

FRIDRO

ALL IN ONE PLACE

tools & tooling solutions



ANTI-VIBRATION BARS
BARRE ANTIVIBRANTI
ANTIVIBRATIONSSTANGEN

ATS

BARRES ANTI-VIBRATIONS
ANTIVIBRACIJSKA PALICA





ANTI-VIBRATION BARS

ATS bars are needed for machining operations such as deep boring and are economical compared to traditional HSS bars (max 4xD) or solid carbide bars (max 6xD).

ATS bars allow machining up to 14xD (turning) with standard tools providing visible benefits:

- ✓ EXCELLENT FINISH
- ✓ PRECISE TOLERANCES
- ✓ EXTENDED INSERT LIFE

ATS bars are available in 3 versions:

- ☐ **NS** = special steel
- ☐ **FS** = special steel + damper
- ☐ **FH** = special steel + carbide + damper



ANTIVIBRATIONSSTANGEN

ATS-Stangen werden für Bearbeitungen wie Tiefbohren benötigt und sind im Vergleich zu herkömmlichen HSS-Stangen (max. 4xD) oder Vollhartmetallstangen (max. 6xD) wirtschaftlich.

ATS-Stangen ermöglichen Bearbeitungen bis zu 14xD (Drehen) mit Standardwerkzeugen und bieten sichtbare Vorteile:

- ✓ HERVORRAGENDE OBERFLÄCHENGÜTE
- ✓ PRÄZISE TOLERANZEN
- ✓ VERLÄNGERTE LEBENSDAUER DER WSP

ATS-Stangen sind in 3 Ausführungen erhältlich:

- ☐ **NS** = Spezialstahl
- ☐ **FS** = Spezialstahl + Dämpfer
- ☐ **FH** = Spezialstahl + Hartmetall + Dämpfer



ANTIVIBRACIJSKE PALICE

ATS palice so namenjene obdelovalnim operacijam, kot je globoko vrtanje, in so cenovno ugodnejše v primerjavi s tradicionalnimi HSS palicami (največ 4xD) ali monolitnimi karbidnimi palicami (največ 6xD).

ATS palice omogočajo obdelavo do 14xD (struženje) s standardnimi orodji in zagotavljajo vidne prednosti:

- ✓ ODLIČNA POVRŠINSKA OBDELAVA
- ✓ NATANČNE TOLERANCE
- ✓ DALJŠA ŽIVLJENJSKA DOBA PLOŠČICE

ATS palice so na voljo v 3 izvedbah:

- ☐ **NS** = specialno jeklo
- ☐ **FS** = specialno jeklo + dušilnik vibracij
- ☐ **FH** = specialno jeklo + karbidna trdina + dušilnik vibracij

ATS-NS



ATS-FS



ATS-FH



BARRE ANTIVIBRANTI



Le barre antivibranti sono indispensabili per eseguire lavorazioni quali la barenatura profonda e risultano economiche rispetto ai tradizionali steli in HSS (max 4xD) o metallo duro integrale (max 6xD).

Le barre ATS consentono lavorazioni fino a 14xD (tornitura) con utensili standard garantendo visibili benefici:

- ✓ OTTIME FINITURE
- ✓ TOLLERANZE PRECISE
- ✓ PROLUNGAMENTO VITA DEGLI INSERTI

Le barre ATS sono disponibili in 3 versioni:

- ☐ **NS** = acciaio speciale
- ☐ **FS** = acciaio speciale + damper
- ☐ **FH** = acciaio speciale + metallo duro + damper

BARRES ANTI-VIBRATIONS



Les barres ATS sont nécessaires pour les opérations d'usinage telles que l'alésage profond et sont économiques par rapport aux barres HSS (max. 4xD) ou aux barres en carbure monobloc (max. 6xD).

Les barres ATS permettent d'usiner jusqu'à 14xD (tournage) avec des outils standard, ce qui offre des avantages visibles :

- ✓ EXCELLENTE FINITION
- ✓ TOLÉRANCES PRÉCISES
- ✓ DURÉE DE VIE PROLONGÉE DE LA PLAQUETTE

Les barres ATS sont disponibles en 3 versions:

- ☐ **NS** = acier spécial
- ☐ **FS** = acier spécial + amortisseur
- ☐ **FH** = acier spécial + carbure + amortisseur





EXCHANGEABLE HEADS

The coupling system of the heads with the bars is extremely precise and they are available in 3 sizes:

- ☐ **TS-16** for positive inserts
 - bar $\varnothing 16 \Rightarrow$ min. machining $\varnothing$ (*) 20 mm
 - ☐ **TS-20** for positive inserts
 - bar $\varnothing 20 \Rightarrow$ min. machining $\varnothing$ (*) 24/26 mm
 - bar $\varnothing 25 \Rightarrow$ min. machining $\varnothing$ (*) 29/31 mm
 - bar $\varnothing 32 \Rightarrow$ min. machining $\varnothing$ (*) 36/38 mm
 - ☐ **TS-40** for positive and/or negative inserts
 - bar $\varnothing 40 \Rightarrow$ min. machining $\varnothing$ (*) 48/52,5 mm
 - bar $\varnothing 50 \Rightarrow$ min. machining $\varnothing$ (*) 58/62,5 mm
 - bar $\varnothing 60 \Rightarrow$ min. machining $\varnothing$ (*) 68/72,5 mm
- (*) according to the head model



AUSTAUSCHBARE KÖPFE

Das Kupplungssystem der Köpfe mit den Stangen ist äußerst präzise und sie sind in 3 Größen erhältlich:

- ☐ **TS-16** für positive WSP
 - Stange $\varnothing 16 \Rightarrow$ min. bearbeitbarer $\varnothing$ (*) 20 mm
 - ☐ **TS-20** für positive WSP
 - Stange $\varnothing 20 \Rightarrow$ min. bearbeitbarer $\varnothing$ (*) 24/26 mm
 - Stange $\varnothing 25 \Rightarrow$ min. bearbeitbarer $\varnothing$ (*) 29/31 mm
 - Stange $\varnothing 32 \Rightarrow$ min. bearbeitbarer $\varnothing$ (*) 36/38 mm
 - ☐ **TS-40** für positive und/oder negative WSP
 - Stange $\varnothing 40 \Rightarrow$ min. bearbeitbarer $\varnothing$ (*) 48/52,5 mm
 - Stange $\varnothing 50 \Rightarrow$ min. bearbeitbarer $\varnothing$ (*) 58/62,5 mm
 - Stange $\varnothing 60 \Rightarrow$ min. bearbeitbarer $\varnothing$ (*) 68/72,5 mm
- (*) abhängig vom Kopftyp



IZMENLJIVE GLAVE

Sistem vpetja glav na palice je izjemno natančen in je na voljo v 3 velikostih:

- ☐ **TS-16** za pozitivne ploščice
 - palica $\varnothing 16 \Rightarrow$ najmanjši obdelovalni $\varnothing$ (*) 20 mm
- ☐ **TS-20** za pozitivne ploščice
 - palica $\varnothing 20 \Rightarrow$ najmanjši obdelovalni $\varnothing$ () 24/26 mm
 - palica $\varnothing 25 \Rightarrow$ najmanjši obdelovalni $\varnothing$ () 29/31 mm
 - palica $\varnothing 32 \Rightarrow$ najmanjši obdelovalni $\varnothing$ (*) 36/38 mm
- ☐ **TS-40** za pozitivne in/ali negativne ploščice
 - palica $\varnothing 40 \Rightarrow$ najmanjši obdelovalni $\varnothing$ () 48/52,5 mm
 - palica $\varnothing 50 \Rightarrow$ najmanjši obdelovalni $\varnothing$ () 58/62,5 mm
 - palica $\varnothing 60 \Rightarrow$ najmanjši obdelovalni $\varnothing$ (*) 68/72,5 mm

(*) odvisno od tipa glave



TESTINE INTERCAMBIABILI



Il sistema di accoppiamento delle testine con le barre è estremamente preciso e sono disponibili in 3 grandezze:

- ☐ **TS-16** per inserti positivi
 - barra $\varnothing 16 \Rightarrow$ $\varnothing$ min. lavorabile (*) 20 mm
 - ☐ **TS-20** per inserti positivi
 - barra $\varnothing 20 \Rightarrow$ $\varnothing$ min. lavorabile (*) 24/26 mm
 - barra $\varnothing 25 \Rightarrow$ $\varnothing$ min. lavorabile (*) 29/31 mm
 - barra $\varnothing 32 \Rightarrow$ $\varnothing$ min. lavorabile (*) 36/38 mm
 - ☐ **TS-40** per inserti positivi e/o negativi
 - barra $\varnothing 40 \Rightarrow$ $\varnothing$ min. lavorabile (*) 48/52,5 mm
 - barra $\varnothing 50 \Rightarrow$ $\varnothing$ min. lavorabile (*) 58/62,5 mm
 - barra $\varnothing 60 \Rightarrow$ $\varnothing$ min. lavorabile (*) 68/72,5 mm
- (*) in base al tipo di testina

TÊTES INTERCHANGEABLES



Le système d'accouplement des têtes avec les barres est extrêmement précis et elles sont disponibles en 3 tailles :

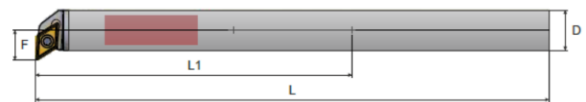
- ☐ **TS-16** pour plaquettes positifs
 - barre $\varnothing 16 \Rightarrow$ $\varnothing$ min. utilisable (*) 20 mm
 - ☐ **TS-20** pour plaquettes positifs
 - barre $\varnothing 20 \Rightarrow$ $\varnothing$ min. utilisable (*) 24/26 mm
 - barre $\varnothing 25 \Rightarrow$ $\varnothing$ min. utilisable (*) 29/31 mm
 - barre $\varnothing 32 \Rightarrow$ $\varnothing$ min. utilisable (*) 36/38 mm
 - ☐ **TS-40** pour plaquettes positifs e/ou négatifs
 - barre $\varnothing 40 \Rightarrow$ $\varnothing$ min. utilisable (*) 48/52,5 mm
 - barre $\varnothing 50 \Rightarrow$ $\varnothing$ min. utilisable (*) 58/62,5 mm
 - barre $\varnothing 60 \Rightarrow$ $\varnothing$ min. utilisable (*) 68/72,5 mm
- (*) selon le type de tête



ATS-MINI

🇬🇧 SOLID ANTI-VIBRATION BARS

DEEP HOLE MACHINING UP TO 6xD
FS = A/STEEL + DAMPER

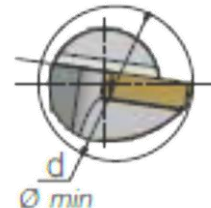


🇷🇺 MONOLITNE ANTIVIBRACIJSKE PALICE

GLOBOKE OBDELAVE DO 6xD
FS = JEKLO/A + DUŠILNIK VIBRACIJ

🇩🇪 ANTIVIBRATIONSSTANGEN

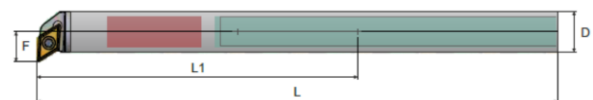
TIEFLOCHBEARBEITUNG BIS 6xD
FS = A/STAHL + DÄMPFER



CODE	TYPE	D	DEEP	MODEL	INSERT	L	L1	F	dmin
DSUT.710.06.10.01.R/L	ATS10-FS06 R/L	10	6 x D	SCLCR/L06	CC.. 06	110	60	5,5	12
DSUT.710.06.10.02.R/L	ATS10-FS06 R/L			SDUCR/L07	DC.. 07	110	60	8	14
DSUT.710.06.10.03.R/L	ATS10-FS06 R/L			STUCR/L09	TC.. 09	110	60	6	12
DSUT.712.06.12.04.R/L	ATS12-FS06 R/L	12		SCLCR/L06	CC.. 06	132	72	6,5	14
DSUT.712.06.12.05.R/L	ATS12-FS06 R/L			SDUCR/L07	DC.. 07	132	72	9	16
DSUT.712.06.12.06.R/L	ATS12-FS06 R/L			STUCR/L09	TC.. 09	132	72	8	15

🇬🇧 SOLID ANTI-VIBRATION BARS

DEEP HOLE MACHINING UP TO 10xD
FH = A/STEEL + CARBIDE + DAMPER

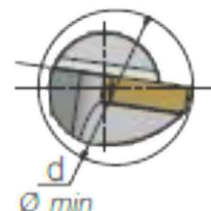


🇷🇺 MONOLITNE ANTIVIBRACIJSKE PALICE

GLOBOKE OBDELAVE DO 10xD
FH = JEKLO/A + KARBIDNA TRDINA + DUŠILNIK VIBRACIJ

🇩🇪 ANTIVIBRATIONSSTANGEN

TIEFLOCHBEARBEITUNG BIS 10xD
FH = A/STAHL + HARTMETALL + DÄMPFER



CODE	TYPE	D	DEEP	MODEL	INSERT	L	L1	F	dmin
DSUT.710.08.10.01.R/L	ATS10-FH08 R/L	10	8 x D	SCLCR/L06	CC.. 06	130	80	5,5	12
DSUT.710.08.10.02.R/L	ATS10-FH08 R/L			SDUCR/L07	DC.. 07	130	80	8	14
DSUT.710.08.10.03.R/L	ATS10-FH08 R/L			STUCR/L09	TC.. 09	130	80	6	12
DSUT.710.10.10.01.R/L	ATS10-FH10 R/L		10 x D	SCLCR/L06	CC.. 06	150	100	5,5	12
DSUT.710.10.10.02.R/L	ATS10-FH10 R/L			SDUCR/L07	DC.. 07	150	100	8	14
DSUT.710.10.10.03.R/L	ATS10-FH10 R/L			STUCR/L09	TC.. 09	150	100	6	12
DSUT.712.08.12.01.R/L	ATS12-FH08 R/L	12	8 x D	SCLCR/L06	CC.. 06	156	96	6,5	14
DSUT.712.08.12.02.R/L	ATS12-FH08 R/L			SDUCR/L07	DC.. 07	156	96	9	16
DSUT.712.08.12.03.R/L	ATS12-FH08 R/L			STUCR/L09	TC.. 09	156	96	8	15
DSUT.712.10.12.01.R/L	ATS12-FH10 R/L		10 x D	SCLCR/L06	CC.. 06	180	120	6,5	14
DSUT.712.10.12.02.R/L	ATS12-FH10 R/L			SDUCR/L07	DC.. 07	180	120	9	16
DSUT.712.10.12.03.R/L	ATS12-FH10 R/L			STUCR/L09	TC.. 09	180	120	8	15

ATS-16

ANTI-VIBRATION BARS

DEEP HOLE MACHINING UP TO 6xD
FS = A/STEEL + DAMPER

ANTIVIBRACIJSKE PALICE

GLOBOKE OBDELAVE DO 6xD
FS = JEKLO/A + DUŠILNIK VIBRACIJ

ANTIVIBRATIONSSTANGEN

TIEFLOCHBEARBEITUNG BIS 6xD
FS = A/STAHL + DÄMPFER



CODE	TYPE	D	DEEP	HEAD – TESTINA KÖPFE	L	L1	LB
DSUT.716.06.16.01	ATS16-FS06-16	16	6 x D	TS16-SCLCR/L-06	160	96	140
				TS16-SDUCR/L-07			
				TS16-SDXCR/L-07			
				TS16-STUCR/L-11			

ANTI-VIBRATION BARS

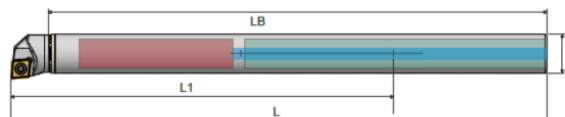
DEEP HOLE MACHINING UP TO 8/10xD
FH = A/STEEL + CARBIDE + DAMPER

ANTIVIBRACIJSKE PALICE

GLOBOKE OBDELAVE DO 8/10xD
FH = JEKLO/A + KARBIDNA TRDINA + DUŠILNIK VIBRACIJ

ANTIVIBRATIONSSTANGEN

TIEFLOCHBEARBEITUNG BIS 8/10xD
FH = A/STAHL + HARTMETALL + DÄMPFER



CODE	TYPE	D	DEEP	HEAD – TESTINA KÖPFE	L	L1	LB
DSUT.716.08.16.01	ATS16-FH08-16	16	8 x D	TS16-SCLCR/L-06	192	128	172
				TS16-SDUCR/L-07			
DSUT.716.10.16.01	ATS16-FH10-16		10 x D	TS16-SDXCR/L-07	224	160	204
				TS16-STUCR/L-11			

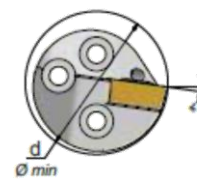
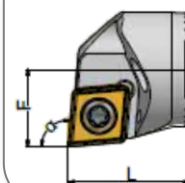
TS-16

TS-16 HEADS
TS16-CCL06 series

GLAVE TS-16
serija TS16-CCL06

KÖPFE TS-16 serie
TS16-CCL06

DSUT.717.01.R/L



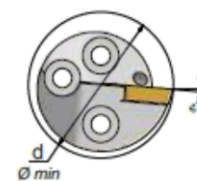
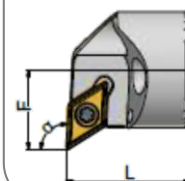
CODE	MODEL	INSERT TYPE	ATS-16 BAR	dmin	L	F	α
DSUT.717.01.R/L	TS16-SCLCR/L-06	CC.. 0602	DSUT.716...	20	20	11	93°

TS-16 HEADS
TS16-DCU07 series

GLAVE TS-16 serija
TS16-DCU07

KÖPFE TS-16 serie
TS16-DCU07

DSUT.717.02.R/L



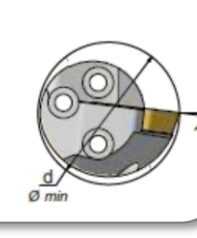
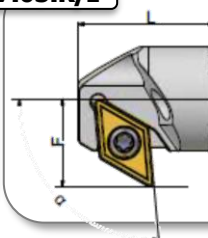
CODE	MODEL	INSERT TYPE	ATS-16 BAR	dmin	L	F	α
DSUT.717.02.R/L	TS16-SDUCR/L-07	DC.. 0702	DSUT.716...	20	20	11	93°

TS-16 HEADS
TS16-DCX07 series

GLAVE TS-16
serija TS16-DCX07

KÖPFE TS-16 serie
TS16-DCX07

DSUT.717.03.R/L



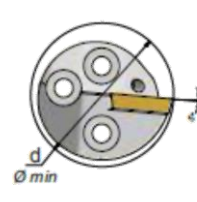
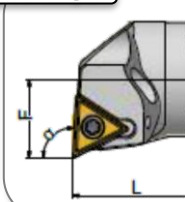
CODE	MODEL	INSERT TYPE	ATS-16 BAR	dmin	L	F	α
DSUT.717.03.R/L	TS16-SDXCR/L-07	DC.. 0702	DSUT.716...	22	26,6	13	93°

TS-16 HEADS
TS16-TCU11 series

GLAVE TS-16
serija TS16-TCU11

KÖPFE TS-16 serie
TS16-TCU11

DSUT.717.04.R/L



CODE	MODEL	INSERT TYPE	ATS-16 BAR	dmin	L	F	α
DSUT.717.04.R/L	TS16-STUCR/L-11	TC..1102	DSUT.716...	20	20	11	93°

ATS-20

ANTI-VIBRATION BARS

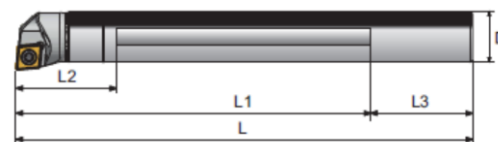
DEEP HOLE MACHINING UP TO 5xD
NS = A/STEEL

ANTIVIBRACIJSKE PALICE

GLOBOKE OBDELAVE DO 5xD
NS = JEKLO/A

ANTIVIBRATIONSSTANGEN

TIEFLOCHBEARBEITUNG BIS 5xD
NS = A/STAHL



CODE	TYPE	D	DEEP	L	L1	L2	L3	M
DSUT.720.05.20.01	ATS20-NS05-20	20	5 x D	180	100	40	80	1/4 G
DSUT.720.05.25.01	ATS20-NS05-25	25		225	125	45	100	1/4 G
DSUT.720.05.32.01	ATS20-NS05-32	32		288	160	52	128	1/4 G

ANTI-VIBRATION BARS

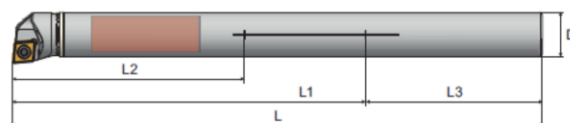
DEEP HOLE MACHINING UP TO 8xD
FS = A/STEEL + DAMPER

ANTIVIBRACIJSKE PALICE

GLOBOKE OBDELAVE DO 8xD
FS = JEKLO/A + DUŠILNIK VIBRACIJ

ANTIVIBRATIONSSTANGEN

TIEFLOCHBEARBEITUNG BIS 8xD
FS = A/STAHL + DÄMPFER



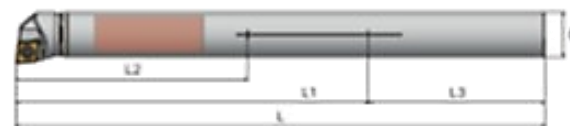
CODE	TYPE	D	DEEP	L	L1	L2	L3	M
DSUT.720.06.20.01	ATS20-FS06-20	20	6 x D NEW!	200	120	95	80	1/4 G
DSUT.720.06.25.01	ATS20-FS06-25	25		250	150	110	100	1/4 G
DSUT.720.06.32.01	ATS20-FS06-32	32		320	192	132	128	3/8 G
DSUT.720.08.20.01	ATS20-FS08-20	20	8 x D	240	160	105	80	1/4 G
DSUT.720.08.25.01	ATS20-FS08-25	25		300	200	120	100	1/4 G
DSUT.720.08.32.01	ATS20-FS08-32	32		384	256	142	128	3/8 G

THREADED COOLANT CONNECTION FOR HIGH PRESSURE 70 BAR MAX
NAVOJNI PRIKLJUČEK ZA HLADILNO TEKOČINO ZA VISOK TLAK, NAJVEČ 70 BAR
KÜHLMITTELANSCHLUSS MIT GEWINDE FÜR HOCHDRUCK 70 BAR MAX

ATS-20

ANTI-VIBRATION BARS

DEEP HOLE MACHINING UP TO 10xD
FS = A/STEEL + DAMPER



ANTIVIBRACIJSKE PALICE

GLOBOKE OBDELAVE DO 10xD
FS = JEKLO/A + DUŠILNIK VIBRACIJ

ANTIVIBRATIONSSTANGEN

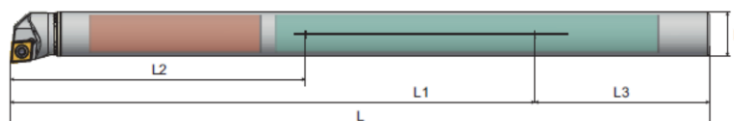
TIEFLOCHBEARBEITUNG BIS 10xD
FS = A/STAHL + DÄMPFER



CODE	TYPE	D	DEEP	L	L1	L2	L3	M
DSUT.720.10.20.01	ATS20-FS10-20	20	10 x D	280	200	120	80	1/4 G
DSUT.720.10.25.01	ATS20-FS10-25	25		350	250	140	100	1/4 G
DSUT.720.10.32.01	ATS20-FS10-32	32		448	320	165	128	3/8 G

ANTI-VIBRATION BARS

DEEP HOLE MACHINING UP TO 12xD
FH = A/STEEL + CARBIDE + DAMPER



ANTIVIBRACIJSKE PALICE

GLOBOKE OBDELAVE DO 12xD
FH = JEKLO/A + KARBIDNA TRDINA + DUŠILNIK VIBRACIJ

ANTIVIBRATIONSSTANGEN

TIEFLOCHBEARBEITUNG BIS 12xD
FH = A/STAHL + HARTMETALL + DÄMPFER



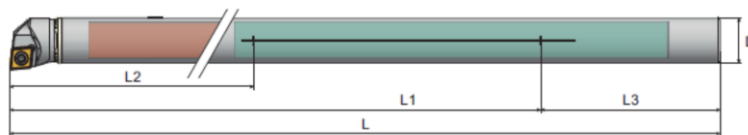
CODE	TYPE	D	DEEP	L	L1	L2	L3	M
DSUT.720.12.20.01	ATS20-FH12-20	20	12 x D	320	240	135	80	1/8 G
DSUT.720.12.25.01	ATS20-FH12-25	25		400	300	159	100	1/4 G
DSUT.720.12.32.01	ATS20-FH12-32	32		512	384	188	128	1/4 G

THREADED COOLANT CONNECTION FOR HIGH PRESSURE 70 BAR MAX
NAVOJNI PRIKLJUČEK ZA HLADILNO TEKOČINO ZA VISOK TLAK, NAJVEČ 70 BAR
KÜHLMITTELANSCHLUSS MIT GEWINDE FÜR HOCHDRUCK 70 BAR MAX

ATS-20

ANTI-VIBRATION BARS

DEEP HOLE MACHINING UP TO 14xD
FH = A/STEEL + CARBIDE + DAMPER



ANTIVIBRACIJSKE PALICE

GLOBOKE OBDELAVE DO 14xD
FH = JEKLO/A + KARBIDNA TRDINA + DUŠILNIK VIBRACIJ

ANTIVIBRATIONSSTANGEN

TIEFLOCHBEARBEITUNG BIS 14xD
FH = A/STAHL + HARTMETALL + DÄMPFER



CODE	TYPE	D	DEEP	L	L1	L2	L3	M
DSUT.720.14.20.01	ATS20-FH14-20	20	14 x D	360	280	152	80	1/8 G
DSUT.720.14.25.01	ATS20-FH14-25	25		450	350	181	100	1/4 G
DSUT.720.14.32.01	ATS20-FH14-32	32		576	448	216	128	1/4 G

THREADED COOLANT CONNECTION FOR HIGH PRESSURE 70 BAR MAX

NAVOJNI PRIKLJUČEK ZA HLADILNO TEKOČINO ZA VISOK TLAK, NAJVEČ 70 BAR

KÜHLMITTELANSCHLUSS MIT GEWINDE FÜR HOCHDRUCK 70 BAR MAX

ATS	MAX OVERHANG RECOMMENDED	MAX PRIPOROČENI IZVLEK	MAX EMPFOHLENE PROJEKTION
BAR MODEL MODEL STANGEN MODELL	TURNING STRUŽENJE DREHEN	GROOVING ZAREZOVANJE NUTEN	THREADING REZANJE NAVOJEV GEWINNEN
NS	5 x dm	3 x dm	3 x dm
FS	8/10 x dm	4/5 x dm	4/5 x dm
FH	12/14 x dm	6/7 x dm	7 x dm

ATS-NS



ATS-FS



ATS-FH

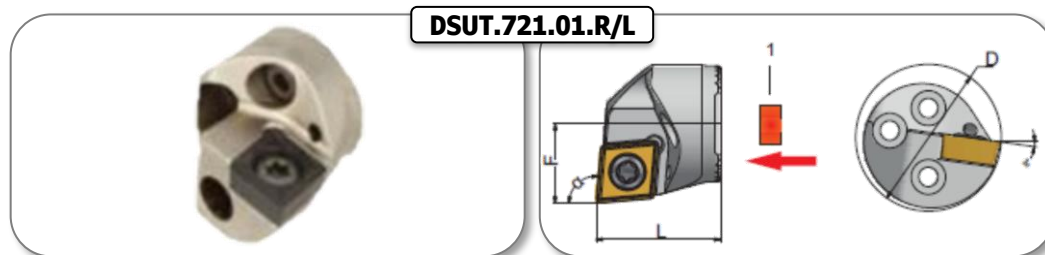


TS-20

TS-20 HEADS
TS20-CCL09 series

GLAVE TS-20
serija TS20-CCL09

KÖPFE TS-20 serie
TS20-CCL09

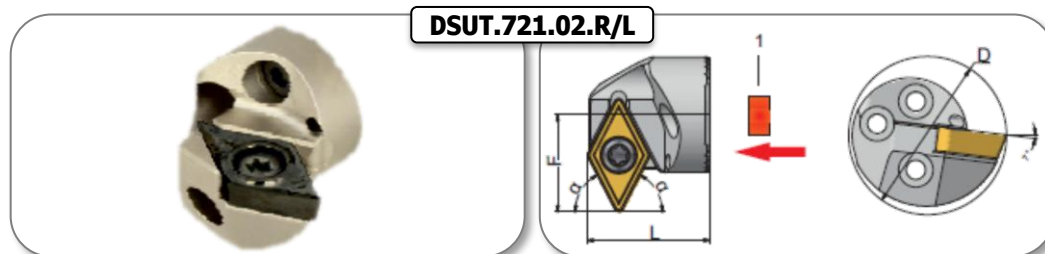


CODE	MODEL	INSERT TYPE	ATS-20 BAR	dmin	L	F	α
DSUT.721.01.R/L	TS20-SCLCR/L-09	CC.. 09T3	DSUT.720...20	24	20,5	13	95°
			DSUT.720...25	29			
			DSUT.720...32	36			

TS-20 HEADS
TS20-DCN11 series

GLAVE TS-20
serija TS20-DCN11

KÖPFE TS-20 serie
TS20-DCN11

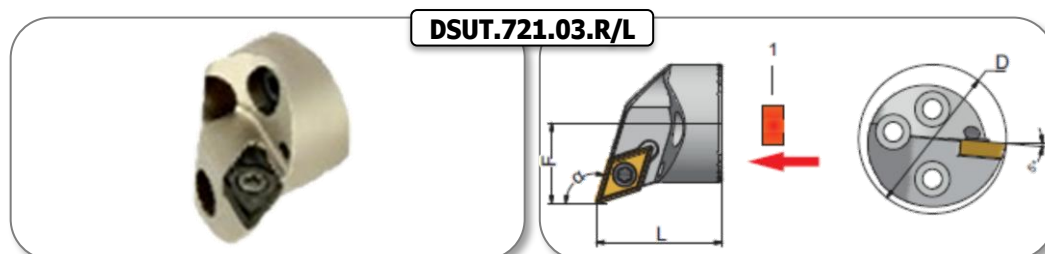


CODE	MODEL	INSERT TYPE	ATS-20 BAR	dmin	L	F	α
DSUT.721.02.R/L	TS20-SDNCR/L-11	DC.. 11T3	DSUT.720...20	26	20,5	16	62,5°
			DSUT.720...25	31			
			DSUT.720...32	38			

TS-20 HEADS
TS20-DCQ07 series

GLAVE TS-20 serija
TS20-DCQ07

KÖPFE TS-20 serie
TS20-DCQ07



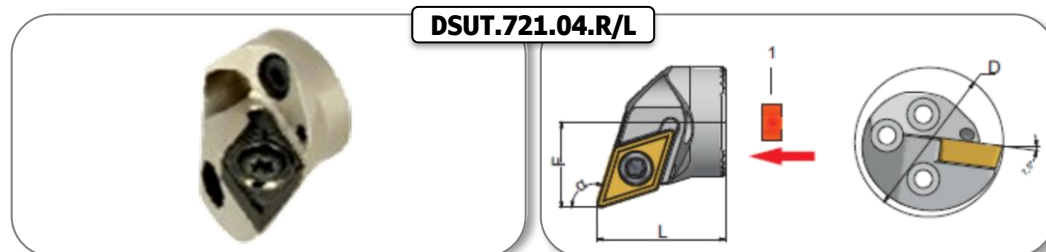
CODE	MODEL	INSERT TYPE	ATS-20 BAR	dmin	L	F	α
DSUT.721.03.R/L	TS20-SDQCR/L-07	DC.. 0702	DSUT.720...20	24	20,5	13	107,5°
			DSUT.720...25	29			
			DSUT.720...32	36			

TS-20

TS-20 HEADS
TS20-DCQ11 series

GLAVE TS-20 serija
TS20-DCQ11

KÖPFE TS-20 serie
TS20-DCQ11

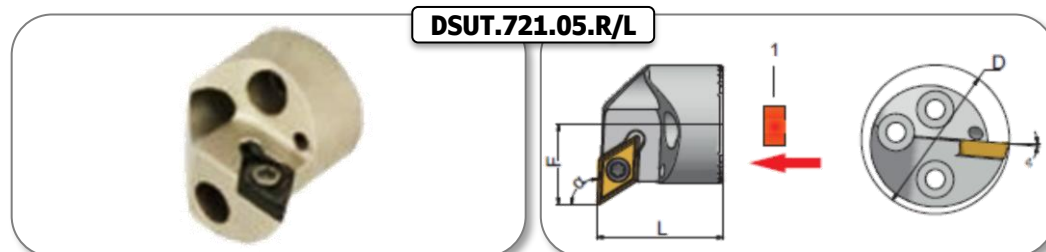


CODE	MODEL	INSERT TYPE	ATS-20 BAR	dmin	L	F	α
DSUT.721.04.R/L	TS20-SDQCR/L-11	DC..11T3	DSUT.720...20	26	22,5	15	107,5°
			DSUT.720...25	31			
			DSUT.720...32	38			

TS-20 HEADS
TS20-DCU07 series

GLAVE TS-20 serija
TS20-DCU07

KÖPFE TS-20 serie
TS20-DCU07

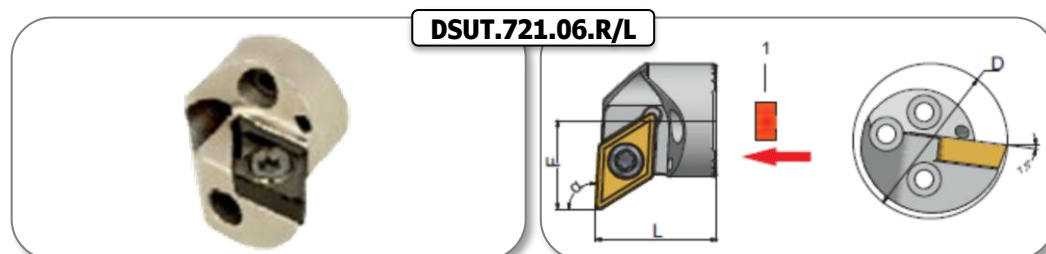


CODE	MODEL	INSERT TYPE	ATS-20 BAR	dmin	L	F	α
DSUT.721.05.R/L	TS20-SDUCR/L-07	DC.. 0702	DSUT.720...20	24	20,5	13	93°
			DSUT.720...25	29			
			DSUT.720...32	36			

TS-20 HEADS
TS20-DCU11 series

GLAVE TS-20 serija
TS20-DCU11

KÖPFE TS-20 serie
TS20-DCU11



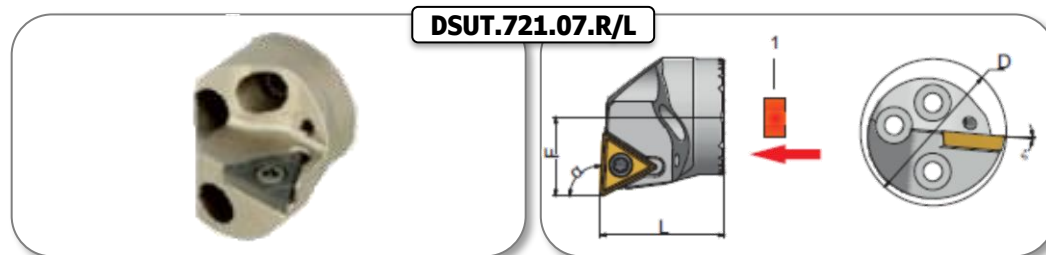
CODE	MODEL	INSERT TYPE	ATS-20 BAR	dmin	L	F	α
DSUT.721.06.R/L	TS20-SDUCR/L-11	DC.. 11T3	DSUT.720...20	26	20,5	15	93°
			DSUT.720...25	31			
			DSUT.720...32	38			

TS-20

TS-20 HEADS
TS20-TCU11 series

GLAVE TS-20
serija TS20-TCU11

KÖPFE TS-20 serie
TS20-TCU11

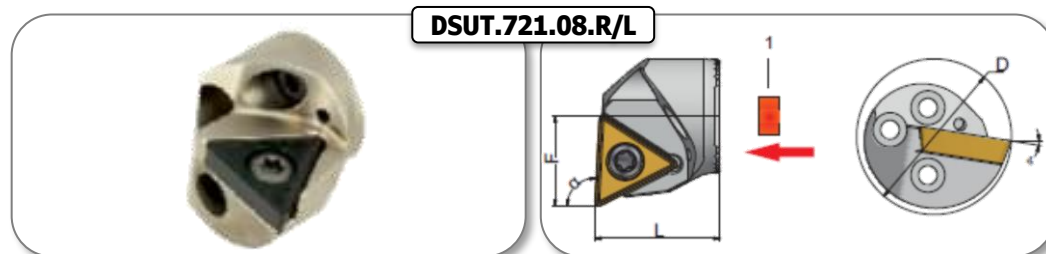


CODE	MODEL	INSERT TYPE	ATS-20 BAR	dmin	L	F	α
DSUT.721.07.R/L	TS20-STUCR/L-11	TC.. 1102	DSUT.720...20	24	20,5	13	93°
			DSUT.720...25	29			
			DSUT.720...32	36			

TS-20 HEADS
TS20-TCU16 series

GLAVE TS-20
serija TS20-TCU16

KÖPFE TS-20 serie
TS20-TCU16

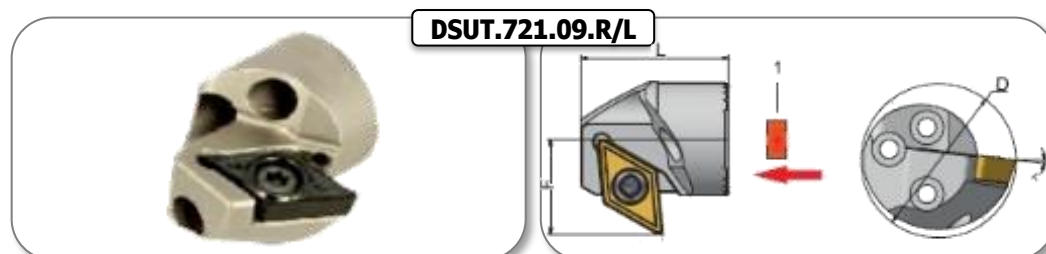


CODE	MODEL	INSERT TYPE	ATS-20 BAR	dmin	L	F	α
DSUT.721.08.R/L	TS20-STUCR/L-16	TC.. 16T3	DSUT.720...20	26	21	15	93°
			DSUT.720...25	31			
			DSUT.720...32	38			

TS-20 HEADS
TS20-DCX11 series

GLAVE TS-20
serija TS20-DCX11

KÖPFE TS-20 serie
TS20-DCX11



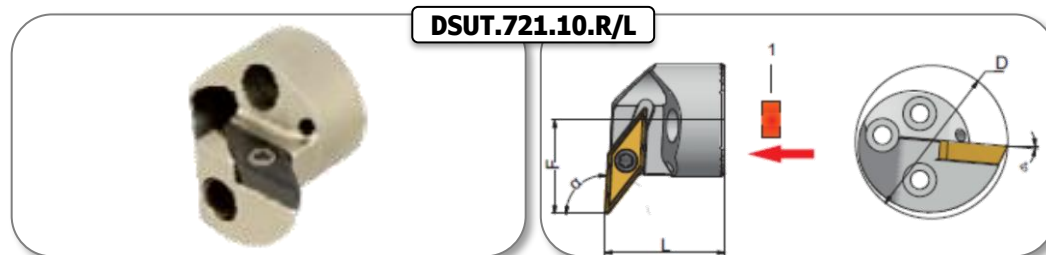
CODE	MODEL	INSERT TYPE	ATS-20 BAR	dmin	L	F	α
DSUT.721.09.R/L	TS20-SDXCR/L-11	DC.. 11T3	DSUT.720...20	26	25	16	93°
			DSUT.720...25	31			
			DSUT.720...32	38			

TS-20

TS-20 HEADS
TS20-VCU11 series

GLAVE TS-20
serija TS20-VCU11

KÖPFE TS-20 serie
TS20-VCU11

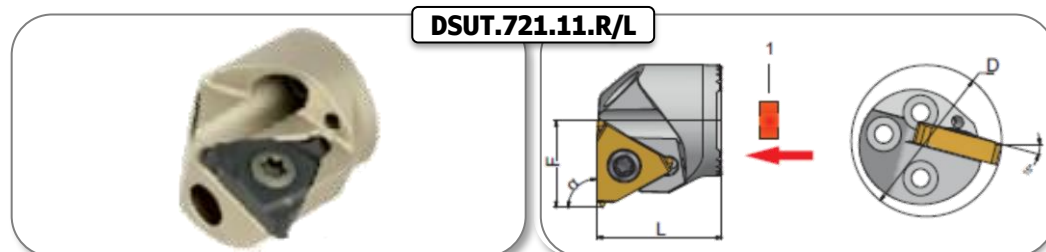


CODE	MODEL	INSERT TYPE	ATS-20 BAR	dmin	L	F	α
DSUT.721.10.R/L	TS20-SVUCR/L-11	VC.. 1103	DSUT.720...20	26	20,5	16	93°
			DSUT.720...25	31			
			DSUT.720...32	38			

TS-20 HEADS
TS20-IR16 series

GLAVE TS-20
serija TS20-IR16

KÖPFE TS-20
serie TS20-IR16

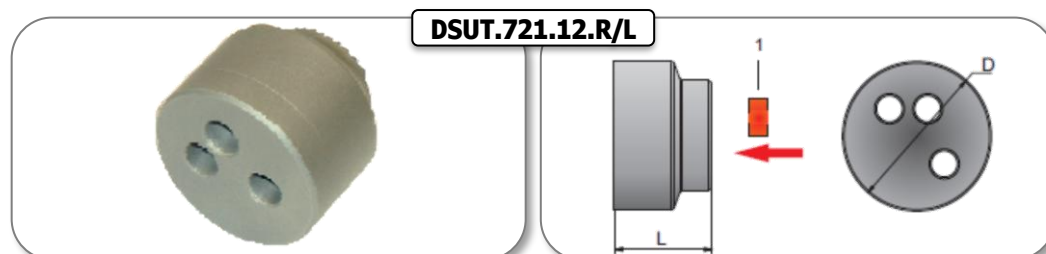


CODE	MODEL	INSERT TYPE	ATS-20 BAR	dmin	L	F	α
DSUT.721.11.R/L	TS20-SIR/L-16	16IR	DSUT.720...20	26	21,7	15	90°
			DSUT.720...25	31			
			DSUT.720...32	38			

TS-20 HEADS
TS20-XX series

GLAVE TS-20
serija TS20-XX

KÖPFE TS-20
serie TS20-XX



CODE	MODEL	INSERT TYPE	ATS-20 BAR	dmin	L	F	α
DSUT.721.12.R/L	TS20-XX-R/L	-	DSUT.720...20	29	24,8	-	-
			DSUT.720...25	29			
			DSUT.720...32	29			

ATS-40

ANTI-VIBRATION BARS

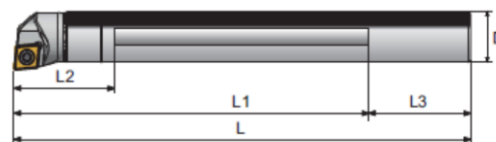
DEEP HOLE MACHINING UP TO 5xD
NS = A/STEEL

ANTIVIBRACIJSKE PALICE

GLOBOKE OBDELAVE DO 5xD
NS = JEKLO/A

ANTIVIBRATIONSSTANGEN

TIEFLOCHBEARBEITUNG BIS 5xD
NS = A/STAHL



CODE	TYPE	D	DEEP	L	L1	L2	L3	M
DSUT.740.05.40.01	ATS40-NS05-40	40	5 x D	360	200	72	160	1/2 G
DSUT.740.05.50.01	ATS40-NS05-50	50		450	250	82	200	1/2 G
DSUT.740.05.60.01	ATS40-NS05-60	60		540	300	92	240	1/2 G

ANTI-VIBRATION BARS

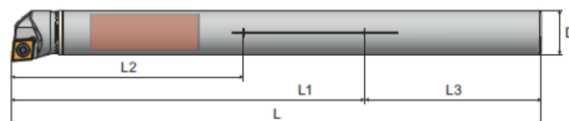
DEEP HOLE MACHINING UP TO 8xD
FS = A/STEEL + DAMPER

ANTIVIBRACIJSKE PALICE

GLOBOKE OBDELAVE DO 8xD
FS = JEKLO/A + DUŠILNIK VIBRACIJ

ANTIVIBRATIONSSTANGEN

TIEFLOCHBEARBEITUNG BIS 8xD
FS = A/STAHL + DÄMPFER



CODE	TYPE	D	DEEP	L	L1	L2	L3	M
DSUT.740.06.40.01	ATS40-FS06-40	40	6 x D NEW!	400	240	155	160	1/2 G
DSUT.740.06.50.01	ATS40-FS06-50	50		500	300	200	200	1/2 G
DSUT.740.06.60.01	ATS40-FS06-60	60		600	360	247	240	1/2 G
DSUT.740.06.80.01	ATS40-FS06-80	80		800	480	300	320	1 G
DSUT.740.08.40.01	ATS40-FS08-40	40	8 x D NEW!	480	320	180	160	1/2 G
DSUT.740.08.50.01	ATS40-FS08-50	50		600	400	215	200	1/2 G
DSUT.740.08.60.01	ATS40-FS08-60	60		720	480	247	240	1/2 G
DSUT.740.08.80.01	ATS40-FS08-80	80		960	640	300	320	1 G

THREADED COOLANT CONNECTION FOR HIGH PRESSURE 70 BAR MAX
NAVOJNI PRIKLJUČEK ZA HLADILNO TEKOČINO ZA VISOK TLAK, NAJVEČ 70 BAR
KÜHLMITTELANSCHLUSS MIT GEWINDE FÜR HOCHDRUCK 70 BAR MAX

ATS-40

ANTI-VIBRATION BARS

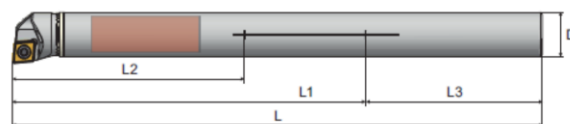
DEEP HOLE MACHINING UP TO 10xD
FS = A/STEEL + DAMPER

ANTIVIBRACIJSKE PALICE

GLOBOKE OBDELAVE DO 10xD
FS = JEKLO/A + DUŠILNIK VIBRACIJ

ANTIVIBRATIONSSTANGEN

TIEFLOCHBEARBEITUNG BIS 10xD
FS = A/STAHL + DÄMPFER



CODE	TYPE	D	DEEP	L	L1	L2	L3	M
DSUT.740.10.40.01	ATS40-FS10-40	40	10 x D NEW!	560	400	200	160	1/2 G
DSUT.740.10.50.01	ATS40-FS10-50	50		700	500	245	200	1/2 G
DSUT.740.10.60.01	ATS40-FS10-60	60		840	600	280	240	1/2 G
DSUT.740.10.80.01	ATS40-FS10-80	80		1120	800	365	320	1 G

ANTI-VIBRATION BARS

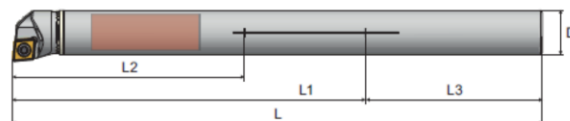
DEEP HOLE MACHINING UP TO 12xD
FS = A/STEEL + DAMPER

ANTIVIBRACIJSKE PALICE

GLOBOKE OBDELAVE DO 12xD
FS = JEKLO/A + DUŠILNIK VIBRACIJ

ANTIVIBRATIONSSTANGEN

TIEFLOCHBEARBEITUNG BIS 12xD
FS = A/STAHL + DÄMPFER



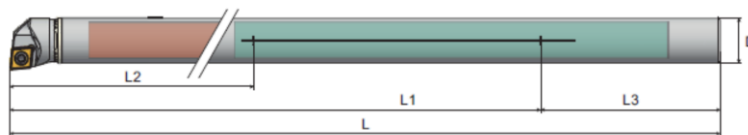
CODE	TYPE	D	DEEP	L	L1	L2	L3	M
DSUT.740.12.80.01	ATS40-FS12-80	80	12 x D NEW!	1280	960	365	320	1 G

THREADED COOLANT CONNECTION FOR HIGH PRESSURE 70 BAR MAX
NAVOJNI PRIKLJUČEK ZA HLADILNO TEKOČINO ZA VISOK TLAK, NAJVEČ 70 BAR
KÜHLMITTELANSCHLUSS MIT GEWINDE FÜR HOCHDRUCK 70 BAR MAX

ATS-40

ANTI-VIBRATION BARS

DEEP HOLE MACHINING UP TO 12xD
FH = A/STEEL + CARBIDE + DAMPER



ANTIVIBRACIJSKE PALICE

GLOBOKE OBDELAVE DO 12xD
FH = JEKLO/A + KARBIDNA TRDINA + DUŠILNIK VIBRACIJ

ANTIVIBRATIONSSTANGEN

TIEFLOCHBEARBEITUNG BIS 12xD
FH = A/STAHL + HARTMETALL + DÄMPFER



CODE	TYPE	D	DEEP	L	L1	L2	L3	M
DSUT.741.12.40.01	ATS40-FH12-40	40	12 x D	640	480	215	160	1/2 G
DSUT.741.12.50.01	ATS40-FH12-50	50		800	600	270	200	1/2 G
DSUT.741.12.60.01	ATS40-FH12-60	60		960	720	325	240	1/2 G
DSUT.741.14.40.01	ATS40-FH14-40	40	14 x D NEW!	720	560	250	160	1/2 G
DSUT.741.14.50.01	ATS40-FH14-50	50		900	700	300	200	1/2 G
DSUT.741.14.60.01	ATS40-FH14-60	60		1080	840	350	240	1/2 G

THREADED COOLANT CONNECTION FOR HIGH PRESSURE 70 BAR MAX

NAVOJNI PRIKLJUČEK ZA HLADILNO TEKOČINO ZA VISOK TLAK, NAJVEČ 70 BAR

KÜHLMITTELANSCHLUSS MIT GEWINDE FÜR HOCHDRUCK 70 BAR MAX

ATS	MAX OVERHANG RECOMMENDED	MAX SPORGENZA RACCOMANDATA	MAX EMPFOHLENE PROJEKTION
BAR MODEL MODEL STANGEN MODELL	TURNING STRUŽENJE DREHEN	GROOVING ZAREZOVANJE NUTEN	THREADING REZANJE NAVOJEV GEWINNEN
NS	5 x dm	3 x dm	3 x dm
FS	8/10 x dm	4/5 x dm	4/5 x dm
FH	12/14 x dm	6/7 x dm	7 x dm

ATS-NS



ATS-FS



ATS-FH

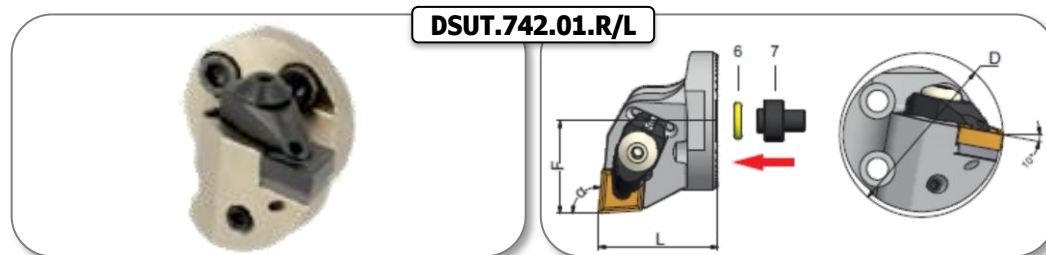


TS-40

TS-40 HEADS
TS40-CNL12 series

GLAVE TS-40
serija TS40-CNL12

KÖPFE TS-40 serie
TS40-CNL12

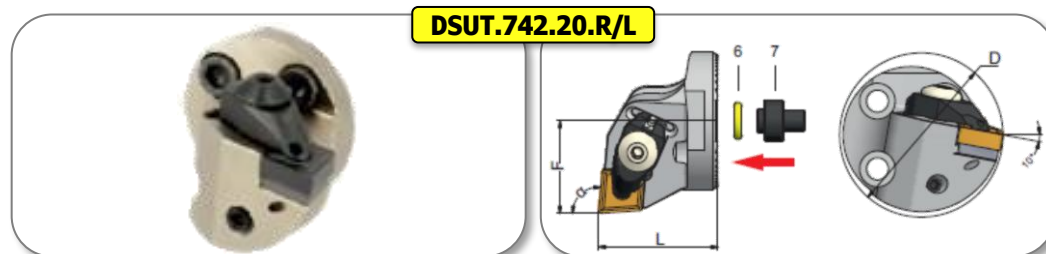


CODE	MODEL	INSERT TYPE	ATS-40 BAR	dmin	L	F	α
DSUT.742.01.R/L	TS40-DCLNR/L-12	CN..1204	DSUT.740...40	48	35	27	95°
			DSUT.740...50	58			
			DSUT.740...60	68			
			DSUT.740...80	88			

TS-40 HEADS
TS40-CNL16 series

GLAVE TS-40
serija TS40-CNL16

KÖPFE TS-40 serie
TS40-CNL16

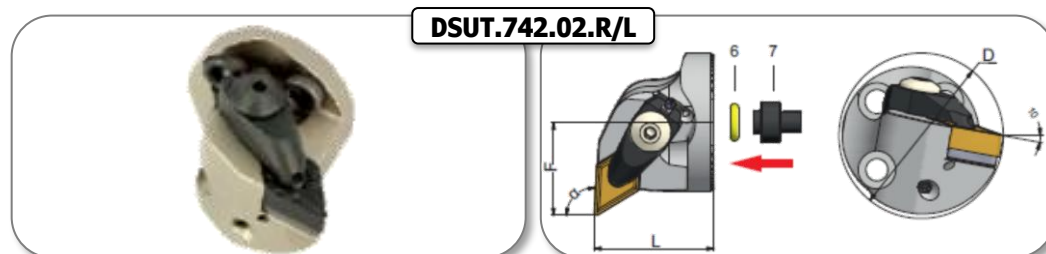


CODE	MODEL	INSERT TYPE	ATS-40 BAR	dmin	L	F	α
DSUT.742.20.R/L	TS40-DCLNR/L-16	CN.. 16 NEW!	DSUT.740...40	48	35	27	95°
			DSUT.740...50	58			
			DSUT.740...60	68			
			DSUT.740...80	88			

TS-40 HEADS
TS40-DNQ15 series

GLAVE TS-40 serija
TS40-DNQ15

KÖPFE TS-40 serie
TS40-DNQ15



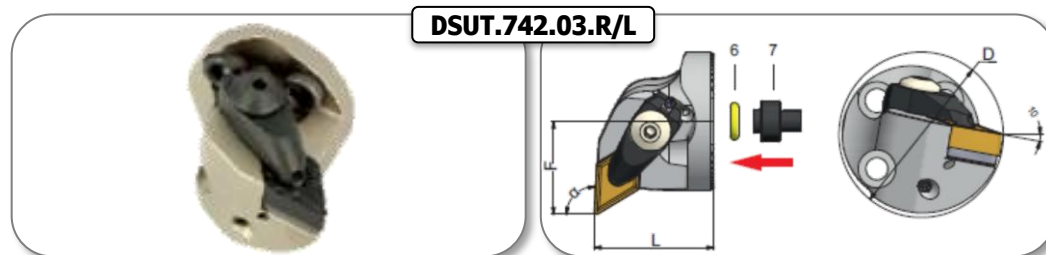
CODE	MODEL	INSERT TYPE	ATS-40 BAR	dmin	L	F	α
DSUT.742.02.R/L	TS40-DDQNR/L-15	DN.. 1506	DSUT.740...40	48	35	27	107,5°
			DSUT.740...50	58			
			DSUT.740...60	68			
			DSUT.740...80	88			

TS-40

TS-40 HEADS
TS40-DNU15 series

GLAVE TS-40 serija
TS40-DNU15

KÖPFE TS-40 serie
TS40-DNU15

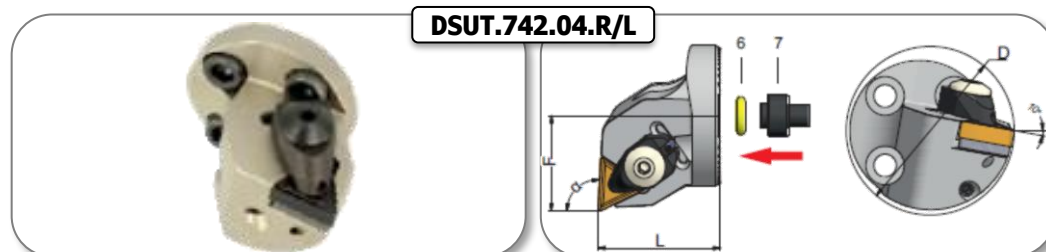


CODE	MODEL	INSERT TYPE	ATS-40 BAR	dmin	L	F	α
DSUT.742.03.R/L	TS40-DDUNR/L-15	DN.. 1506	DSUT.740...40	48	35	27	93°
			DSUT.740...50	58			
			DSUT.740...60	68			
			DSUT.740...80	88			

TS-40 HEADS
TS40-TNU16 series

GLAVE TS-40 serija
TS40-TNU16

KÖPFE TS-40 serie
TS40-TNU16

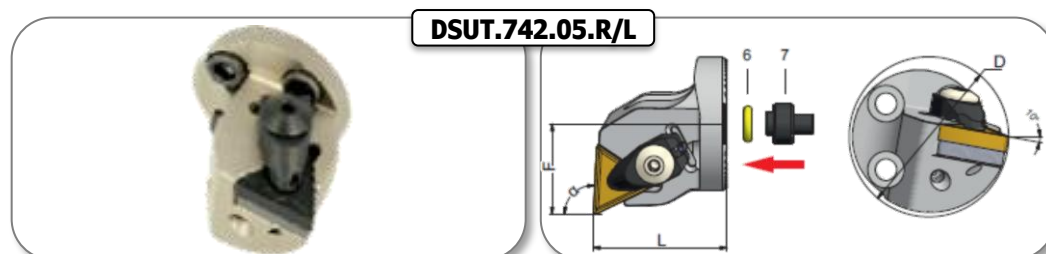


CODE	MODEL	INSERT TYPE	ATS-40 BAR	dmin	L	F	α
DSUT.742.04.R/L	TS40-DTUNR/L-16	TN.. 1604	DSUT.740...40	45	35	22	107,5°
			DSUT.740...50	55			
			DSUT.740...60	65			
			DSUT.740...80	85			

TS-40 HEADS
TS40-TNU22 series

GLAVE TS-40 serija
TS40-TNU22

KÖPFE TS-40 serie
TS40-TNU22



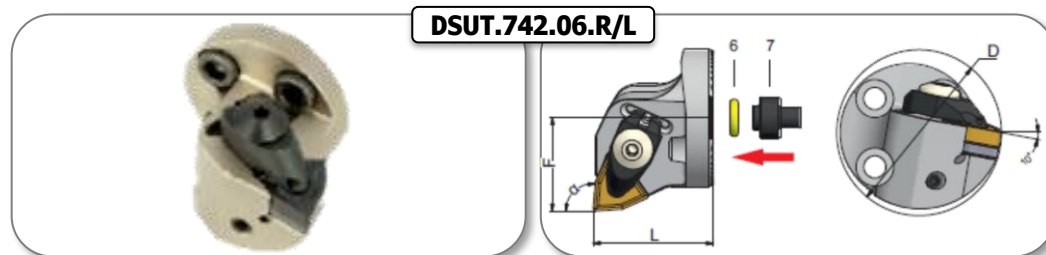
CODE	MODEL	INSERT TYPE	ATS-40 BAR	dmin	L	F	α
DSUT.742.05.R/L	TS40-DTUNR/L-22	TN.. 2204	DSUT.740...40	48	40	27	93°
			DSUT.740...50	58			
			DSUT.740...60	68			
			DSUT.740...80	88			

TS-40

TS-40 HEADS
TS40-WNL08 series

GLAVE TS-40 serija
TS40-WNL08

KÖPFE TS-40 serie
TS40-WNL08

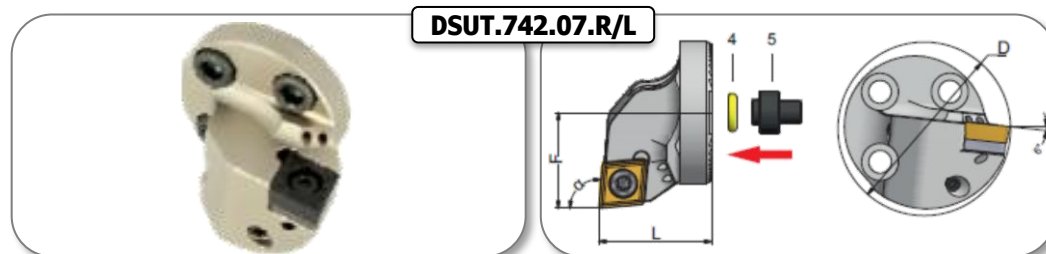


CODE	MODEL	INSERT TYPE	ATS-40 BAR	dmin	L	F	α
DSUT.742.06.R/L	TS40-DWLNRL-08	WN.. 0804	DSUT.740...40	48	35	27	95°
			DSUT.740...50	58			
			DSUT.740...60	68			
			DSUT.740...80	88			

TS-40 HEADS
TS40-CCL12 series

GLAVE TS-40 serija
TS40-CCL12

KÖPFE TS-40 serie
TS40-CCL12

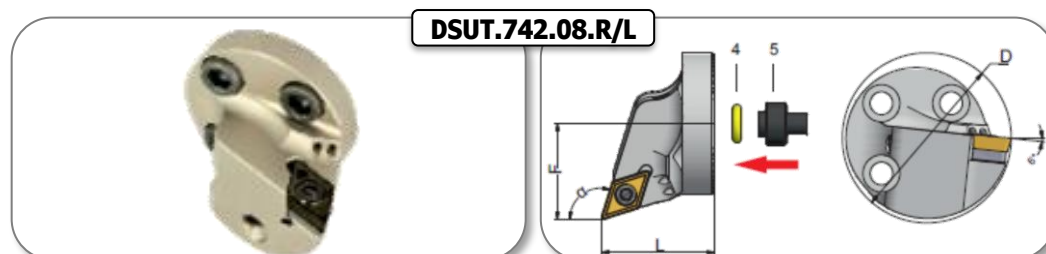


CODE	MODEL	INSERT TYPE	ATS-40 BAR	dmin	L	F	α
DSUT.742.07.R/L	TS40-SCLCR/L-12	CC.. 1204	DSUT.740...40	49	32	27	95°
			DSUT.740...50	59			
			DSUT.740...60	69			
			DSUT.740...80	89			

TS-40 HEADS
TS40-DCQ11 series

GLAVE TS-40 serija
TS40-DCQ11

KÖPFE TS-40 serie
TS40-DCQ11



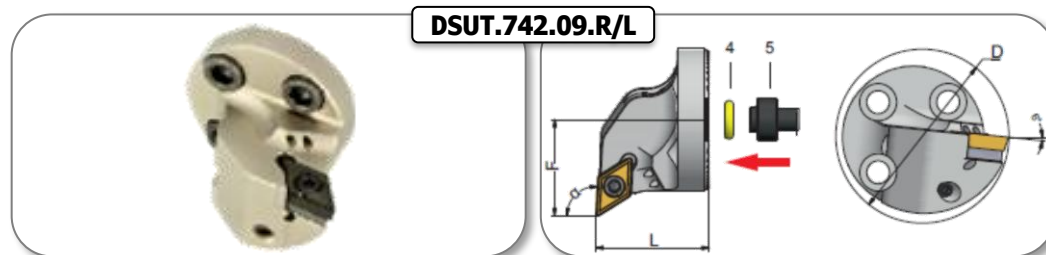
CODE	MODEL	INSERT TYPE	ATS-40 BAR	dmin	L	F	α
DSUT.742.08.R/L	TS40-SDQCR/L-11	DC.. 11T3	DSUT.740...40	48	32	27	107,5°
			DSUT.740...50	58			
			DSUT.740...60	68			
			DSUT.740...80	89			

TS-40

TS-40 HEADS
TS40-DCU11 series

GLAVE TS-40 serija
TS40-DCU11

KÖPFE TS-40 serie
TS40-DCU11

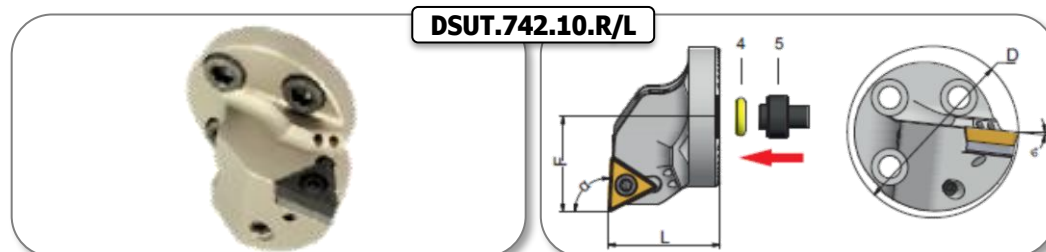


CODE	MODEL	INSERT TYPE	ATS-40 BAR	dmin	L	F	α
DSUT.742.09.R/L	TS40-SDUCR/L-11	DC.. 11T3	DSUT.740...40	49	32	27	93°
			DSUT.740...50	59			
			DSUT.740...60	69			
			DSUT.740...80	89			

TS-40 HEADS
TS40-TCU16 series

GLAVE TS-40 serija
TS40-TCU16

KÖPFE TS-40 serie
TS40-TCU16

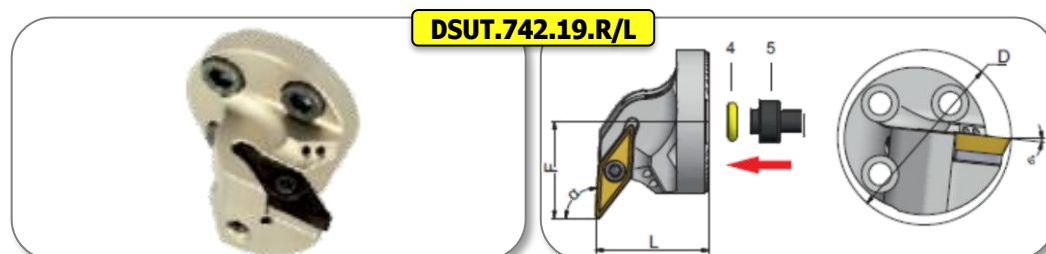


CODE	MODEL	INSERT TYPE	ATS-40 BAR	dmin	L	F	α
DSUT.742.10.R/L	TS40-STUCR/L-16	TC.. 16T3	DSUT.740...40	49	32	27	93°
			DSUT.740...50	59			
			DSUT.740...60	69			
			DSUT.740...80	89			

TS-40 HEADS
TS40-VBU16 series

GLAVE TS-40 serija
TS40-VBU16

KÖPFE TS-40 serie
TS40-VBU16



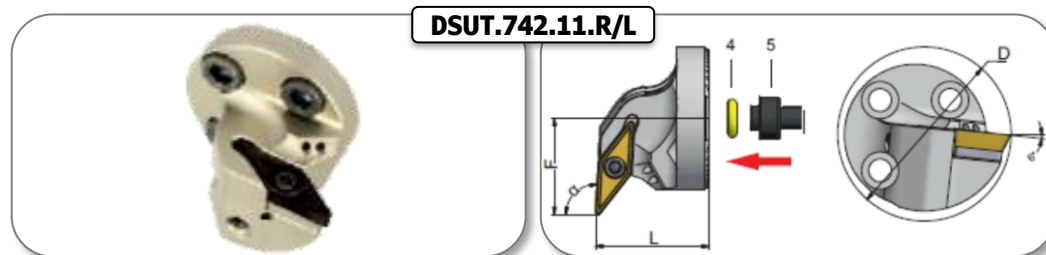
CODE	MODEL	INSERT TYPE	ATS-40 BAR	dmin	L	F	α
DSUT.742.19.R/L	TS40-SVUBR/L-16	VB 16 NEW!	DSUT.740...40	49	32	27	93°
			DSUT.740...50	59			
			DSUT.740...60	69			
			DSUT.740...80	89			

TS-40

TS-40 HEADS
TS40-VCU16 series

GLAVE TS-40
serija TS40-VCU16

KÖPFE TS-40 serie
TS40-VCU16

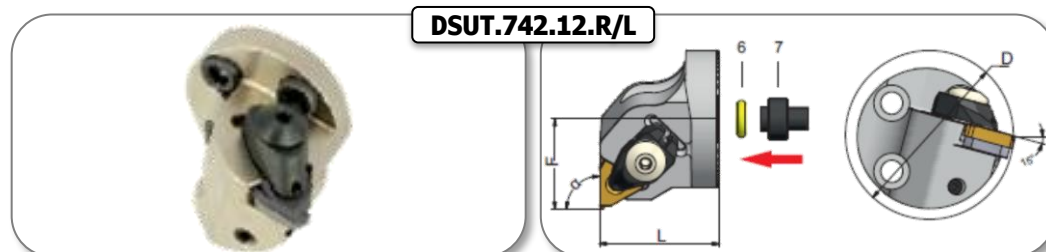


CODE	MODEL	INSERT TYPE	ATS-40 BAR	dmin	L	F	α
DSUT.742.11.R/L	TS40-SVUCR/L-16	VC.. 1604	DSUT.740...40	49	32	27	93°
			DSUT.740...50	59			
			DSUT.740...60	69			
			DSUT.740...80	89			

TS-40 HEADS
TS40-VBU16 series

GLAVE TS-40
serija TS40-VBU16

KÖPFE TS-40 serie
TS40-VBU16

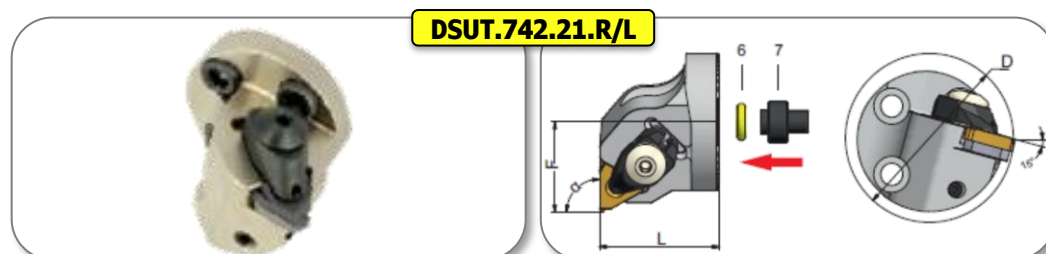


CODE	MODEL	INSERT TYPE	ATS-40 BAR	dmin	L	F	α
DSUT.742.12.R/L	TS40-DIR/L-16	IR/IL16	DSUT.740...40	49	35	26	90°
			DSUT.740...50	59			
			DSUT.740...60	69			
			DSUT.740...80	89			

TS-40 HEADS
TS40-IRL22 series

GLAVE TS-40
serija TS40-IRL22

KÖPFE TS-40
serie TS40-IRL22



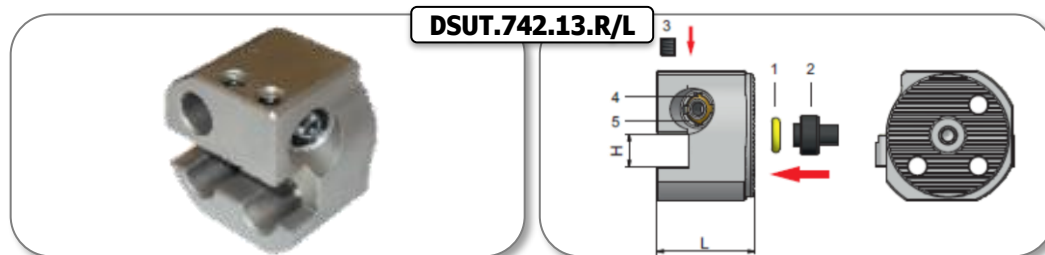
CODE	MODEL	INSERT TYPE	ATS-40 BAR	dmin	L	F	α
DSUT.742.21.R/L	TS40-DIR/L-22	IR/IL 22 NEW!	DSUT.740...40	49	40	27	90°
			DSUT.740...50	59			
			DSUT.740...60	69			
			DSUT.740...80	89			

TS-40

TS-40 HEADS
TS40-PU10 series

GLAVE TS-40
serija TS40-PU10

KÖPFE TS-40
serie TS40-PU10

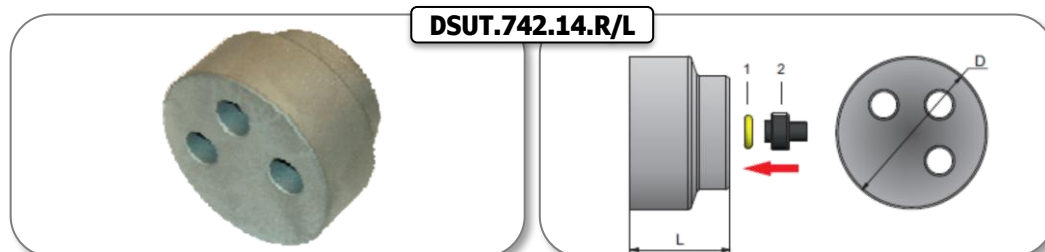


CODE	MODEL	FOR TOOLS	ATS-40 BAR	dmin	L	H
DSUT.742.13.R/L	TS40-PU10-R/L	10x10	DSUT.740...40	-	32	10
			DSUT.740...50	-		
			DSUT.740...60	-		
			DSUT.740...80	-		

TS-40 HEADS
TS40-XX series

GLAVE TS-40
serija TS40-XX

KÖPFE TS-40
serie TS40-XX

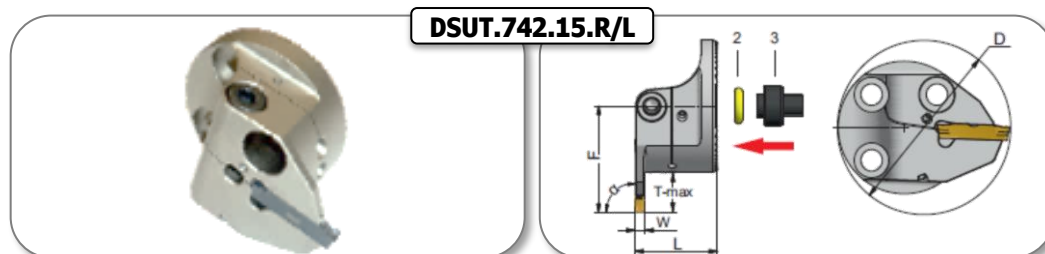


CODE	MODEL		ATS-40 BAR	D	L	F	α
DSUT.742.14.R/L	TS40-XX-R/L	-	DSUT.740...40	54	-	-	-
			DSUT.740...50	54			
			DSUT.740...60	54			
			DSUT.740...80	54			

TS-40 HEADS
TS40-IG2011 series

GLAVE TS-40 serija
TS40-IG2011

KÖPFE TS-40
serie TS40-IG2011



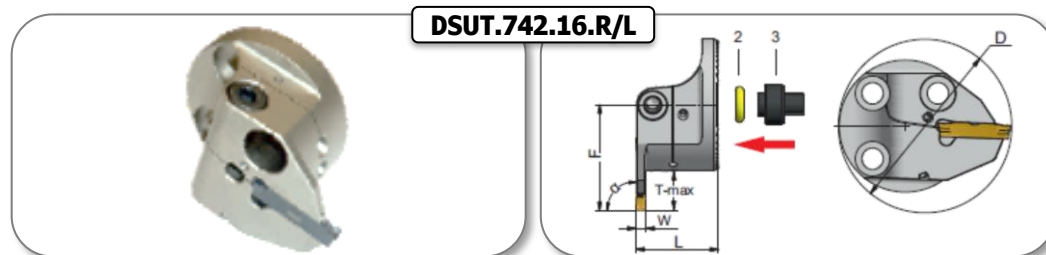
CODE	MODEL	INSERT TYPE	ATS-40 BAR	D	L	F	α	W	Tmax
DSUT.742.15.R/L	TS40-CIGR/L-2011	CTSN22-20	DSUT.740...40	52,5	25	32	90°	2	11
			DSUT.740...50	62,5					
			DSUT.740...60	72,5					
			DSUT.740...80	92,5					

TS-40

TS-40 HEADS
TS40-IG3011 series

GLAVE TS-40 serija
TS40-IG3011

KÖPFE TS-40
serie TS40-IG3011

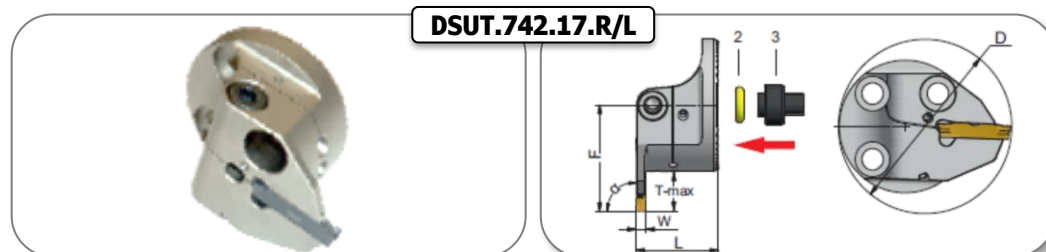


CODE	MODEL	INSERT TYPE	ATS-40 BAR	D	L	F	α	W	Tmax
DSUT.742.16.R/L	TS40-CIGR/L-3011	CTSN22-30	DSUT.740...40	52,5	25	32	90°	3	11
			DSUT.740...50	62,5					
			DSUT.740...60	72,5					
			DSUT.740...80	92,5					

TS-40 HEADS
TS40-IG4011 series

GLAVE TS-40 serija
TS40-IG4011

KÖPFE TS-40
serie TS40-IG4011

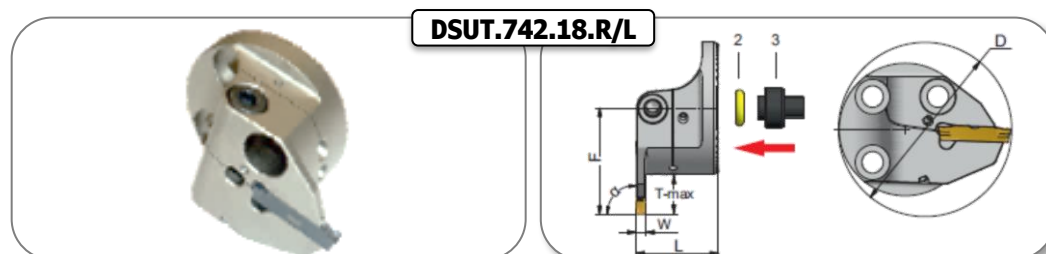


CODE	MODEL	INSERT TYPE	ATS-40 BAR	D	L	F	α	W	Tmax
DSUT.742.17.R/L	TS40-CIGR/L-4011	CTSN25-40	DSUT.740...40	52,5	25	32	90°	4	11
			DSUT.740...50	62,5					
			DSUT.740...60	72,5					
			DSUT.740...80	92,5					

TS-40 HEADS
TS40-IG5011 series

GLAVE TS-40 serija
TS40-IG5011

KÖPFE TS-40
serie TS40-IG5011



CODE	MODEL	INSERT TYPE	ATS-40 BAR	D	L	F	α	W	Tmax
DSUT.742.18.R/L	TS40-CIGR/L-5011	CTSN25-50	DSUT.740...40	52,5	25	32	90°	5	11
			DSUT.740...50	62,5					
			DSUT.740...60	72,5					
			DSUT.740...80	92,5					

NEW!

TS-ZERO

NEW!

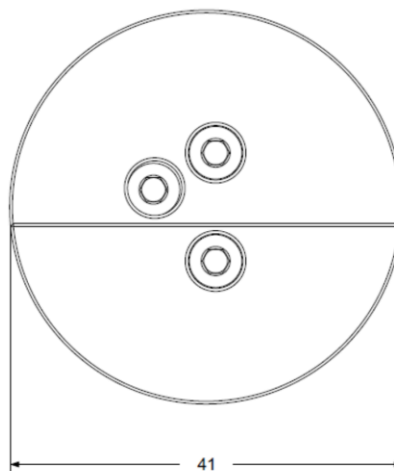
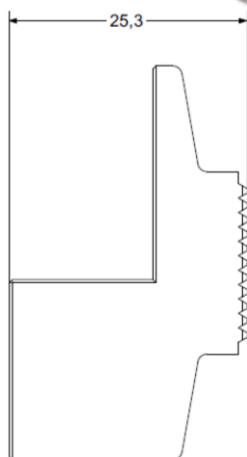
TS-20 HEADS
tool presetting head

GLAVE TS-20
za ničelno nastavitev orodij

KÖPFE TS-20
Werkzeugvoreinstellkopf

CODE

DSUT.721.99.00

NEW!

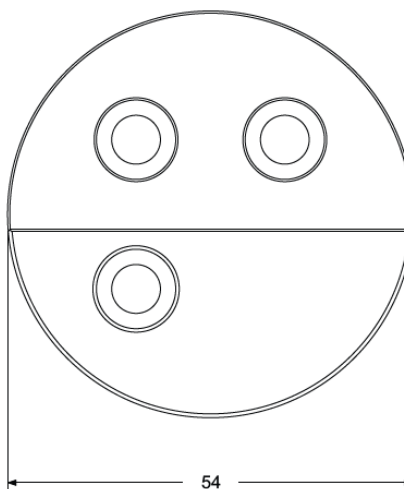
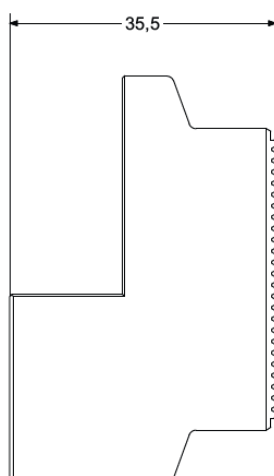
TS-40 HEADS
tool presetting head

GLAVE TS-40
za ničelno nastavitev orodij

KÖPFE TS-40
Werkzeugvoreinstellkopf

CODE

DSUT.742.99.00

NEW!

RTS BAR BUSHINGS

ALLOW ANTIVIBRATION BARS TO BE FIXED TO THE TOOLHOLDERS OF THE MACHINE TOOL

PUŠE ZA VPETJE PALIC RTS

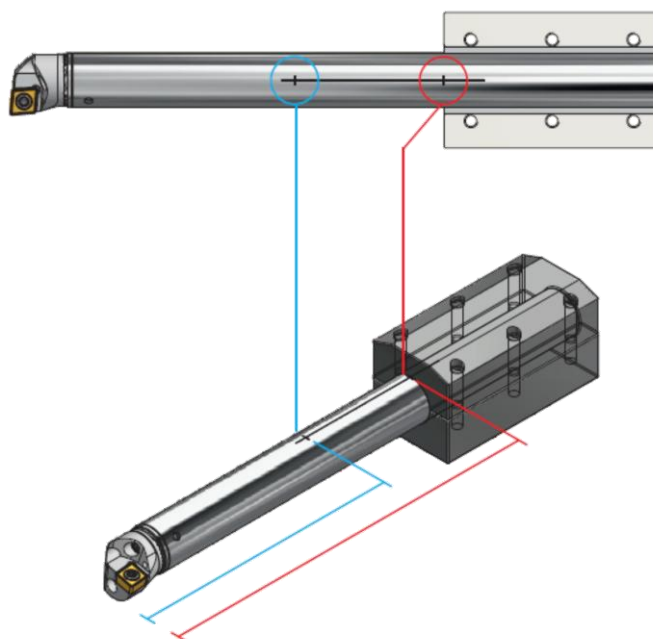
OMOGOČAJO PRAVILNO VPETJE ANTIVIBRACIJSKIH PALIC V DRŽALA ORODIJ

RTS BUCHSEN FÜR ANTIVIBRATIONSSTANGEN

ERMÖGLICHEN DIE BEFESTIGUNG VON ANTIVIBRATIONSSTANGEN AN DEN WERKZEUGHALTERN DER WERKZEUGMASCHINE



CODE	TYPE	D	d	L
DSUT.745.25.20.080	RTS-2520-080	25	20	80
DSUT.745.32.25.100	RTS-3225-100	32	25	100
DSUT.745.40.32.128	RTS-4032-128	40	32	128
DSUT.745.50.40.160	RTS-5040-160	50	40	160
DSUT.745.60.50.200	RTS-6050-200	60	50	200



5xD			8xD			10xD			12xD			14xD		
Ø mm	min	max	Ø mm	min	max	Ø mm	min	max	Ø mm	min	max	Ø mm	min	max
20	40	100	20	105	160	20	120	200	20	135	240	20	152	280
25	45	125	25	120	200	25	140	250	25	159	300	25	181	350
32	52	160	32	142	256	32	165	320	32	188	384	32	216	448
40	72	200	40	180	320	40	200	400	40	215	480			
50	82	250	50	215	400	50	245	500	50	270	600			
60	92	300	60	247	480	60	280	600	60	325	720			



CLAMPING

It is important to ensure proper locking of ATS bars for maximum results.

Respect the proportions between overhang and clamping! Example a bar D60 10xD bar will have a total length of 840 mm as follows:

- 600 mm overhang
- 240 mm clamping

GOOD METHOD:

- to use splitted bushings

EXCELLENT METHOD:

- to use splitted bushings + splitted collar

BLOCCAGGIO



E' importante garantire un corretto bloccaggio delle barre ATS per ottenere i massimi risultati.

Rispettate le proporzioni tra sporgenza e bloccaggio!

Esempio una barra D60 10xD avrà una lunghezza totale pari ad 840 mm così suddivisi:

- 600 mm sporgenza
- 240 mm bloccaggio

METODO BUONO:

- utilizzare bussole tagliate

METODO OTTIMALE:

- utilizzare bussole tagliate e collare tagliato



KLEMMUNG

Um ein optimales Ergebnis zu erzielen, ist es wichtig, dass die ATS-Stangen richtig verriegelt werden.

Achten Sie auf die Proportionen zwischen Überstand und Klemmung! Beispiel: Eine Stange D60 10xD hat eine Gesamtlänge von 840 mm wie folgt:

- 600 mm Überhang
- 240 mm Einspannung

GUTE METHODE:

- Verwendung geteilter Buchsen

AUSGEZEICHNETE METHODE:

- Verwendung von geteilten Buchsen + geteiltem Bund

SERRAGE



Il est important d'assurer un bon verrouillage des barres ATS pour obtenir des résultats optimaux.

Respectez les proportions entre le débord et le serrage !

Exemple: une barre D60 10xD aura une longueur totale de 840 mm comme suit:

- 600 mm de dépassement
- 240 mm de serrage

BONNE MÉTHODE:

- utiliser des douilles fendues

EXCELLENTE MÉTHODE:

- utiliser des douilles fendues + un collier fendu



VPETJE

Za doseganje najboljših rezultatov je pomembno zagotoviti pravilno vpetje ATS palic. Upoštevajte razmerje med izvlekom in vpetjem!

Primer: palica D60 10xD ima skupno dolžino 840 mm, kot sledi:

- 600 mm izvleka
- 240 mm vpetja

DOBRA METODA

- uporabiti deljene puše

ODLIČNA METODA:

- uporabiti deljene puše + deljeni obroč





CENTERING

To make perfect centering on ATS anti-vibration bars simply observe the line drawn on the bar and position the clamping between the 2 limit notches.

To preset the insert is available TS-ZERO or you can simply use a tailstock and bring the ends (insert radius and tailstock cusp) into contact.



ZENTRIEREN

Für eine perfekte Zentrierung auf ATS-antivibrationsstangen genügt es, die auf der Schiene eingezeichnete Linie zu beachten und die Klemmung zwischen den 2 Grenzkerben zu positionieren.

Zum Voreinstellen der Wendeplatte steht TS-ZERO zur Verfügung oder Sie können einfach einen Reitstock verwenden und die Enden (Wendeplattenradius und Reitstockhöcker) in Kontakt bringen.



CENTRIRANJE

Za popolno centriranje antivibracijskih palic ATS je dovolj, da upoštevate označeno črto na palici in vpetje pozicionirate med obe mejni zarezi.

Za prednastavitev ploščice je na voljo TS-ZERO, lahko pa preprosto uporabite tudi konjiček in staknete konici oziroma kontaktni točki: radij ploščice in vrh konjička.

CENTRAGGIO



Per effettuare un centraggio perfetto sulle barre antivibranti ATS basterà osservare la linea tracciata sulla barra e posizionarsi tra le 2 tacche limite.

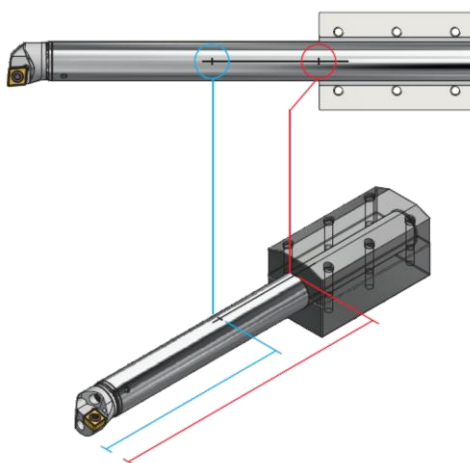
Per azzerare l'inserto è disponibile TS-ZERO oppure potrete semplicemente utilizzare una contropunta e mettere a contatto le estremità (raggio inserto e cuspidale).

CENTRAGE



Pour réaliser un centrage parfait sur les barres antivibratoires ATS, il suffit de respecter la ligne tracée sur la barre et de positionner le serrage entre les 2 encoches limites.

Pour prérégler la plaquette, il est possible d'utiliser le TS-ZERO ou simplement une contre-pointe et de mettre en contact les extrémités (rayon de la plaquette et cuspidale de la contre-pointe).



5xD			8xD			10xD			12xD			14xD		
Ø mm	min	max	Ø mm	min	max	Ø mm	min	max	Ø mm	min	max	Ø mm	min	max
20	40	100	20	105	160	20	120	200	20	135	240	20	152	280
25	45	125	25	120	200	25	140	250	25	159	300	25	181	350
32	52	160	32	142	256	32	165	320	32	188	384	32	216	448
40	72	200	40	180	320	40	200	400	40	215	480			
50	82	250	50	215	400	50	245	500	50	270	600			
60	92	300	60	247	480	60	280	600	60	325	720			

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Distributor

ATS
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