

MASTER THE SMALLEST AND MOST PRECISE THREADED CONNECTIONS

nano



SPEZIALWERKZEUGE NACH MASS

Manche Prozesse erfordern massgefertigte Spezialwerkzeuge. DC SWISS kann perfekt auf Ihre Anforderungen abgestimmte Gewindewerkzeuge herstellen.

Mit unserem Know-how können wir Spezialwerkzeuge herstellen, die besonders hohen Herstelleranforderungen gerecht werden.

Wir helfen Ihnen, mit den geeigneten Werkzeugen auch kühnste Vorhaben umzusetzen. Dazu bietet Ihnen DC SWISS nicht nur ihre Fachkompetenzen und langjährige Erfahrung an, sondern auch eine umfassende Werkzeugpalette und massgeschneiderte Lösungen - für jede Konfiguration, jeden Werkstoff und jede Produktionstechnik, form- und massunabhängig. Denn DC SWISS ist schon heute gut gerüstet für das, was in Zukunft immer wichtiger wird: die individuelle Fertigung.

**MEDIZINTECHNIK
MEDICAL**

**LUFT- UND RAUMFAHRT
AEROSPACE**

**SONDERLÖSUNGEN
CUSTOMISED SOLUTIONS**



SPECIAL TOOLS ON DEMAND

Some processes require special on demand tools. DC SWISS can create custom-made threading tools to meet your requirements.

With our expertise, we can create on demand tools that meet the highest market requirements.

To enable you to create the most audacious and varied assemblies that are best suited to every situation, DC SWISS offers you access to its extensive expertise. Tools are, after all, essential items. They need to adapt to every configuration, every material and all production techniques. Shapes and sizes are no longer constraining factors. DC SWISS develops tools as a matter of course, because custom-made orders are becoming increasingly commonplace.

AUTOMOTIVE
AUTOMOTIVE

UHRENINDUSTRIE
WATCHMAKING





SPEZIFIZIERUNGEN — SPECIFICATIONS

TAN



TAZ



FA



- Erstklassisches Basismaterial HSSE-PM
- Genauigkeit und Wiederholbarkeit des Werkzeuges durch Fertigung in einer einzigen Aufspannung
- Reinigen, bürsten oder polieren von 100 % der Werkzeuge
- Optimale Beschichtung, angepasst an jede Geometrie
- Top quality HSSE-PM raw material
- Accuracy and repeatability of the tool by manufacturing in a single clamping operation
- Cleaning, brushing or polishing of 100 % of the tools
- Optimal coating adapted to each geometry

TAN40



- Für Durchgangslöcher $< 2 \times D$
- For through holes $< 2 \times D$

TAN50



- Für Sacklöcher $< 2 \times D$
- For blind holes $< 2 \times D$

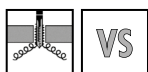
Anwendung

Für leicht zu bearbeitende Werkstoffe, Stähle, Messing, Gelbgold, Silber

Application

For easy-to-machine materials, steels, brass, yellow gold, silver

TAN40VS

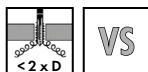


- Vielseitige "VS"-Verschleisschutzschicht für hohe Standzeiten in der Serienproduktion
- Versatile "VS" wear-protective coating for long tool life in series production

TAN50VS



TAZ40VS



- Für Durchgangslöcher $< 2 \times D$
- Mit einem langen, an die Steigung angepassten Anschnitt, für ein besseres Eindringen in das Material
- For through holes $< 2 \times D$
- With a long chamfer adapted to the pitch, for a better penetration into the material

TAZ50VS



- Für Sacklöcher $< 2 \times D$
- For blind holes $< 2 \times D$

Anwendung

Für zähe Werkstoffe wie Nickellegierungen, Titanlegierungen, legierte Edelmetalle

Application

For tough materials such as nickel alloys, titanium alloys, alloyed precious materials



- Spezifische "VS"-Beschichtung der neuesten Generation, angepasst an die Geometrie des Werkzeugs
- Specific "VS" coating of the latest generation adapted to the geometry of the tool

SPEZIFIZIERUNGEN — SPECIFICATIONS

FA80VS



- Für Durchgangs- und Sacklöcher $< 2.5 \times D$
- Mit extra-kurzem $1.5 \times P$ -Einlauf (für Gewinde bis nahe dem Bohrungsgrund)

- For through and blind holes $< 2.5 \times D$
- With extra-short chamfer $1.5 \times P$ (for threads close to the bottom of the core hole)

FA83VS



- Für Durchgangs- und Sacklöcher $< 2.5 \times D$
- Mit kurzem Anschnitt $2.5 \times P$

- For through and blind holes $< 2.5 \times D$
- With short chamfer $2.5 \times P$

Anwendung

- Für jede Art von Werkstoffen mit einer Bruchdehnung $> 5 \%$
- Polygon mit 4 Druckstollen ab $\varnothing 0.5 \text{ mm}$
- Verbesserte Ausreissfestigkeit des Gewindes

Application

- For any type of material with an elongation $> 5 \%$
- Polygon made up of 4 lobes from $\varnothing 0.5 \text{ mm}$
- Improved thread tensile strength



- Vielseitige "VS"-Verschleisschutzschicht für hohe Standzeiten in der Serienproduktion

- Versatile "VS" wear-protective coating for long tool life in series production

SPEZIFIZIERUNGEN — SPECIFICATIONS

CMS



CFA



- Hartmetallsorte angepasst für Härte und Torsionsfestigkeit
- Präzision und Wiederholgenauigkeit des Werkzeugs durch Fertigung in einer einzigen Aufspannung
- Unübertroffene Oberflächenqualität

- Hard Metal grade suitable for its hardness and torsional strength
- Precision and repeatability of the tool by manufacturing in a single clamping operation
- Unsurpassed surface quality

CMS50



- Für Durchgangs- und Sacklöcher $< 3 \times D$
- Mit revolutionärer Anschnittgeometrie für optimale Materialdurchdringung

- For through and blind holes $< 3 \times D$
- With a revolutionary chamfer geometry for optimal material penetration

CMS50VS



Anwendung

- Für spröde Werkstoffe wie Messing kurzspanend, Grauguss, Cube2, Aluminiumlegierung mit Si $> 5 \%$
- Spezifische "VS"-Beschichtung der neuesten Generation, angepasst an die Geometrie des Werkzeugs

Application

- For brittle materials like short chip brass, grey cast iron, Cube2, aluminium alloy with Si $> 5 \%$
- Specific "VS" coating of the latest generation adapted to the geometry of the tool



CFA80VS



- Für Durchgangs- und Sacklöcher $< 2.5 \times D$
- Mit extra-kurzem $1.5 \times P$ -Einlauf (für Gewinde bis nahe dem Bohrungsgrund)

- For through and blind holes $< 2.5 \times D$
- With extra-short chamfer $1.5 \times P$ (for threads close to the bottom of the core hole)

CFA83VS



- Für Durchgangs- und Sacklöcher $< 2.5 \times D$
- Mit kurzem Einlauf $2.5 \times P$

- For through and blind holes $< 2.5 \times D$
- With short chamfer $2.5 \times P$

Anwendung

- Für jede Art von Nichteisen-Metallen mit einer Bruchdehnung $> 3 \%$
- Für Werkstoffe wie Aluminium- und Kupferlegierungen, Gelb- und Rotgold, Silber, etc

Application

- For any type of non-ferrous material with an elongation $> 3 \%$
- For materials such as: aluminium and copper alloys, yellow and red gold, silver, etc



- Vielseitige "VS"-Verschleisschutzschicht für hohe Standzeiten in der Serienproduktion

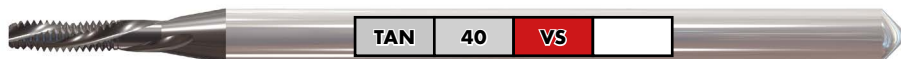
- Versatile "VS" wear-protective coating for long tool life in series production

KODIERUNG — CODIFICATION

DC -Maschinen-Gewindebohrer nano

DC Machine taps nano

Beispiel - Example



Normale Werkstoffe	Normal materials	TAN			
Zähe Werkstoffe	Tough materials	TAZ			
Messing	Brass	CMS			
Spiralnuten mit Linksdrall < 27°	< 27° left-hand spiral flutes		40		
Spiralnuten mit Rechtsdrall < 27°	< 27° right-hand spiral flutes		50		
VS-Verschleisschutzschicht, generell	VS wear-protective coating, general			VS	
Spezialausführung	Special execution				SP

Baumasse nach DC-Werksnorm

General dimensions as per DC standards

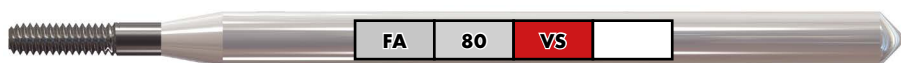
Für den Einsatz gemäss DC-Anwendungstabelle für DC-Gewindebohrer nano

For use as per DC application chart for DC taps nano

DC -Maschinen-Gewindeformer nano

DC Machine thread formers nano

Beispiel - Example



Gewindeformer nano aus PM	Thread formers nano in PM	FA			
Gewindeformer nano aus Vollhartmetall	Thread formers nano in solid carbide	CFA			
Anschnitt Form E (1.5 - 2 Gewindegänge)	Lead form E (1.5 - 2 chamfered threads)		80		
Anschnitt Form C (2 - 3 Gewindegänge)	Lead form C (2 - 3 chamfered threads)		83		
VS-Verschleisschutzschicht, generell	VS wear-protective coating, general			VS	
Spezialausführung	Special execution				SP

Baumasse nach DC-Werksnorm

General dimensions as per DC standards

Für den Einsatz gemäss DC-Anwendungstabelle für DC-Gewindeformer nano

For use as per DC application chart for DC thread formers nano

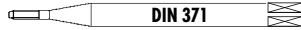
PIKTOGRAMME NANO — PICTOGRAPHS NANO



Für Werkstoffgruppen gemäss **(DC)**-Anwendungstabelle
For material groups as per **(DC)** application chart

12	
1.0037	Si37-2 (S235JR)
1.0050	Si50-2 (E295)
1.0060	Si60-2 (E335)
1.5919	15CrNi6
1.7131	16MnCr5

22	
1.4301	X5CrNi18-10
1.4406	X2CrNiMoN17-12-2
1.4435	X2CrNiMo18-14-3
1.4541	X6CrNiTi18-10
1.4571	X6CrNiMoTi17-12-2



Verstärkter Schaft gemäss DIN 371
Reinforced shank as per DIN 371



Verstärkter Schaft gemäss DC-Werksnorm
Reinforced shank as per DC standards



HSSE-PM
HSSE-PM



Vollhartmetall
Solid Carbide



Anzahl Spannuten (Z)
Number of flutes (Z)



Spiralnuten mit 20° Linksdrill
20° left-hand spiral flutes



Spiralnuten mit 25° Rechtsdrill
25° right-hand spiral flutes



Gewindeformer
Thread former



Durchgangsloch < 2 x D, langspannende Werkstoffe
Through hole < 2 x D, long chipping materials



Sackloch < 2 x D, langspannende Werkstoffe
Blind hole < 2 x D, long chipping materials



Durchgangs- und Sackloch < 2.5 x D, kurzspannende Werkstoffe
Through / blind hole < 2.5 x D, short chipping materials



Durchgangs- und Sackloch < 3 x D, kurzspannende Werkstoffe
Through / blind hole < 3 x D, short chipping materials



2 - 3 Gewindegänge, Form C
2 - 3 chamfered threads, form C



3.5 - 5 Gewindegänge, Form D
3.5 - 5 chamfered threads, form D



1.5 - 2 Gewindegänge, Form E
1.5 - 2 chamfered threads, form E



Toleranzklasse 4H
Tolerance class 4H



Toleranzklasse ISO 2 6H
Tolerance class ISO 2 6H



DC-\"VS\"-Verschleisschutzschicht für den allgemeinen Einsatz
DC \"VS\" wear-protective coating for general use



DC-\"VX\"-Verschleisschutzschicht für rostfreie Stähle und Nickellegierungen
DC \"VX\" wear-protective coating for stainless steels and nickel alloys

- Lagerartikel
Stock item
- Kurzfristig lieferbar
Available at short notice
- * Ab Lager lieferbar solange Vorrat
Available from stock, while stock lasts

GEWINDEBOHRER NANO THREAD TAPS NANO

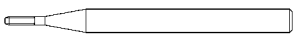
DC -Anwendungsgruppen

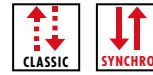
DC Material classification

Werkstoff-Gruppen Material groups		Werkstoffbezeichnung	Material designation	Härte Hardness (HB)	Festigkeit Tensile strength Rm (N/mm ²)	Dehnung Elongation A (%)
10 Stahl Steels	11	Automatenstahl	Free-cutting steels	< 200	< 700	< 10
	12	Baustahl, Einsatzstahl	Structural, cementation steels	< 200	< 700	< 30
	13	Kohlenstoffstahl	Carbon steels	< 300	< 1000	< 20
	14	Stahl legiert < 850 N/mm ²	Alloy steels < 850 N/mm ²	< 250	< 850	< 30
	15	Stahl legiert / vergütet > 850 - < 1150 N/mm ²	Alloy steels hard. / temp. > 850 - < 1150 N/mm ²	> 250	> 850	< 30
	16	Hochfester Stahl ≤ 44 HRC	High tensile alloy steels ≤ 44 HRC	> 250	> 850	< 12
	17	Stahl vergütet > 44 - ≤ 54 HRC	Alloy steels tempered > 44 - ≤ 54 HRC	> 410	> 1400	< 2
	18	Stahl gehärtet > 54 - ≤ 63 HRC	Alloy steels hardened > 54 - ≤ 63 HRC	> 560	> 1980	< 2
20 Rostfreier Stahl Stainless steels	21	Rostfreier Stahl, geschwefelt	Free machining stainless steels	< 250	< 850	< 25
	22	Austenitisch	Austenitic stainless steels	< 250	< 850	> 20
	23	Ferritisch, martensitisch < 850 N/mm ²	Ferritic and martensitic < 850 N/mm ²	< 250	< 850	> 20
	24	Ferritisch, martensitisch > 850 - < 1150 N/mm ²	Ferritic and martensitic > 850 - < 1150 N/mm ²	> 250	> 850	> 15
30 Guss Cast iron	31	Grauguss	Cast iron	< 250	< 850	< 10
	32	Kugelgraphitguss, Temperguss	Spheroidal graphite + malleable cast iron	< 250	< 850	> 10
40 Titan Titanium	41	Reintitan	Pure titanium	< 250	< 850	> 20
	42	Titanlegierung	Titanium alloys	> 250	> 850	< 20
50 Nickel Nickel	51	Nickellegierung 1 ≤ 850 N/mm ²	Nickel alloys 1 ≤ 850 N/mm ²	< 250	< 850	> 25
	52	Nickellegierung 2 > 850 - ≤ 1150 N/mm ²	Nickel alloys 2 > 850 - ≤ 1150 N/mm ²	> 250	> 850	< 25
	53	Nickellegierung 3 > 1150 - ≤ 1600 N/mm ²	Nickel alloys 3 > 1150 - ≤ 1600 N/mm ²	> 340	> 1150	< 20
60 Kupfer Copper	61	Reinkupfer (Elektrolytkupfer)	Pure copper (electrolytic copper)	< 120	< 400	> 12
	62	Messing, Bronze, Rotguss (kurzspanend)	Short chip brass, phosphor bronze, gun metal	< 200	< 700	< 12
	63	Messing (langspanend)	Long chip brass	< 200	< 700	> 12
	64	Messing bleifrei	Lead free brass	< 220	< 700	> 15
70 Aluminium Magnesium Aluminium Magnesium	71	Al unlegiert	Al unalloyed	< 100	< 350	> 15
	72	Al legiert Si < 1.5 %	Al alloyed Si < 1.5 %	< 150	< 500	> 15
	73	Al legiert Si > 1.5 % - < 10 %	Al alloyed Si > 1.5 % - < 10 %	< 120	< 400	< 15
	74	Al legiert Si > 10 %, Mg-Legierungen	Al alloyed Si > 10 %, Mg-alloys	< 120	< 400	< 10
80 Kunststoff Plastic compounds	81	Thermoplaste	Thermoplastics	-	-	-
	82	Duroplaste	Duroplastics	-	-	-
	83	Faserverstärkte Kunststoffe	Glass fibre reinforced plastics	-	-	-
90 Edelmetalle Precious metals	91	Gelbgold	Yellow gold	-	-	-
	92	Rotgold	Red gold	-	-	-
	93	Weissgold	White gold	-	-	-
	94	Silber	Silver	-	-	-

CLASSIC
SYNCHRO



	TAN				TAZ	
Merkmale Characteristics		 		 		 
						
Lochart Hole type						
	TAN40	TAN40VS	TAN50	TAN50VS	TAZ40	TAZ40VS
M 4H / 6H ISO DIN 14 ISO DIN 13 DC ~DIN 371	338	338	338	338	339	339
MF 4H / 6H ISO DIN 13 DC ~DIN 371	341	341	341	341	342	342
UNC 2B ASME B1.1 DC ~DIN 371	344	344	344	344	345	345
3B ASME B1.1 DC ~DIN 371	344	344	344	344	345	345
UNF 2B ASME B1.1 DC ~DIN 371	347	347	347	347	348	348
3B ASME B1.1 DC ~DIN 371	347	347	347	347	348	348
S NIHS NIHS 06 - 10 DC	350	350	350	350	351	351
SF NIHS NIHS 06-10 Fine Thread DC	353	353	353	353	354	354
SL Safelock SL 15 - 01 DC	356	356	356	356	357	357



TAZ		CMS	
 R25	 R25  VS	 R12	 R12  VS
			
			
TAZ50	TAZ50VS	CMS50	CMS50VS
339	339	340	340
342	342	343	343
345	345	346	346
345	345	346	346
348	348	349	349
348	348	349	349
351	351	352	352
354	354	355	355
357	357	358	358

TAN

TAN40



62 63 91

TAN40VS



VS

11 12 13 14 32 62
63 71 72 73 74 81
93

TAN50



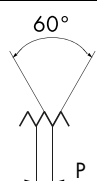
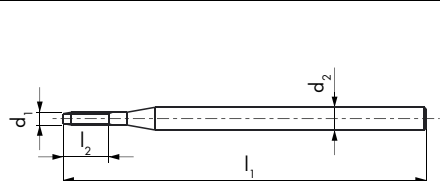
62 63 91

TAN50VS



VS

11 12 13 14 32 62
63 71 72 73 74 81
93



TAN40

TAN40VS

TAN50

TAN50VS



4H

4H

4H

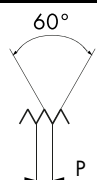
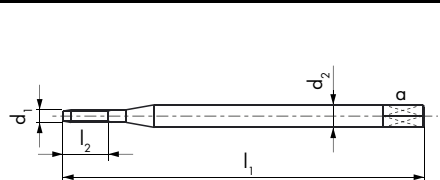
4H

Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ mm		
0.5	0.125	25	1.5	2	3	Δ 0.41
0.6	0.15	25	1.8	2	3	Δ 0.5
0.7	0.175	25	2.1	2	3	Δ 0.58
0.8	0.2	25	2.4	2	3	Δ 0.66
0.9	0.225	25	2.7	2	3	Δ 0.74
1	0.25	40	3.0	2.5	3	0.75
1.2	0.25	40	3.6	2.5	3	0.95
1.4	0.3	40	4.2	2.5	3	1.1

Δ 4H5H → 4H6H = +0.02 mm

ID	ID	ID	ID
161817	161748	161818	161749
152512	152511	152545	151766
152516	152515	152548	152547
152520	152519	152552	152551
152524	152523	152555	152554
152528	152527	152558	151557
152531	151463	152562	152561
152534	151756	152565	151757

Δ 4H5H → 4H6H = +0.02 mm



ISO 2
6H

ISO 2
6H

ISO 2
6H

ISO 2
6H

Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
1.6	0.35	40	4.8	2.5		3	1.25
1.8	0.35	40	5.4	2.5		3	1.45
2	0.4	45	8	2.8	2.1	3	1.6
2.3	0.4	45	9	2.8	2.1	3	1.9
2.5	0.45	50	10	2.8	2.1	3	2.05
2.6	0.45	50	10	2.8	2.1	3	2.15

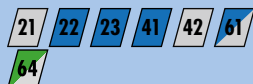
ID	ID	ID	ID
152538	152537	152569	152568
193841	151461	193915	193952
152542	152541	152573	152572
193842	193878	193916	193953
193843	193879	193917	193954
193844	193880	193918	193955

TAZ

TAZ40



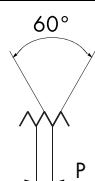
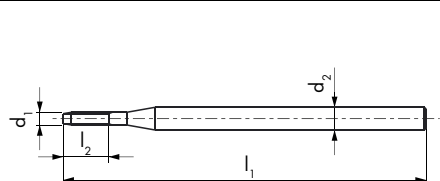
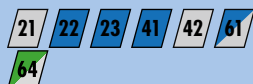
TAZ40VS



TAZ50



TAZ50VS



TAZ40

TAZ40VS

TAZ50

TAZ50VS

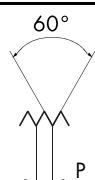
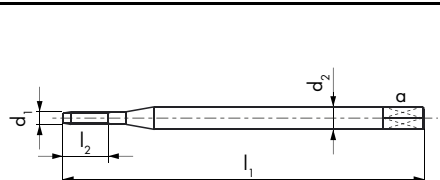


Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ mm		
0.5	0.125	25	1.5	2	3	Δ 0.41
0.6	0.15	25	1.8	2	3	Δ 0.5
0.7	0.175	25	2.1	2	3	Δ 0.58
0.8	0.2	25	2.4	2	3	Δ 0.66
0.9	0.225	25	2.7	2	3	Δ 0.74
1	0.25	40	3	2.5	3	0.75
1.2	0.25	40	3.6	2.5	3	0.95
1.4	0.3	40	4.2	2.5	3	1.1

Δ 4H5H → 4H6H = +0.02 mm

ID	ID	ID	ID
● 193994	● 194059	● 194119	● 194182
● 193995	● 194060	● 194120	● 194183
● 193996	● 194061	● 194121	● 194184
● 193997	● 194062	● 194122	● 194185
● 193998	● 194063	● 194123	● 194186
● 193999	● 194064	● 194124	● 183753
● 194000	● 194065	● 194125	● 194187
● 194001	● 194066	● 194126	● 194188

Δ 4H5H → 4H6H = +0.02 mm



Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
1.6	0.35	40	4.8	2.5		3	1.25
1.8	0.35	40	5.4	2.5		3	1.45
2	0.4	45	8	2.8	2.1	3	1.6
2.3	0.4	45	9	2.8	2.1	3	1.9
2.5	0.45	50	10	2.8	2.1	3	2.05
2.6	0.45	50	10	2.8	2.1	3	2.15

ID	ID	ID	ID
● 194002	● 194067	● 194127	● 194189
● 194003	● 194068	● 194128	● 194190
● 194004	● 194947	● 194129	● 179266
● 194005	● 194069	● 194130	● 194191
● 194006	● 194070	● 194131	● 194192
● 194007	● 194071	● 194132	● 194193

CMS

CMS50



62 63 93

CMS50VS

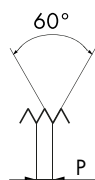
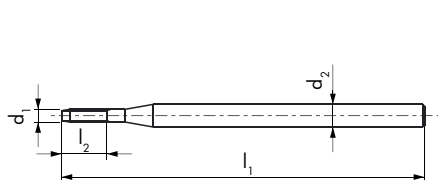


VS

31 62 63 73 74 83
93

CMS50

CMS50VS



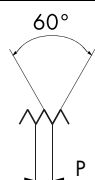
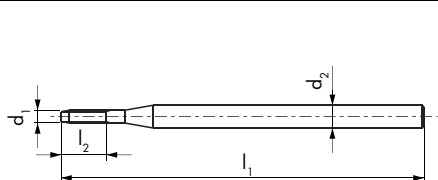
4H

4H

$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	d_2 h5 mm		
0.3	0.08	32	1.1	1.5	3	0.23
0.35	0.09	32	1.3	1.5	3	0.28
0.4	0.1	32	1.5	1.5	3	$\Delta 0.32$
0.5	0.125	32	1.8	1.5	3	$\Delta 0.41$
0.6	0.15	32	2.2	1.5	3	$\Delta 0.5$
0.7	0.175	32	2.6	1.5	3	$\Delta 0.58$
0.8	0.2	32	3	1.5	3	$\Delta 0.66$
0.9	0.225	32	3.3	1.5	3	$\Delta 0.74$
1	0.25	32	3.7	2	3	0.75
1.2	0.25	32	4.5	2	3	0.95
1.4	0.3	32	5.2	2	3	1.1

 4H5H $\rightarrow$ 4H6H = +0.02 mm

ID	ID
● 193639	● 193702
● 193640	● 193703
● 193641	● 193704
● 193642	● 193705
● 193643	● 193706
● 193644	● 193707
● 193645	● 193708
● 193646	● 193709
● 193647	● 193710
● 193648	● 193711
● 193649	● 193712

 $\geq M1 - \leq M1.4$ ISO 1
4H
ISO 2
6HISO 2
6H

$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	d_2 h5 mm		
1.6	0.35	32	6	2	3	1.25
1.8	0.35	32	6.7	2	3	1.45
2	0.4	39	7.5	3	3	1.6
2.3	0.4	39	8.6	3	3	1.9
2.5	0.45	39	9.3	3	3	2.05
2.6	0.45	39	9.7	3	3	2.15

ID	ID
● 193650	● 193713
● 193651	● 193714
● 193652	● 193715
● 193653	● 193716
● 193654	● 193717
● 193655	● 193718

TAN

TAN40



62 63 91

TAN40VS



VS

11 12 13 14 32 62
63 71 72 73 74 81
93

TAN50



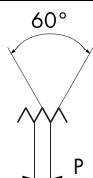
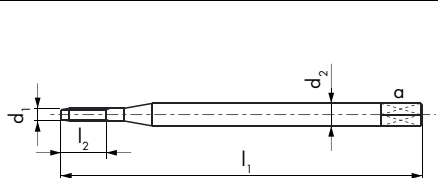
62 63 91

TAN50VS



VS

11 12 13 14 32 62
63 71 72 73 74 81
93



TAN40

TAN40VS

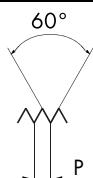
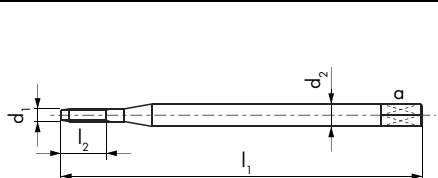
TAN50

TAN50VS



Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
1.4	0.2	40	4.2	2.5		3	1.2
1.6	0.2	40	4.8	2.5		3	1.4
1.8	0.2	40	5.4	2.5		3	1.6
2	0.2	45	6	2.8	2.1	3	1.8
2	0.25	45	6	2.8	2.1	3	1.75
2.2	0.2	45	6.6	2.8	2.1	3	2
2.2	0.25	45	6.6	2.8	2.1	3	1.95
2.3	0.2	45	6.9	2.8	2.1	3	2.1
2.3	0.25	45	6.9	2.8	2.1	3	2.05
2.5	0.2	50	7.5	2.8	2.1	3	2.3
2.5	0.25	50	7.5	2.8	2.1	3	2.25

ID	ID	ID	ID
• 170390	• 193881	• 170393	• 156730
• 193845	• 193882	• 193919	• 193956
• 193846	• 193883	• 193920	• 180810
• 193847	• 193884	• 193921	• 184999
• 193848	• 193885	• 193922	• 182944
• 193849	• 193886	• 193923	• 179593
• 193850	• 193887	• 193924	• 193957
• 193851	• 193888	• 193925	• 193958
• 193852	• 193889	• 193926	• 193959
• 193853	• 193890	• 193927	• 193960
• 193854	• 193891	• 193928	• 193961



Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
2.5	0.35	50	7.5	2.8	2.1	3	2.15
2.6	0.35	50	7.8	2.8	2.1	3	2.25

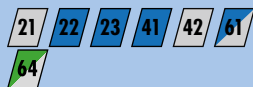
ID	ID	ID	ID
• 193855	• 193892	• 193929	• 193962
• 193856	• 193893	• 193930	• 193963

TAZ

TAZ40



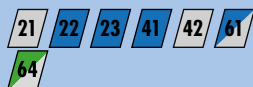
TAZ40VS



TAZ50



TAZ50VS

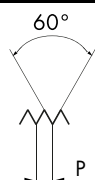
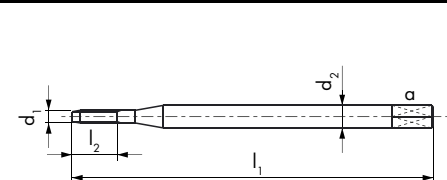


TAZ40

TAZ40VS

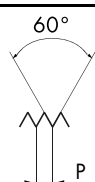
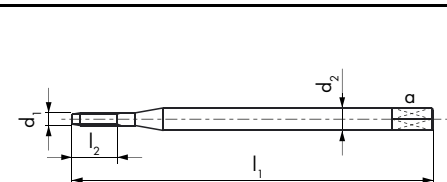
TAZ50

TAZ50VS



Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
1.4	0.2	40	4.2	2.5		3	1.2
1.6	0.2	40	4.8	2.5		3	1.4
1.8	0.2	40	5.4	2.5		3	1.6
2	0.2	45	6	2.8	2.1	3	1.8
2	0.25	45	6	2.8	2.1	3	1.75
2.2	0.2	45	6.6	2.8	2.1	3	2
2.2	0.25	45	6.6	2.8	2.1	3	1.95
2.3	0.2	45	6.9	2.8	2.1	3	2.1
2.3	0.25	45	6.9	2.8	2.1	3	2.05
2.5	0.2	50	7.5	2.8	2.1	3	2.3
2.5	0.25	50	7.5	2.8	2.1	3	2.25

ID	ID	ID	ID
● 194008	● 194950	● 194133	● 194194
● 194009	● 194072	● 194134	● 181665
● 194010	● 194073	● 194135	● 190047
● 194011	● 194949	● 194136	● 194195
● 194012	● 194948	● 194137	● 185307
● 194013	● 194074	● 194138	● 194196
● 194014	● 194075	● 194139	● 194197
● 194015	● 194076	● 194140	● 194198
● 194016	● 194077	● 194141	● 194199
● 194017	● 194078	● 194142	● 194200
● 194018	● 194951	● 194143	● 194201



Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
2.5	0.35	50	7.5	2.8	2.1	3	2.15
2.6	0.35	50	7.8	2.8	2.1	3	2.25

ID	ID	ID	ID
● 194019	● 194079	● 194144	● 194202
● 194020	● 194080	● 194145	● 194203

CMS

CMS50



62 63 93

CMS50VS

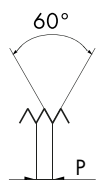
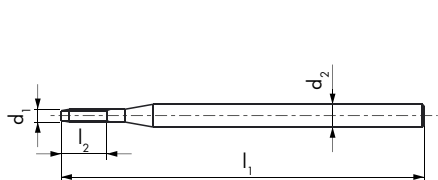


VS

31 62 63 73 74 83
93

CMS50

CMS50VS



ISO 1
4H

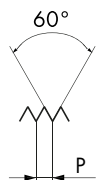
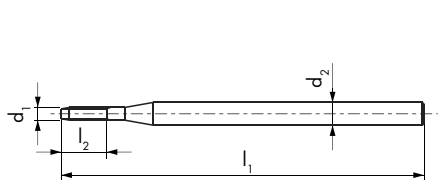
ISO 1
4H

Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	d ₂ h5 mm		
1.4	0.2	32	5.2	2	3	1.2
1.6	0.2	32	6	2	3	1.4
1.8	0.2	32	6.7	2	3	1.6
2	0.2	39	7.5	3	3	1.8
2	0.25	39	7.5	3	3	1.75
2.2	0.2	39	8.2	3	3	2
2.2	0.25	39	8.2	3	3	1.95
2.3	0.2	39	8.6	3	3	2.1
2.3	0.25	39	8.6	3	3	2.05
2.5	0.2	39	9.3	3	3	2.3
2.5	0.25	39	9.3	3	3	2.25

ID

ID

• 193656	• 193719
• 193657	• 193720
• 193658	• 193721
• 193659	• 193722
• 193660	• 193723
• 193661	• 193724
• 193662	• 193725
• 193663	• 193726
• 193664	• 193727
• 193665	• 193728
• 193666	• 193729



ISO 2
6H

ISO 2
6H

Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	d ₂ h5 mm		
2.5	0.35	39	9.3	3	3	2.15
2.6	0.35	39	9.7	3	3	2.25

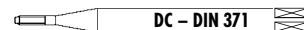
ID

ID

• 193667	• 193730
• 193668	• 193731



PM



TAN

TAN40



62 63 91

TAN40VS



VS

11 12 13 14 32 62
63 71 72 73 74 81
93

TAN50



62 63 91

TAN50VS



VS

11 12 13 14 32 62
63 71 72 73 74 81
93

TAN40

TAN40VS

TAN50

TAN50VS



2B

2B

2B

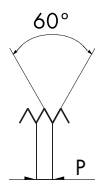
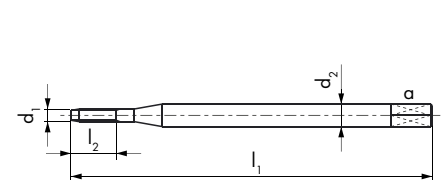
2B

ID

ID

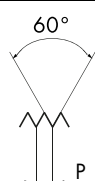
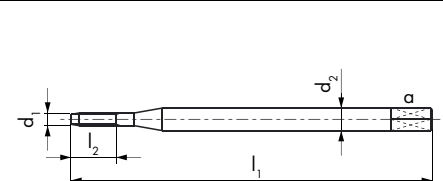
ID

ID



Ø d UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
1	64	1.85	40	5.6	2.5		3	1.45
2	56	2.18	45	9	2.8	2.1	3	1.75
3	48	2.51	50	10	2.8	2.1	3	2

● 193857	● 193894	● 193931	● 193964
● 193858	● 193895	● 193932	● 193965
● 193859	● 193896	● 193933	● 193966



Ø d UNC(J)	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
1	64	1.85	40	5.6	2.5		3	1.45
2	56	2.18	45	9	2.8	2.1	3	1.75
3	48	2.51	50	10	2.8	2.1	3	2

ID

ID

ID

ID

● 193860	● 193897	● 193934	● 193967
● 193861	● 193898	● 193935	● 193968
● 193862	● 193899	● 193936	● 193969

TAZ

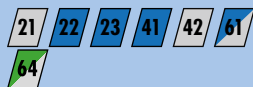
TAZ40



TAZ40VS



VS



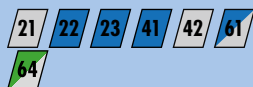
TAZ50



TAZ50VS



VS



TAZ40

TAZ40VS

TAZ50

TAZ50VS

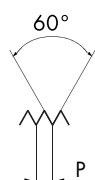
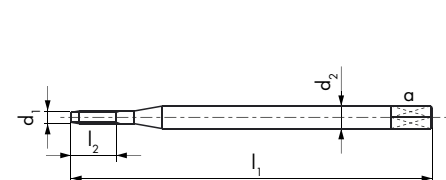


2B

2B

2B

2B



Ø d UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
1	64	1.85	40	5.6	2.5		3	1.45
2	56	2.18	45	9	2.8	2.1	3	1.75
3	48	2.51	50	10	2.8	2.1	3	2

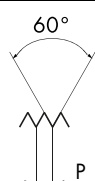
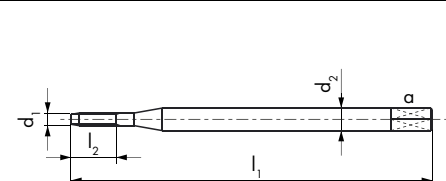
ID

ID

ID

ID

194021	194081	194146	194204
194022	194082	194147	194205
194023	194083	194148	194206



Ø d UNC(J)	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
1	64	1.85	40	5.6	2.5		3	1.45
2	56	2.18	45	9	2.8	2.1	3	1.75
3	48	2.51	50	10	2.8	2.1	3	2

ID

ID

ID

ID

194024	194084	194149	194207
194025	194085	194150	194208
194026	194086	194151	194209

CMS

CMS50



62 63 93

CMS50VS

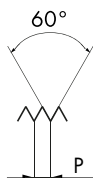
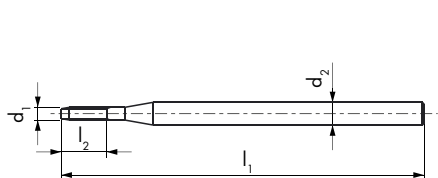


VS

31 62 63 73 74 83
93

CMS50

CMS50VS



2B

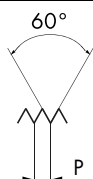
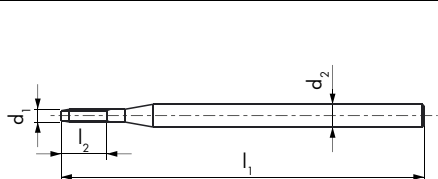
2B

Ø d ₁ UNC	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ h5 mm		
1	64	1.85	32	6.9	2	3	1.45
2	56	2.18	39	8.1	3	3	1.75
3	48	2.51	39	9.4	3	3	2

ID

ID

● 193669	● 193732
● 193670	● 193733
● 193671	● 193734



3B

3B

Ø d ₁ UNC(J)	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ h5 mm		
1	64	1.85	32	6.9	2	3	1.45
2	56	2.18	39	8.1	3	3	1.75
3	48	2.51	39	9.4	3	3	2

ID

ID

● 193672	● 193735
● 193673	● 193736
● 193674	● 193737

TAN

TAN40



62 63 91

TAN40VS



VS

11 12 13 14 32 62
63 71 72 73 74 81
93

TAN50



62 63 91

TAN50VS



VS

11 12 13 14 32 62
63 71 72 73 74 81
93

TAN40

TAN40VS

TAN50

TAN50VS



2B

2B

2B

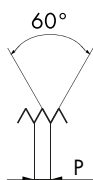
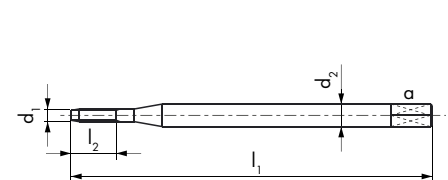
2B

ID

ID

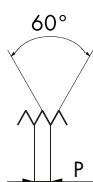
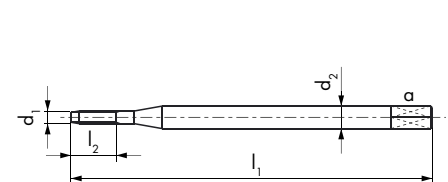
ID

ID



Ø d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
0	80	1.52	40	4.6	2.5		3	1.2
1	72	1.85	40	5.6	2.5		3	1.5
2	64	2.18	45	9	2.8	2.1	3	1.8
3	56	2.51	50	10	2.8	2.1	3	2.1

● 193863	● 193900	● 193937	● 193970
● 193864	● 193901	● 193938	● 193971
● 193865	● 193902	● 193939	● 193972
● 193866	● 193903	● 193940	● 193973



Ø d ₁ UNF(J)	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
0	80	1.52	40	4.6	2.5		3	1.2
1	72	1.85	40	5.6	2.5		3	1.5
2	64	2.18	45	9	2.8	2.1	3	1.8
3	56	2.51	50	10	2.8	2.1	3	2.1

3B

3B

3B

3B

ID

ID

ID

ID

● 193867	● 193904	● 193941	● 193974
● 193868	● 193905	● 193942	● 193975
● 193869	● 193906	● 193943	● 193976
● 193870	● 193907	● 193944	● 193977

TAZ

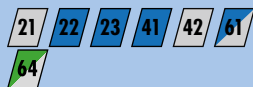
TAZ40



TAZ40VS



VS



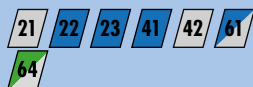
TAZ50



TAZ50VS



VS



TAZ40

TAZ40VS

TAZ50

TAZ50VS



2B

2B

2B

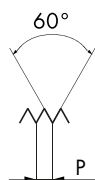
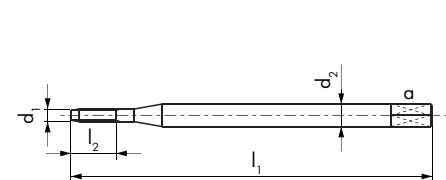
2B

ID

ID

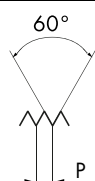
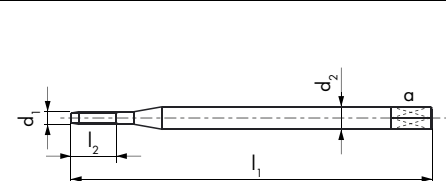
ID

ID



Ø d UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
0	80	1.52	40	4.6	2.5		3	1.2
1	72	1.85	40	5.6	2.5		3	1.5
2	64	2.18	45	9	2.8	2.1	3	1.8
3	56	2.51	50	10	2.8	2.1	3	2.1

● 194027	● 194087	● 194152	● 194210
● 194028	● 194088	● 194153	● 194211
● 194029	● 194089	● 194154	● 194212
● 194030	● 194090	● 194155	● 194213



Ø d UNF(J)	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
0	80	1.52	40	4.6	2.5		3	1.2
1	72	1.85	40	5.6	2.5		3	1.5
2	64	2.18	45	9	2.8	2.1	3	1.8
3	56	2.51	50	10	2.8	2.1	3	2.1

3B

3B

3B

3B

ID

ID

ID

ID

● 194031	● 194091	● 194156	● 194214
● 194032	● 194092	● 194157	● 194215
● 194033	● 194093	● 194158	● 194216
● 194034	● 194094	● 194159	● 194217

CMS

CMS50



62 63 93

CMS50VS

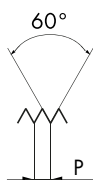
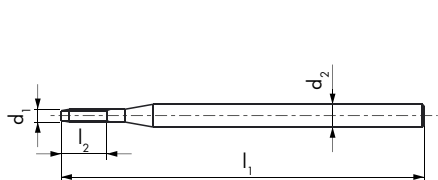


VS

31 62 63 73 74 83
93

CMS50

CMS50VS



2B

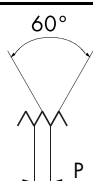
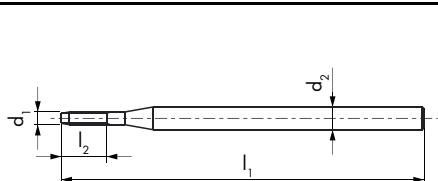
2B

Ø d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ h5 mm		
0	80	1.52	32	5.7	2	3	1.2
1	72	1.85	32	6.9	2	3	1.5
2	64	2.18	39	8.1	3	3	1.8
3	56	2.51	39	9.4	3	3	2.1

ID

ID

● 193675	● 193738
● 193676	● 193739
● 193677	● 193740
● 193678	● 193741



3B

3B

Ø d ₁ UNF(J)	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ h5 mm		
0	80	1.52	32	5.7	2	3	1.2
1	72	1.85	32	6.9	2	3	1.5
2	64	2.18	39	8.1	3	3	1.8
3	56	2.51	39	9.4	3	3	2.1

ID

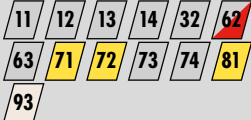
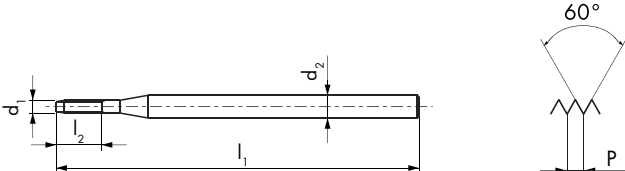
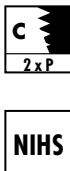
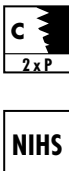
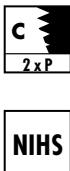
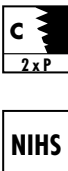
ID

● 193679	● 193742
● 193680	● 193743
● 193681	● 193744
● 193682	● 193745



PM



TAN							TAN40	TAN40VS	TAN50	TAN50VS
TAN40   TAN40VS  VS  TAN50   TAN50VS  VS 							   			
							   			
   							   			
$\varnothing d_1$ S	P mm	l_1 mm	l_2 mm	d_2 mm			ID	ID	ID	ID
0.5	0.125	25	1.5	2	3	$\Delta 0.41$	● 161816	● 157021	● 159301	● 158384
0.6	0.15	25	1.8	2	3	$\Delta 0.5$	● 152510	● 152509	● 151567	● 152544
0.7	0.175	25	2.1	2	3	$\Delta 0.58$	● 152514	● 152513	● 151768	● 152546
0.8	0.2	25	2.4	2	3	$\Delta 0.66$	● 152518	● 152517	● 152550	● 152549
0.9	0.225	25	2.7	2	3	$\Delta 0.74$	● 152522	● 152521	● 152553	● 151563
1	0.25	40	3	2.5	3	$\Delta 0.82$	● 152526	● 152525	● 152557	● 152556
1.2	0.25	40	3.6	2.5	3	$\Delta 1.02$	● 152530	● 152529	● 152560	● 152559
1.4	0.3	40	4.2	2.5	3	$\Delta 1.18$	● 152533	● 152532	● 152564	● 152563
 Δ 4H5H $\rightarrow$ 4H6H = +0.02 mm										



TAZ							TAZ40	TAZ40VS	TAZ50	TAZ50VS
TAZ40										
TAZ40VS										
TAZ50										
TAZ50VS										



CMS

CMS50



62 63 93

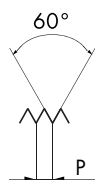
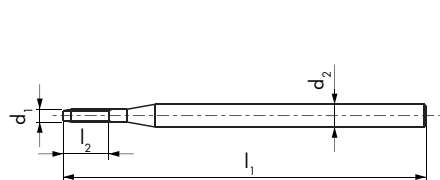
CMS50VS



31 62 63 73 74 83
93

CMS50

CMS50VS



$\emptyset d_1$ S	P mm	l_1 mm	l_2 mm	d_2 h5 mm		
0.3	0.08	32	1.1	1.5	3	0.23
0.35	0.09	32	1.3	1.5	3	0.28
0.4	0.1	32	1.5	1.5	3	$\Delta 0.32$
0.5	0.125	32	1.8	1.5	3	$\Delta 0.41$
0.6	0.15	32	2.2	1.5	3	$\Delta 0.5$
0.7	0.175	32	2.6	1.5	3	$\Delta 0.58$
0.8	0.2	32	3	1.5	3	$\Delta 0.66$
0.9	0.225	32	3.3	1.5	3	$\Delta 0.74$
1	0.25	32	3.7	2	3	$\Delta 0.82$
1.2	0.25	32	4.5	2	3	$\Delta 1.02$
1.4	0.3	32	5.2	2	3	$\Delta 1.18$

ID

ID

● 178257

● 193683

● 178260

● 193684

● 178263

● 193685

● 178266

● 193686

● 178269

● 193687

● 178272

● 193688

● 178275

● 193689

● 178278

● 193690

● 178281

● 193691

● 178284

● 193692

● 178287

● 193693

Δ 4H5H $\rightarrow$ 4H6H = +0.02 mm

TAN

TAN40



62 63 91

TAN40VS



VS

 11 12 13 14 32 62
 63 71 72 73 74 81
 93

TAN50



62 63 91

TAN50VS



VS

 11 12 13 14 32 62
 63 71 72 73 74 81
 93

TAN40

TAN40VS

TAN50

TAN50VS

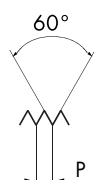
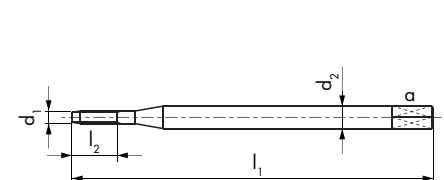


NIHS

NIHS

NIHS

NIHS



Ø d ₁ SF	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
1.4	0.2	40	4.2	2.5		3	Δ 1.26
1.6	0.2	40	4.8	2.5		3	Δ 1.46
1.8	0.2	40	5.4	2.5		3	Δ 1.66
2	0.2	45	6	2.8	2.1	3	Δ 1.86
2.2	0.2	45	6.6	2.8	2.1	3	Δ 2.06
2.2	0.25	45	6.6	2.8	2.1	3	Δ 2.02
2.5	0.2	50	7.5	2.8	2.1	3	Δ 2.36
2.5	0.25	50	7.5	2.8	2.1	3	Δ 2.32

 Δ  4H5H → 4H6H = +0.02 mm

ID

ID

ID

ID

● 193833	● 170491	● 169767	● 170492
● 193834	● 193871	● 193908	● 193945
● 193835	● 193872	● 193909	● 193946
● 193836	● 193873	● 193910	● 193947
● 193837	● 193874	● 193911	● 193948
● 193838	● 193875	● 193912	● 193949
● 193839	● 193876	● 193913	● 193950
● 193840	● 193877	● 193914	● 193951

TAZ

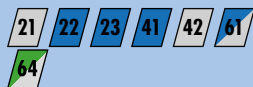
TAZ40



TAZ40VS



VS



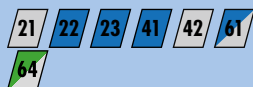
TAZ50



TAZ50VS



VS

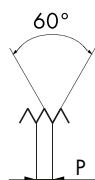
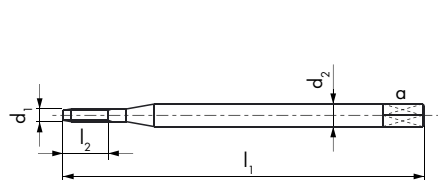


TAZ40

TAZ40VS

TAZ50

TAZ50VS



NIHS

NIHS

NIHS

NIHS

Ø d ₁ SF	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm		
1.4	0.2	40	4.2	2.5		3	Δ 1.26
1.6	0.2	40	4.8	2.5		3	Δ 1.46
1.8	0.2	40	5.4	2.5		3	Δ 1.66
2	0.2	45	6	2.8	2.1	3	Δ 1.86
2.2	0.2	45	6.6	2.8	2.1	3	Δ 2.06
2.2	0.25	45	6.6	2.8	2.1	3	Δ 2.02
2.5	0.2	50	7.5	2.8	2.1	3	Δ 2.36
2.5	0.25	50	7.5	2.8	2.1	3	Δ 2.32

Δ  4H5H → 4H6H = +0.02 mm

ID

ID

ID

ID

● 193986	● 194051	● 194111	● 194174
● 193987	● 194052	● 194112	● 194175
● 193988	● 194053	● 194113	● 194176
● 193989	● 194054	● 194114	● 194177
● 193990	● 194055	● 194115	● 194178
● 193991	● 194056	● 194116	● 194179
● 193992	● 194057	● 194117	● 194180
● 193993	● 194058	● 194118	● 194181

CMS

CMS50



62 63 93

CMS50VS

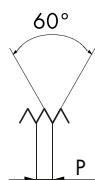
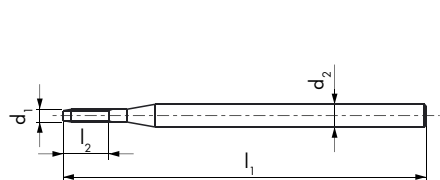


VS

31 62 63 73 74 83
93

CMS50

CMS50VS



Ø d ₁ SF	P mm	l ₁ mm	l ₂ mm	d ₂ h5 mm		
1.4	0.2	32	5.2	2	3	Δ 1.26
1.6	0.2	32	6	2	3	Δ 1.46
1.8	0.2	32	6.7	2	3	Δ 1.66
2	0.2	39	7.5	3	3	Δ 1.86
2.2	0.2	39	8.2	3	3	Δ 2.06
2.2	0.25	39	8.2	3	3	Δ 2.02
2.5	0.2	39	9.3	3	3	Δ 2.36
2.5	0.25	39	9.3	3	3	Δ 2.32

 4H5H → 4H6H = +0.02 mm

ID

ID

● 180329	● 193694
● 193632	● 193695
● 193633	● 193696
● 193634	● 193697
● 193635	● 193698
● 193636	● 193699
● 193637	● 193700
● 193638	● 193701

TAN

TAN40



62 63 91

TAN40VS



VS

11 12 13 14 32 62
63 71 72 73 74 81
93

TAN50

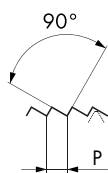
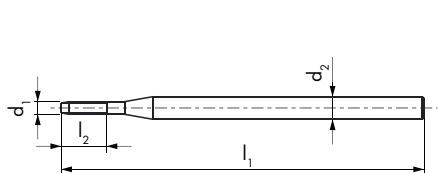


62 63 91

TAN50VS



VS

11 12 13 14 32 62
63 71 72 73 74 81
93

TAN40

TAN40VS

TAN50

TAN50VS



$\emptyset d_1$ SL	P mm	l_1 mm	l_2 mm	d_2 mm		
0.5	0.1	25	1.5	2	3	0.46
0.6	0.125	25	1.8	2	3	0.55
0.7	0.15	25	2.1	2	3	0.64
0.8	0.15	25	2.4	2	3	0.74
0.9	0.175	25	2.7	2	3	0.83
1	0.2	40	3	2.5	3	0.92
1.2	0.2	40	3.6	2.5	3	1.12
1.4	0.25	40	4.2	2.5	3	1.3

ID

ID

ID

ID

• 600065	• 600073	• 600081	• 600089
• 600066	• 600074	• 600082	• 600090
• 600067	• 600075	• 600083	• 600091
• 600068	• 600076	• 600084	• 600092
• 600069	• 600077	• 600085	• 600093
• 600070	• 600078	• 600086	• 600094
• 600071	• 600079	• 600087	• 600095
• 600072	• 600080	• 600088	• 600096

TAZ

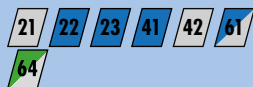
TAZ40



TAZ40VS



VS



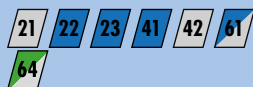
TAZ50



TAZ50VS



VS

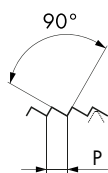
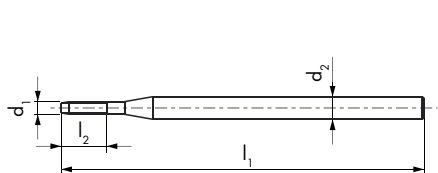


TAZ40

TAZ40VS

TAZ50

TAZ50VS



Ø d ₁ SL	P mm	l ₁ mm	l ₂ mm	d ₂ mm		
0.5	0.1	25	1.5	2	3	0.46
0.6	0.125	25	1.8	2	3	0.55
0.7	0.15	25	2.1	2	3	0.64
0.8	0.15	25	2.4	2	3	0.74
0.9	0.175	25	2.7	2	3	0.83
1	0.2	40	3	2.5	3	0.92
1.2	0.2	40	3.6	2.5	3	1.12
1.4	0.25	40	4.2	2.5	3	1.3

ID

ID

ID

ID

● 600210

● 600218

● 600194

● 600202

● 600211

● 600219

● 600195

● 600203

● 600212

● 600220

● 600196

● 600204

● 600213

● 600221

● 600197

● 600205

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● 600223

● 600199

● 600207

● 600216

● 600224

● 600200

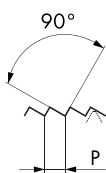
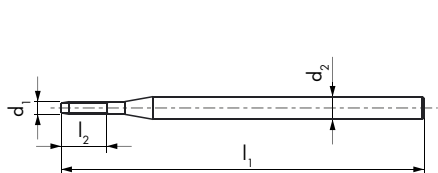
● 600208

● 600217

● 600225

● 600201

● 600209

CMS**CMS50****62** **63** **93****CMS50VS****VS****31** **62** **63** **73** **74** **83**
93**CMS50****CMS50VS**

$\emptyset d_1$ SL	P mm	l_1 mm	l_2 mm	d_2 h5 mm		
0.3	0.06	32	1.1	1.5	3	0.27
0.35	0.06	32	1.3	1.5	3	0.32
0.4	0.08	32	1.5	1.5	3	0.36
0.5	0.1	32	1.8	1.5	3	0.46
0.6	0.125	32	2.2	1.5	3	0.55
0.7	0.15	32	2.6	1.5	3	0.64
0.8	0.15	32	3	1.5	3	0.74
0.9	0.175	32	3.3	1.5	3	0.83
1	0.2	32	3.7	2	3	0.92
1.2	0.2	32	4.5	2	3	1.12
1.4	0.25	32	5.2	2	3	1.3

ID**ID**

● 600097	● 600226
● 600098	● 600227
● 600099	● 600228
● 600039	● 600229
● 600040	● 600230
● 600041	● 600231
● 600042	● 600232
● 600043	● 600233
● 600044	● 600234
● 600045	● 600235
● 600046	● 600236



H | PERSEVERING THREADING

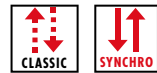
GEWINDEFORMER NANO THREAD FORMERS NANO

DC -Anwendungsgruppen

DC Material classification

Werkstoff-Gruppen Material groups		Werkstoffbezeichnung	Material designation	Härte Hardness (HB)	Festigkeit Tensile strength Rm (N/mm ²)	Dehnung Elongation A (%)
10 Stahl Steels	11	Automatenstahl	Free-cutting steels	< 200	< 700	< 10
	12	Baustahl, Einsatzstahl	Structural, cementation steels	< 200	< 700	< 30
	13	Kohlenstoffstahl	Carbon steels	< 300	< 1000	< 20
	14	Stahl legiert < 850 N/mm ²	Alloy steels < 850 N/mm ²	< 250	< 850	< 30
	15	Stahl legiert / vergütet > 850 - < 1150 N/mm ²	Alloy steels hard. / temp. > 850 - < 1150 N/mm ²	> 250	> 850	< 30
	16	Hochfester Stahl ≤ 44 HRC	High tensile alloy steels ≤ 44 HRC	> 250	> 850	< 12
	17	Stahl vergütet > 44 - ≤ 54 HRC	Alloy steels tempered > 44 - ≤ 54 HRC	> 410	> 1400	< 2
	18	Stahl gehärtet > 54 - ≤ 63 HRC	Alloy steels hardened > 54 - ≤ 63 HRC	> 560	> 1980	< 2
20 Rostfreier Stahl Stainless steels	21	Rostfreier Stahl, geschwefelt	Free machining stainless steels	< 250	< 850	< 25
	22	Austenitisch	Austenitic stainless steels	< 250	< 850	> 20
	23	Ferritisch, martensitisch < 850 N/mm ²	Ferritic and martensitic < 850 N/mm ²	< 250	< 850	> 20
	24	Ferritisch, martensitisch > 850 - < 1150 N/mm ²	Ferritic and martensitic > 850 - < 1150 N/mm ²	> 250	> 850	> 15
30 Guss Cast iron	31	Grauguss	Cast iron	< 250	< 850	< 10
	32	Kugelgraphitguss, Temperguss	Spheroidal graphite + malleable cast iron	< 250	< 850	> 10
40 Titan Titanium	41	Reintitan	Pure titanium	< 250	< 850	> 20
	42	Titanlegierung	Titanium alloys	> 250	> 850	< 20
50 Nickel Nickel	51	Nickellegierung 1 ≤ 850 N/mm ²	Nickel alloys 1 ≤ 850 N/mm ²	< 250	< 850	> 25
	52	Nickellegierung 2 > 850 - ≤ 1150 N/mm ²	Nickel alloys 2 > 850 - ≤ 1150 N/mm ²	> 250	> 850	< 25
	53	Nickellegierung 3 > 1150 - ≤ 1600 N/mm ²	Nickel alloys 3 > 1150 - ≤ 1600 N/mm ²	> 340	> 1150	< 20
60 Kupfer Copper	61	Reinkupfer (Elektrolytkupfer)	Pure copper (electrolytic copper)	< 120	< 400	> 12
	62	Messing, Bronze, Rotguss (kurzspanend)	Short chip brass, phosphor bronze, gun metal	< 200	< 700	< 12
	63	Messing (langspanend)	Long chip brass	< 200	< 700	> 12
	64	Messing bleifrei	Lead free brass	< 220	< 700	> 15
70 Aluminium Magnesium Aluminium Magnesium	71	Al unlegiert	Al unalloyed	< 100	< 350	> 15
	72	Al legiert Si < 1.5 %	Al alloyed Si < 1.5 %	< 150	< 500	> 15
	73	Al legiert Si > 1.5 % - < 10 %	Al alloyed Si > 1.5 % - < 10 %	< 120	< 400	< 15
	74	Al legiert Si > 10 %, Mg-Legierungen	Al alloyed Si > 10 %, Mg-alloys	< 120	< 400	< 10
80 Kunststoff Plastic compounds	81	Thermoplaste	Thermoplastics	-	-	-
	82	Duroplaste	Duroplastics	-	-	-
	83	Faserverstärkte Kunststoffe	Glass fibre reinforced plastics	-	-	-
90 Edelmetalle Precious metals	91	Gelbgold	Yellow gold	-	-	-
	92	Rotgold	Red gold	-	-	-
	93	Weissgold	White gold	-	-	-
	94	Silber	Silver	-	-	-

GEWINDEFORMER NANO — THREAD FORMERS NANO



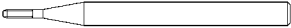
Ab Seite:
From page:

M
MF
UNC
UNF
S
SF
SL

		V _c (m/min) Guide Line			
		Ø 0.3 - 1.4 mm	Ø 1.4 - 2.8 mm		
		Beschichtet Coated	Beschichtet Coated		
11		4 - 10	12 - 20		
12		4 - 10	12 - 20		
13		4 - 10	12 - 20		
14		4 - 10	12 - 20		
15		3 - 6	6 - 12		
16					
17					
18					
21		4 - 10	12 - 20		
22		3 - 6	6 - 12		
23		3 - 6	6 - 12		
24		3 - 6	6 - 12		
31					
32					
41					
42					
51		3 - 6	6 - 12		
52					
53					
61		4 - 10	12 - 20		
62		4 - 10	12 - 20		
63		4 - 10	12 - 20		
64		4 - 10	12 - 20		
71		4 - 10	12 - 20		
72		4 - 10	12 - 20		
73		4 - 10	12 - 20		
74					
81					
82					
83					
91		4 - 10	12 - 20		
92		4 - 10	12 - 20		
93		4 - 10	12 - 20		
94		4 - 10	12 - 20		

FA Normale Werkstoffe Normal materials		CFA Nichteisen-Metalle Non-ferrous materials	
363	363	370	370
364	364		
365	365	371	371
366	366	372	372
367	367	373	373
368	368		
369	369		
FA80VS	FA83VS	CFA80VS	CFA83VS



				FA		CFA	
Merkmale Characteristics				 VS	 VS	 VS	 VS
				 E 1.5 x P	 C 2.5 x P	 E 1.5 x P	 C 2.5 x P
							
Lochart Hole type				 < 2.5 x D	 < 2.5 x D	 < 2.5 x D	 < 2.5 x D
				FA80VS	FA83VS	CFA80VS	CFA83VS
M	4HX / 6HX	ISO DIN 14 ISO DIN 13	DC ~DIN 371	363	363	370	370
MF	4HX / 6HX	ISO DIN 13	DC ~DIN 371	364	364		
UNC	2BX	ASME B1.1	DC ~DIN 371	365	365	371	371
	3BX	ASME B1.1	DC ~DIN 371	365	365		
UNF	2BX	ASME B1.1	DC ~DIN 371	366	366	372	372
	3BX	ASME B1.1	DC ~DIN 371	366	366		
S	NIHS	NIHS 06 - 10	DC	367	367	373	373
SF	NIHS	NIHS 06-10 Fine Thread	DC	368	368		
SL	Safelock	SL 15 - 01	DC	369	369		

FA

FA80VS



VS



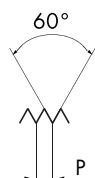
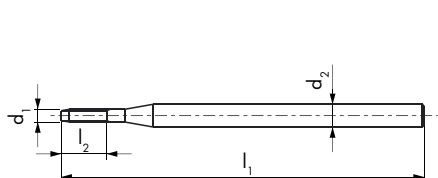
FA83VS



VS

FA80VS

FA83VS



4HX

4HX

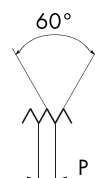
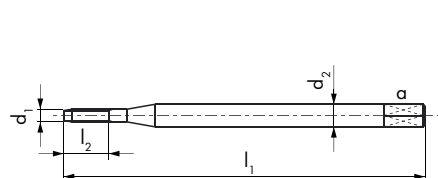
$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	d_2 mm	
0.5	0.125	25	1.5	2	$\Delta 0.44$
0.6	0.15	25	1.8	2	$\Delta 0.53$
0.7	0.175	25	2.1	2	$\Delta 0.62$
0.8	0.2	25	2.4	2	$\Delta 0.71$
0.9	0.225	25	2.7	2	$\Delta 0.8$
1	0.25	40	3	2.5	$\Delta 0.88$
1.2	0.25	40	3.6	2.5	$\Delta 1.08$
1.4	0.3	40	4.2	2.5	$\Delta 1.25$

Δ Tol. = +0/0.02 mm

ID

ID

● 161750	● 173719
● 152412	● 173720
● 152415	● 173721
● 152418	● 173722
● 152421	● 173723
● 151559	● 173729
● 151565	● 173730
● 152429	● 173731



6HX

6HX

$\emptyset d_1$ M	P mm	l_1 mm	l_2 mm	d_2 mm	a mm	
1.6	0.35	40	4.8	2.5		$\Delta 1.45$
1.8	0.35	40	5.4	2.5		$\Delta 1.65$
2	0.4	45	8	2.8	2.1	$\Delta 1.8$
2.3	0.4	45	9	2.8	2.1	$\Delta 2.1$
2.5	0.45	50	10	2.8	2.1	$\Delta 2.3$
2.6	0.45	50	10	2.8	2.1	$\Delta 2.4$

Δ Tol. = +0/0.02 mm

ID

ID

● 152433	● 193801
● 193764	● 193802
● 151566	● 193803
● 193765	● 193804
● 193766	● 193805
● 193767	● 193806

FA

FA80VS

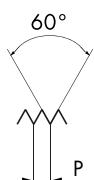
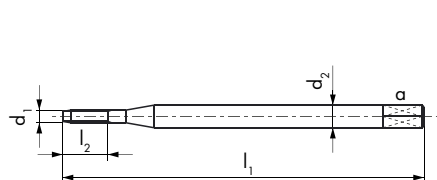


FA83VS



FA80VS

FA83VS



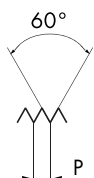
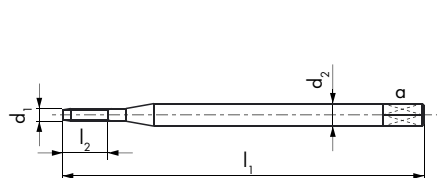
Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm	
1.4	0.2	40	4.2	2.5		Δ 1.31
1.6	0.2	40	4.8	2.5		Δ 1.51
1.8	0.2	40	5.4	2.5		Δ 1.71
2	0.2	45	6	2.8	2.1	Δ 1.91
2	0.25	45	6	2.8	2.1	Δ 1.88
2.2	0.2	45	6.6	2.8	2.1	Δ 2.11
2.2	0.25	45	6.6	2.8	2.1	Δ 2.08
2.3	0.2	45	6.9	2.8	2.1	Δ 2.21
2.3	0.25	45	6.9	2.8	2.1	Δ 2.18
2.5	0.2	50	7.5	2.8	2.1	Δ 2.41
2.5	0.25	50	7.5	2.8	2.1	Δ 2.38

Δ Tol. = +0/0.02 mm

ID

ID

● 155928	● 180436
● 156480	● 193807
● 193768	● 193808
● 193769	● 193809
● 193770	● 193810
● 193771	● 193811
● 193772	● 193812
● 193773	● 193813
● 193774	● 193814
● 193775	● 193815
● 193776	● 193816



Ø d ₁ MF	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm	
2.5	0.35	50	7.5	2.8	2.1	Δ 2.35
2.6	0.35	50	7.8	2.8	2.1	Δ 2.45

Δ Tol. = +0/0.02 mm

ID

ID

● 193777	● 193817
● 193778	● 193818

FA

FA80VS



VS



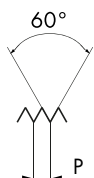
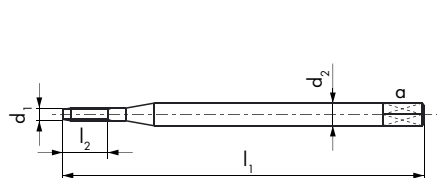
FA83VS



VS

FA80VS

FA83VS



$\emptyset d_1$ UNC	P TPI	d mm	l_1 mm	l_2 mm	d_2 mm	a mm	
1	64	1.85	40	5.6	2.5	2.1	$\Delta 1.65$
2	56	2.18	45	9	2.8	2.1	$\Delta 2$
3	48	2.51	50	10	2.8	2.1	$\Delta 2.25$

Δ Tol. = +0/0.02 mm

ID

ID

● 193779

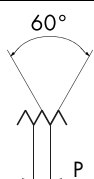
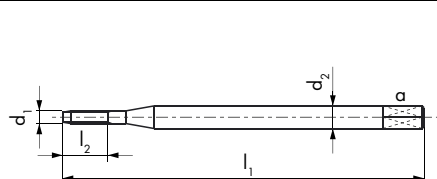
● 193819

● 193780

● 193820

● 193781

● 193821



$\emptyset d_1$ UNC	P TPI	d mm	l_1 mm	l_2 mm	d_2 mm	a mm	
1	64	1.85	40	5.6	2.5	2.1	$\Delta 1.65$
2	56	2.18	45	9	2.8	2.1	$\Delta 2$
3	48	2.51	50	10	2.8	2.1	$\Delta 2.25$

Δ Tol. = +0/0.02 mm

ID

ID

● 193782

● 193822

● 193783

● 193823

● 193784

● 193824

FA

FA80VS



VS



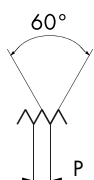
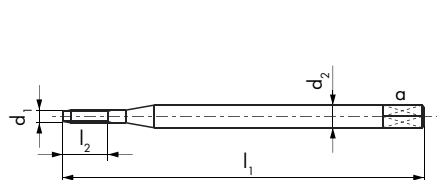
FA83VS



VS

FA80VS

FA83VS



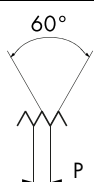
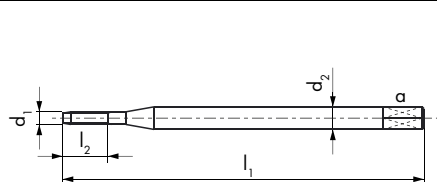
$\emptyset d_1$ UNF	P TPI	d mm	l mm	l ₂ mm	d ₂ mm	a mm	
0	80	1.52	40	4.6	2.5		$\Delta 1.4$
1	72	1.85	40	5.6	2.5		$\Delta 1.7$
2	64	2.18	45	9	2.8	2.1	$\Delta 2$
3	56	2.51	50	10	2.8	2.1	$\Delta 2.3$

Δ Tol. = +0/0.02 mm

ID

ID

● 193785	● 193825
● 193786	● 193826
● 193787	● 193827
● 193788	● 193828



$\emptyset d_1$ UNF	P TPI	d mm	l mm	l ₂ mm	d ₂ mm	a mm	
0	80	1.52	40	4.6	2.5		$\Delta 1.4$
1	72	1.85	40	5.6	2.5		$\Delta 1.7$
2	64	2.18	45	9	2.8	2.1	$\Delta 2$
3	56	2.51	50	10	2.8	2.1	$\Delta 2.3$

Δ Tol. = +0/0.02 mm

ID

ID

● 193789	● 193829
● 193790	● 193830
● 193791	● 193831
● 193792	● 193832



FA

FA80VS



VS

FA83VS

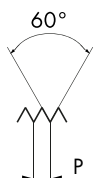
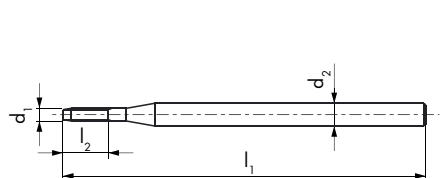


VS



FA80VS

FA83VS



Ø d ₁ S	P mm	l ₁ mm	l ₂ mm	d ₂ mm	
0.5	0.125	25	1.5	2	Δ 0.44
0.6	0.15	25	1.8	2	Δ 0.53
0.7	0.175	25	2.1	2	Δ 0.62
0.8	0.2	25	2.4	2	Δ 0.71
0.9	0.225	25	2.7	2	Δ 0.8
1	0.25	40	3.0	2.5	Δ 0.88
1.2	0.25	40	3.6	2.5	Δ 1.08
1.4	0.3	40	4.2	2.5	Δ 1.25

Δ Tol. = +0/-0.02 mm

ID

ID

● 158977	● 173724
● 151561	● 173725
● 151742	● 173726
● 151564	● 173727
● 151562	● 173728
● 151542	● 173732
● 151543	● 173733
● 152427	● 173734

FA

FA80VS

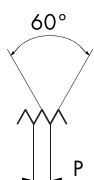
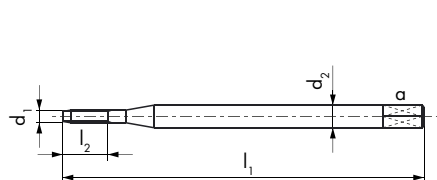


FA83VS



FA80VS

FA83VS



Ø d ₁ SF	P mm	l ₁ mm	l ₂ mm	d ₂ mm	a mm	
1.4	0.2	40	4.2	2.5		^Δ 1.31
1.6	0.2	40	4.8	2.5		^Δ 1.51
1.8	0.2	40	5.4	2.5		^Δ 1.71
2	0.2	45	6	2.8	2.1	^Δ 1.91
2.2	0.2	45	6.6	2.8	2.1	^Δ 2.11
2.2	0.25	45	6.6	2.8	2.1	^Δ 2.08
2.5	0.2	50	7.5	2.8	2.1	^Δ 2.41
2.5	0.25	50	7.5	2.8	2.1	^Δ 2.38

^Δ  Tol. = +0/0.02 mm

ID

ID

● 176180	● 193793
● 193757	● 193794
● 193758	● 193795
● 193759	● 193796
● 193760	● 193797
● 193761	● 193798
● 193762	● 193799
● 193763	● 193800

FA

FA80VS



VS



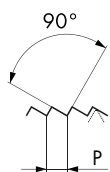
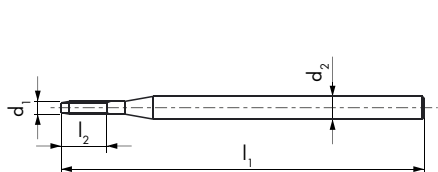
FA83VS



VS

FA80VS

FA83VS



$\emptyset d_1$ SL	P mm	l_1 mm	l_2 mm	d_2 mm
0.5	0.1	25	1.5	2
0.6	0.125	25	1.8	2
0.7	0.15	25	2.1	2
0.8	0.15	25	2.4	2
0.9	0.175	25	2.7	2
1	0.2	40	3	2.5
1.2	0.2	40	3.6	2.5
1.4	0.25	40	4.2	2.5

ID

ID

• 600049	• 600100
• 600050	• 600101
• 600051	• 600102
• 600052	• 600103
• 600053	• 600104
• 600054	• 600105
• 600055	• 600106
• 600056	• 600107

CFA

CFA80VS



VS

62 63 91 92 94

CFA83VS



VS

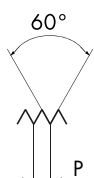
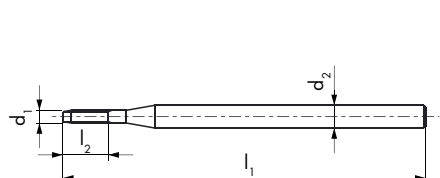
CFA80VS

CFA83VS



4HX

4HX



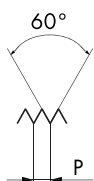
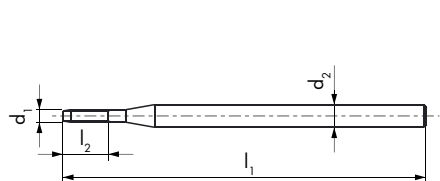
Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ h ₅ mm	
0.5	0.125	32	1.5	1.5	Δ 0.44
0.6	0.15	32	1.8	1.5	Δ 0.53
0.7	0.175	32	2.1	1.5	Δ 0.62
0.8	0.2	32	2.4	1.5	Δ 0.71
0.9	0.225	32	2.7	1.5	Δ 0.8
1	0.25	32	3	2	Δ 0.88
1.2	0.25	32	3.6	2	Δ 1.08
1.4	0.3	32	4.2	2	Δ 1.25

Δ Tol. = +0/0.02 mm

ID

ID

● 171771	● 193611
● 171773	● 193612
● 171775	● 193613
● 171777	● 193614
● 171779	● 193615
● 171782	● 193616
● 171783	● 193617
● 171785	● 193618



Ø d ₁ M	P mm	l ₁ mm	l ₂ mm	d ₂ h ₅ mm	
1.6	0.35	32	4.8	2	Δ 1.45
1.8	0.35	32	5.4	2	Δ 1.65
2	0.4	39	8	3	Δ 1.8
2.3	0.4	39	9	3	Δ 2.1
2.5	0.45	39	10	3	Δ 2.3
2.6	0.45	39	10	3	Δ 2.4

Δ Tol. = +0/0.02 mm

6HX

6HX

ID

ID

● 193590	● 193619
● 193591	● 193620
● 193592	● 193621
● 193593	● 193622
● 193594	● 193623
● 193595	● 193624



CFA

CFA80VS



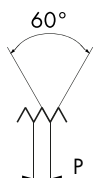
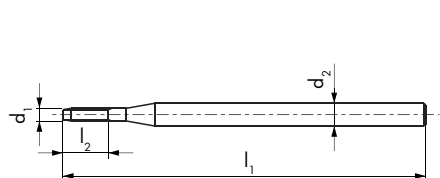
62 63 91 92 94

CFA83VS



CFA80VS

CFA83VS



Ø d UNC	P TPI	d mm	l mm	l mm	d ₂ h5 mm	
1	64	1.85	32	5.5	2	Δ 1.65
2	56	2.18	39	8.6	3	Δ 2
3	48	2.51	39	10	3	Δ 2.25

ID

ID

● 193596

● 193625

● 193597

● 193626

● 193598

● 193627

Δ Tol. = +0/0.02 mm



CFA

CFA80VS



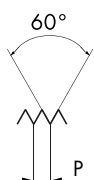
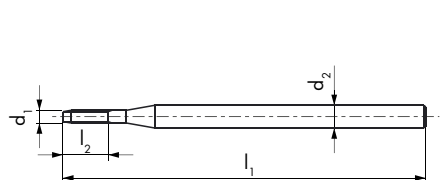
62 63 91 92 94

CFA83VS



CFA80VS

CFA83VS



Ø d ₁ UNF	P TPI	d ₁ mm	l ₁ mm	l ₂ mm	d ₂ h5 mm	
0	80	1.52	32	4.5	2	Δ 1.4
1	72	1.85	32	5.5	2	Δ 1.7
2	64	2.18	39	8.6	3	Δ 2
3	56	2.51	39	10	3	Δ 2.3

Δ Tol. = +0/0.02 mm

ID

ID

● 193599

● 193628

● 193600

● 193629

● 193601

● 193630

● 193602

● 193631



CFA

CFA80VS



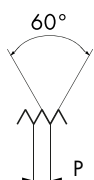
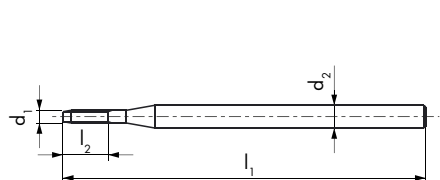
62 63 91 92 94

CFA83VS



CFA80VS

CFA83VS



$\emptyset d_1$ S	P mm	l_1 mm	l_2 mm	d_2 h5 mm	
0.5	0.125	32	1.5	1.5	$\Delta 0.44$
0.6	0.15	32	1.8	1.5	$\Delta 0.53$
0.7	0.175	32	2.1	1.5	$\Delta 0.62$
0.8	0.2	32	2.4	1.5	$\Delta 0.71$
0.9	0.225	32	2.7	1.5	$\Delta 0.8$
1	0.25	32	3	2	$\Delta 0.88$
1.2	0.25	32	3.6	2	$\Delta 1.08$
1.4	0.3	32	4.2	2	$\Delta 1.25$

Δ Tol. = +0/0.02 mm

ID

ID

171770	193603
171772	193604
171774	193605
171776	193606
171778	193607
171780	193608
171781	193609
171784	193610

GEWINDELEHREN NANO — NANO THREAD GAUGES

GEWINDELEHRDORNE — THREAD PLUG GAUGES



MESSTECHNIK — METROLOGY



GO



NO-GO

PRODUKTION — PRODUCTION



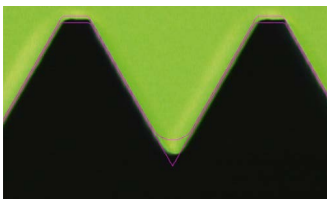
GO

< 2.74 mm



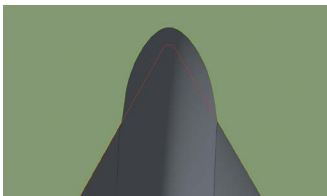
EINSATZ

Der erste unvollständige Gewindegang und die Frontfläche der Lehre sind hochpräzise und passgenau geschliffen – eine entscheidende Voraussetzung für korrekte Messergebnisse und die Überprüfung der Gewinde auf einer grösstmöglichen Länge.



PROFILKONTROLLE

Dank unserer Kompetenz auf dem Gebiet des Schleifens können wir die perfekte Einhaltung der Toleranzen des Gewindeprofils und eine einwandfreie Oberflächenqualität gewährleisten.



NO-GO-GEWINDELEHRRING

Unsere NO-GO-Lehrringe gewährleisten eine exakte Kontrolle der Gewindeflanken von Schrauben: ihr freigestochener Aussendurchmesser verhindert Fehlmessungen durch blockierende Schrauben am Aussendurchmesser während des Prüfvorgangs.



MODULARES SYSTEM

Bei Bedarf kann die GO-Gewindelehre mit einem Verbindungsstück mit der NO-GO-Lehre zusammengeschraubt werden. In ihrer stabilen Verpackung lassen sich die Lehren sicher transportieren. Der mit Aussparungen versehene Schaumstoffeinsatz schützt die Werkzeuge vor Beschädigungen und Schmutz.

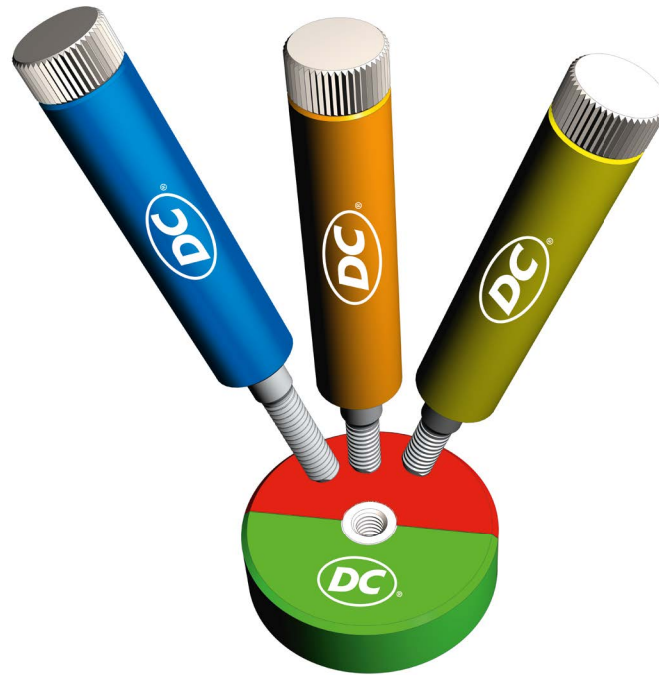
PRÜF-GEWINDELEHRDORNE — PLUG CHECK GAUGES

Der **NO-GO**-Prüf-Gewindelehrdorn dient zur Kontrolle des neuwertigen Lehrings.

The **NO-GO** plug check gauge is the foolproofing device for the new ring gauge.

Mit dem **GO**-Prüf-Gewindelehrdorn überprüfen Sie die Qualität Ihres Lehrings.

The **GO** plug check gauge is used to check the quality of your ring gauge.



Der Verschleisslehrdorn **WEAR** verlängert die Lebensdauer Ihres Lehrings bis zu einem festgelegten Schwellenwert.

The master plug gauge **WEAR** will extend the service life of your ring gauge up to a certain tolerance limit.

UTILISATION

The fact that the initial turn of the screw thread and also the tip of the gauge have been ground flat ensures that the tool engages optimally in the thread, which is essential for ensuring a correct measurement. This enables the gauge to check the thread at its maximum depth.

PROFILE CONTROL

Our expertise in the field of rectification ensures we have perfect control of tolerances for the shape of the profile and for surface textures.

NO-GO RING GAUGE

The cut-away on the exterior diameter of our NO-GO ring gauges ensures the sides of the screw can be optimally checked, eliminating the risk of any incorrect inspection caused by a blockage on the exterior diameter of the gauge.

MODULAR SYSTEM

A coupling screw enables the GO gauge to be connected to the NO-GO section as required. The rigid box protects the gauges during transportation. Its moulded interior keeps the product clean and protects it from impacts.

DAS SCS-ZERTIFIKAT

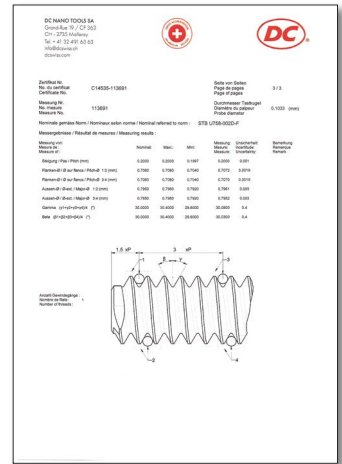


Ein Zertifikat ist ein schriftlicher Nachweis über die Qualität der im Unternehmen eingesetzten Messinstrumente. DC NANO TOOLS SA (Akkreditierung SCS 0143), ein Mitglied der DC SWISS Holding, bietet Ihnen die Prüfung und Kalibrierung Ihrer Gewindelehren nach der internationalen Norm ISO 17025 an.

Diese kostenpflichtige Dienstleistung wird für Flankendurchmesser von 0.1 bis 3.0 mm und für Aussendurchmesser von 0.1 bis 3.5 mm angeboten.

Alle Lehrdorne sind SCS-zertifiziert.

ISO 17025:2017 akkreditiert © DC NANO TOOLS SA



SCS MEASUREMENT CERTIFICATE



A certificate is written confirmation of the quality of a company's metrological equipment. DC NANO TOOLS SA (SCS accreditation 0143), a member of the DC SWISS Group, can inspect and calibrate thread gauges for you in accordance with the ISO 17025 international standard.

This chargeable service is available for pitch diameters of 0.1 to 3.0 mm and external diameters of 0.1 to 3.5 mm.

All plug thread gauges are SCS certified.

ISO 17025:2017 accredited © DC NANO TOOLS SA

SO ERHALTEN SIE IHR KONFORMITÄT SZERTIFIKAT ONLINE

Ab sofort können Sie Ihr Konformitätszertifikat von überall direkt per Smartphone anfordern. Dazu scannen Sie einfach den QR-Code auf der Karte, die der Box beiliegt und laden die PDF-Datei im Anhang herunter.

Der mit jeder Box gelieferte Konformitätsnachweis bestätigt, dass am Ende der Fertigung eine sorgfältige Kontrolle durchgeführt wurde.

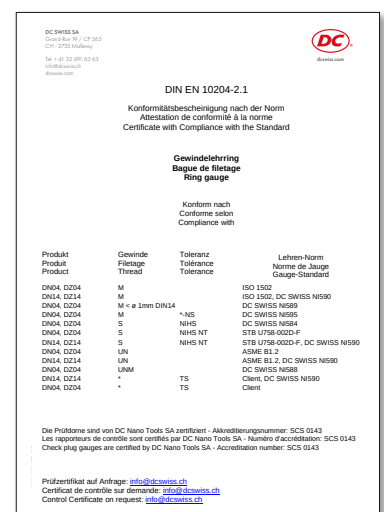
Qualitätskontrolle DC SWISS SA

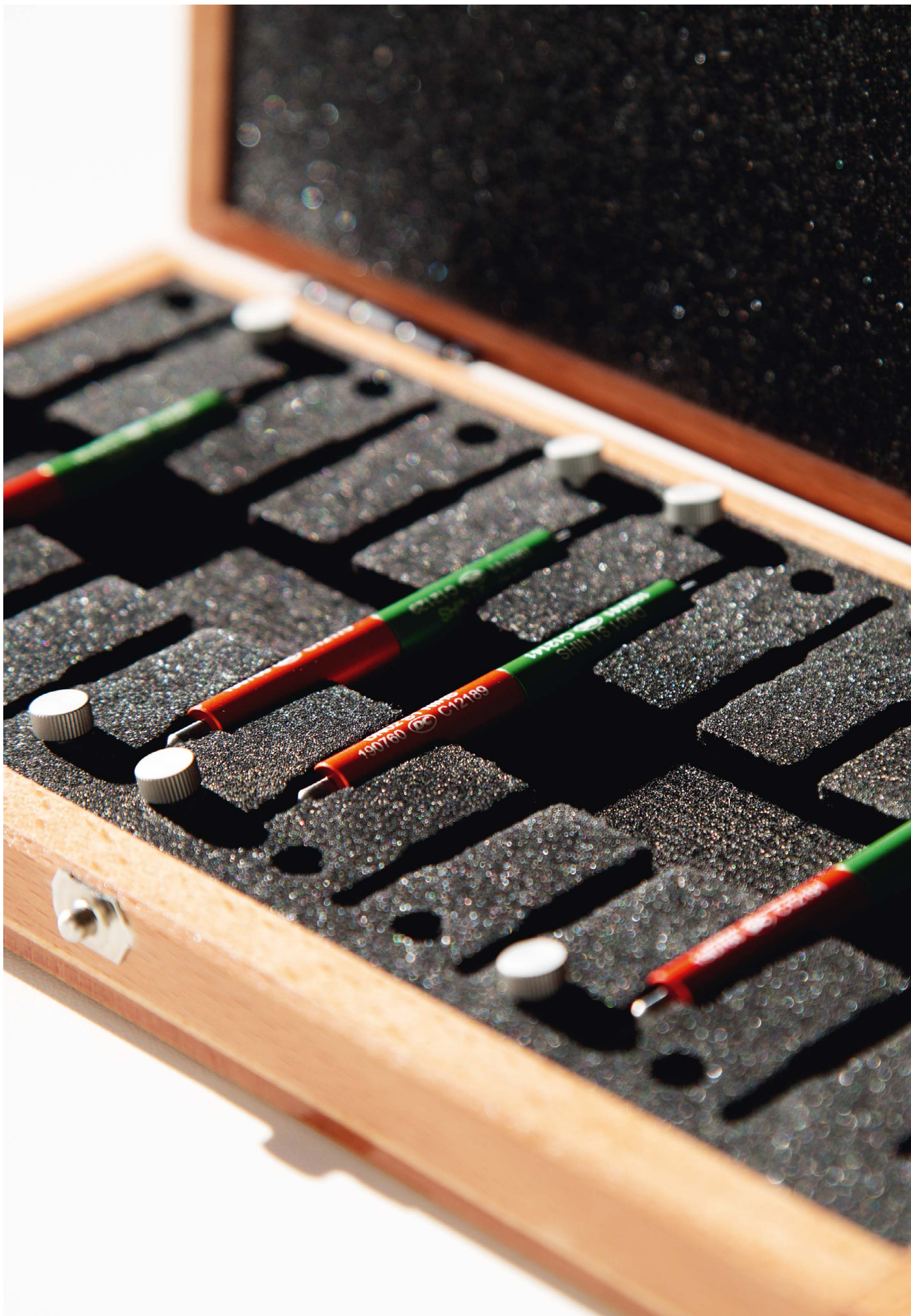
DOWNLOAD YOUR CONFIRMATION OF COMPLIANCE

You can now access your confirmation of compliance any time, at any place on your phone. Simply scan the QR code on the card inside the box and download the associated pdf file.

The confirmation of compliance accompanying each box confirms that the factory has scrupulously followed the post-production monitoring process.

DC SWISS SA quality control





VERFÜGBARE SETS — AVAILABLE SETS



GEWINDELEHRDORNE DN / GEWINDELEHRRINGE DN
THREAD PLUG GAUGES & RING GAUGES DN

EINHEITS-SET — SINGLE SET



GEWINDELEHRRINGE DZ
THREAD RING GAUGES DZ

EINHEITS-SET — SINGLE SET



GEWINDELEHRDORNE DN / GEWINDELEHRRINGE DN
PLUG GAUGES DN / RING GAUGES DN

10- ODER 20-TEILIGES SET
SET OF 10 OR 20 ITEMS

Für jedes Set können Sie die gewünschte Anzahl
GO / NO-GO-Gewindelehren bestimmen.

Wenden Sie sich gerne an uns wenn Sie
eine andere Zusammenstellung wünschen.

You can select the exact number of
GO / NO-GO thread gauges for each set.

Contact us for any other set compositions.

dcswiss.com / info@dcswiss.ch / +41 32 491 63 63

BESTELLUNG NANO-GEWINDELEHREN — NANO THREAD GAUGES ORDER

WERKZEUGTYP — TOOL TYPE

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MERKMALE — CHARACTERISTICS

ABMESSUNG DIMENSION	TOLERANZ TOLERANCE	NORM NORM	MENGE QUANTITY	SPEZIELLES SPECIFICS

BEMERKUNGEN — REMARKS

LIEFERINFORMATIONEN — DELIVERY INFORMATION

Bitte visieren Sie Ihre Bestellung.
Thank you for initialing your order.



Inhaltsverzeichnis — Gewindelehren NANO für die Mikromechanik und die Uhrenindustrie
Directory — Thread gauges NANO for micromechanics and watchmaking

		Gewindelehrdorne Thread plug gauges			Gewindelehrringe Thread ring gauges				Prüf-Gewindelehrdorne Plug check gauges			
Merkmale Characteristics												
					 							
Typ Type		DN01 GO	DN01 GO	DN02 NO-GO	DZ04 GO	DZ14 NO-GO	DN04 GO	DN14 NO-GO	RN05-1 GO	RN15-1 GO	RN05-2 NO-GO	RN15-2 NO-GO
M 4H / 5h	ISO DIN 14 ISO DIN 13		382	382	383	383	384	384	399	399	400	400
M 6H / 6g	ISO DIN 13		382	382	383	383	384	384	399	399	400	400
M 5H / 6h	ISO DIN 13		382	382	383	383	384	384	399	399	400	400
MF 4H / 4h	ISO DIN 13		385	385	386	386	387	387	402	402	403	403
MF 6H / 6g	ISO DIN 13		385	385	386	386	387	387	402	402	403	403
MF 6h	ISO DIN 13				386	386	387	387	402	402	403	403
UNC 2B / 2A	ASME B1.1		388	388	389	389	390	390	405	405	406	406
UNC 3B / 3A	ASME B1.1		388	388	389	389	390	390	405	405	406	406
UNF 2B / 2A	ASME B1.1		388	388	389	389	390	390	405	405	406	406
UNF 3B / 3A	ASME B1.1		388	388	389	389	390	390	405	405	406	406
S NIHS 3G	NIHS	391										
S NIHS 4H	NIHS		391									
S NIHS 4H / 3G	NIHS			391								
S NIHS	NIHS				393	393	394	394	407	407	408	408
S NIHS NT	NIHS		392	392	393	393	394	394	407	407	408	408
SF NIHS 3G	NIHS	395										
SF NIHS 4H	NIHS		395									
SF NIHS 4H / 3G	NIHS			395								
SF NIHS	NIHS				396	396	397	397	409	409	410	410
SF NIHS NT	NIHS								409	409	410	410
SL	SL 15-01		398	398								

Inhaltsverzeichnis — Gewindelehren NANO für die Mikromechanik und die Uhrenindustrie

Directory — Thread gauges NANO for micromechanics and watchmaking

	Abnutzungsprüfdorne Master plug gauges WEAR	Kalibrier-Gewindelehrdorne Calibration thread plug gauges	
Merkmale Characteristics			
			
Typ Type	RN05-3 WEAR	RN15-3 WEAR	EN00
M 4H / 5h	ISO DIN 14 ISO DIN 13		
M 6H / 6g	ISO DIN 14 ISO DIN 13	401	401
M 5H / 6h	ISO DIN 13	401	401
MF 4H / 4h	ISO DIN 13	404	404
MF 6H / 6g	ISO DIN 13	404	404
MF 6h	ISO DIN 13	404	404
S NIHS	NIHS		411

Piktogramme - Pictographs



"Gut"

"Go"



"Ausschuss"

"No-Go"



Toleranz 6H, "Gut"

Tolerance 6H, "Go"



Toleranz 6g, "Ausschuss"

Tolerance 6g, "No-Go"



Max. Messlänge l2 darf nicht überschritten werden

Max. measuring length l2 must not be exceeded



Phynox KL

Phynox KL



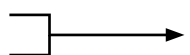
Alle Gewindelehren sind auf Anfrage auch für Linksgewinde lieferbar

All gauges can be supplied with a left-hand thread upon request

Einsatz — Use



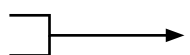
RN05-1
RN05-2



DN04/DZ04



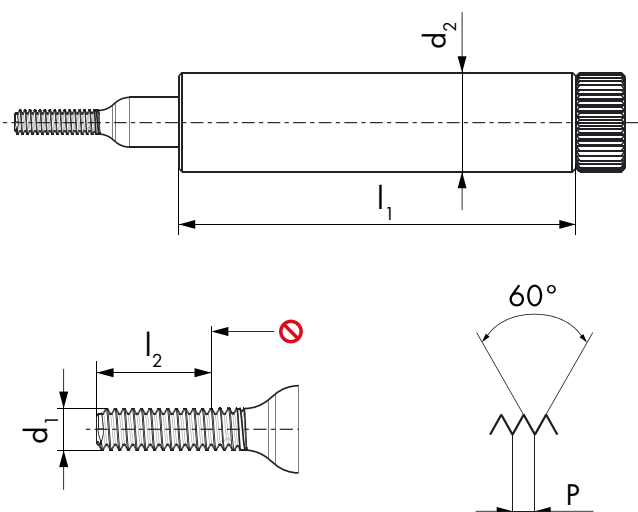
RN15-1
RN15-2



DN14/DZ14



nano



DN01 GO

DN02 NO-GO

DN01 GO

DN02 NO-GO



4H

4H

5H

5H

$\emptyset d_1$ M	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID	ID	ID
0.3	0.08	24	0.9	6	● 192778	● 192786		
0.35	0.09	24	1.05	6	● 192779	● 192787		
0.4	0.1	24	1.2	6	● 192780	● 192788		
0.5	0.125	24	1.5	6	● 192781	● 192789		
0.6	0.15	24	1.8	6	● 192782	● 192790		
0.7	0.175	24	2.1	6	● 192783	● 192791		
0.8	0.2	24	2.4	6	● 192784	● 192792		
0.9	0.225	24	2.7	6	● 192785	● 192793		
1	0.25	24	3	6	● 191113	● 191127	● 191421	● 191424
1.2	0.25	24	3.6	6	● 191114	● 191128	● 191422	● 191425
1.4	0.3	24	4.2	6	● 191115	● 191129	● 191423	● 191426

6H

6H

$\emptyset d_1$ M	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID
1.6	0.35	24	4.5	6	● 191427	● 191433
1.8	0.35	24	4.5	6	● 191428	● 191434
2	0.4	24	4.5	6	● 191429	● 191435
2.3	0.4	24	4.5	6	● 191430	● 191436
2.5	0.45	24	4.5	6	● 191431	● 191437
2.6	0.45	24	4.5	6	● 191432	● 191438



All nano thread plug gauges are SCS-certified and the paid certificate is available on request.

nano

DZ04 GO

DZ14 NO-GO

DZ04 GO

DZ14 NO-GO

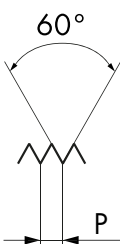
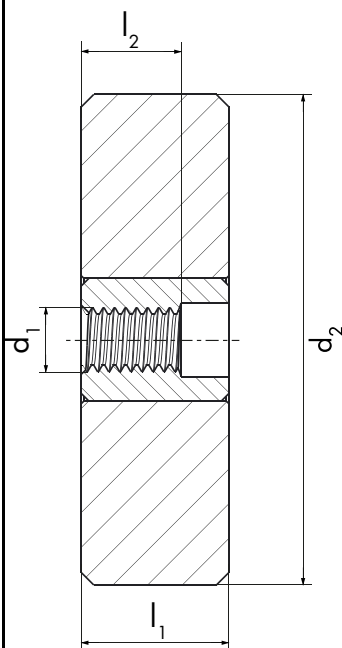


5h

5h

6h

6h



$\emptyset d_1$ M	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID	ID	ID
* 0.3	0.08	6	0.45	20	● 192842	● 192850		
* 0.35	0.09	6	0.53	20	● 192843	● 192851		
0.4	0.1	6	0.6	20	● 192844	● 192852		
0.5	0.125	6	0.75	20	● 192845	● 192853		
0.6	0.15	6	0.9	20	● 192846	● 192854		
0.7	0.175	6	1.05	20	● 192847	● 192855		
0.8	0.2	6	1.2	20	● 192848	● 192856		
0.9	0.225	6	1.35	20	● 192849	● 192857		
1	0.25	6	1.5	20			● 191473	● 191476
1.2	0.25	6	1.8	20			● 191474	● 191477
1.4	0.3	6	2.1	20			● 191475	● 191478
* In development								

6g

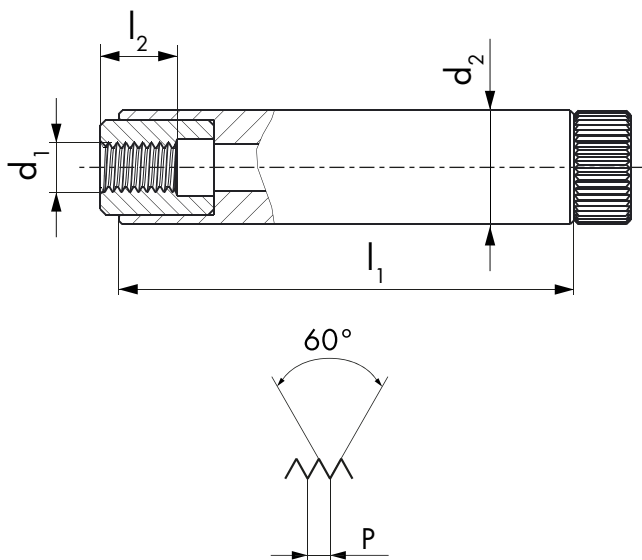
6g

$\emptyset d_1$ M	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID
1.6	0.35	6	2.4	20	● 191479	● 191485
1.8	0.35	6	2.7	20	● 191480	● 191486
2	0.4	6	3	20	● 191481	● 191487
2.3	0.4	6	3.45	20	● 191482	● 191488
2.5	0.45	6	3.75	20	● 191483	● 191489
2.6	0.45	6	3.9	20	● 191484	● 191490



All nano ring gauges have a certificate of measurement, established with SCS certified plug check gauges.
The paid certificate is available on request.

nano



DN04 GO

DN14 NO-GO

DN04 GO

DN14 NO-GO



5h

5h

6h

6h

$\emptyset d_1$ M	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID	ID	ID
* 0.3	0.08	24	0.45	6	● 192800	● 192808		
* 0.35	0.09	24	0.53	6	● 192801	● 192809		
0.4	0.1	24	0.6	6	● 192802	● 192810		
0.5	0.125	24	0.75	6	● 192803	● 192811		
0.6	0.15	24	0.9	6	● 192804	● 192812		
0.7	0.175	24	1.05	6	● 192805	● 192813		
0.8	0.2	24	1.2	6	● 192806	● 192814		
0.9	0.225	24	1.35	6	● 192807	● 192815		
1	0.25	24	1.5	6			● 191447	● 191450
1.2	0.25	24	1.8	6			● 191448	● 191451
1.4	0.3	24	2.1	6			● 191449	● 191452
* In development								

6g

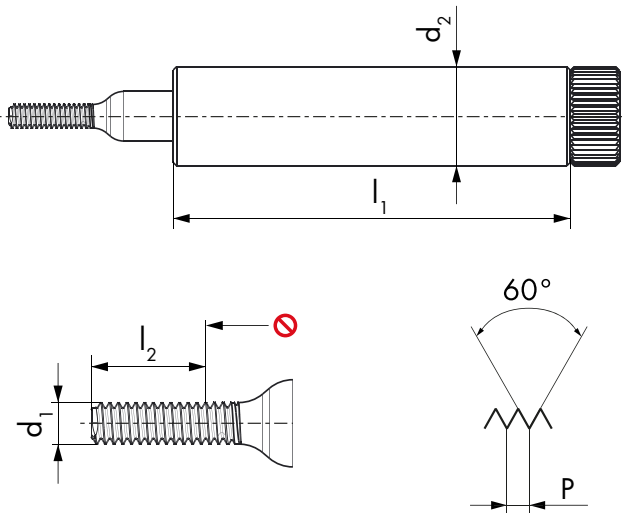
6g

$\emptyset d_1$ M	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID
1.6	0.35	24	2.4	6	● 191453	● 191459
1.8	0.35	24	2.7	6	● 191454	● 191460
2	0.4	24	3	6	● 191455	● 191461
2.3	0.4	24	3.45	6	● 191456	● 191462
2.5	0.45	24	3.75	6	● 191457	● 191463
2.6	0.45	24	3.9	6	● 191458	● 191464



All nano ring gauges have a certificate of measurement, established with SCS certified plug check gauges.
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nano



DN01 GO

DN02 NO-GO

DN01 GO

DN02 NO-GO



4H

4H

6H

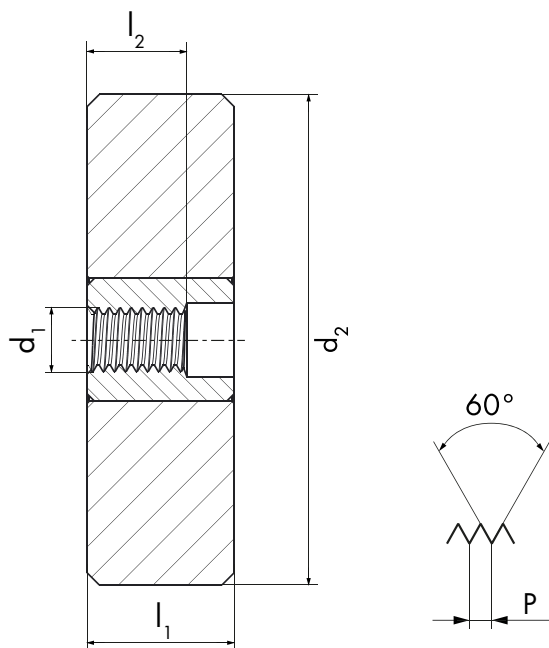
6H

Ø d ₁ MF	P mm	l ₁ mm	l ₂ GO mm	d ₂ mm	ID	ID	ID	ID
1.4	0.2	24	4.2	6	● 191116	● 191130		
1.6	0.2	24	3	6	● 191117	● 191131		
1.8	0.2	24	3	6	● 191118	● 191132		
2	0.2	24	3	6	● 191119	● 191133		
2	0.25	24	3	6	● 192794	● 192797		
2.2	0.2	24	3	6	● 191120	● 191134		
2.2	0.25	24	3	6	● 191121	● 191135		
2.3	0.2	24	3	6	● 191122	● 191136		
2.3	0.25	24	3	6	● 191123	● 191137		
2.5	0.2	24	3	6	● 191124	● 191138		
2.5	0.25	24	3	6	● 191125	● 191139		
2.5	0.35	24	4.5	6			● 192795	● 192798
2.6	0.35	24	4.5	6			● 192796	● 192799



All nano thread plug gauges are SCS-certified and the paid certificate is available on request.

nano



DZ04 GO

DZ14 NO-GO

DZ04 GO

DZ14 NO-GO



4h

4h

6g

6g

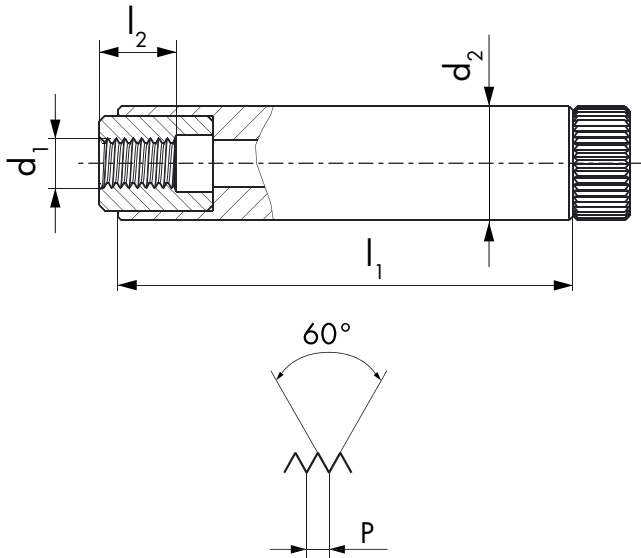
Ø d ₁ MF	P mm	l ₁ mm	l ₂ GO mm	d ₂ mm	ID	ID	ID	ID
1.4	0.2	6	2.1	20	● 194887	● 194888	● 192858 ¹	● 192871 ¹
1.6	0.2	6	1.8	20	● 191201	● 191215	● 191229	● 191243
1.8	0.2	6	1.8	20	● 191202	● 191216	● 191230	● 191244
2	0.2	6	1.8	20	● 190711	● 190710	● 191231	● 191245
2	0.25	6	2.25	20	● 194872	● 190690	● 194876	● 194877
2.2	0.2	6	1.8	20	● 191204	● 191218	● 191232	● 191246
2.2	0.25	6	2.25	20	● 191205	● 191219	● 191233	● 191247
2.3	0.2	6	1.8	20	● 191206	● 191220	● 191234	● 191248
2.3	0.25	6	2.25	20	● 191207	● 191221	● 191235	● 191249
2.5	0.2	6	1.8	20	● 191208	● 191222	● 191236	● 191250
2.5	0.25	6	2.25	20	● 194873	● 191223	● 191237	● 191251
2.5	0.35	6	3.75	20			● 192869	● 192882
2.6	0.35	6	3.9	20			● 192870	● 192883

¹ Tol. 6h



All nano ring gauges have a certificate of measurement, established with SCS certified plug check gauges. The paid certificate is available on request.

nano



DN04 GO

DN14 NO-GO

DN04 GO

DN14 NO-GO



4h

4h

6g

6g

Ø d ₁ MF	P mm	l ₁ mm	l ₂ GO mm	d ₂ mm	ID	ID	ID	ID
1.4	0.2	24	2.1	6	● 194885	● 194886	● 192816 ¹	● 192829 ¹
1.6	0.2	24	1.8	6	● 191145	● 191159	● 191173	● 191187
1.8	0.2	24	1.8	6	● 191146	● 191160	● 191174	● 191188
2	0.2	24	1.8	6	● 191147	● 191161	● 191175	● 191189
2	0.25	24	2.25	6	● 194870	● 194871	● 194874	● 194875
2.2	0.2	24	1.8	6	● 191148	● 191162	● 191176	● 191190
2.2	0.25	24	2.25	6	● 191149	● 191163	● 191177	● 191191
2.3	0.2	24	1.8	6	● 191150	● 191164	● 191178	● 191192
2.3	0.25	24	2.25	6	● 191151	● 191165	● 191179	● 191193
2.5	0.2	24	1.8	6	● 191152	● 191166	● 191180	● 191194
2.5	0.25	24	2.25	6	● 191153	● 191167	● 191181	● 191195
2.5	0.35	24	3.75	6			● 192827	● 192840
2.6	0.35	24	3.9	6			● 192828	● 192841

¹ Tol. 6h



All nano ring gauges have a certificate of measurement, established with SCS certified plug check gauges. The paid certificate is available on request.

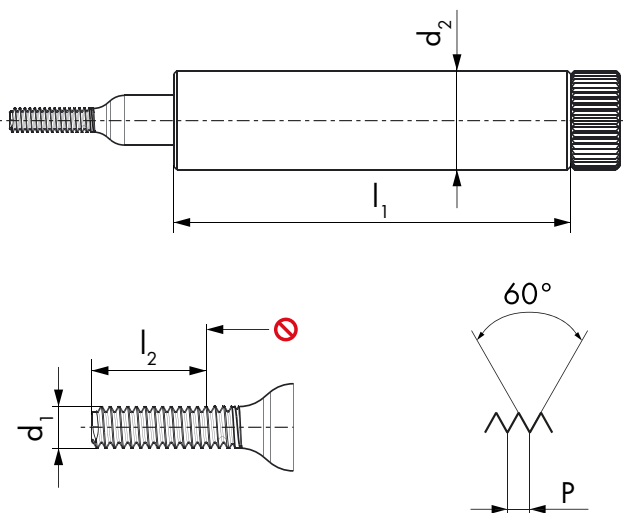
UNC, UNF

ASME B1.1

ASME B1.2

VHM
CAR

nano



DN01 GO

DN02 NO-GO

DN01 GO

DN02 NO-GO



2B

2B

3B

3B

$\emptyset d_1$ UNC	P TPI	$\emptyset d_1$ mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID	ID	ID
1	64	1.854	24	6.35	6	● 191577	● 191580	● 191583	● 191586
2	54	2.184	24	6.35	6	● 191578	● 191581	● 191584	● 191587
3	48	2.515	24	6.35	6	● 191579	● 191582	● 191585	● 191588
$\emptyset d_1$ UNF	P TPI	$\emptyset d_1$ mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID	ID	ID
0	80	1.524	24	4.76	6	● 191637	● 191641	● 191645	● 191649
1	72	1.854	24	4.76	6	● 191638	● 191642	● 191646	● 191650
2	64	2.184	24	4.76	6	● 191639	● 191643	● 191647	● 191651
3	56	2.515	24	4.76	6	● 191640	● 191644	● 191648	● 191652



All nano thread plug gauges are SCS-certified and the paid certificate is available on request.

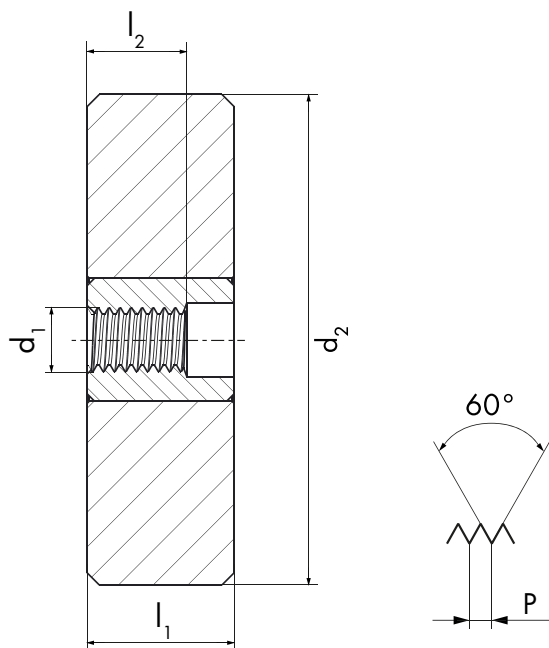
UNC, UNF

ASME B1.1

DZ04: ASME B1.2 / DZ14: ASME B1.2, DC SWISS NI590

PHYN.
KL

nano



DZ04 GO

DZ14 NO-GO

DZ04 GO

DZ14 NO-GO



2A

2A

3A

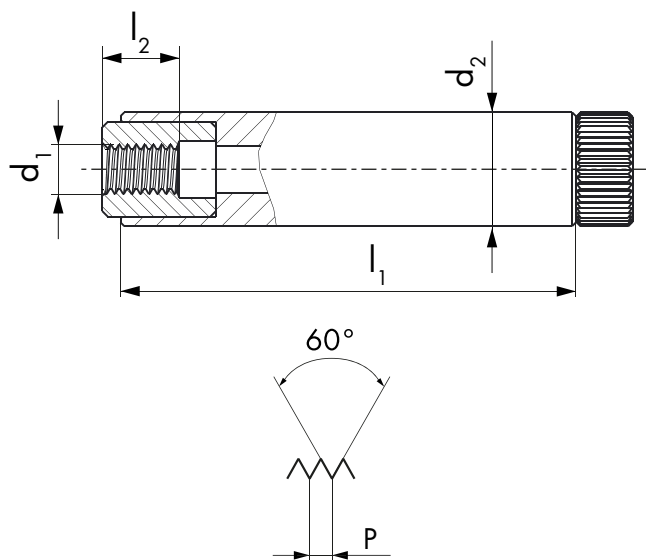
3A

$\emptyset d_1$ UNC	P TPI	$\emptyset d_1$ mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID	ID	ID
1	64	1.854	6	2.78	20	● 191601	● 191604	● 191607	● 191610
2	56	2.184	6	3.28	20	● 191602	● 191605	● 191608	● 191611
3	48	2.515	6	3.77	20	● 191603	● 191606	● 191609	● 191612
$\emptyset d_1$ UNF	P TPI	$\emptyset d_1$ mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID	ID	ID
0	80	1.524	6	2.29	20	● 191669	● 191673	● 191677	● 191681
1	72	1.854	6	2.78	20	● 191670	● 191674	● 191678	● 191682
2	64	2.184	6	3.28	20	● 191671	● 191675	● 191679	● 191683
3	56	2.515	6	3.77	20	● 191672	● 191676	● 191680	● 191684



All nano ring gauges have a certificate of measurement, established with SCS certified plug check gauges.
The paid certificate is available on request.

nano



DN04 GO

DN14 NO-GO

DN04 GO

DN14 NO-GO



2A

2A

3A

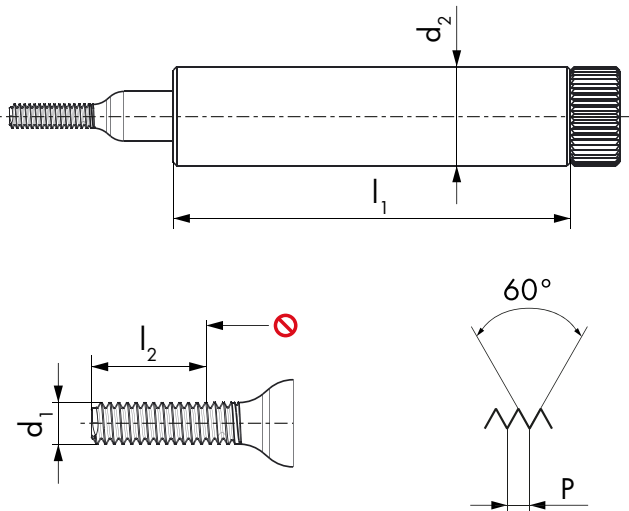
3A

$\emptyset d_1$ UNC	P TPI	$\emptyset d_1$ mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID	ID	ID
1	64	1.854	24	2.78	6	● 191589	● 191592	● 191595	● 191598
2	56	2.184	24	3.28	6	● 191590	● 191593	● 191596	● 191599
3	48	2.515	24	3.77	6	● 191591	● 191594	● 191597	● 191600
$\emptyset d_1$ UNF	P TPI	$\emptyset d_1$ mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID	ID	ID
0	80	1.524	24	2.29	6	● 191653	● 191657	● 191661	● 191665
1	72	1.854	24	2.78	6	● 191654	● 191658	● 191662	● 191666
2	64	2.184	24	3.28	6	● 191655	● 191659	● 191663	● 191667
3	56	2.515	24	3.77	6	● 191656	● 191660	● 191664	● 191668



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The paid certificate is available on request.

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DN01 GO

DN01 GO

DN02 NO-GO



NIHS
3G

NIHS
4H

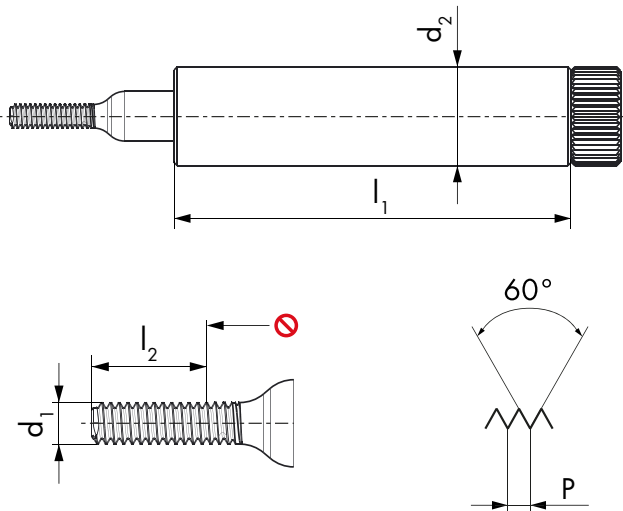
NIHS
4H/3G

$\emptyset d_1$ s	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID	ID
0.3	0.08	24	0.9	6	● 190733	● 193242	● 190752
0.35	0.09	24	1.05	6	● 190734	● 193243	● 190753
0.4	0.1	24	1.2	6	● 190735	● 193244	● 190754
0.5	0.125	24	1.5	6	● 190736	● 193245	● 190755
0.6	0.15	24	1.8	6	● 190737	● 193246	● 190756
0.7	0.175	24	2.1	6	● 190738	● 193247	● 190757
0.8	0.2	24	2.4	6	● 190739	● 193248	● 190758
0.9	0.225	24	2.7	6	● 190740	● 193249	● 190759
1	0.25	24	3	6	● 190741	● 193250	● 190760
1.2	0.25	24	3.6	6	● 190742	● 193251	● 190761
1.4	0.3	24	4.2	6	● 190743	● 193252	● 190762



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nano



DN01 GO

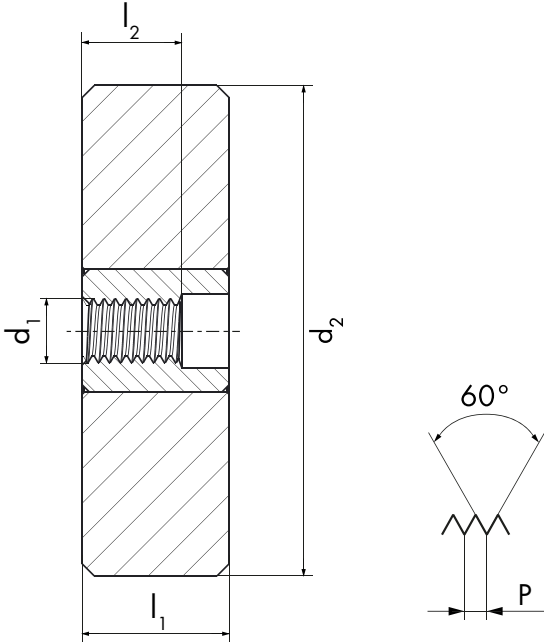
DN02 NO-GO



$\emptyset d_1$ S	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID
0.3	0.08	24	0.9	6	● 190771	● 190790
0.35	0.09	24	1.05	6	● 190772	● 190791
0.4	0.1	24	1.2	6	● 190773	● 190792
0.5	0.125	24	1.5	6	● 190774	● 190793
0.6	0.15	24	1.8	6	● 190775	● 190794
0.7	0.175	24	2.1	6	● 190776	● 190795
0.8	0.2	24	2.4	6	● 190777	● 190796
0.9	0.225	24	2.7	6	● 190778	● 190797
1	0.25	24	3	6	● 190779	● 190798
1.2	0.25	24	3.6	6	● 190780	● 190799
1.4	0.3	24	4.2	6	● 190781	● 190800

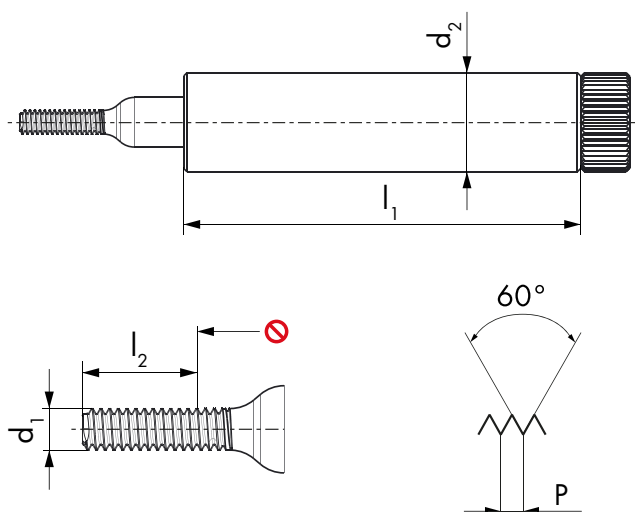


All nano thread plug gauges are SCS-certified and the paid certificate is available on request.

nano					DZ04 GO	DZ14 NO-GO	DZ04 GO	DZ14 NO-GO
								
					NIHS NIHS NIHS NT NIHS NT			
Ø d ₁ s	P mm	l ₁ mm	l ₂ GO mm	d ₂ mm	ID	ID	ID	ID
* 0.3	0.08	6	0.45	20	● 190809	● 190828	● 190847	● 190866
* 0.35	0.09	6	0.53	20	● 190810	● 190829	● 190848	● 190867
0.4	0.1	6	0.6	20	● 190811	● 190830	● 190849	● 190868
0.5	0.125	6	0.75	20	● 190812	● 190831	● 190850	● 190869
0.6	0.15	6	0.9	20	● 190813	● 190832	● 190851	● 190870
0.7	0.175	6	1.05	20	● 190814	● 190833	● 190852	● 190871
0.8	0.2	6	1.2	20	● 190815	● 190834	● 190853	● 190872
0.9	0.225	6	1.35	20	● 190816	● 190835	● 190854	● 190873
1	0.25	6	1.5	20	● 190817	● 190836	● 190855	● 190874
1.2	0.25	6	1.8	20	● 190818	● 190837	● 190856	● 190875
1.4	0.3	6	2.1	20	● 190819	● 190838	● 190857	● 190876
* In development								
 All nano ring gauges have a certificate of measurement, established with SCS certified plug check gauges. The paid certificate is available on request.								

nano					DN04 GO	DN14 NO-GO	DN04 GO	DN14 NO-GO
					NIHS NIHS NIHS NT NIHS NT			
$\varnothing d_1$ S	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID	ID	ID
* 0.3	0.08	24	0.45	6	● 190885	● 190904	● 190923	● 190942
* 0.35	0.09	24	0.53	6	● 190886	● 190905	● 190924	● 190943
0.4	0.1	24	0.6	6	● 190887	● 190906	● 190925	● 190944
0.5	0.125	24	0.75	6	● 190888	● 190907	● 190926	● 190945
0.6	0.15	24	0.9	6	● 190889	● 190908	● 190927	● 190946
0.7	0.175	24	1.05	6	● 190890	● 190909	● 190928	● 190947
0.8	0.2	24	1.2	6	● 190891	● 190910	● 190929	● 190948
0.9	0.225	24	1.35	6	● 190892	● 190911	● 190930	● 190949
1	0.25	24	1.5	6	● 190893	● 190912	● 190931	● 190950
1.2	0.25	24	1.8	6	● 190894	● 190913	● 190932	● 190951
1.4	0.3	24	2.1	6	● 190895	● 190914	● 190933	● 190952
*In development								
All nano ring gauges have a certificate of measurement, established with SCS certified plug check gauges. The paid certificate is available on request.								

nano



DN01 GO

DN01 GO

DN02 NO-GO

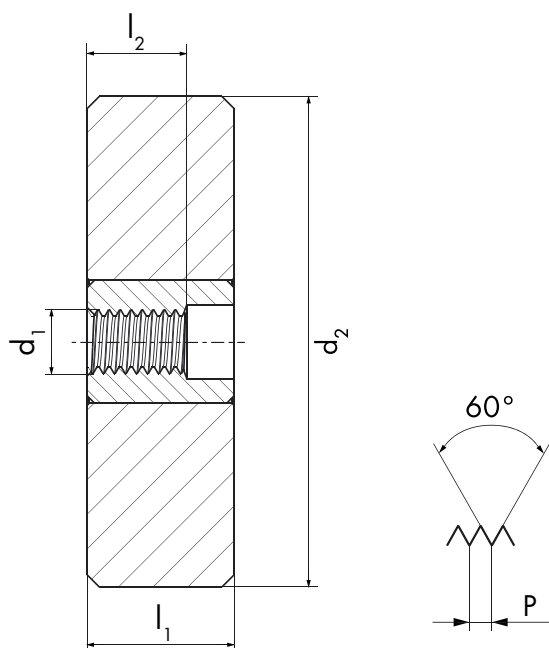


$\emptyset d_1$ SF	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID	ID
1.4	0.2	24	4.2	6	● 190744	● 193256	● 190763
1.6	0.2	24	3	6	● 190745	● 193257	● 190764
1.8	0.2	24	3	6	● 190746	● 193258	● 190765
2	0.2	24	3	6	● 190747	● 193259	● 190766
2.2	0.2	24	3	6	● 190748	● 193260	● 190767
2.2	0.25	24	3	6	● 190749	● 193261	● 190768
2.5	0.2	24	3	6	● 190750	● 193262	● 190769
2.5	0.25	24	3	6	● 190751	● 193263	● 190770



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nano



DZ04 GO

DZ14 NO-GO



NIHS

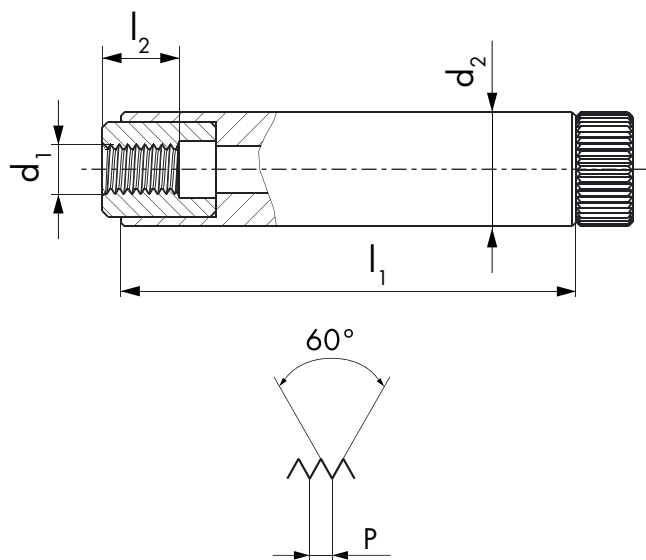
NIHS

$\emptyset d_1$ SF	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID
1.4	0.2	6	2.1	20	● 190820	● 190839
1.6	0.2	6	1.8	20	● 190821	● 190840
1.8	0.2	6	1.8	20	● 190822	● 190841
2	0.2	6	1.8	20	● 190823	● 190842
2.2	0.2	6	1.8	20	● 190824	● 190843
2.2	0.25	6	2.25	20	● 190825	● 190844
2.5	0.2	6	1.8	20	● 190826	● 190845
2.5	0.25	6	2.25	20	● 190827	● 190846



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DN04 GO

DN14 NO-GO



NIHS

NIHS

$\emptyset d_1$ SF	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID
1.4	0.2	24	2.1	6	● 190896	● 190915
1.6	0.2	24	1.8	6	● 190897	● 190916
1.8	0.2	24	1.8	6	● 190898	● 190917
2	0.2	24	1.8	6	● 190899	● 190918
2.2	0.2	24	1.8	6	● 190900	● 190919
2.2	0.25	24	2.25	6	● 190901	● 190920
2.5	0.2	24	1.8	6	● 190902	● 190921
2.5	0.25	24	2.28	6	● 190903	● 190922

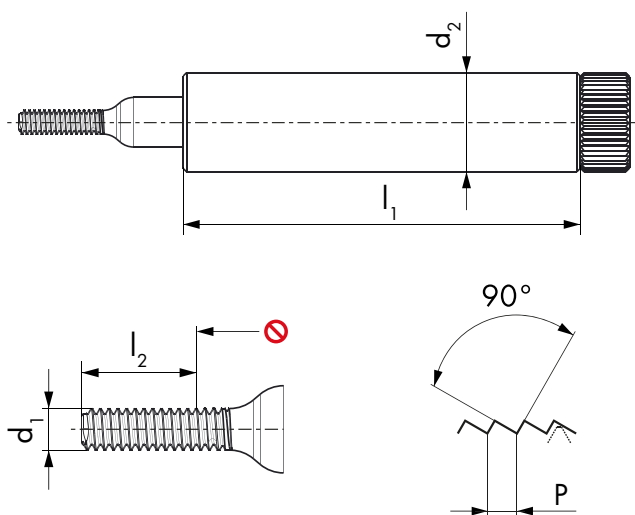


All nano ring gauges have a certificate of measurement, established with SCS certified plug check gauges.
The paid certificate is available on request.

nano

DN01 GO

DN02 NO-GO

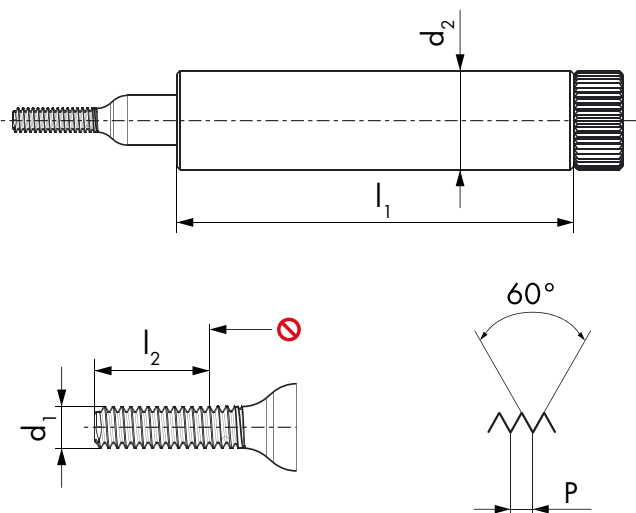


$\emptyset d_1$ SL	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID
0.5	0.1	24	1.5	6	● 600178	● 600186
0.6	0.125	24	1.8	6	● 600179	● 600187
0.7	0.15	24	2.1	6	● 600180	● 600188
0.8	0.15	24	2.4	6	● 600181	● 600189
0.9	0.175	24	2.7	6	● 600182	● 600190
1	0.2	24	3	6	● 600183	● 600191
1.2	0.2	24	3.6	6	● 600184	● 600192
1.4	0.25	24	4.2	6	● 600185	● 600193



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nano



RN05-1 GO

RN15-1 GO

RN05-1 GO

RN15-1 GO



5h

5h

6h

6h

$\emptyset d_1$ M	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID	ID	ID
0.3	0.08	24	0.61	6	● 192884	● 192892		
0.35	0.09	24	0.71	6	● 192885	● 192893		
0.4	0.1	24	0.8	6	● 192886	● 192894		
0.5	0.125	24	1	6	● 192887	● 192895		
0.6	0.15	24	1.2	6	● 192888	● 192896		
0.7	0.175	24	1.4	6	● 192889	● 192897		
0.8	0.2	24	1.6	6	● 192890	● 192898		
0.9	0.225	24	1.8	6	● 192891	● 192899		
1	0.25	24	2	6			● 191499	● 191508
1.2	0.25	24	2.3	6			● 191500	● 191509
1.4	0.3	24	2.7	6			● 191501	● 191510

6g

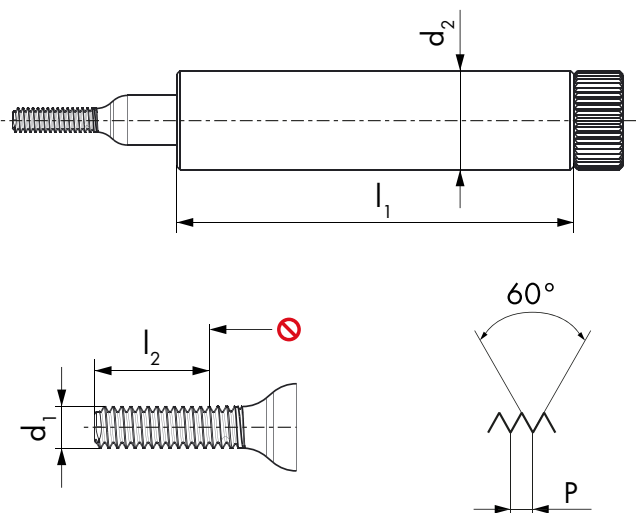
6g

$\emptyset d_1$ M	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID
1.6	0.35	24	3.1	6	● 191517	● 191535
1.8	0.35	24	3.4	6	● 191518	● 191536
2	0.4	24	3.8	6	● 191519	● 191537
2.3	0.4	24	4.25	6	● 191520	● 191538
2.5	0.45	24	4.65	6	● 191521	● 191539
2.6	0.45	24	4.8	6	● 191522	● 191540



SCS certificate included.

nano



RN05-2
NO-GO

RN15-2
NO-GO

RN05-2
NO-GO

RN15-2
NO-GO



5h

5h

6h

6h

$\emptyset d_1$ M	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID	ID	ID
0.3	0.08	24	0.61	6	• 192900	• 192908		
0.35	0.09	24	0.71	6	• 192901	• 192909		
0.4	0.1	24	0.8	6	• 192902	• 192910		
0.5	0.125	24	1	6	• 192903	• 192911		
0.6	0.15	24	1.2	6	• 192904	• 192912		
0.7	0.175	24	1.4	6	• 192905	• 192913		
0.8	0.2	24	1.6	6	• 192906	• 192914		
0.9	0.225	24	1.8	6	• 192907	• 192915		
1	0.25	24	2	6			• 191502	• 191511
1.2	0.25	24	2.3	6			• 191503	• 191512
1.4	0.3	24	2.7	6			• 191504	• 191513

6g

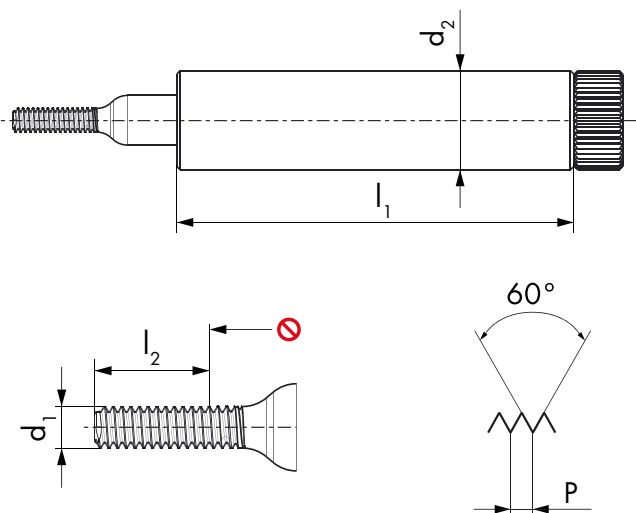
6g

$\emptyset d_1$ M	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID
1.6	0.35	24	3.1	6	• 191523	• 191541
1.8	0.35	24	3.4	6	• 191524	• 191542
2	0.4	24	3.8	6	• 191525	• 191543
2.3	0.4	24	4.25	6	• 191526	• 191544
2.5	0.45	24	4.65	6	• 191527	• 191545
2.6	0.45	24	4.8	6	• 191528	• 191546



SCS certificate included.

nano



RN05-3
WEAR

RN15-3
WEAR

RN05-3
WEAR

RN15-3
WEAR



6h

6h

6g

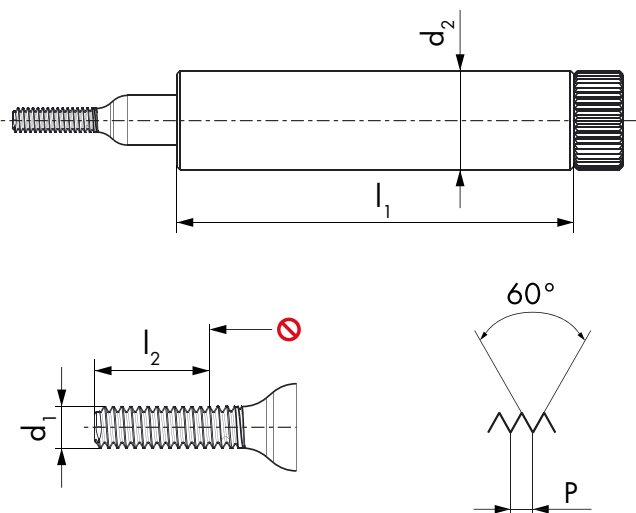
6g

$\emptyset d_1$ M	P mm	l_1 mm	l_2 G0 mm	d_2 mm	ID	ID	ID	ID
1	0.25	24	2	6	• 191505	• 191514		
1.2	0.25	24	2.3	6	• 191506	• 191515		
1.4	0.3	24	2.7	6	• 191507	• 191516		
1.6	0.35	24	3.1	6			• 191529	• 191547
1.8	0.35	24	3.4	6			• 191530	• 191548
2	0.4	24	3.8	6			• 191531	• 191549
2.3	0.4	24	4.25	6			• 191532	• 191550
2.5	0.45	24	4.65	6			• 191533	• 191551
2.6	0.45	24	4.8	6			• 191534	• 191552



SCS certificate included.

nano



RN05-1 GO

RN15-1 GO

RN05-1 GO

RN15-1 GO



4h

4h

6h

6h

$\emptyset d_1$ MF	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID	ID	ID
1.4	0.2	24	2.5	6	• 191256	• 191298	• 192932	• 192945
1.6	0.2	24	2.2	6	• 195874	• 195876	• 192933	• 192946
1.8	0.2	24	2.2	6	• 197711	• 197712	• 192934	• 192947
2	0.2	24	2.2	6	• 197724	• 197725	• 192935	• 192948
2	0.25	24	2.75	6	• 197726	• 197727	• 192936	• 192949
2.2	0.2	24	2.2	6	• 197713	• 197714	• 192937	• 192950
2.2	0.25	24	2.75	6	• 197715	• 197716	• 192938	• 192951
2.3	0.2	24	2.2	6	• 197717	• 197718	• 192939	• 192952
2.3	0.25	24	2.75	6	• 197719	• 197720	• 192940	• 192953
2.5	0.2	24	2.2	6	• 197721	• 197722	• 192941	• 192954
2.5	0.25	24	2.75	6	• 190683	• 197723	• 192942	• 192955

6g

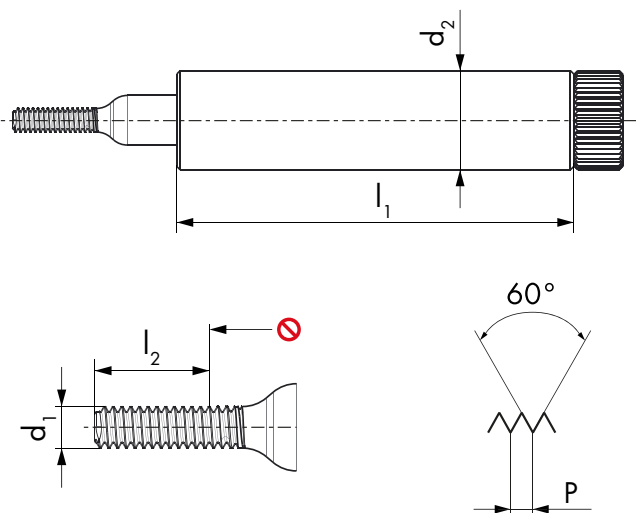
6g

$\emptyset d_1$ MF	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID
2.5	0.35	24	4.45	6	• 192943	• 192956
2.6	0.35	24	4.6	6	• 192944	• 192957



SCS certificate included.

nano



RN05-2
NO-GO

RN15-2
NO-GO

RN05-2
NO-GO

RN15-2
NO-GO



4h

4h

6h

6h

$\emptyset d_1$ MF	P mm	l_1 mm	l_2 G0 mm	d_2 mm	ID	ID	ID	ID
1.4	0.2	24	2.5	6	• 191270	• 197728	• 192958	• 192971
1.6	0.2	24	1.6	6	• 195875	• 195877	• 192959	• 192972
1.8	0.2	24	1.6	6	• 197729	• 197730	• 192960	• 192973
2	0.2	24	1.6	6	• 199060	• 199061	• 192961	• 192974
2	0.25	24	2	6	• 199062	• 199063	• 192962	• 192975
2.2	0.2	24	1.6	6	• 197731	• 197732	• 192963	• 192976
2.2	0.25	24	2	6	• 197733	• 199364	• 192964	• 192977
2.3	0.2	24	1.6	6	• 199053	• 199054	• 192965	• 192978
2.3	0.25	24	2	6	• 199055	• 199056	• 192966	• 192979
2.5	0.2	24	1.6	6	• 199057	• 199058	• 192967	• 192980
2.5	0.25	24	2	6	• 190686	• 199059	• 192968	• 192981

6g

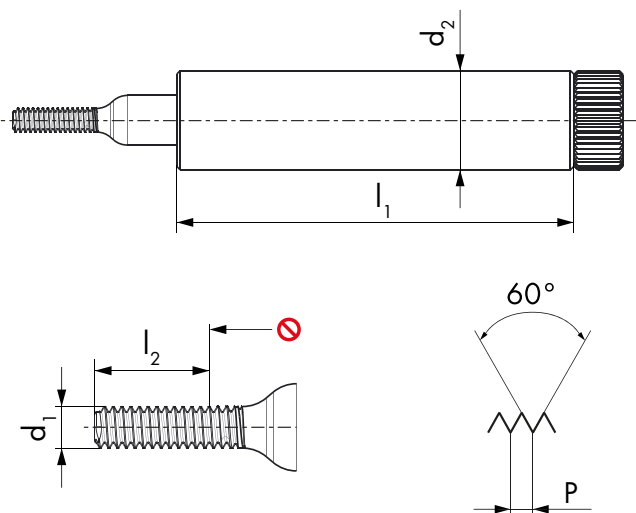
6g

$\emptyset d_1$ MF	P mm	l_1 mm	l_2 G0 mm	d_2 mm	ID	ID
2.5	0.35	24	4.45	6	• 192969	• 192982
2.6	0.35	24	4.6	6	• 192970	• 192983



SCS certificate included.

nano



**RN05-3
WEAR**

**RN15-3
WEAR**

**RN05-3
WEAR**

**RN15-3
WEAR**



4h

4h

6h

6h

$\emptyset d_1$ MF	P mm	l_1 mm	l_2 G0 mm	d_2 mm	ID	ID	ID	ID
1.4	0.2	24	2.5	6	• 191284	• 191326	• 192984	• 192997
1.6	0.2	24	1.6	6	• 199064	• 199065	• 192985	• 192998
1.8	0.2	24	1.6	6	• 199066	• 199067	• 192986	• 192999
2	0.2	24	1.6	6	• 199360	• 199361	• 192987	• 193000
2	0.25	24	2	6	• 199362	• 199363	• 192988	• 193001
2.2	0.2	24	1.6	6	• 199068	• 199069	• 192989	• 193002
2.2	0.25	24	2	6	• 199070	• 199071	• 192990	• 193003
2.3	0.2	24	1.6	6	• 199072	• 199073	• 192991	• 193004
2.3	0.25	24	2	6	• 199074	• 199075	• 192992	• 193005
2.5	0.2	24	1.6	6	• 199076	• 199077	• 192993	• 193006
2.5	0.25	24	2	6	• 199358	• 199359	• 192994	• 193007

6g

6g

$\emptyset d_1$ MF	P mm	l_1 mm	l_2 G0 mm	d_2 mm	ID	ID
2.5	0.35	24	4.45	6	• 192995	• 193008
2.6	0.35	24	4.6	6	• 192996	• 193009



SCS certificate included.

UNC, UNF

ASME B1.1
DC SWISS NI582

VHM
CAR

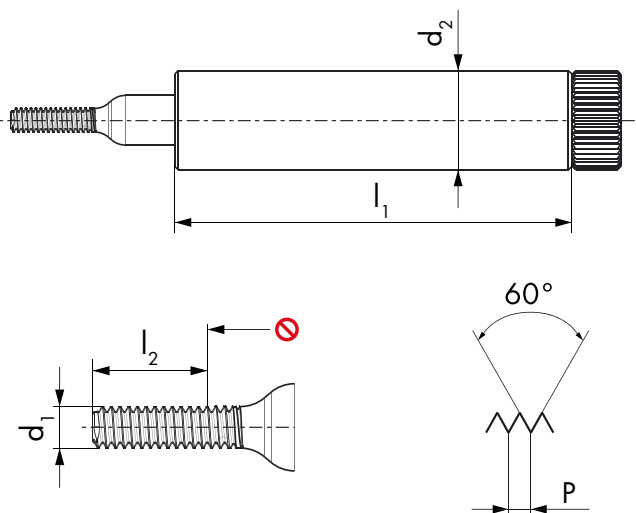
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RN05-1 GO

RN15-1 GO

RN05-1 GO

RN15-1 GO



2A

2A

3A

3A

$\emptyset d_1$ UNC	P TPI	$\emptyset d_1$ mm	l_1 mm	l_2 GO mm	d_2 mm
1	64	1.854	24	3.58	6
2	56	2.184	24	4.18	6
3	48	2.515	24	4.83	6

ID	ID	ID	ID
• 191613	• 191619	• 191625	• 191631
• 191614	• 191620	• 191626	• 191632
• 191615	• 191621	• 191627	• 191633

$\emptyset d_1$ UNF	P TPI	$\emptyset d_1$ mm	l_1 mm	l_2 GO mm	d_2 mm
0	80	1.524	24	2.92	6
1	72	1.854	24	3.49	6
2	64	2.184	24	4.07	6
3	56	2.515	24	4.68	6

ID	ID	ID	ID
• 191685	• 191693	• 191701	• 191709
• 191686	• 191694	• 191702	• 191710
• 191687	• 191695	• 191703	• 191711
• 191688	• 191696	• 191704	• 191712



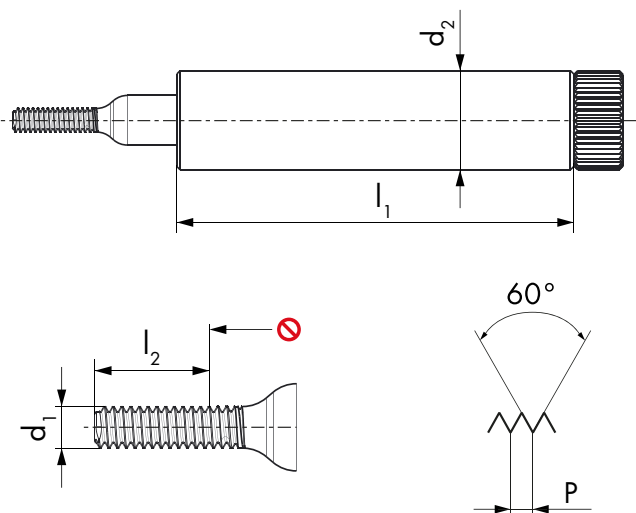
SCS certificate included.

UNC, UNF

ASME B1.1
DC SWISS NI582

VHM
CAR

nano



RN05-2
NO-GO

RN15-2
NO-GO

RN05-2
NO-GO

RN15-2
NO-GO



2A

2A

3A

3A

$\emptyset d_1$ UNC	P TPI	$\emptyset d_1$ mm	l_1 mm	l_2 GO mm	d_2 mm
1	64	1.854	24	3.58	6
2	56	2.184	24	4.18	6
3	48	2.515	24	4.83	6

ID

ID

ID

ID

• 191616	• 191622	• 191628	• 191634
• 191617	• 191623	• 191629	• 191635
• 191618	• 191624	• 191630	• 191636

$\emptyset d_1$ UNF	P TPI	$\emptyset d_1$ mm	l_1 mm	l_2 GO mm	d_2 mm
0	80	1.524	24	2.92	6
1	72	1.854	24	3.49	6
2	64	2.184	24	4.07	6
3	56	2.515	24	4.68	6

ID

ID

ID

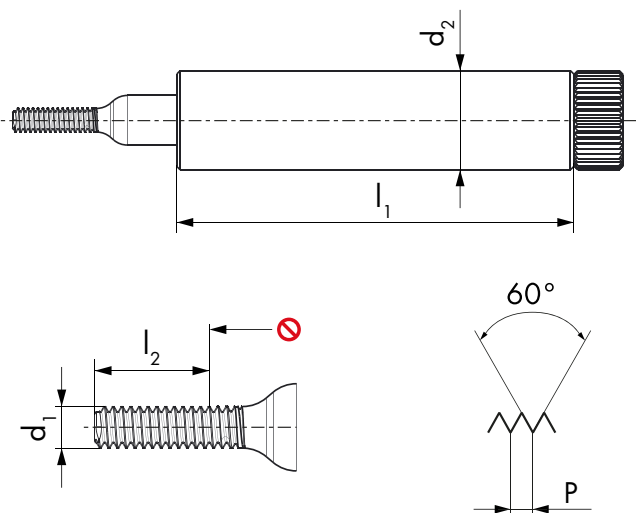
ID

• 191689	• 191697	• 191705	• 191713
• 191690	• 191698	• 191706	• 191714
• 191691	• 191699	• 191707	• 191715
• 191692	• 191700	• 191708	• 191716



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RN15-1 GO



NIHS

NIHS

**NIHS
NT**

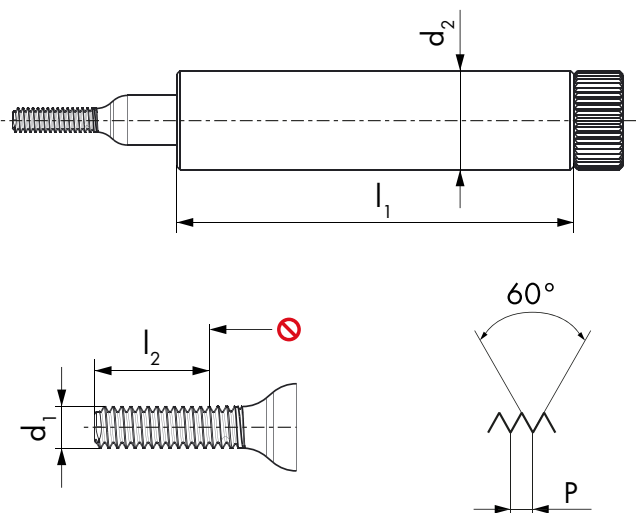
**NIHS
NT**

$\emptyset d_1$ S	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID	ID	ID
0.3	0.08	24	0.61	6	● 190961	● 190999	● 191037	● 191075
0.35	0.09	24	0.71	6	● 190962	● 191000	● 191038	● 191076
0.4	0.1	24	0.8	6	● 190963	● 191001	● 191039	● 191077
0.5	0.125	24	1	6	● 190964	● 191002	● 191040	● 191078
0.6	0.15	24	1.2	6	● 190965	● 191003	● 191041	● 191079
0.7	0.175	24	1.4	6	● 190966	● 191004	● 191042	● 191080
0.8	0.2	24	1.6	6	● 190967	● 191005	● 191043	● 191081
0.9	0.225	24	1.8	6	● 190968	● 191006	● 191044	● 191082
1	0.25	24	2	6	● 190969	● 191007	● 191045	● 191083
1.2	0.25	24	2.3	6	● 190970	● 191008	● 191046	● 191084
1.4	0.3	24	2.7	6	● 190971	● 191009	● 191047	● 191085



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RN05-2
NO-GO

RN15-2
NO-GO

RN05-2
NO-GO

RN15-2
NO-GO



NIHS

NIHS

NIHS
NT

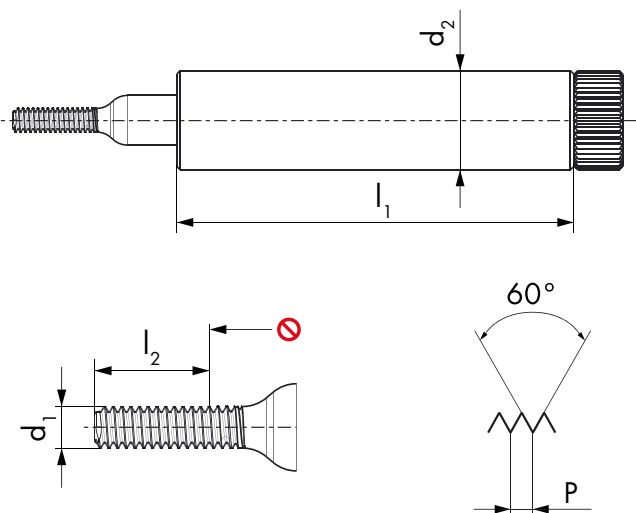
NIHS
NT

$\emptyset d_1$ S	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID	ID	ID
0.3	0.08	24	0.61	6	● 190980	● 191018	● 191056	● 191094
0.35	0.09	24	0.71	6	● 190981	● 191019	● 191057	● 191095
0.4	0.1	24	0.8	6	● 190982	● 191020	● 191058	● 191096
0.5	0.125	24	1	6	● 190983	● 191021	● 191059	● 191097
0.6	0.15	24	1.2	6	● 190984	● 191022	● 191060	● 191098
0.7	0.175	24	1.4	6	● 190985	● 191023	● 191061	● 191099
0.8	0.2	24	1.6	6	● 190986	● 191024	● 191062	● 191100
0.9	0.225	24	1.8	6	● 190987	● 191025	● 191063	● 191101
1	0.25	24	2	6	● 190988	● 191026	● 191064	● 191102
1.2	0.25	24	2.3	6	● 190989	● 191027	● 191065	● 191103
1.4	0.3	24	2.7	6	● 190990	● 191028	● 191066	● 191104



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RN15-1 GO



NIHS

NIHS

NIHS
NT

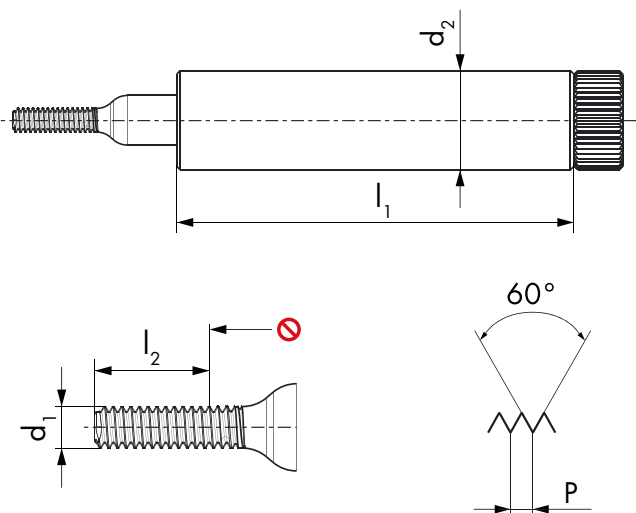
NIHS
NT

$\emptyset d_1$ SF	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID	ID	ID
1.4	0.2	24	2.5	6	● 190972	● 191010	● 191048	● 191086
1.6	0.2	24	2.2	6	● 190973	● 191011	● 191049	● 191087
1.8	0.2	24	2.2	6	● 190974	● 191012	● 191050	● 191088
2	0.2	24	2.2	6	● 190975	● 191013	● 191051	● 191089
2.2	0.2	24	2.2	6	● 190976	● 191014	● 191052	● 191090
2.2	0.25	24	2.75	6	● 190977	● 191015	● 191053	● 191091
2.5	0.2	24	2.2	6	● 190978	● 191016	● 191054	● 191092
2.5	0.25	24	2.75	6	● 190979	● 191017	● 191055	● 191093



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RN05-2
NO-GO

RN15-2
NO-GO

RN05-2
NO-GO

RN15-2
NO-GO



NIHS

NIHS

NIHS
NT

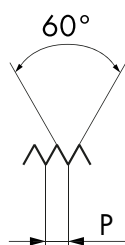
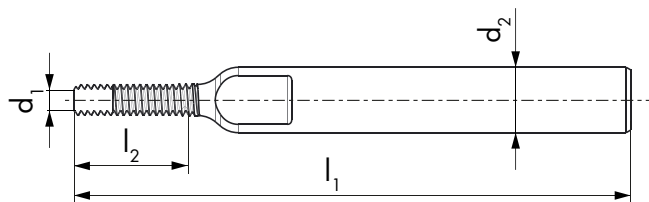
NIHS
NT

$\emptyset d_1$ SF	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID	ID	ID	ID
1.4	0.2	24	2.5	6	● 190991	● 191029	● 191067	● 191105
1.6	0.2	24	1.6	6	● 190992	● 191030	● 191068	● 191106
1.8	0.2	24	1.6	6	● 190993	● 191031	● 191069	● 191107
2	0.2	24	1.6	6	● 190994	● 191032	● 191070	● 191108
2.2	0.2	24	1.6	6	● 190995	● 191033	● 191071	● 191109
2.2	0.25	24	2	6	● 190996	● 191034	● 191072	● 191110
2.5	0.2	24	1.6	6	● 190997	● 191035	● 191073	● 191111
2.5	0.25	24	2	6	● 190998	● 191036	● 191074	● 191112



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EN00



NIHS

$\emptyset d_1$ S	P mm	l_1 mm	l_2 GO mm	d_2 mm	ID
0.3	0.08	39	1.28	3	● 192747
0.35	0.09	39	1.44	3	● 192748
0.4	0.1	39	1.6	3	● 192749
0.5	0.125	39	2	3	● 192750
0.6	0.15	39	2.4	3	● 192751
0.7	0.175	39	2.8	3	● 192752
0.8	0.2	39	3.2	3	● 192753
0.9	0.225	39	3.6	3	● 192754
1	0.25	39	4	3	● 192755
1.2	0.25	39	4	3	● 192756
1.4	0.3	39	4.8	3	● 192757

Der DC SWISS Kalibrier-Gewindelehndorn wird zur Eichung von Messmaschinen verwendet. Die Kalibrierlehren aus unserem Katalog, oder nach Ihren spezifischen Anforderungen gefertigt, werden mit einem SCS-Messzertifikat geliefert. Dieses bestätigt, dass der Kontrollprozess während der Herstellung gewissenhaft gemäß ISO 17025 erfolgt ist. Es bescheinigt die Qualität der messtechnischen Ausrüstung der DC NANO TOOLS SA (SCS 0143), Kompetenzzentrum und Mitglied der DC-Gruppe.

The DC SWISS calibration thread plug gauge is used for the calibration of measuring machines. The calibration gauges from our catalogue, or made to your specific requirements, are delivered with a SCS measurement certificate. This confirms that the control process during production has been conscientiously followed to ISO 17025. It attests to the quality of the metrological equipment of DC NANO TOOLS SA (SCS 0143), centre of competence and member of the DC Group.



SCS certificate included.