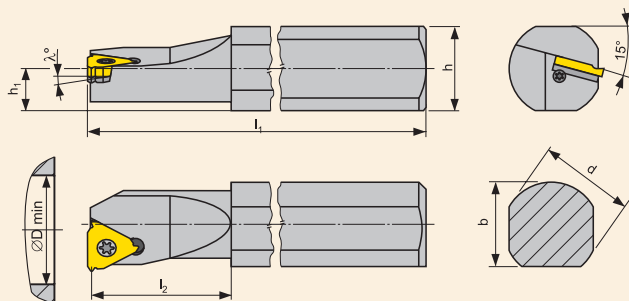


259, 261, 267, 270, 273 - 274, 285 - 286, 288 - 290

Durch Austausch der Auflageplatte lässt sich der Winkel λ von $-1,5^\circ \div +4,5^\circ$ variieren. **Auflageplattenverzeichnis siehe Seite 365**
The helix angle λ can be varied between $-1,5^\circ \div +4,5^\circ$ by changing the anvil. **See page 365**



KLEMMHALTER ZUM INNENDREHEN / TOOLS FOR INTERNAL THREADING

ISO	R/L	Abmessungen / Dimensions								kg	Ersatzteile Spare parts	WSP Inserts
		b	d	D _{min}	h	h ₁	l ₁	l ₂				
SIR/L 0010 K 11-0	●/●	14,5	16	13	14	7	125	25		0,10	Z11	TN 11NR/L.
SIR/L 0010 K 11-1	●/●	14,5	16	13	14	7	125	25		0,10	Z11	TN 11NR/L.
SIR/L 0013 M 11-0	●/●	14,5	16	16	14	7	150	32		0,15	Z11	TN 11NR/L..
SIR/L 0013 M 11-1	●/●	14,5	16	16	14	7	150	32		0,15	Z11	TN 11NR/L..
SIR/L 1416 N 16-0	●/●	14	16	22	14,5	7,5	160	-		0,25	Z9	TN 16NR/L..
SIR/L 1416 N 16-1	●/●	14	16	22	14,5	7,5	160	-		0,25	Z9	TN 16NR/L..
**SIR/L 1416 N 16-2	●/●	14	16	16,5	14,5	7,5	160	40		0,25	Z10	TN 16NR/L..
SIR/L 1820 P 16	●/●	18,5	20	27	18	9	170	-		0,35	Z12	TN 16NR/L..
SIR/L 2325 Q 16	●/●	23,5	25	29	23	11,5	180	-		1,00	Z12	TN 16NR/L..
SIR/L 2532 S 16	●/●	30	32	36	25	12,5	250	-		1,70	Z12	TN 16NR/L..
SIR/L 2532 S 22-A	●/●	30	32	36	25	12,5	250	-		1,70	Z13	TN 22NR/L..
**SIR/L 2532 S 22-2	●/●	30	32	25	25	12,5	250	80		1,60	Z14	TN 22NR/L..
SIR/L 3240 T 22-A	●/●	38	40	48	32	16	300	-		2,30	Z13	TN 22NR/L..

**) innere Kühlschmierstoffzufuhr / With internal cooling

Alle Abmessungen [mm] / All dimensions [mm]

ERSATZTEILE / SPARE PARTS

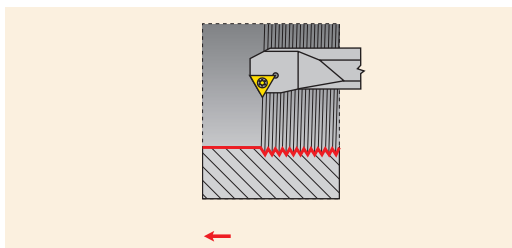
*) Empfohlene Torxschraube - siehe Seite 390-391 / See pages 390-391 for recommended screw torques

Typ Type	Schraube* Screw*	Unterlagschraube Shim screw	Schraubendreher Screwdriver	Schlüssel Key	Unterlage Shim
Z9	US 3510A-T15P	-	FLAG T15P	-	P-16
Z10	US 3510A-T15P	-	FLAG T15P	-	-
Z11	US 2506-T07P	-	FLAG T07P	-	-
Z12	US 3512A-T15P	HS 0304	FLAG T15P	HXK 2,5	Seite / Page 365
Z13	US 4514A-T20	SP 0405	FLAG T20	-	Seite / Page 365
Z14	US 4514A-T20	-	FLAG T20	-	-

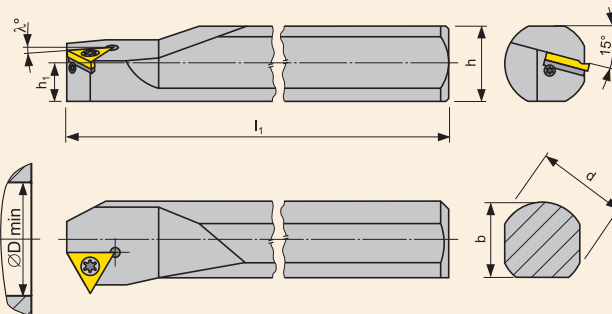
SIR/L-S

GEWINDEDREHEN
THREADING

271, 282



Durch Austausch der Auflageplatte lässt sich der Winkel λ von $-1,5^\circ \div +4,5^\circ$ variieren. **Auflageplattenverzeichnis siehe Seite 365**
The helix angle λ can be varied between $-1,5^\circ \div +4,5^\circ$ by changing the anvil. **See page 365**



KLEMMHALTER ZUM INNENDREHEN / TOOLS FOR INTERNAL THREADING

ISO	R/L	Abmessungen / Dimensions							kg	Ersatzteile Spare parts	WSP Inserts
		b	d	D _{min}	h	h ₁	l ₁				
SIR/L-S 2532 S 22-A	●/○	30	32	39	25	12,5	250		1,70	Z13	TN 22NN..
SIR/L-S 3240 T 22-A	●/○	38	40	48	32	16	300		2,30	Z13	TN 22NN..

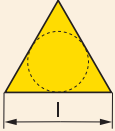
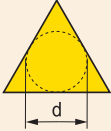
Alle Abmessungen [mm] / All dimensions [mm]

ERSATZTEILE / SPARE PARTS

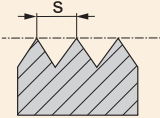
*) Empfohlene Torxschraube - siehe Seite 390-391 / See pages 390-391 for recommended screw torques

Typ Type	Schraube* Screw*	Unterlagschraube Shim screw	Schraubendreher Screwdriver	Schlüssel Key	Unterlage Shim
Z13	US 4514A-T20	SP 0405	FLAG T20	-	Seite / Page 365

ISO BEZEICHNUNGSSYSTEM - WSP ZUM GEWINDEDREHEN
ISO CODE DESIGNATION - INDEXABLE CUTTING INSERTS FOR THREADING

1	2	3	4
Plattenform Insert shape	Freiwinkel Clearance angle	Abmessung Cutting edge length	Aussen - External Innen - Internal
T	N		
		11	11
		16	9,525
		22	12,7
			E
			Innen Internal
			N

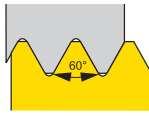
1	2	3	4	5	6	7	8
T	N	16	E	R	175	M	S

5	6	7
Schneidrichtung Direction of cut	Gewindesteigung Thread pitch	Menetprofil Thread profile
Rechts Right	Gewindesteigung Thread pitch	M Metric 60° ISO 965/1-1980
R	Anzahl Gewindegänge pro Zoll Nº. of threads per inch	TR TR 30° ISO 2901/3-1977
Links Left	Anzahl Gewindegänge pro Zoll Thread Pitch, mm x10	W Whitorth 55° ISO 228-1982
L		UN American UN 60° Americana UN 60° ISO 5864-1978
Neutral Neutral	N	RD Rundes 30° Round 30° DIN 405-1981
N		ACME ACME 29° ANSI B1.5-1988
8		BSPT ISO 228/1 35 21 1959 ISO 7/1
Spanformer Chip breaker		API RD API
P1 Gepresst Pressed		NPT ANSI B1.1-1983

M

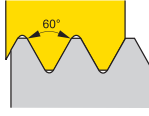
Vollprofil
Full profile

TN ..ER/EL...M



265 - 266

TN ..NR/NL...M

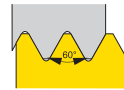


267 - 268

M

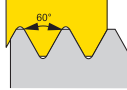
Teilprofil
Partial profile

TN ..ER/EL...60°



269

TN ..NR/NL...60°



270

TN ..EN/NN...60°

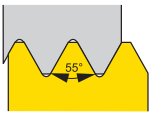


271

W

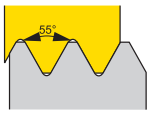
Vollprofil
Full profile

TN ..ER/EL...W



272

TN ..NR/NL...W

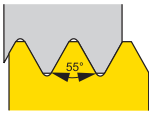


273 - 274

W

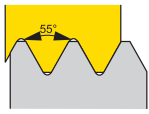
Teilprofil
Partial profile

TN ..ER/EL...W



275

TN ..NR/NL...W

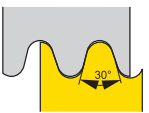


276

RD

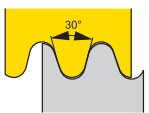
Vollprofil
Full profile

TN ..ER/EL...RD



277

TN ..NR/NL...RD

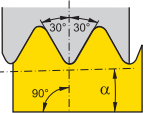


278

API

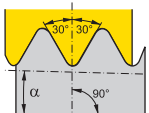
Vollprofil
Full profile

TN ..ER/EL...API



279

TN ..NR/NL...API

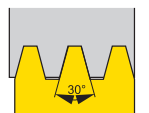


279

TR

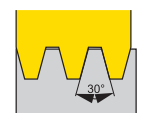
Vollprofil
Full profile

TN ..ER/EL...TR



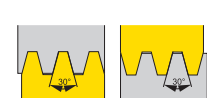
280

TN ..NR/NL...TR



281

TN ..EN/NN...TR



282

ISO D
ISO D

ISO P
ISO P

ISO M
ISO M

ISO S
ISO S

SONSTIGE
OTHER

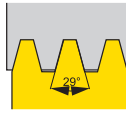
ABSTECHEIN, EINSTECHEIN
PARTING, GROOVING

GEWINDEDREHEN
THREADING

WENDESCHNEIDPLATTEN
INSERTS

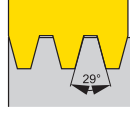
ISO D
ISO D**ACME**Vollprofil
Full profile

TN ..ER/EL...ACME



287

TN ..NR/NL...ACME



288

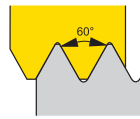
ISO P
ISO P**UN**Vollprofil
Full profile

TN ..ER/EL...UN



283 - 284

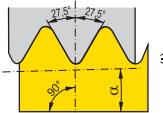
TN ..NR/NL...UN



285 - 286

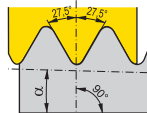
ISO M
ISO M**BSPT**Vollprofil
Full profile

TN ..ER/EL..BSPT



289

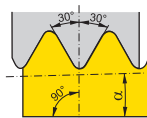
TN ..NR/NL..BSPT



289

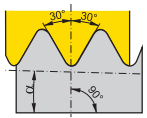
ISO S
ISO S**NPT**Vollprofil
Full profile

TN ..ER/EL...NPT



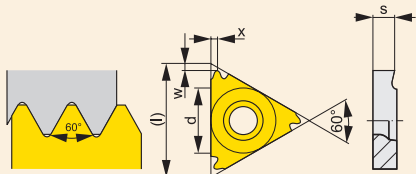
290

TN ..NR/NL...NPT



290

SONSTIGE
OTHERABSTECHEIN, EINSTECHEN
PARTING, GROOVINGGEWINDEDREHEN
THREADINGWENDESCHNEIDPLATTEN
INSERTS

WENDESCHNEIDPLATTEN ZUM GEWINDEDREHEN
INDEXABLE CUTTING INSERTS FOR THREADING
METRISCH / METRIC 60°
ISO 965/1-1980
VOLLPROFIL / FULL PROFILE
AUSSEN / EXTERNAL


Größe Dimension	(l)	d	s		
16	16,5	9,525	3,47		
22	22,0	12,700	4,71		

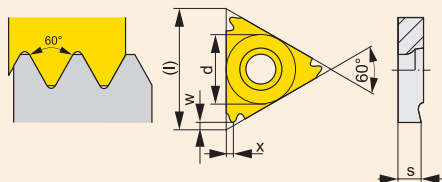
Alle Abmessungen [mm] / All dimensions [mm]

Werkzeuge siehe Seitennr.: / For tools see pages:157

Spanbrecher Chip breaker	ISO	Gewindesteigung Threads per inch	Sorten / Grades							x	w	Vorschub pro U. Feed per rev.		Schnitttiefe Cutting depth	
			T8030									f _{min}	f _{max}	a _{p min}	a _{p max}
	TN 16ER050M	0,50	●							0,50	1,30	-	-	-	-
	TN 16ER075M	0,75	●							0,50	1,30	-	-	-	-
	TN 16ER080M	0,80	●							0,50	1,30	-	-	-	-
	TN 16ER100M	1,00	●							0,70	1,30	-	-	-	-
	TN 16ER125M	1,25	●							0,80	1,30	-	-	-	-
	TN 16ER150M	1,50	●							1,00	1,30	-	-	-	-
	TN 16ER175M	1,75	●							1,40	1,30	-	-	-	-
	TN 16ER200M	2,00	●							1,40	1,30	-	-	-	-
	TN 16ER250M	2,50	●							1,40	1,30	-	-	-	-
	TN 16ER300M	3,00	●							1,50	1,60	-	-	-	-
	TN 22ER350M	3,50	●							2,30	1,60	-	-	-	-
	TN 22ER400M	4,00	●							2,30	1,60	-	-	-	-
	TN 22ER450M	4,50	●							2,40	1,60	-	-	-	-
	TN 22ER500M	5,00	●							2,50	1,80	-	-	-	-
	TN 16EL050M	0,50	●							0,50	1,30	-	-	-	-
	TN 16EL075M	0,75	●							0,50	1,30	-	-	-	-
	TN 16EL080M	0,80	○							0,50	1,30	-	-	-	-
	TN 16EL100M	1,00	●							0,70	1,30	-	-	-	-
	TN 16EL125M	1,25	●							0,80	1,30	-	-	-	-
	TN 16EL150M	1,50	●							1,00	1,30	-	-	-	-
	TN 16EL175M	1,75	●							1,40	1,30	-	-	-	-
	TN 16EL200M	2,00	●							1,40	1,30	-	-	-	-
	TN 16EL250M	2,50	●							1,40	1,30	-	-	-	-
	TN 16EL300M	3,00	●							1,50	1,60	-	-	-	-
	TN 22EL350M	3,50	●							2,30	1,60	-	-	-	-
	TN 22EL400M	4,00	●							2,30	1,60	-	-	-	-
	TN 22EL450M	4,50	○							2,40	1,60	-	-	-	-
	TN 22EL500M	5,00	●							2,50	1,80	-	-	-	-
	TN 16ER100M-P1	1,00	●							0,80	0,80	-	-	-	-
	TN 16ER125M-P1	1,25	●							0,80	0,80	-	-	-	-
	TN 16ER150M-P1	1,50	●							0,80	0,80	-	-	-	-
	TN 16ER175M-P1	1,75	●							1,50	1,20	-	-	-	-

ISO D
ISO DISO P
ISO PISO M
ISO MISO S
ISO SSONSTIGE
OTHERABSTECHEIN, EINSTECHEIN
PARTING, GROOVINGGEWINDEDREHEN
THREADINGWENDESCHNEIDPLATTEN
INSERTS

[illegible]

WENDESCHNEIDPLATTEN ZUM GEWINDEDREHEN
INDEXABLE CUTTING INSERTS FOR THREADING
METRISCH / METRIC 60°
ISO 965/1-1980
VOLLPROFIL / FULL PROFILE
INNEN / INTERNAL


Grösse Dimension	(l)	d	s		
11	11,0	6,350	3,00		
16	16,5	9,525	3,47		
22	22,0	12,700	4,71		

Alle Abmessungen [mm] / All dimensions [mm]

Werkzeuge siehe Seitennr.: / For tools see pages: 159

Spanbrecher Chip breaker	ISO	Gewindesteigung Threads per inch	Sorten / Grades								Vorschub pro U. Feed per rev.		Schnitttiefe Cutting depth	
			T8030								f _{min}	f _{max}	a _{p min}	a _{p max}
									x	w				
	TN 11NR050M	0,50	●						0,50	1,30	-	-	-	-
	TN 11NR075M	0,75	●						0,50	1,30	-	-	-	-
	TN 11NR100M	1,00	●						0,70	1,30	-	-	-	-
	TN 11NR125M	1,25	●						0,80	1,30	-	-	-	-
	TN 11NR150M	1,50	●						1,00	1,30	-	-	-	-
	TN 11NR200M	2,00	●						1,00	1,30	-	-	-	-
	TN 16NR050M	0,50	●						0,50	1,30	-	-	-	-
	TN 16NR075M	0,75	●						0,50	1,30	-	-	-	-
	TN 16NR100M	1,00	●						0,70	1,30	-	-	-	-
	TN 16NR125M	1,25	●						0,80	1,30	-	-	-	-
	TN 16NR150M	1,50	●						1,00	1,30	-	-	-	-
	TN 16NR175M	1,75	●						1,40	1,30	-	-	-	-
	TN 16NR200M	2,00	●						1,40	1,30	-	-	-	-
	TN 16NR250M	2,50	●						1,40	1,30	-	-	-	-
	TN 16NR300M	3,00	●						1,50	1,30	-	-	-	-
	TN 22NR350M	3,50	●						2,30	1,60	-	-	-	-
	TN 22NR400M	4,00	●						2,30	1,60	-	-	-	-
	TN 22NR450M	4,50	●						2,40	1,60	-	-	-	-
	TN 22NR500M	5,00	●						2,50	1,80	-	-	-	-
	TN 11NL050M	0,50	●						0,50	1,30	-	-	-	-
	TN 11NL075M	0,75	●						0,50	1,30	-	-	-	-
	TN 11NL100M	1,00	●						0,70	1,30	-	-	-	-
	TN 11NL125M	1,25	●						0,80	1,30	-	-	-	-
	TN 11NL150M	1,50	●						1,00	1,30	-	-	-	-
	TN 11NL200M	2,00	○						1,00	1,30	-	-	-	-
	TN 16NL050M	0,50	○						0,50	1,30	-	-	-	-
	TN 16NL075M	0,75	○						0,50	1,30	-	-	-	-
	TN 16NL100M	1,00	●						0,70	1,30	-	-	-	-
	TN 16NL125M	1,25	●						0,80	1,30	-	-	-	-
	TN 16NL150M	1,50	●						1,00	1,30	-	-	-	-
	TN 16NL175M	1,75	●						1,40	1,30	-	-	-	-
	TN 16NL200M	2,00	●						1,40	1,30	-	-	-	-
	TN 16NL250M	2,50	●						1,40	1,30	-	-	-	-

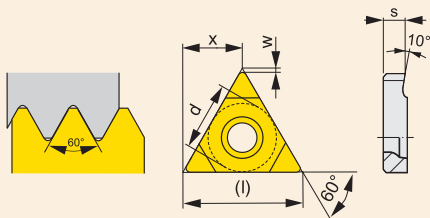
WENDESCHNEIDPLATTEN ZUM GEWINDEDREHEN
INDEXABLE CUTTING INSERTS FOR THREADING

[illegible]

Grösse Dimension	(l)	d	s			
16	16,5	9,525	3,47			
22	22,0	12,700	4,71			

Werkzeuge siehe Seitennr.: / For tools see pages: 157

[illegible]

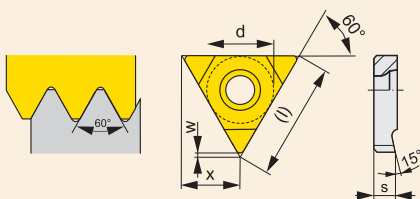
WENDESCHEIDPLATTEN ZUM GEWINDEDREHEN
INDEXABLE CUTTING INSERTS FOR THREADING
METRISCH / METRIC 60° - S
TEILPROFIL / PARTIAL PROFILE
AUSSEN / EXTERNAL


Grösse Dimension	(l)	d	s			
22	22,0	12,700	4,60			

Alle Abmessungen [mm] / All dimensions [mm]

Werkzeuge siehe Seitennr.: / For tools see pages: 158

Spanbrecher Chip breaker	ISO	Gewindesteigung Threads per inch	Sorten / Grades							x	w	Vorschub pro U. Feed per rev.		Schnitttiefe Cutting depth	
			T8030									f _{min}	f _{max}	a _{p min}	a _{p max}
	TN 22EN350-500M	3,50 - 5,00	●							11,00	0,75	-	-	-	-
	TN 22EN550-800M	5,50 - 8,00	●							11,00	1,25	-	-	-	-

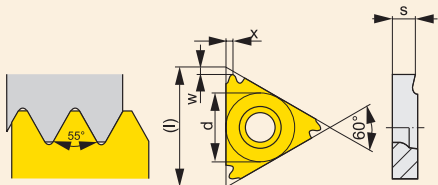
METRISCH / METRIC 60° - S
TEILPROFIL / PARTIAL PROFILE
INNEN / INTERNAL


Grösse Dimension	(l)	d	s			
22	22,0	12,700	4,60			

Alle Abmessungen [mm] / All dimensions [mm]

Werkzeuge siehe Seitennr.: / For tools see pages: 160

Spanbrecher Chip breaker	ISO	Gewindesteigung Threads per inch	Sorten / Grades							x	w	Vorschub pro U. Feed per rev.		Schnitttiefe Cutting depth	
			T8030									f _{min}	f _{max}	a _{p min}	a _{p max}
	TN 22NN350-500M	3,50 - 5,00	●							11,00	0,65	-	-	-	-
	TN 22NN550-800M	5,50 - 8,00	●							11,00	0,95	-	-	-	-

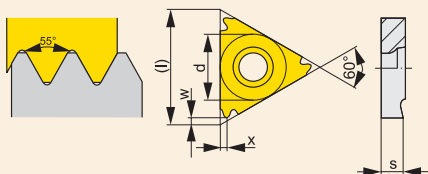
WENDESCHNEIDPLATTEN ZUM GEWINDEDREHEN
INDEXABLE CUTTING INSERTS FOR THREADING
WHITWORTH 55° ISO 228-1982
VOLLPROFIL / FULL PROFILE
AUSSEN / EXTERNAL


Grösse Dimension	(l)	d	s			
16	16,5	9,525	3,47			
22	22,0	12,700	4,71			

Alle Abmessungen [mm] / All dimensions [mm]

Werkzeuge siehe Seitennr.: / For tools see pages: 157

Spanbrecher Chip breaker	ISO	Gewindegänge pro Zoll / 1" Number of threads /1"	Sorten / Grades								x	w	Vorschub pro U. Feed per rev.		Schnitttiefe Cutting depth	
			T8030										f _{min}	f _{max}	a _{p min}	a _{p max}
	TN 16ER280W	28,0	●							0,70	0,60	-	-	-	-	
	TN 16ER200W	20,0	●							0,90	0,80	-	-	-	-	
	TN 16ER190W	19,0	●							1,00	0,80	-	-	-	-	
	TN 16ER180W	18,0	●							1,00	0,80	-	-	-	-	
	TN 16ER160W	16,0	●							1,10	0,90	-	-	-	-	
	TN 16ER140W	14,0	●							1,20	1,00	-	-	-	-	
	TN 16ER120W	12,0	●							1,40	1,10	-	-	-	-	
	TN 16ER110W	11,0	●							1,50	1,10	-	-	-	-	
	TN 16ER100W	10,0	●							1,50	1,20	-	-	-	-	
	TN 16ER090W	9,0	●							1,70	1,20	-	-	-	-	
	TN 16ER080W	8,0	●							1,50	1,20	-	-	-	-	
	TN 22ER070W	7,0	●							2,30	1,60	-	-	-	-	
	TN 22ER060W	6,0	●							2,30	1,60	-	-	-	-	
	TN 22ER050W	5,0	●							2,40	1,70	-	-	-	-	
	TN 16EL280W	28,0	○							0,70	0,60	-	-	-	-	
	TN 16EL200W	20,0	○							0,90	0,80	-	-	-	-	
	TN 16EL190W	19,0	○							1,00	0,80	-	-	-	-	
	TN 16EL160W	16,0	○							1,10	0,90	-	-	-	-	
	TN 16EL140W	14,0	●							1,20	1,00	-	-	-	-	
	TN 16EL120W	12,0	○							1,40	1,10	-	-	-	-	
	TN 16EL110W	11,0	●							1,50	1,10	-	-	-	-	
	TN 16EL100W	10,0	○							1,50	1,10	-	-	-	-	
	TN 16EL090W	9,0	○							1,70	1,20	-	-	-	-	
	TN 16EL080W	8,0	○							1,50	1,20	-	-	-	-	
	TN 22EL070W	7,0	○							2,30	1,60	-	-	-	-	
	TN 22EL060W	6,0	○							2,30	1,60	-	-	-	-	
	TN 22EL050W	5,0	○							2,40	1,70	-	-	-	-	
	TN 16ER190W-P1	19,0	○							0,80	0,80	-	-	-	-	
	TN 16ER140W-P1	14,0	●							1,50	1,20	-	-	-	-	
	TN 16ER110W-P1	11,0	●							1,50	1,20	-	-	-	-	

WENDESCHNEIDPLATTEN ZUM GEWINDEDREHEN
INDEXABLE CUTTING INSERTS FOR THREADING
WHITWORTH 55° ISO 228-1982
VOLLPROFIL / FULL PROFILE
INNEN / INTERNAL


Grösse Dimension	(l)	d	s			
11	11,0	6,350	3,00			
16	16,5	9,525	3,47			
22	22,0	12,700	4,71			

Alle Abmessungen [mm] / All dimensions [mm]

Werkzeuge siehe Seitennr.: / For tools see pages: 159

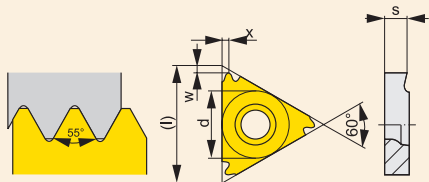
Spanbrecher Chip breaker	ISO	Gewindegänge pro Zoll / 1" Number of threads /1"	Sorten / Grades								x	w	Vorschub pro U. Feed per rev.		Schnitttiefe Cutting depth	
			T8030										f _{min}	f _{max}	a _{p min}	a _{p max}
	TN 11NR190W	19,0	●							1,00	0,80	-	-	-	-	
	TN 11NR140W	14,0	●							1,20	0,80	-	-	-	-	
	TN 16NR280W	28,0	○							0,70	0,60	-	-	-	-	
	TN 16NR200W	20,0	●							0,90	0,80	-	-	-	-	
	TN 16NR190W	19,0	●							1,00	0,80	-	-	-	-	
	TN 16NR160W	16,0	●							1,10	0,90	-	-	-	-	
	TN 16NR140W	14,0	●							1,20	1,00	-	-	-	-	
	TN 16NR120W	12,0	○							1,40	1,10	-	-	-	-	
	TN 16NR110W	11,0	●							1,50	1,10	-	-	-	-	
	TN 16NR100W	10,0	●							1,50	1,20	-	-	-	-	
	TN 16NR090W	9,0	○							1,70	1,20	-	-	-	-	
	TN 16NR080W	8,0	●							1,50	1,20	-	-	-	-	
	TN 22NR070W	7,0	○							2,30	1,60	-	-	-	-	
	TN 22NR060W	6,0	○							2,30	1,60	-	-	-	-	
	TN 22NR050W	5,0	●							2,40	1,70	-	-	-	-	
	TN 11NL190W	19,0	○							1,00	0,80	-	-	-	-	
	TN 11NL140W	14,0	○							1,20	0,80	-	-	-	-	
	TN 16NL280W	28,0	○							0,70	0,60	-	-	-	-	
	TN 16NL200W	20,0	○							0,90	0,80	-	-	-	-	
	TN 16NL190W	19,0	○							1,00	0,80	-	-	-	-	
	TN 16NL160W	16,0	○							1,10	0,90	-	-	-	-	
	TN 16NL140W	14,0	○							1,20	1,00	-	-	-	-	
	TN 16NL120W	12,0	○							1,40	1,10	-	-	-	-	
	TN 16NL110W	11,0	●							1,50	1,10	-	-	-	-	
	TN 16NL100W	10,0	○							1,50	1,10	-	-	-	-	
	TN 16NL090W	9,0	○							1,70	1,20	-	-	-	-	
	TN 16NL080W	8,0	○							1,50	1,20	-	-	-	-	
	TN 22NL070W	7,0	○							2,30	1,60	-	-	-	-	
	TN 22NL060W	6,0	○							2,30	1,60	-	-	-	-	
	TN 22NL050W	5,0	○							2,40	1,70	-	-	-	-	

WENDESCHNEIDPLATTEN ZUM GEWINDEDREHEN
INDEXABLE CUTTING INSERTS FOR THREADING

[illegible]

WHITWORTH 55° ISO 228-1982

TEILPROFIL / PARTIAL PROFILE

AUSSEN / EXTERNAL[illegible]

Alle Abmessungen [mm] / All dimensions [mm]

Werkzeuge siehe Seitennr.: / For tools see pages: 157

[illegible]

RD 30° DIN 405-1981
VOLLPROFIL / FULL PROFILE
AUSSEN / EXTERNAL

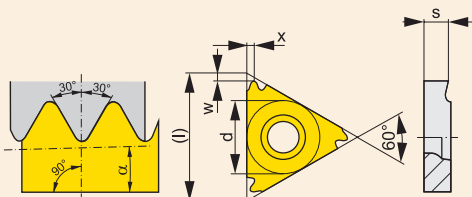
Technical drawing of the RD 30° DIN 405-1981 external full profile. The drawing includes three views: a side view showing the 30-degree profile, a cross-section view showing the circular bore with dimensions d , w , and l , and a detail view of the 60-degree fillet with dimensions s and x .

[illegible]

Werkzeuge siehe Seitennr.: / For tools see pages: 157

[illegible]

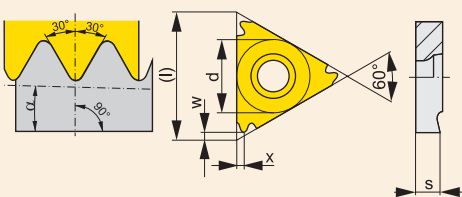
● Lagersortiment / ○ Kein Lagersortiment
● stocked as standard / ○ not stocked as standard
tügen Preisliste. / See price list for current availability.

WENDESCHNEIDPLATTEN ZUM GEWINDEDREHEN
INDEXABLE CUTTING INSERTS FOR THREADING
API
VOLLPROFIL / FULL PROFILE
AUSSEN / EXTERNAL


Alle Abmessungen [mm] / All dimensions [mm]

Werkzeuge siehe Seitennr.: / For tools see pages: 157

Spanbrecher Chip breaker	ISO	Gewindegänge pro Zoll / 1" Number of threads /1"	Sorten / Grades								x	w	Vorschub pro U. Feed per rev.		Schnitttiefe Cutting depth	
			T8030										f _{min}	f _{max}	a _{p min}	a _{p max}
	TN 16ER100API-RD01	10,0	●							1,50	1,10	-	-	-	-	
	TN 16ER080API-RD01	8,0	●							1,70	1,20	-	-	-	-	
	TN 22ER04API038402	4,0	●							2,60	1,70	-	-	-	-	
	TN 22EL04API038402	4,0	○							2,60	1,70	-	-	-	-	

API
VOLLPROFIL / FULL PROFILE
INNEN / INTERNAL


Alle Abmessungen [mm] / All dimensions [mm]

Werkzeuge siehe Seitennr.: / For tools see pages: 159

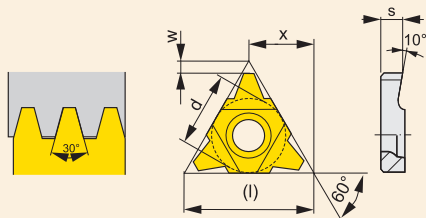
Spanbrecher Chip breaker	ISO	Gewindegänge pro Zoll / 1" Number of threads /1"	Sorten / Grades								x	w	Vorschub pro U. Feed per rev.		Schnitttiefe Cutting depth	
			T8030										f _{min}	f _{max}	a _{p min}	a _{p max}
	TN 16NR100API-RD01	10,0	●							1,50	1,10	-	-	-	-	
	TN 16NR080API-RD01	8,0	●							1,70	1,20	-	-	-	-	
	TN 22NR04API038402	4,0	○							2,60	1,70	-	-	-	-	
	TN 22NL04API038402	4,0	○							2,60	1,70	-	-	-	-	

TR 30° DIN 103-1977, ISO 2901/3-1977
VOLLPROFIL / FULL PROFILE
INNEN / INTERNAL

[illegible]

Werkzeuge siehe Seitennr.: / For tools see pages: 159

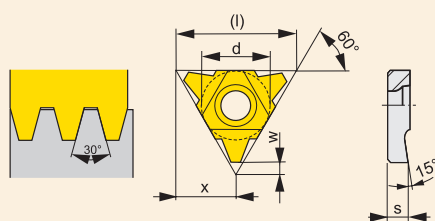
[illegible]

WENDESCHEIDPLATTEN ZUM GEWINDEDREHEN
INDEXABLE CUTTING INSERTS FOR THREADING
TR 30° S
VOLLPROFIL / FULL PROFILE
AUSSEN / EXTERNAL


Alle Abmessungen [mm] / All dimensions [mm]

Werkzeuge siehe Seitennr.: / For tools see pages: 158

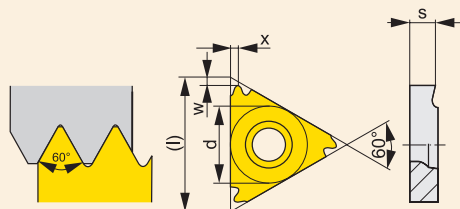
Spanbrecher Chip breaker	ISO	Gewindesteigung Threads per inch	Sorten / Grades								x	w	Vorschub pro U. Feed per rev.		Schnitttiefe Cutting depth	
			T8030										f _{min}	f _{max}	a _{p min}	a _{p max}
	TN 22EN600TR	6,0	●							11,00	1,55	-	-	-	-	
	TN 22EN700TR	7,0	●							11,00	1,85	-	-	-	-	

TR 30° S
VOLLPROFIL / FULL PROFILE
INNEN / INTERNAL


Alle Abmessungen [mm] / All dimensions [mm]

Werkzeuge siehe Seitennr.: / For tools see pages: 160

Spanbrecher Chip breaker	ISO	Gewindesteigung Threads per inch	Sorten / Grades								x	w	Vorschub pro U. Feed per rev.		Schnitttiefe Cutting depth	
			T8030										f _{min}	f _{max}	a _{p min}	a _{p max}
	TN 22NN600TR	6,0	●							11,00	1,55	-	-	-	-	
	TN 22NN700TR	7,0	●							11,00	1,85	-	-	-	-	

WENDESCHNEIDPLATTEN ZUM GEWINDEDREHEN
INDEXABLE CUTTING INSERTS FOR THREADING
UN 60° / AMERICANA UN 60°
SO 5864-1978, ANSI B1.1-1983
VOLLPROFIL / FULL PROFILE
AUSSEN / EXTERNAL


Grösse Dimension	(l)	d	s		
16	16,5	9,525	3,47		
22	22,0	12,700	4,71		

Alle Abmessungen [mm] / All dimensions [mm]

Werkzeuge siehe Seitennr.: / For tools see pages: 157

Spanbrecher Chip breaker	ISO	Gewindegänge pro Zoll / 1" Number of threads /1"	Sorten / Grades								x	w	Vorschub pro U. Feed per rev.		Schnitttiefe Cutting depth	
			T8030										f _{min}	f _{max}	a _{p min}	a _{p max}
	TN 16ER320UN	32,0	○							0,60	0,60	-	-	-	-	
	TN 16ER280UN	28,0	○							0,70	0,60	-	-	-	-	
	TN 16ER240UN	24,0	○							0,80	0,70	-	-	-	-	
	TN 16ER200UN	20,0	●							0,90	0,80	-	-	-	-	
	TN 16ER180UN	18,0	●							1,00	0,80	-	-	-	-	
	TN 16ER160UN	16,0	●							1,10	0,90	-	-	-	-	
	TN 16ER140UN	14,0	●							1,20	1,00	-	-	-	-	
	TN 16ER130UN	13,0	○							1,30	1,00	-	-	-	-	
	TN 16ER120UN	12,0	●							1,40	1,10	-	-	-	-	
	TN 16ER115UN	11,5	○							1,40	1,10	-	-	-	-	
	TN 16ER110UN	11,0	○							1,50	1,10	-	-	-	-	
	TN 16ER100UN	10,0	●							1,50	1,10	-	-	-	-	
	TN 16ER090UN	9,0	○							1,70	1,20	-	-	-	-	
	TN 16ER080UN	8,0	●							1,60	1,20	-	-	-	-	
	TN 22ER070UN	7,0	○							2,30	1,60	-	-	-	-	
	TN 22ER060UN	6,0	○							2,30	1,60	-	-	-	-	
	TN 22ER050UN	5,0	○							2,50	1,70	-	-	-	-	
	TN 16EL320UN	32,0	○							0,60	0,60	-	-	-	-	
	TN 16EL280UN	28,0	○							0,70	0,60	-	-	-	-	
	TN 16EL240UN	24,0	○							0,80	0,70	-	-	-	-	
	TN 16EL200UN	20,0	○							0,90	0,80	-	-	-	-	
	TN 16EL180UN	18,0	○							1,00	0,80	-	-	-	-	
	TN 16EL160UN	16,0	○							1,10	0,90	-	-	-	-	
	TN 16EL140UN	14,0	○							1,20	1,00	-	-	-	-	
	TN 16EL120UN	12,0	○							1,30	1,10	-	-	-	-	
	TN 16EL110UN	11,0	○							1,40	1,10	-	-	-	-	
	TN 16EL100UN	10,0	○							1,50	1,10	-	-	-	-	
	TN 16EL090UN	9,0	○							1,70	1,20	-	-	-	-	
	TN 16EL080UN	8,0	○							1,60	1,20	-	-	-	-	
	TN 22EL070UN	7,0	○							2,30	1,60	-	-	-	-	
	TN 22EL060UN	6,0	○							2,30	1,60	-	-	-	-	
	TN 22EL050UN	5,0	○							2,50	1,70	-	-	-	-	

WENDESCHNEIDPLATTEN ZUM GEWINDEDREHEN
INDEXABLE CUTTING INSERTS FOR THREADING

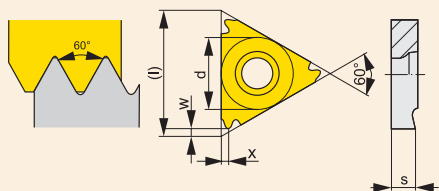
[illegible]

WENDESCHNEIDPLATTEN ZUM GEWINDEDREHEN
INDEXABLE CUTTING INSERTS FOR THREADING
UN 60° / AMERICANA UN 60°

ISO 5864-1978, ANSI B1.1-1983

VOLLPROFIL / FULL PROFILE

INNEN / INTERNAL



Grösse Dimension	(l)	d	s		
16	16,5	9,525	3,47		
22	22,0	12,700	4,71		

Alle Abmessungen [mm] / All dimensions [mm]

Werkzeuge siehe Seitennr.: / For tools see pages: 159

Spanbrecher Chip breaker	ISO	Gewindegänge pro Zoll / 1" Number of threads /1"	Sorten / Grades						x	w	Vorschub pro U. Feed per rev.		Schnitttiefe Cutting depth	
			T8030								f _{min}	f _{max}	a _{p min}	a _{p max}
	TN 16NR320UN	32,0	○						0,60	0,60	-	-	-	-
	TN 16NR280UN	28,0	○						0,70	0,60	-	-	-	-
	TN 16NR240UN	24,0	○						0,80	0,70	-	-	-	-
	TN 16NR200UN	20,0	○						0,90	0,80	-	-	-	-
	TN 16NR180UN	18,0	○						1,00	0,80	-	-	-	-
	TN 16NR160UN	16,0	○						1,10	0,90	-	-	-	-
	TN 16NR140UN	14,0	●						1,20	1,00	-	-	-	-
	TN 16NR130UN	13,0	○						1,30	1,00	-	-	-	-
	TN 16NR120UN	12,0	●						1,40	1,10	-	-	-	-
	TN 16NR115UN	11,5	○						1,40	1,10	-	-	-	-
	TN 16NR110UN	11,0	○						1,50	1,10	-	-	-	-
	TN 16NR100UN	10,0	○						1,50	1,10	-	-	-	-
	TN 16NR080UN	8,0	○						1,50	1,20	-	-	-	-
	TN 22NR070UN	7,0	○						2,30	1,60	-	-	-	-
	TN 22NR060UN	6,0	○						2,30	1,60	-	-	-	-
	TN 22NR050UN	5,0	○						2,50	1,70	-	-	-	-
	TN 16NL320UN	32,0	○						0,60	0,60	-	-	-	-
	TN 16NL280UN	28,0	○						0,70	0,60	-	-	-	-
	TN 16NL240UN	24,0	○						0,80	0,70	-	-	-	-
	TN 16NL200UN	20,0	○						0,90	0,80	-	-	-	-
	TN 16NL180UN	18,0	○						1,00	0,80	-	-	-	-
	TN 16NL160UN	16,0	○						1,10	0,90	-	-	-	-
	TN 16NL140UN	14,0	○						1,20	1,00	-	-	-	-
	TN 16NL120UN	12,0	○						1,30	1,00	-	-	-	-
	TN 16NL110UN	11,0	○						1,40	1,10	-	-	-	-
	TN 16NL100UN	10,0	○						1,50	1,10	-	-	-	-
	TN 16NL080UN	8,0	○						1,60	1,20	-	-	-	-
	TN 22NL070UN	7,0	○						2,30	1,60	-	-	-	-
	TN 22NL060UN	6,0	○						2,30	1,60	-	-	-	-
	TN 16NR200UN-P1	20,0	○						0,80	0,80	-	-	-	-
	TN 16NR180UN-P1	18,0	○						0,80	0,80	-	-	-	-
	TN 16NR160UN-P1	16,0	○						0,80	0,80	-	-	-	-

WENDESCHNEIDPLATTEN ZUM GEWINDEDREHEN
INDEXABLE CUTTING INSERTS FOR THREADING

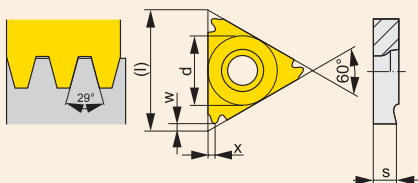
[illegible]

ACME 29° ANSI B1,5-1988
VOLLPROFIL / FULL PROFILE
AUSSEN / EXTERNAL

[illegible]

Werkzeuge siehe Seitennr.: / For tools see pages: 157

[illegible]

WENDESCHEIDPLATTEN ZUM GEWINDEDREHEN
INDEXABLE CUTTING INSERTS FOR THREADING
ACME 29° ANSI B1,5-1988
VOLLPROFIL / FULL PROFILE
INNEN / INTERNAL


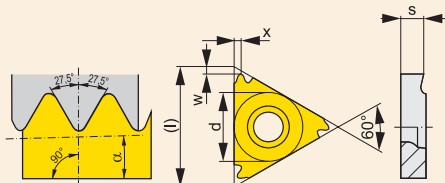
Grösse Dimension	(l)	d	s			
16	16,5	9,525	3,47			
22	22,0	12,700	4,71			

Werkzeuge siehe Seitennr.: / For tools see pages: 159

Spanbrecher Chip breaker	ISO	Gewindegänge pro Zoll / 1" Number of threads /1"	Sorten / Grades								x	w	Vorschub pro U. Feed per rev.		Schnitttiefe Cutting depth	
			T8030										f _{min}	f _{max}	a _{p min}	a _{p max}
	TN 16NR080ACME	8	○								1,50	1,50	-	-	-	-
	TN 22NR060ACME	6	○								2,40	2,10	-	-	-	-
	TN 22NR050ACME	5	○								2,40	1,90	-	-	-	-
	TN 22NL050ACME	5	○								2,40	1,90	-	-	-	-

WENDESCHEIDPLATTEN ZUM GEWINDEDREHEN
INDEXABLE CUTTING INSERTS FOR THREADING
BSPT

ISO 228/1 35 21 1959, ISO 7/1

VOLLPROFIL / FULL PROFILE**AUSSEN / EXTERNAL**

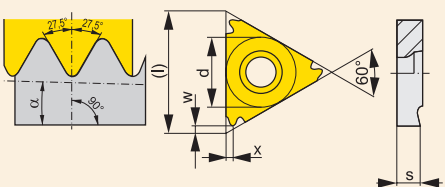
Alle Abmessungen [mm] / All dimensions [mm]

Werkzeuge siehe Seitennr.: / For tools see pages: 157

Spanbrecher Chip breaker	ISO	Gewindegänge pro Zoll / 1" Number of threads / 1"	Sorten / Grades								x	w	Vorschub pro U. Feed per rev.		Schnitttiefe Cutting depth	
			T8030										f _{min}	f _{max}	a _{p min}	a _{p max}
	TN 16ER140BSPT	14,0	●								1,50	1,20	-	-	-	-
	TN 16ER110BSPT	11,0	●								1,50	1,20	-	-	-	-

BSPT

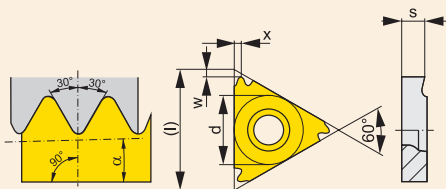
ISO 228/1 35 21 1959, ISO 7/1

VOLLPROFIL / FULL PROFILE**INNEN / INTERNAL**

Alle Abmessungen [mm] / All dimensions [mm]

Werkzeuge siehe Seitennr.: / For tools see pages: 159

Spanbrecher Chip breaker	ISO	Gewindegänge pro Zoll / 1" Number of threads / 1"	Sorten / Grades								x	w	Vorschub pro U. Feed per rev.		Schnitttiefe Cutting depth	
			T8030										f _{min}	f _{max}	a _{p min}	a _{p max}
	TN 16NR140BSPT	14,0	●								1,50	1,20	-	-	-	-
	TN 16NR110BSPT	11,0	●								1,50	1,20	-	-	-	-

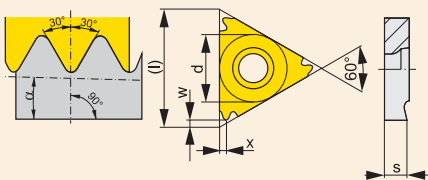
WENDESCHNEIDPLATTEN ZUM GEWINDEDREHEN
INDEXABLE CUTTING INSERTS FOR THREADING
NPT ANSI B1.1-1983
VOLLPROFIL / FULL PROFILE
AUSSEN / EXTERNAL


Grösse Dimension	(l)	d	s	α		
16	16,5	9,525	3,47	1°47'		

Alle Abmessungen [mm] / All dimensions [mm]

Werkzeuge siehe Seitennr.: / For tools see pages: 157

Spanbrecher Chip breaker	ISO	Gewindegänge pro Zoll / 1" Number of threads / 1"	Sorten / Grades							x	w	Vorschub pro U. Feed per rev.		Schnitttiefe Cutting depth	
			T8030									f _{min}	f _{max}	a _{p min}	a _{p max}
	TN 16ER270NPT	27,0	●							0,80	0,70	-	-	-	-
	TN 16ER180NPT	18,0	●							0,80	0,70	-	-	-	-
	TN 16ER140NPT	14,0	●							1,50	0,70	-	-	-	-
	TN 16ER115NPT	11,5	●							1,50	1,10	-	-	-	-
	TN 16ER080NPT	8,0	●							1,60	1,10	-	-	-	-

NPT ANSI B1.1-1983
VOLLPROFIL / FULL PROFILE
INNEN / INTERNAL


Grösse Dimension	(l)	d	s	α		
11	11,0	6,350	3,00	1°47'		
16	16,5	9,525	3,47	1°47'		

Alle Abmessungen [mm] / All dimensions [mm]

Werkzeuge siehe Seitennr.: / For tools see pages: 159

Spanbrecher Chip breaker	ISO	Gewindegänge pro Zoll / 1" Number of threads / 1"	Sorten / Grades							x	w	Vorschub pro U. Feed per rev.		Schnitttiefe Cutting depth	
			T8030									f _{min}	f _{max}	a _{p min}	a _{p max}
	TN 11NR180NPT	18,0	●							0,80	0,70	-	-	-	-
	TN 11NR140NPT	14,0	●							0,80	0,70	-	-	-	-
	TN 16NR140NPT	14,0	●							1,50	0,70	-	-	-	-
	TN 16NR115NPT	11,5	●							1,50	1,10	-	-	-	-
	TN 16NR080NPT	8,0	●							1,60	1,10	-	-	-	-