360	• Requires 902-6360
MK2  R  C  C  C  C  C  C  C  C  C  C  C  C	902-6202	Male centre 17.78 mm, extra (Standard delivery with Sylvac-SCAN S25, F60 and S145)	•	•	•
53.5	902-6203	Drive centre (Diamond coated 10mm)	• Requires 902-6360	• Requires 902-6360	• Requires 902-6360
MK2 9 38 88	902-6210	Drive centre, Ø 42 mm plus a Morse 2 taper shank Diamond coated	•	•	•

CENTRES AND D
IMAGE SOON AVAILABLE
MK2 821.6
94 MK2
17.780 MK2
6 MK2
11.39
15.39

RIVE CENTR	IVE CENTRES		Morse 2 52/F60	S145
902-6211	Non diamond coated Drive centre Ø 42mm	•	•	•
902-6212	Centre MK2 diamond coated, Ø 17mm	•	•	•
902-6341	Male centre, Ø 15÷40 mm, plus a Morse 2 taper shank	•	•	•
902-6380	Rotation centre Ø 42mm MK2	•	•	•
902-6410	Drive centre - diamond coated with reference diameter. Ø 42 mm max	•	•	•
902-6420	Small male centre	• Requires 902-6251		
902-6421	Small male rotating centre	• Requires 902-6251		

#### **INVERTED V-CENTRES**

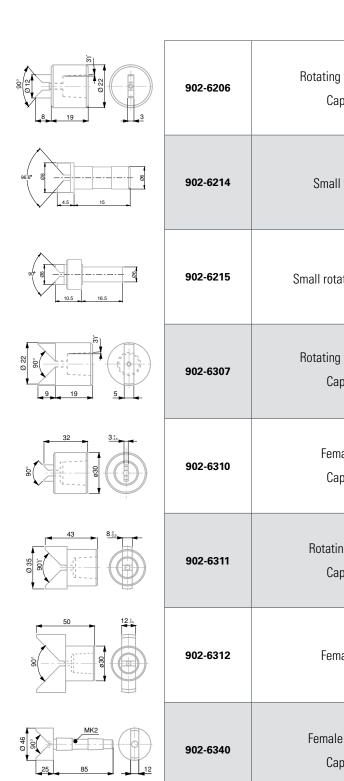


9000		90
14	20	5

902-6204	Female centre Ø10mm Capacity Ø3 - 10mm	• Requires 902-6251	• Requires 902-6251	• Requires 902-6251
902-6205	Female centre Ø20mm Capacity Ø5 - 20mm	• Requires 902-6251	• Requires 902-6251	• Requires 902-6251

# Accessories

#### **INVERTED V-CENTRES**



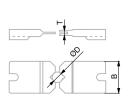
		S25T	Morse 2 52/F60	S145
902-6206	Rotating female centre Ø10mm Capacity Ø3 - 10mm	Requires 902-6360 902-6160	Requires 902-6360 902-6160	Requires 902-6360 902-6160
902-6214	Small female centre 5mm	• Requires 902-6251	• Requires 902-6251	
902-6215	Small rotating female centre 5mm	• Requires 902-6251	• Requires 902-6251	
902-6307	Rotating female centre Ø20mm Capacity Ø5 - 20mm	Requires 902-6360 902-6160	Requires 902-6360 902-6160	Requires 902-6360 902-6160
902-6310	Female centre Ø10mm Capacity Ø3 - 10mm	• Requires 902-6162	• Requires 902-6162	• Requires 902-6162
902-6311	Rotating female centre Ø30 Capacity Ø5 - 30mm	Requires 902-6162	• Requires 902-6162	• Requires 902-6162
902-6312	Female centre Ø45mm	Requires 902-6162	• Requires 902-6162	• Requires 902-6162
902-6340	Female centre Ø40mm MK2 Capacité Ø5 - 40mm	•	•	•

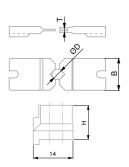
MANUAL CHUCKS		S25T	Morse 2 52/F60	S145	
44 55	902-6220	External 2-jaw gripper MK1	• Requires 902-6360	Requires 902-6360	
601	902-6270	2-jaw gripper Ø 1-19.5mm MK2 (delivered without jaws)	•	•	
	902-6271	External jaws Ø1-19.5mm, H=4mm for gripper 902-6270	•	•	
	902-6272*	External jaws Ø 2-5mm, H=2mm (for gripper 902-6270)	• Requires 902-6270	•	
	902-6273*	External jaws Ø 5-10mm, H=3mm (for gripper 902-6270)	• Requires 902-6270	•	
IMAGE SOON AVAILABLE	902-6274*	External jaws Ø 1-19.5, H=8mm (for gripper 902-6270)	• Requires 902-6270		
IMAGE SOON AVAILABLE	902-6275*	External jaws Ø 1-19.5mm, H=14mm (for gripper 902-6270)	• Requires 902-6270		
IMAGE SOON AVAILABLE	902-6276*	Jaw raiser, H=10mm (for gripper 902-6270)	• Requires 902-6270		
5F86	902-6280*	Micro pincer Ø 0.1 - 1.00mm (10 - 75g clamping force)	•		
59.95	902-6281*	Micro pincer Ø 0.5 - 2.50mm (50 - 250g clamping force)	•		
81,50 25 13	902-6306	3-jaw chuck MK2 External clamping Ø 0.5mm - 41mm Internal clamping Ø 12mm - 36mm Step Height : 5mm	•	•	•
81,50 45,50 24	902-6307	3-jaw chuck MK2 External clamping Ø 1mm - 71mm Internal clamping Ø 18mm - 66mm Step Height : 10mm		•	•
	902-6308	3-jaw chuck ISO40 External clamping Ø 1mm - 150mm Internal clamping Ø 34mm - 174mm Step Height : 10mm			•

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# Accessories

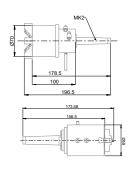
#### **MANUAL CHUCKS**





		S25T	Morse 2 52/F60	S145
<b>902-6140</b> 6÷12mm / T=15mm				
<b>902-6141</b> 0÷6mm / T=1.5mm				
<b>902-6142</b> 0÷6mm / T=3mm		•	•	
<b>902-6143</b> 6÷12mm / T=15mm	External jawe	For	For	
902-6144	External jaws, in pairs	902.6220	902.6220	•
12÷18mm / T=6mm		(also for	(also for	
<b>902-6145</b> 18÷24mm / T=9mm		Morse 1)	Morse 1)	
<b>902-6152</b> 0÷6mm / T=6mm				
<b>902-6153</b> 0÷6mm / T=15mm				
	External jaws, in pairs 902.6141: Jaws dia 0-6mm, T1=1.5mm, B=18mm	•	•	•
902-6154	902.6141 : Jaws dia 0-61mi, 11=1.31mi, 5=18mm 902.6142 : Jaws dia 0-6mm, T1=1.3mm, B=18mm 902.6143 : Jaws dia 6-12mm, T1=3mm, B=18mm	(Morse 1 requires	(Morse 1 requires	Requires
Set with 5 articles	902.6144 : Jaws dia 12-18mm, T1=6mm, B=20mm 902.6145 : Jaws dia 18-24mm, T1=9mm, B=25mm	902.6220)	902.6220)	902.6260
	Raising blocks	•	•	•
902-6231	for external jaws,	(Morse 1 requires	(Morse 1 requires	Requires
H=22	in pairs	902.6220)	902.6220)	902.6260

#### **PNEUMATIC CHUCKS**

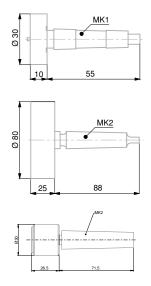






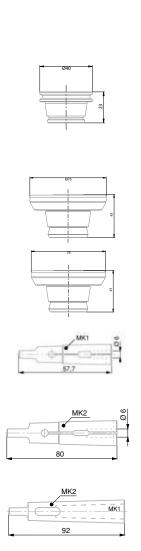
		S25T	Morse 2 52/F60	S145
902-6309	3-jaw pneumatic chuck MK2 1mm - 60mm		•	
902-6316*	Small 3-jaw pneumatic chuck 0.5mm - 41mm	•		
902-6318*	Large 3-jaw pneumatic chuck 1mm - 150mm			•
902-6221	2-jaw pneumatic chuck MK1		• Requires 902-6360	

#### **PLATES**



902-6208	Plate, Ø 30 mm MK1	• Requires 902-6360	• Requires 902-6360	• Requires 902-6360
902-6209	Plate, Ø 80 mm MK2		•	•
902-6228	Magnetic clamping plate Ø0-24 mm MK2	•	•	•

#### **ADAPTERS**



		S25T	Morse 2 52/F60	S145
902-6258	Adapter MK1 for SCAN S25	•		
902-6259	Adapter MK2 for SCAN S25	•		
902-6260	Adapter MK2 for SCAN S145			•
902-6263	Adapter MK3 for SCAN S145			•
902-6250	Adapter with bore Ø 6 mm MK1	• Requires 902-6360	• Requires 902-6360	Requires 902-6360
902-6251	Adapter with bore Ø 6 mm MK2	•	•	•
902-6360	Reduction sleeve DIN 2185 MK A/I 2:1	•	•	•



#### **SOFTWARE OPTIONS**









		52	F60	S145	S25
***	Reflex SCAN Standard (delivered with 902-5520 & 902-5521)	•			
***	Reflex SCAN+ Standard (delivered with 902-4060, 902-4062, 902-4065, 902-4067, 902-4020 & 902-4025)		•	•	•
902-7015	Reflex SCAN+ Offline Software		•	•	•
902-7017	Reflex-SCAN+ Automation software module (Option, require Reflex SCAN+, standard delive- ry with S145 and S25)		•	•	•
902-7021	Reflex-Scan+ «PRO» including, advanced thread wizard, CAD compare, Monitoring SPC, scripting		•	•	•
902-7022	Reflex-SCAN+ PRO Offline		•	•	•

#### **OTHERS ACCESSORIES**

















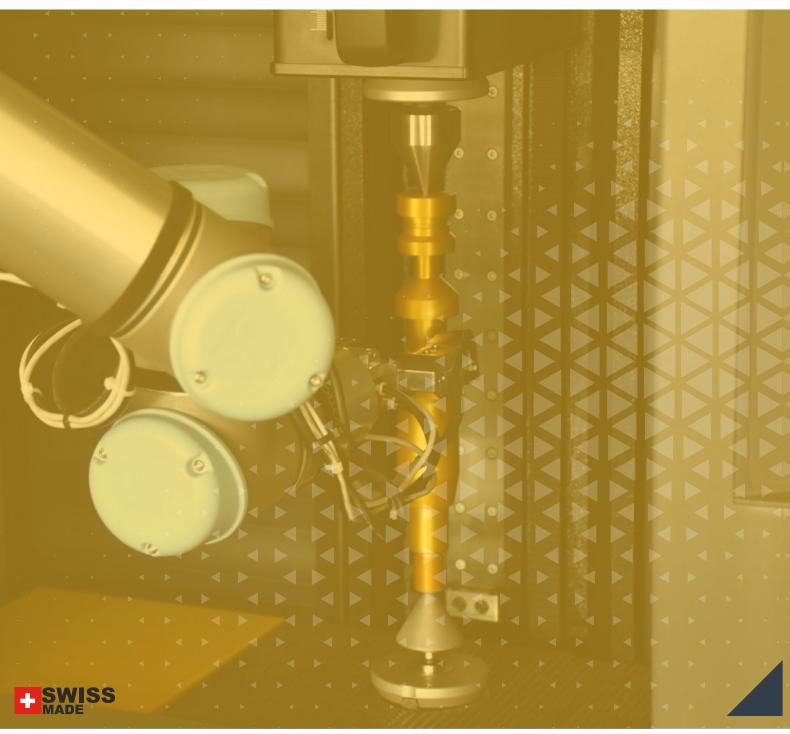




		52	F60	S145	S25
902-6012	Gold demo part	•	•	•	•
902-6013	Gold demo part for threads	•	•	•	•
902-6014	Gold demo part XL			•	
902-6600	Table for Sylvac SCAN F60 (85x85x70cm)		•		•
902-6601	Furniture for Sylvac SCAN F60 storage for PC, drawer with lock and arm for keyboard and screen		•		
902-6602	Table for Sylvac-Scan S25T (75cmx75cm) selectable height 75cm or 105cm				•
902-6605	Height-adjustable table (71-1140mm) for keyboard, screen and mouse (80x60mm)		•		•
902-6607	Accessories tidy insert for drawer (included with 902-6601)		•		
902-6006	Plastiform case for SCAN and VISIO	•	•	•	•
902-6609	Rack	•	•	•	•
902-6611	Table 700mm			•	
902-6608	Automation preparation for F60 series (I/O & Pneumatic prep, includes 902-7017		•		
902-6610	Pneumatic actuation of tailstock for F60 series		•		
602-104-01	Protective cover				•







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