



sylvac

English

ReflexScan+

Thread



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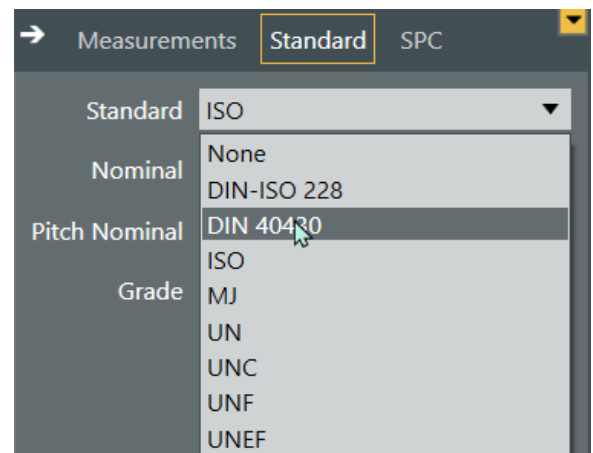
I. GENERAL INFORMATION

This document offers an overview of the list of threads available for ReflexScan version 4.6 and above on a SCAN machine without tilting system (F60, F60L, S145, S145L), a SCAN machine with tilting system (F60T, F60LT, S25T) and according to the license option: STANDARD/PRO

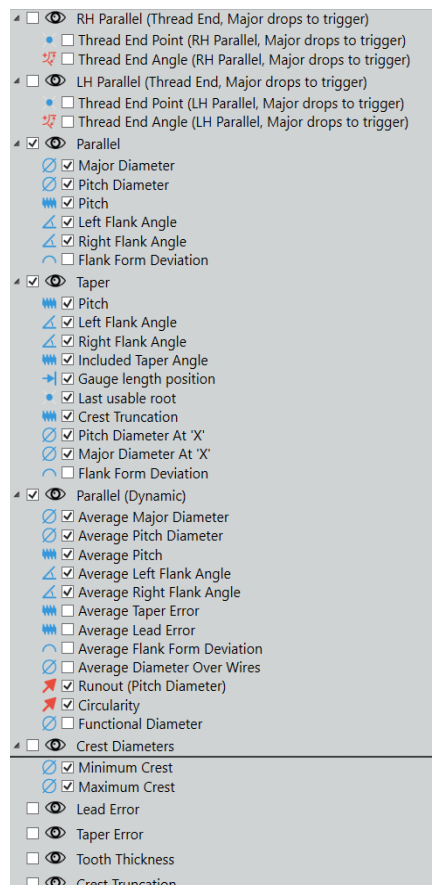
II. MACHINES WITHOUT TILTING SYSTEM

1. STANDARD option

- Parallel threads (static or dynamic), conical threads (static)
- Example of the standards available for parallel threads:

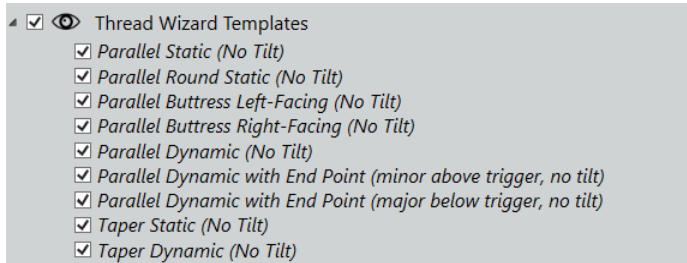


- List of available measurements on threads (all options displayed, not only the marked ones)

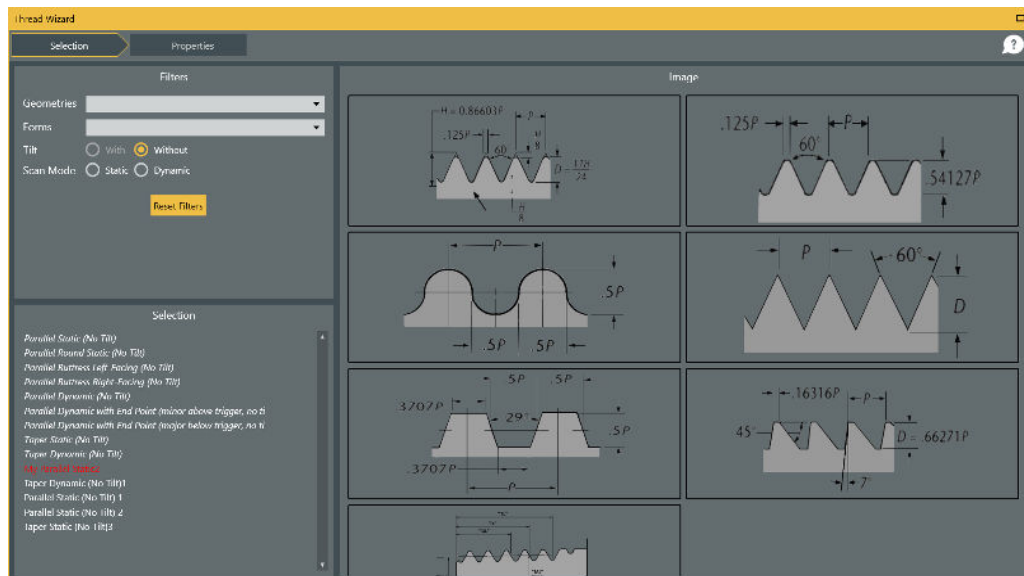


2. PRO option

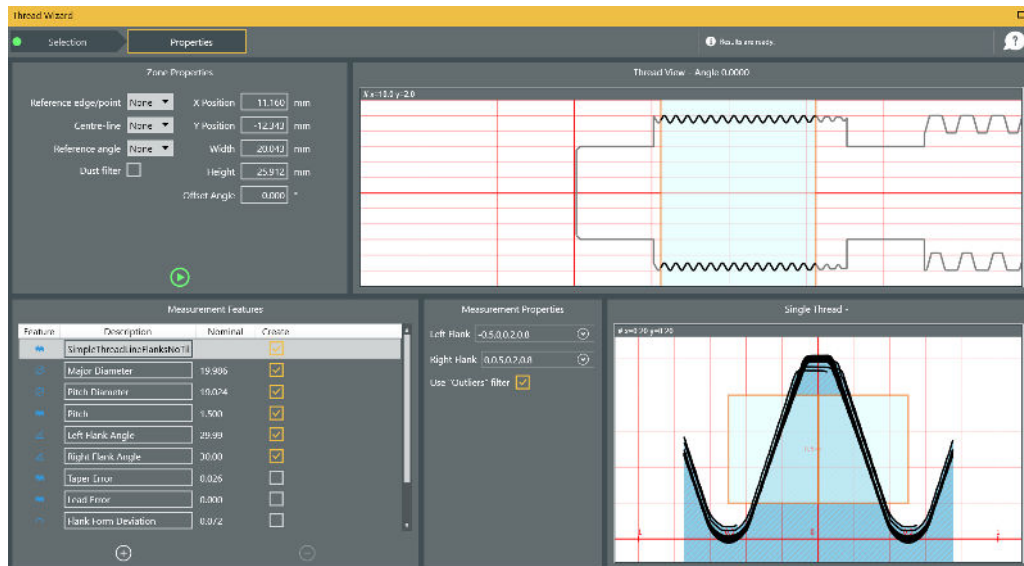
- a. Includes all the threads of the STANDARD option, plus some special threads : round thread, saw tooth. Also includes additional measurements for each thread.



- b. Thread wizard to create custom threads
- i. Thread type selection window












- ii. Measurements selection window and customisation of flank or radius areas, etc.


















c. Example of available measurements for dynamic parallel threads :

i. Basic measurements

	Major Diameter	19.986	<input checked="" type="checkbox"/>
	Pitch Diameter	19.024	<input checked="" type="checkbox"/>
	Pitch	1.500	<input checked="" type="checkbox"/>
	Left Flank Angle	29.99	<input checked="" type="checkbox"/>
	Right Flank Angle	30.00	<input checked="" type="checkbox"/>
	Taper Error	0.026	<input type="checkbox"/>
	Lead Error	0.000	<input type="checkbox"/>
	Flank Form Deviation	0.072	<input type="checkbox"/>
	Diameter over wires	17.725	<input type="checkbox"/>

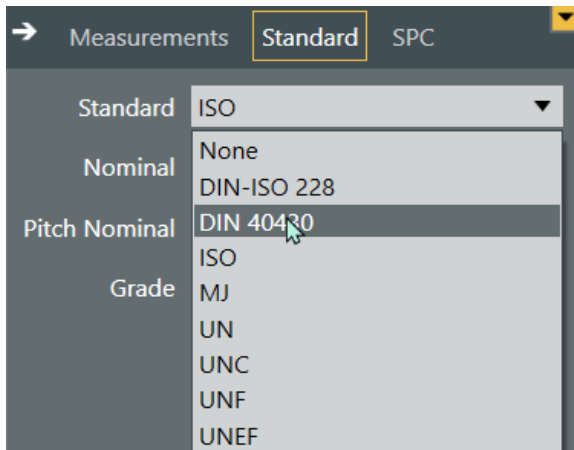
ii. Special measurements

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Addendum
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Crest Truncation
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Included Taper Angle
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		LANG_FEAT_THREAD_CENTRE_LINE
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		LANG_FEAT_THREAD_CENTRE_LINE_MAJOR
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Tooth Thickness
<input type="text" value="0"/>	<input type="checkbox"/>	<input type="checkbox"/>		Diameter over wires
<input type="text" value="0"/>	<input type="checkbox"/>	<input type="checkbox"/>		Gauge length position
<input type="text" value="0"/>	<input type="checkbox"/>	<input type="checkbox"/>		LANG_FEAT_THREAD_CENTRE_LINE_MAJOR_AT_X
<input type="text" value="0"/>	<input type="checkbox"/>	<input type="checkbox"/>		LANG_FEAT_THREAD_CENTRE_LINE_PITCH_DIA_AT_X
<input type="text" value="0"/>	<input type="checkbox"/>	<input type="checkbox"/>		LANG_FEAT_THREAD_PITCH_DIAMETER_AT_X
<input type="text" value="0"/>	<input type="checkbox"/>	<input type="checkbox"/>		Lead Error
<input type="text" value="0"/>	<input type="checkbox"/>	<input type="checkbox"/>		Major Diameter At 'X'
<input type="text" value="0"/>	<input type="checkbox"/>	<input type="checkbox"/>		Point over wire
<input type="text" value="0"/>	<input type="checkbox"/>	<input type="checkbox"/>		Thread Flank Line

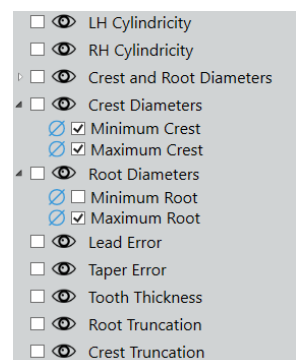
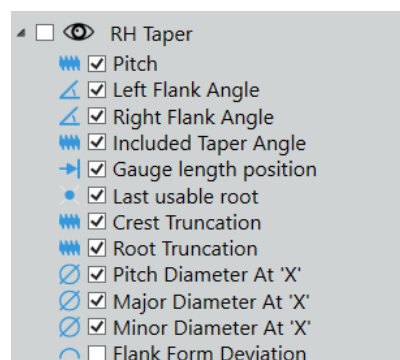
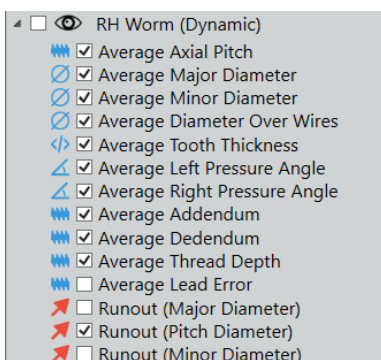
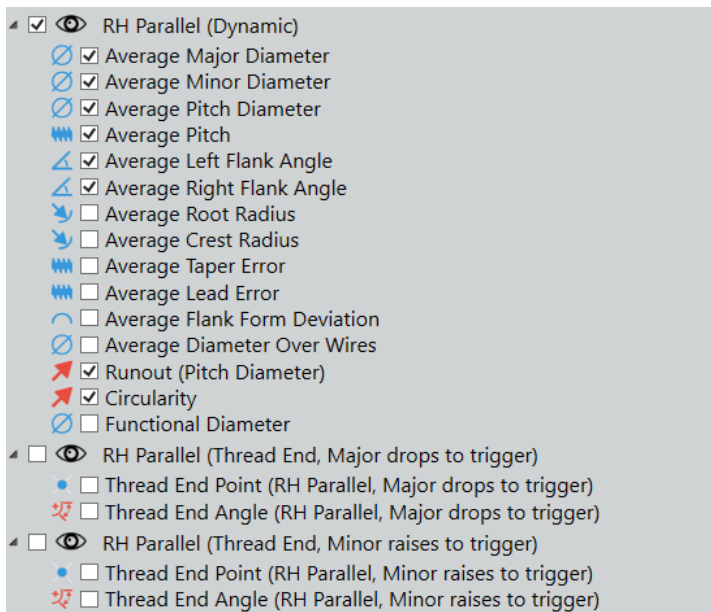
III. MACHINES WITH TILTING SYSTEM

1. STANDARD option

- Parallel threads (static or dynamic), conical threads (static), worms (dynamic)
- Right- or left-hand thread
- Properties related to the «internal» shape of the screw. Examples: root diameter, root truncation, root radius, tooth depth, etc.
- Example of the standards available for parallel threads:

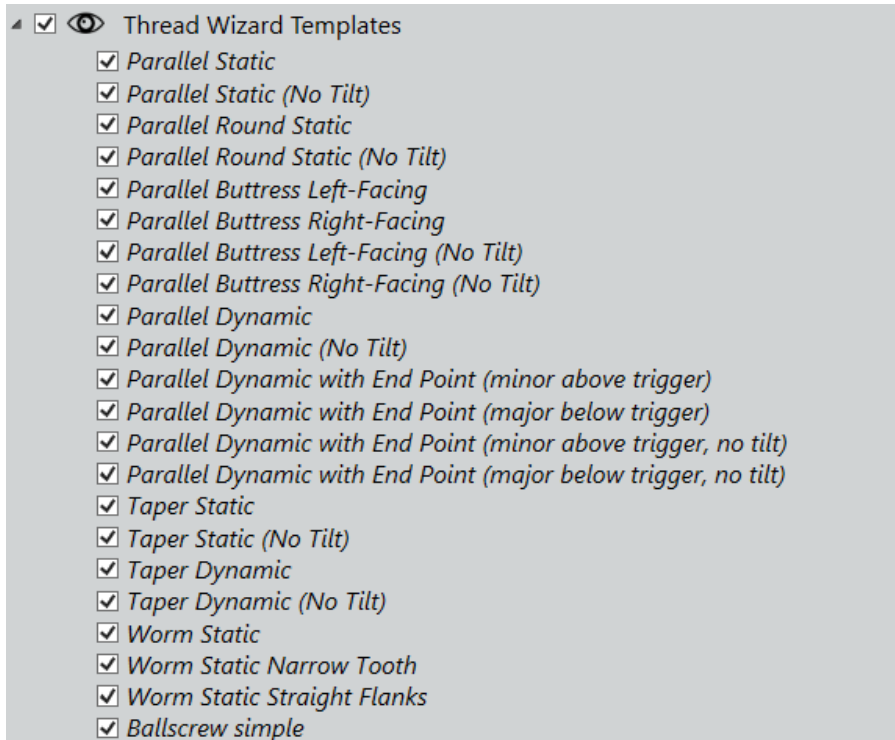


- List of available measurements on threads (e.g. right-hand thread)



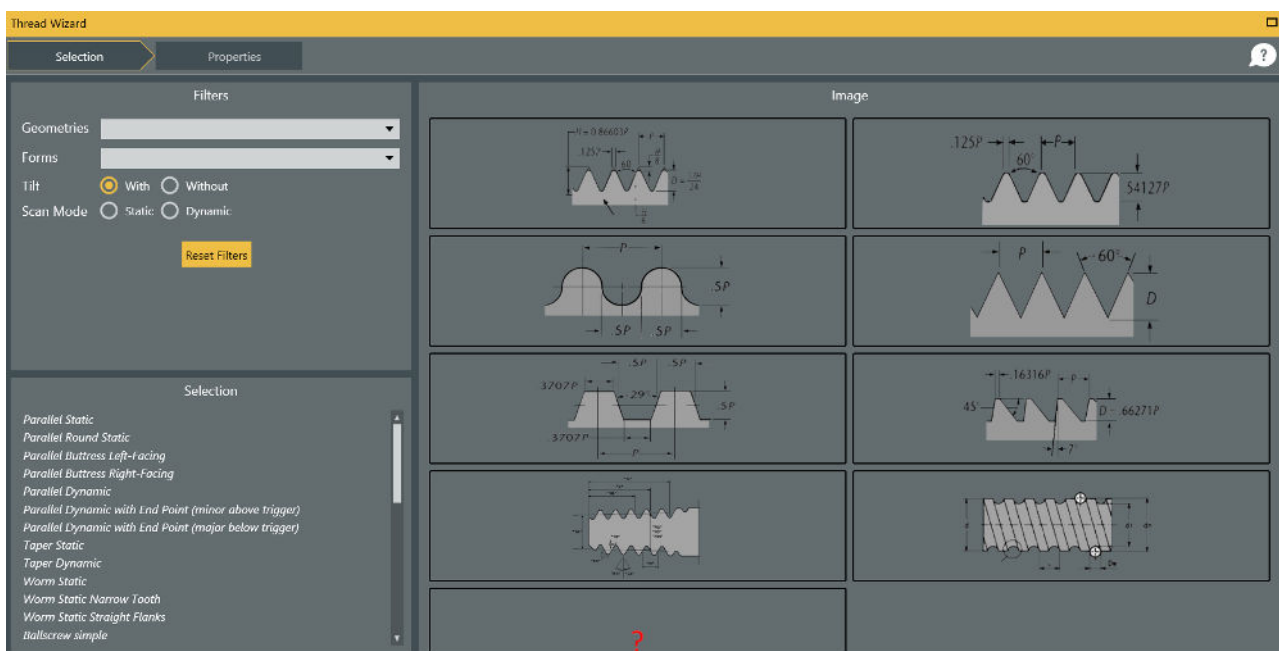
2. Option PRO

- a. Includes all threads of the STANDARD option, plus special threads: round thread, saw tooth, worm (standard, narrow tooth, steep flanks) and ball screw. Also includes additional measurements for each thread.

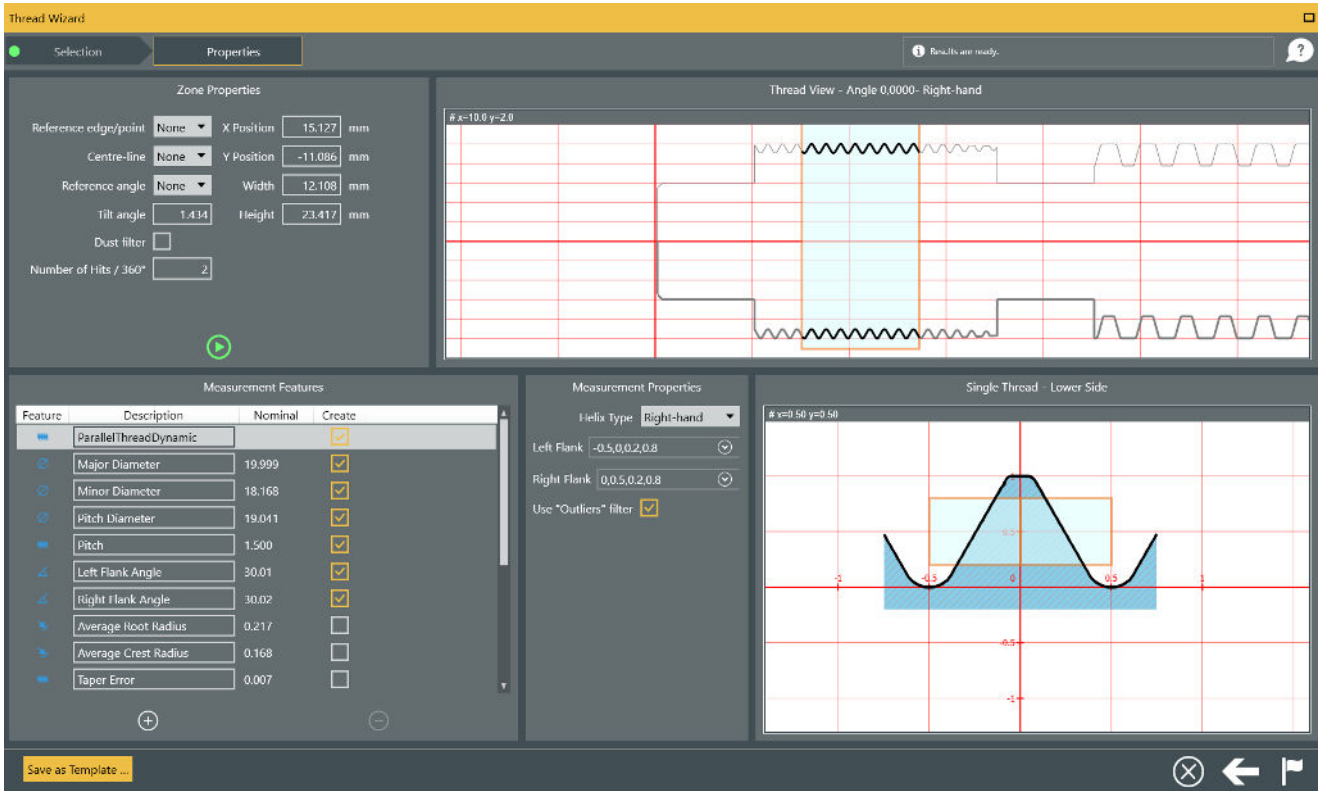


- b. Thread wizard to create custom threads

- i. Thread type selection window



ii. Measurements selection window and customisation of flank or radius areas, etc.



























c. Example of available measurements for dynamic parallel threads :

i. Basic measurements

	Major Diameter	19.999	<input checked="" type="checkbox"/>
	Minor Diameter	18.168	<input checked="" type="checkbox"/>
	Pitch Diameter	19.041	<input checked="" type="checkbox"/>
	Pitch	1.500	<input checked="" type="checkbox"/>
	Left Flank Angle	30.01	<input checked="" type="checkbox"/>
	Right Flank Angle	30.02	<input checked="" type="checkbox"/>
	Average Root Radius	0.217	<input type="checkbox"/>
	Average Crest Radius	0.168	<input type="checkbox"/>
	Taper Error	0.007	<input type="checkbox"/>
	Lead Error	0.000	<input type="checkbox"/>
	Flank Form Deviation	0.006	<input type="checkbox"/>
	Diameter over wires	17.744	<input type="checkbox"/>
	Runout (Pitch Diameter)	0.000	<input type="checkbox"/>
	Circularity	0.000	<input type="checkbox"/>
	Functional Diameter	19.041	<input type="checkbox"/>

ii. Special measurements

<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>		Addendum
<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>		Crest Truncation
<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>		Dedendum
<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>		Included Taper Angle
<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>		LANG_FEAT_THREAD_CENTRE_LINE
<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>		LANG_FEAT_THREAD_CENTRE_LINE_MAJOR
<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>		Root Truncation
<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>		Thread Depth
<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>		Tooth Thickness
<input type="text" value="0"/>	<input type="radio"/>	<input type="radio"/>		Average Crest Radius
<input type="text" value="0"/>	<input type="radio"/>	<input type="radio"/>		Average Root Radius
<input type="text" value="0"/>	<input type="radio"/>	<input type="radio"/>		Diameter over wires
<input type="text" value="0"/>	<input type="radio"/>	<input type="radio"/>		Functional Diameter
<input type="text" value="0"/>	<input type="radio"/>	<input type="radio"/>		Gauge length position
<input type="text" value="0"/>	<input type="radio"/>	<input type="radio"/>		LANG_FEAT_THREAD_CENTRE_LINE_MAJOR_AT_X
<input type="text" value="0"/>	<input type="radio"/>	<input type="radio"/>		LANG_FEAT_THREAD_CENTRE_LINE_PITCH_DIA_AT_X
<input type="text" value="0"/>	<input type="radio"/>	<input type="radio"/>		LANG_FEAT_THREAD_PITCH_DIAMETER_AT_X
<input type="text" value="0"/>	<input type="radio"/>	<input type="radio"/>		Lead Error
<input type="text" value="0"/>	<input type="radio"/>	<input type="radio"/>		Major Diameter At 'X'
<input type="text" value="0"/>	<input type="radio"/>	<input type="radio"/>		Minor Diameter At 'X'
<input type="text" value="0"/>	<input type="radio"/>	<input type="radio"/>		Point over wire
<input type="text" value="0"/>	<input type="radio"/>	<input type="radio"/>		Single Crest Radius
<input type="text" value="0"/>	<input type="radio"/>	<input type="radio"/>		Single Root Radius
<input type="text" value="0"/>	<input type="radio"/>	<input type="radio"/>		Thread Flank Line

IV. CERTIFICATES OF CONFORMITY AND CALIBRATION

1. Certificate of conformity

CERTIFICATE OF CONFORMITY

Sylvac certifies that this instrument has been manufactured in accordance with our Quality Standard and tested with reference to masters of certified traceability by the Federal Institute of Metrology.

CERTIFICAT DE CONFORMITÉ

Sylvac certifie que cet instrument a été fabriqué et contrôlé selon ses normes de qualité et en référence avec des étalons dont la traçabilité est reconnue par l'Institut fédéral de métrologie.

QUALITÄTSZEUGNIS

Sylvac bestätigt, dass dieses Gerät gemäss seinen internen Qualitätsnormen hergestellt wurde und mittels Normalen mit anerkannter Rückverfolgbarkeit, kalibriert durch der Eidgenössischen Institut für Metrologie, geprüft worden ist.

2. Certificate of calibration

Calibration certificate

Because we make our Sylvac instruments in batches, you may find that the date on your calibration certificate is not current. Please be assured that your instruments are certified at point of production and then held in stock in our warehouse in accordance with our Quality Management System ISO 9001. Re-calibration cycle should start from date of receipt..

Certificat d'étalonnage

En raison de la fabrication de nos instruments par lots de production, il est possible que la date de votre certificat d'étalonnage ne soit pas actuelle. Nous garantissons que nos instruments sont certifiés au moment de leur fabrication puis stockés conformément à notre système de gestion de la qualité ISO 9001. Le cycle de réétalonnage peut commencer à partir de la date de réception.

Zertifikat

Da wir unsere Instrumente in Serien herstellen, kann es sein, dass das Datum auf dem Zertifikat nicht aktuell ist. Die Instrumente sind jedoch ab der Herstellung zertifiziert und werden dann gemäß unserem Qualitätsmanagementsystem ISO 9001 in unserem Lager aufbewahrt. Der Nachkalibrierungszyklus kann ab dem Empfangsdatum beginnen..



Changes without prior notice
Sous réserve de toute modification
Änderungen vorbehalten

Edition :

2022.09/ 681-100-07-120