



General Product Catalogue

TURNING



MILLING



DRILLING



GROOVING



SLOT



BORING



PANAS Tools s.r.o., 95 8 54 Hradište 371

Tel.: 038/7496764-5, email: info@panas.sk

www.panas.sk

THE RISING **POWER** OF QUALITY **2026** v1

Milling Tools

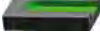
Frézy 90°



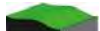
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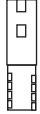
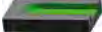
- ▶ 90 Milling Tools
- ▶ 45 Milling Tools
- ▶ Copy Milling Tools
- ▶ Ball Nose Milling Tools

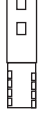
Insert			APKT 1003.. ISO	APKT 1604.. ISO	APMT 0602.. KRLY	APMT 11T3.. KRLY	APMT 1135.. YG-1	APKT 09T3.. TGTC
								
Page			F248-251	F252-F253	F254	F254-F255	F256-F257	F258-F259
Dimeter Range (mm)			Ø12-125	Ø25-200	Ø10-123	Ø16-80	Ø16-80	Ø16-20
Approach Angle			90°	90°	90°	90°	90°	90°
Max. Cutting Depth			10mm	16mm	6mm	11mm	11mm	8.8mm
Holder Type	Endmills		✓ Dia Range (mm) Ø12-40	✓ Dia Range (mm) Ø25-40	✓ Dia Range (mm) Ø10-13	✓ Dia Range (mm) Ø16-32	✓ Dia Range (mm) Ø16-26	✓ Dia Range (mm) Ø16-20
	Modular Mills		✓ Dia Range (mm) Ø16-42	✓ Dia Range (mm) Ø25-42	-	✓ Dia Range (mm) Ø16-25	✓ Dia Range (mm) Ø16-25	✓ Dia Range (mm) Ø16-20
	Face Mills		✓ Dia Range (mm) Ø40-125	✓ Dia Range (mm) Ø40-200	-	✓ Dia Range (mm) Ø40-80	✓ Dia Range (mm) Ø40-80	-
	Helical Mills		✓ Dia Range (mm) Ø20-40	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓
	Plunging		✓	✓	✓	✓	✓	✓
	Helical Interpolation		✓	✓	✓	✓	✓	✓
	Side Profile Milling		✓	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-

Insert			APKT 1204.. TGTC	APKT 1705.. TGTC	APKT 11T3.. ZCC	R390.0702.. SNDVK	R390.11T3.. SNDVK	R390.1704.. SNDVK	R390.1806.. SNDVK
Page			F258-F259	F258-F259	F260-F261	F262	F262-F263	F262-F263	F263
Dimeter Range (mm)			Ø20-63	Ø25-100	Ø16-63	Ø10-16	Ø16-63	Ø25-125	Ø50-160
Approach Angle			90°	90°	90°	90°	90°	90°	90°
Max. Cutting Depth			12mm	16mm	11mm	5.8mm	10mm	15.7mm	15.4mm
Holder Type	Endmills		✓ Dia Range (mm) Ø20-32	✓ Dia Range (mm) Ø25-40	✓ Dia Range (mm) Ø16-32	✓ Dia Range (mm) Ø10-16	✓ Dia Range (mm) Ø16-25	✓ Dia Range (mm) Ø25-30	-
	Modular Mills		✓ Dia Range (mm) Ø20-32	-	✓ Dia Range (mm) Ø16-25	-	✓ Dia Range (mm) Ø16-32	-	-
	Face Mills		✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø50-100	✓ Dia Range (mm) Ø40-63	-	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø50-125	✓ Dia Range (mm) Ø50-160
	Helical Mills		-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓	✓
	Plunging		✓	✓	✓	✓	✓	✓	✓
	Helical Interpolation		✓	✓	✓	✓	✓	✓	✓
	Side Profile Milling		-	-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-	-

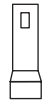
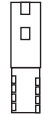
Insert			AS.T 11T3.. TNGLY	BD.T 0703.. KYCR	BD.T 11T3.. KYCR	BD.T 1704.. KYCR	AXMT 1235.. SMTM	AXMT 1705.. SMTM
Page			F264-F265	F266	F266-F267	F266-F267	F268-F269	F268-F269
Dimeter Range (mm)			Ø16-63	Ø10-12	Ø16-100	Ø25-100	Ø16-80	Ø25-100
Approach Angle			90°	90°	90°	90°	90°	90°
Max. Cutting Depth			10.6mm	6mm	10mm	15.7mm	10mm	14mm
Holder Type	Endmills		✓ Dia Range (mm) Ø16-32	✓ Dia Range (mm) Ø10-12	✓ Dia Range (mm) Ø16-32	✓ Dia Range (mm) Ø25-32	✓ Dia Range (mm) Ø16-25	✓ Dia Range (mm) Ø25-40
	Modular Mills		✓ Dia Range (mm) Ø20-32	-	✓ Dia Range (mm) Ø16-32	-	✓ Dia Range (mm) Ø16-25	✓ Dia Range (mm) Ø32-40
	Face Mills		✓ Dia Range (mm) Ø40-63	-	✓ Dia Range (mm) Ø40-100	✓ Dia Range (mm) Ø40-100	✓ Dia Range (mm) Ø40-80	✓ Dia Range (mm) Ø40-100
	Helical Mills		-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓
	Plunging		✓	✓	✓	✓	✓	✓
	Helical Interpolation		✓	✓	✓	✓	✓	✓
	Side Profile Milling		-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-

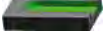
Insert			ADMX 0702.. PRMT	ADMX 11T3.. PRMT	ADMX 1606.. PRMT	ADKT 1505..	APMT 1135.. ACHTK	ADMT 0803.. WLTR	ADMT 10T3.. WLTR
Page			F270	F270	F270	F272-F273	F271	F274-F275	F274-F275
Dimeter Range (mm)			Ø10-12	Ø20-63	Ø25-80	Ø25-125	Ø16-33	Ø16-25	Ø16-63
Approach Angle			90°	90°	90°	90°	90°	90°	90°
Max. Cutting Depth			7mm	10.5mm	10.5mm	14.3mm	11mm	8mm	10mm
Holder Type	Endmills		✓ Dia Range (mm) Ø10-12	✓ Dia Range (mm) Ø20-32	✓ Dia Range (mm) Ø25-32	✓ Dia Range (mm) Ø25-32	✓ Dia Range (mm) Ø16-33	✓ Dia Range (mm) Ø16-25	✓ Dia Range (mm) Ø16-25
	Modular Mills		-	-	-	✓ Dia Range (mm) Ø25-32	-	✓ Dia Range (mm) Ø16-25	✓ Dia Range (mm) Ø16-25
	Face Mills		-	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø50-80	✓ Dia Range (mm) Ø40-125	-	-	✓ Dia Range (mm) Ø40-63
	Helical Mills		-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓	✓
	Plunging		✓	✓	✓	✓	✓	✓	✓
	Helical Interpolation		✓	✓	✓	✓	✓	✓	✓
	Side Profile Milling		-	-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-	-

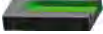
Insert			ADKT 1204.. WLTR	ADMT 1606.. WLTR	RT 0703.. SAFETY	RT 1003.. SAFETY	RT 1606.. SAFETY	XOMX 0602.. SCO
								
Page			F274-F275	F275	F276	F276-F277	F276-F277	F278
Dimeter Range (mm)			Ø20-80	Ø50-80	Ø10-14	Ø16-63	Ø25-100	Ø10-20
Approach Angle			90°	90°	90°	90°	90°	90°
Max. Cutting Depth			11.7mm	15mm	7mm	10mm	16mm	5.5mm
Holder Type	Endmills		✓ Dia Range (mm) Ø20-32	-	✓ Dia Range (mm) Ø10-14	✓ Dia Range (mm) Ø16-25	✓ Dia Range (mm) Ø25-40	✓ Dia Range (mm) Ø10-20
	Modular Mills		✓ Dia Range (mm) Ø20-32	-	-	✓ Dia Range (mm) Ø25-42	-	-
	Face Mills		✓ Dia Range (mm) Ø40-80	✓ Dia Range (mm) Ø50-80	-	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø50-100	-
	Helical Mills		-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓
	Plunging		✓	✓	✓	✓	✓	✓
	Helical Interpolation		✓	✓	✓	✓	✓	✓
	Side Profile Milling		-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-

Insert			XOMX 10T3.. SCO	XOMX 1204.. SCO	XOMX 1806.. SCO	EDPT 10T3.. KNMTL	EDPT 1404.. KNMTL	AOMT 1236.. MTSBH
Page								
Dimeter Range (mm)			Ø16-63	Ø20-125	Ø50-125	Ø16-63	Ø20-80	Ø16-100
Approach Angle			90°	90°	90°	90°	90°	90°
Max. Cutting Depth			9mm	11mm	17mm	9.80mm	14mm	10mm
Holder Type	Endmills		✓ Dia Range (mm) Ø16-20	✓ Dia Range (mm) Ø20-32	-	✓ Dia Range (mm) Ø16-32	✓ Dia Range (mm) Ø20-40	✓ Dia Range (mm) Ø16-32
	Modular Mills		✓ Dia Range (mm) Ø16-20	✓ Dia Range (mm) Ø20-32	-	✓ Dia Range (mm) Ø16-32	✓ Dia Range (mm) Ø20-32	✓ Dia Range (mm) Ø16-32
	Face Mills		✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø40-125	✓ Dia Range (mm) Ø50-125	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø40-80	✓ Dia Range (mm) Ø40-100
	Helical Mills		-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓
	Plunging		✓	✓	✓	✓	✓	✓
	Helical Interpolation		✓	✓	✓	✓	✓	✓
	Side Profile Milling		-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-

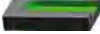
Insert			XDKT 0703.. CRTZ	XDKT 11T3.. CRTZ	AXMT 0602.. TGTC	APKT 0602.. LMN	AOMT 0702.. TNGLY	AVMT 0402.. TNGLY
								
Page			F283	F283	F284	F284	F285	F285
Dimeter Range (mm)			Ø12-17	Ø16-26	Ø10-16	Ø10-13	Ø12-22	Ø16-33
Approach Angle			90°	90°	90°	90°	90°	90°
Max. Cutting Depth			7mm	11mm	5.75mm	5.5mm	7mm	11mm
Holder Type	Endmills		✓ Dia Range (mm) Ø12-17	✓ Dia Range (mm) Ø16-26	✓ Dia Range (mm) Ø10-16	✓ Dia Range (mm) Ø10-13	✓ Dia Range (mm) Ø12-22	✓ Dia Range (mm) Ø16-33
	Modular Mills		-	-	-	-	-	-
	Face Mills		-	-	-	-	-	-
	Helical Mills		-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓
	Plunging		✓	✓	✓	✓	✓	✓
	Helical Interpolation		✓	✓	✓	✓	✓	✓
	Side Profile Milling		-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-

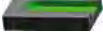
Insert			LNHU 0904.. WLTR	LNMT 1306.. WLTR	LNMT 0804..	LNMT 1306..	LOEX 0804.. SCO	LP.U 0904.. SCO	LNHU 1306.. ACHTK
Page									
Dimeter Range (mm)			Ø20-80	Ø40-100	Ø16-80	Ø32-125	Ø20-63	Ø20-63	Ø50-100
Approach Angle			90°	90°	90°	90°	90°	90°	90°
Max. Cutting Depth			8mm	12mm	8mm	12.5mm	8mm	8.3mm	12mm
Holder Type	Endmills		✓ Dia Range (mm) Ø20-32	-	✓ Dia Range (mm) Ø16-32	✓ Dia Range (mm) Ø32-40	✓ Dia Range (mm) Ø20-32	✓ Dia Range (mm) Ø20-32	-
	Modular Mills		✓ Dia Range (mm) Ø20-32	-	✓ Dia Range (mm) Ø20-32	-	✓ Dia Range (mm) Ø20-32	✓ Dia Range (mm) Ø20-32	-
	Face Mills		✓ Dia Range (mm) Ø40-80	✓ Dia Range (mm) Ø40-100	✓ Dia Range (mm) Ø40-80	✓ Dia Range (mm) Ø50-125	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø50-100
	Helical Mills		-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓	✓
	Plunging		✓	✓	✓	✓	✓	✓	✓
	Helical Interpolation		✓	✓	✓	✓	✓	✓	✓
	Side Profile Milling		-	-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-	-

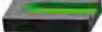
Insert			LOGU 0904.. MTSBH	LNMU 1107.. TNGLY	LN.. 1106.. T490	LNKT 1506.. ZCC	LNKT 1707.. KRLY	AN.X 0904..	AN.X 1205..
Page			F294	F293	F296	F297	F297	F298-F299	F298-F299
Dimeter Range (mm)			Ø16-80	Ø32-80	Ø25-80	Ø50-125	Ø50-100	Ø16-63	Ø50-100
Approach Angle			90°	90°	90°	90°	90°	90°	90°
Max. Cutting Depth			8mm	9.70mm	9mm	12mm	16.5mm	8mm	12mm
Holder Type	Endmills		✓ Dia Range (mm) Ø16-32	✓ Dia Range (mm) Ø32-40	✓ Dia Range (mm) Ø25-32	-	-	✓ Dia Range (mm) Ø16-32	-
	Modular Mills		✓ Dia Range (mm) Ø20-32	-	-	-	-	✓ Dia Range (mm) Ø20-25	-
	Face Mills		✓ Dia Range (mm) Ø40-80	✓ Dia Range (mm) Ø50-80	✓ Dia Range (mm) Ø40-80	✓ Dia Range (mm) Ø50-125	✓ Dia Range (mm) Ø50-100	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø50-100
	Helical Mills		-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓	✓
	Plunging		✓	✓	✓	✓	✓	✓	✓
	Helical Interpolation		✓	✓	✓	✓	✓	✓	✓
	Side Profile Milling		-	-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-	-

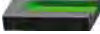
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Page			F299	F300-F301	F300-F301	F302-F303	F302-F303	F304
Dimeter Range (mm)			Ø50-125	Ø16-63	Ø32-160	Ø16-63	Ø40-100	Ø25-63
Approach Angle			90°	90°	90°	90°	90°	90°
Max. Cutting Depth			16.3mm	9mm	14mm	10mm	15mm	10mm
Holder Type	Endmills		-	Dia Range (mm) Ø16-40	Dia Range (mm) Ø32-40	Dia Range (mm) Ø16-33	-	Dia Range (mm) Ø25-32
	Modular Mills		-	Dia Range (mm) Ø16-25	-	Dia Range (mm) Ø16-32	-	-
	Face Mills		Dia Range (mm) Ø50-125	Dia Range (mm) Ø40-63	Dia Range (mm) Ø50-160	Dia Range (mm) Ø40-63	Dia Range (mm) Ø40-100	Dia Range (mm) Ø40-63
	Helical Mills		-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓
	Plunging		✓	✓	✓	✓	✓	✓
	Helical Interpolation		✓	✓	✓	✓	✓	✓
	Side Profile Milling		-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-

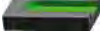
Insert			ANGX 1506.. ZCC	LQMU 1107.. TNGLY	LNGX 1205.. PRMT	LNGU 15T.. KNMTL	XNPU 15T6.. WDA	AN.X 1607.. TGTC	LNGX 1307.. WLTR
									
Page			F304	F305	F306	F308	F308	F307	F309
Dimeter Range (mm)			Ø50-100	Ø25-63	Ø25-100	Ø40-100	Ø40-100	Ø50-100	Ø50-125
Approach Angle			90°	90°	90°	90°	90°	90°	90°
Max. Cutting Depth			14mm	9mm	12mm	15.5mm	14.5mm	15mm	12mm
Holder Type	Endmills		-	✓ Dia Range (mm) Ø25-32	✓ Dia Range (mm) Ø25-32	-	-	-	-
	Modular Mills		-	-	-	-	-	-	-
	Face Mills		✓ Dia Range (mm) Ø50-100	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø50-100	✓ Dia Range (mm) Ø40-100	✓ Dia Range (mm) Ø40-100	✓ Dia Range (mm) Ø40-100	✓ Dia Range (mm) Ø50-125
	Helical Mills		-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓	✓
	Plunging		✓	✓	✓	✓	✓	✓	✓
	Helical Interpolation		✓	✓	✓	✓	✓	✓	✓
	Side Profile Milling		-	-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-	-

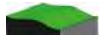
Insert			4NKT 0603.. TGTC	XNKT 0604.. KRLY	XNKT 0805.. KRLY	3PKT 0402.. TGTC	3PKT 0603.. TGTC	3PKT 1004.. TGTC	3PKT 1505.. TGTC
Page			F310-F311	F312-F313	F312-F313	F314	F314-F315	F314-F315	F315
Dimeter Range (mm)			Ø16-63	Ø20-42	Ø30-125	Ø10-16	Ø12-20	Ø16-63	Ø40-125
Approach Angle			90°	90°	90°	90°	90°	90°	90°
Max. Cutting Depth			6mm	5.5mm	8mm	3.5mm	5mm	7mm	11mm
Holder Type	Endmills		✓ Dia Range (mm) Ø16-32	✓ Dia Range (mm) Ø20-33	✓ Dia Range (mm) Ø30-40	✓ Dia Range (mm) Ø10-16	✓ Dia Range (mm) Ø12-20	✓ Dia Range (mm) Ø16-32	-
	Modular Mills		✓ Dia Range (mm) Ø16-42	✓ Dia Range (mm) Ø20-42	✓ Dia Range (mm) Ø30-40	-	-	✓ Dia Range (mm) Ø20-40	-
	Face Mills		✓ Dia Range (mm) Ø40-63	-	✓ Dia Range (mm) Ø40-125	-	-	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø40-125
	Helical Mills		-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓	✓
	Plunging		✓	✓	✓	✓	✓	✓	✓
	Helical Interpolation		✓	✓	✓	✓	✓	✓	✓
	Side Profile Milling		-	-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-	-

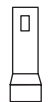
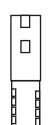
Insert			TN.X 1005..	TP.T 1003..	TPKT 1103.. YG-1	TPKT 1605.. YG-1	6NGU 0604.. TGTC	6NGU 0905.. TGTC	6NKU 0403.. TGTC	TNGX 1004.. PRMT
Page			F316	F317	F318	F319	F320	F320	F322	F317
Dimeter Range (mm)			Ø20-63	Ø25-80	Ø20-26	Ø50-125	Ø25-32	Ø50-80	Ø20-32	Ø20-63
Approach Angle			90°	90°	90°	90°	90°	90°	90°	90°
Max. Cutting Depth			8mm	8mm	7mm	11mm	6.2mm	9.2mm	4.1mm	5mm
Holder Type	Endmills		✓ Dia Range (mm) Ø20-32	✓ Dia Range (mm) Ø25-32	✓ Dia Range (mm) Ø20-26	-	✓ Dia Range (mm) Ø25-32	-	✓ Dia Range (mm) Ø20-32	✓ Dia Range (mm) Ø20-32
	Modular Mills		✓ Dia Range (mm) Ø20-32	✓ Dia Range (mm) Ø25-32	-	✓ Dia Range (mm) Ø50-125	✓ Dia Range (mm) Ø25-32	-	✓ Dia Range (mm) Ø20-32	-
	Face Mills		✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø40-80	-	-	-	✓ Dia Range (mm) Ø50-80	-	✓ Dia Range (mm) Ø40-63
	Helical Mills		-	-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓	✓	✓
	Plunging		✓	✓	✓	✓	✓	✓	✓	✓
	Helical Interpolation		✓	✓	✓	✓	✓	✓	✓	✓
	Side Profile Milling		-	-	-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-	-	-

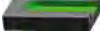
Insert			TOMT 0603.. TNGLY	TOMT 1004.. TNGLY	TOMT 1506.. TNGLY	TOMT 0605.. KYCR	TNMX 1806.. TGTC	WNMU 0504.. KYCR	WNMU 0806.. KYCR	XNEX 0403.. SCO
										
Page			F321	F321	F321	F324	F329	F327	F327	F328
Dimeter Range (mm)			Ø16-25	Ø25-63	Ø50-125	Ø20-63	Ø63-100	Ø25-63	Ø50-125	Ø17-33
Approach Angle			90°	90°	90°	90°	90°	90°	90°	90°
Max. Cutting Depth			6mm	10mm	15mm	6mm	13mm	5mm	8mm	4mm
Holder Type	Endmills		✓ Dia Range (mm) Ø16-25	✓ Dia Range (mm) Ø25-32	-	✓ Dia Range (mm) Ø20-32	-	✓ Dia Range (mm) Ø25-32	-	✓ Dia Range (mm) Ø17-33
	Modular Mills		-	-	-	-	-	-	-	✓ Dia Range (mm) Ø20-25
	Face Mills		-	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø50-125	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø63-100	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø50-125	✓ Dia Range (mm) Ø40-125
	Helical Mills		-	-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓	✓	✓
	Plunging		✓	✓	✓	✓	✓	✓	✓	✓
	Helical Interpolation		✓	✓	✓	✓	✓	✓	✓	✓
	Side Profile Milling		-	-	-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-	-	-

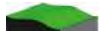
Insert			XNEX 0806.. SCO	WNEX 0806.. YG-1	WNGX 0403.. KRLY	WNGX 0806.. KRLY	WNHU 0806.. ZCC	WNGU 0403.. ACHTECK	WNHU 0806.. ACHTECK	WN.U 0705..
Page			F328	F325	F330	F330	F331	F326	F326	F332
Dimeter Range (mm)			Ø50-160	Ø50-100	Ø20-32	Ø50-100	Ø50-100	Ø17-63	Ø50-100	Ø50-100
Approach Angle			90°	90°	90°	90°	90°	90°	90°	90°
Max. Cutting Depth			7.5mm	8.2mm	4.3mm	8.2mm	7.5mm	4mm	7mm	7mm
Holder Type	Endmills		-	✓ Dia Range (mm) Ø35-40	✓ Dia Range (mm) Ø20-32	-	-	✓ Dia Range (mm) Ø17-26	-	-
	Modular Mills		-	-	✓ Dia Range (mm) Ø20-32	-	-	-	-	-
	Face Mills		✓ Dia Range (mm) Ø50-160	✓ Dia Range (mm) Ø50-160	-	✓ Dia Range (mm) Ø50-100	✓ Dia Range (mm) Ø50-100	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø50-100	✓ Dia Range (mm) Ø50-100
	Helical Mills		-	-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓	✓	✓
	Plunging		✓	✓	✓	✓	✓	✓	✓	✓
	Helical Interpolation		✓	✓	✓	✓	✓	✓	✓	✓
	Side Profile Milling		-	-	-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-	-	-

Insert			TPKN 1603.. ISO	TPKN 2204.. ISO	APKT 1003.. ISO	APKT 1643.. ISO	SEMT 1304.. TGTC	SEET 12T3.. ZCC	SOMT 12T3.. MTSBH	SDMT 09T3.. WLTR
Page			F333	F333	F334	F334	F334	F335	F335	F336
Dimeter Range (mm)			Ø50-125	Ø63-160	Ø63-100	Ø63-125	Ø50-80	Ø50-125	Ø63-100	Ø25-63
Approach Angle			90°	90°	75°	75°	90°	90°	90°	90°
Max. Cutting Depth			12mm	18mm	5mm	10mm	11mm	12mm	11mm	8.4mm
Holder Type	Endmills		-	-	-	-	-	-	-	✓ Dia Range (mm) Ø25-33
	Modular Mills		-	-	-	-	-	-	-	✓ Dia Range (mm) Ø20-25
	Face Mills		✓ Dia Range (mm) Ø50-125	✓ Dia Range (mm) Ø63-160	✓ Dia Range (mm) Ø63-100	✓ Dia Range (mm) Ø63-125	✓ Dia Range (mm) Ø50-80	✓ Dia Range (mm) Ø50-125	✓ Dia Range (mm) Ø63-100	✓ Dia Range (mm) Ø40-63
	Helical Mills		-	-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓	✓	✓
	Plunging		✓	✓	✓	✓	✓	✓	✓	✓
	Helical Interpolation		✓	✓	✓	✓	✓	✓	✓	✓
	Side Profile Milling		-	-	-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-	-	-

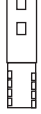
Insert			SDMT 09T3.. WLTR	490R-08.. SNDVK	490R-14.. SNDVK	SDMT 1506.. WDA	SQKU 0703.. TGTC	SD.T 09M4.. KRLY	SD.T 1305.. KRLY
									
Page			F336	F338	F338	F339	F340	F341	F341
Dimeter Range (mm)			Ø20-32	Ø20-63	Ø50-80	Ø50-125	Ø16-63	Ø25-63	Ø50-100
Approach Angle			45°	90°	90°	90°	90°	90°	90°
Max. Cutting Depth			7mm	5.5mm	10.6mm	12mm	5mm	7mm	11mm
Holder Type	Endmills		-	✓ Dia Range (mm) Ø20-33	-	-	✓ Dia Range (mm) Ø16-32	✓ Dia Range (mm) Ø25-32	-
	Modular Mills		✓ Dia Range (mm) Ø20-32	✓ Dia Range (mm) Ø20-32	-	-	-	-	-
	Face Mills		-	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø50-80	✓ Dia Range (mm) Ø50-125	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø50-100
	Helical Mills		-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓	✓
	Plunging		✓	✓	✓	✓	✓	✓	✓
	Helical Interpolation		✓	✓	✓	✓	✓	✓	✓
	Side Profile Milling		-	-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-	-

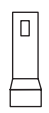
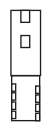
Insert			SYHU 0704..	SDMT 1205.. PRMT	SN.. 1206.. ISO	SNMU 1305.. KYCR	SNMU 1305.. PNTR	SN.. 1206.. ISO	SN.. 1206.. ISO
									
Page			F344	F345	F345	F346	F347	F348	F348
Dimeter Range (mm)			Ø50-100	Ø50-125	Ø50-200	Ø50-160	Ø50-125	Ø50-315	Ø50-125
Approach Angle			50°	90°	89°	88°	89°	45°	75°
Max. Cutting Depth			4.6mm	10mm	10mm	5mm	9mm	6mm	8mm
Holder Type	Endmills		-	-	-	-	-	-	-
	Modular Mills		-	-	-	-	-	-	-
	Face Mills		✓ Dia Range (mm) Ø50-100	✓ Dia Range (mm) Ø50-125	✓ Dia Range (mm) Ø50-200	✓ Dia Range (mm) Ø50-160	✓ Dia Range (mm) Ø50-125	✓ Dia Range (mm) Ø50-315	✓ Dia Range (mm) Ø50-315
	Helical Mills		-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓	✓
	Shoulder Milling		-	✓	-	-	-	-	-
	Slot Milling		-	✓	-	-	-	-	-
	Plunging		-	-	-	-	-	-	-
	Helical Interpolation		-	-	-	-	-	-	-
	Side Profile Milling		-	-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-	-

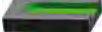
Insert			SEET 12T3 ZCC	SNMU 1305..	SEMT 13T3 MTSBH	R345-13.. SNDVK	SNMT 1205.. PRMT	SEET 0903 KRLY	SE.T 12T3 YG-1	SEMT 13T3AG YG-1
Page			F349	F350	F353	F351	F351	F352	F356	F356
Dimeter Range (mm)			Ø50-160	Ø50-100	Ø50-80	Ø50-100	Ø50-160	Ø25-80	Ø50-100	Ø50-100
Approach Angle			45°	45°	45°	45°	45°	45°	45°	45°
Max. Cutting Depth			6mm	6mm	6mm	6mm	6.5mm	4mm	6mm	6mm
Holder Type	Endmills		-	-	-	-	-	-	-	-
	Modular Mills		-	-	-	-	-	-	-	-
	Face Mills		✓ Dia Range (mm) Ø50-160	✓ Dia Range (mm) Ø50-100	✓ Dia Range (mm) Ø50-80	✓ Dia Range (mm) Ø50-125	✓ Dia Range (mm) Ø50-160	✓ Dia Range (mm) Ø50-100	✓ Dia Range (mm) Ø50-100	✓ Dia Range (mm) Ø50-100
	Helical Mills		-	-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓	✓	✓
	Plunging		-	-	-	-	-	-	-	-
	Helical Interpolation		-	-	-	-	-	-	-	-
	Side Profile Milling		-	-	-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-	-	-

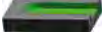
Insert			SE.. 14M4 KRLY	SNMU 1307.. TNGLY	ONMU 0507.. TNGLY	RNMU 1307.. TNGLY	SNMU 1206.. TNGLY	SNEG 1306.. ZCC	SZMU 0804.. ISC	SN.X 1306.. TGTC
										
Page			F352	F354	F354	F364	F346	F355	F347	F355
Dimeter Range (mm)			Ø50-125	Ø63-125	Ø63-125	Ø63-125	Ø50-80	Ø50-160	Ø40-80	Ø50-80
Approach Angle			45°	45°	45°	-°	-°	45°	-°	45°
Max. Cutting Depth			6.5mm	6mm	10mm	5mm	9.5mm	7mm	5mm	7mm
Holder Type	Endmills		-	-	-	-	-	-	-	-
	Modular Mills		-	-	-	-	-	-	-	-
	Face Mills		✓ Dia Range (mm) Ø50-125	✓ Dia Range (mm) Ø63-125	✓ Dia Range (mm) Ø63-125	✓ Dia Range (mm) Ø63-125	✓ Dia Range (mm) Ø50-80	✓ Dia Range (mm) Ø50-160	✓ Dia Range (mm) Ø40-80	✓ Dia Range (mm) Ø50-315
	Helical Mills		-	-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	-	-	-	-	-	-	-
	Slot Milling		✓	-	-	-	-	-	-	-
	Plunging		-	-	-	-	-	-	-	-
	Helical Interpolation		-	-	-	-	-	-	-	-
	Side Profile Milling		-	-	-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-	-	-

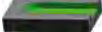
Insert			SPKN 1203.. ISO	SNGN 1204.. KYCR	XNMU 0605.. TGTC	XNMU 0906.. TGTC	HNKX 0604.. LMN	HXKU 0604.. TGTC	ON.X 0505..
									
Page			F357	F357	F358	F358	F359	F359	F350
Dimeter Range (mm)			Ø50-315	Ø63-100	Ø50-80	Ø63-125	Ø50-80	Ø50-100	Ø50-100
Approach Angle			75°	88°	45°	45°	45°	45°	45°
Max. Cutting Depth			9.5mm	9.5mm	3.5mm	5mm	3.5mm	3.5mm	4mm
Holder Type	Endmills		-	-	-	-	-	-	-
	Modular Mills		-	-	-	-	-	-	-
	Face Mills		✓ Dia Range (mm) Ø50-315	✓ Dia Range (mm) Ø63-100	✓ Dia Range (mm) Ø50-80	✓ Dia Range (mm) Ø63-125	✓ Dia Range (mm) Ø50-80	✓ Dia Range (mm) Ø50-10	✓ Dia Range (mm) Ø50-100
	Helical Mills		-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓	✓
	Shoulder Milling		-	-	-	-	-	-	-
	Slot Milling		-	-	-	-	-	-	-
	Plunging		-	-	-	-	-	-	-
	Helical Interpolation		-	-	-	-	-	-	-
	Side Profile Milling		-	-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-	-

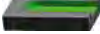
Insert			ON.X 0606.. KRLY	PNMU 1205.. KYCR	PNMU 0905.. KYCR	PNMU 1206.. YG-1	ON.X 0806.. ISO	ONHU 0604.. ZCC	ONHU 08T6.. ZCC
									
Page			F359	F360	F360	F361	F361	F363	F363
Dimeter Range (mm)			Ø63-125	Ø63-125	Ø50-125	Ø50-160	Ø63-200	Ø63-100	Ø63-100
Approach Angle			45°	45°	66°	45°	45°	45°	45°
Max. Cutting Depth			4mm	6mm	6mm	4mm	5.5mm	4mm	5mm
Holder Type	Endmills		-	-	-	-	-	-	-
	Modular Mills		-	-	-	-	-	-	-
	Face Mills		✓ Dia Range (mm) Ø63-125	✓ Dia Range (mm) Ø63-125	✓ Dia Range (mm) Ø50-125	✓ Dia Range (mm) Ø50-160	✓ Dia Range (mm) Ø63-200	✓ Dia Range (mm) Ø63-100	✓ Dia Range (mm) Ø63-100
	Helical Mills		-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓	✓
	Shoulder Milling		-	-	-	-	-	-	-
	Slot Milling		-	-	-	-	-	-	-
	Plunging		-	-	-	-	-	-	-
	Helical Interpolation		-	-	-	-	-	-	-
	Side Profile Milling		-	-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-	-

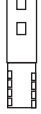
Insert			HN.J 0604.. KNMTL	HN.J 0704.. WDA	HN.J 0905.. KNMTL/ WDA	HNGX 0604.. PRMT	HNGX 0906.. PRMT	ONMU 0504.. SCO	XNMU 0705.. ACHTEK	XNMU 0906.. ACHTEK
										
Page			F362	F362	F362	F363	F363	F364	F364	F364
Dimeter Range (mm)			Ø50-80	Ø50-80	Ø50-160	Ø50-100	Ø63-160	Ø50-100	Ø50-100	Ø63-100
Approach Angle			45°	45°	45°	45°	45°	45°	45°	45°
Max. Cutting Depth			3.23mm	3.5mm	4.5mm	3mm	5mm	3mm	4.4mm	5mm
Holder Type	Endmills		-	-	-	-	-	-	-	-
	Modular Mills		-	-	-	-	-	-	-	-
	Face Mills		✓ Dia Range (mm) Ø50-80	✓ Dia Range (mm) Ø63-100	✓ Dia Range (mm) Ø50-160	✓ Dia Range (mm) Ø50-100	✓ Dia Range (mm) Ø63-160	✓ Dia Range (mm) Ø50-100	✓ Dia Range (mm) Ø50-100	✓ Dia Range (mm) Ø63-100
	Helical Mills		-	-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓	✓	✓
	Shoulder Milling		-	-	-	-	-	-	-	-
	Slot Milling		-	-	-	-	-	-	-	-
	Plunging		-	-	-	-	-	-	-	-
	Helical Interpolation		-	-	-	-	-	-	-	-
	Side Profile Milling		-	-	-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	-	-	-

Insert			OW.T 05T3.. TNGLY	OD.. 0504.. PRMT	OFR 07T3.. ISO	RNMU 1004.. TGTC	ROMU 1204.. KYCR	ROMU 1605.. KYCR	RNMU 1205.. TGTC	RNMU 1606.. TGTC	RQMT 10T3.. TNGLY	RQMT 1204.. TNGLY
												
Page			F362	F365	F365	F366	F367	F367	F366	F366	F367	F367
Dimeter Range (mm)			Ø50-80	Ø40-100	Ø63-125	Ø25-50	Ø50-80	Ø63-100	Ø32-63	Ø50-80	Ø40-52	Ø50-66
Approach Angle			41°	45°	43°	-°	-°	-°	-°	-°	-°	-°
Max. Cutting Depth			3mm	3.5mm	3mm	5mm	6mm	8mm	6mm	8mm	5mm	5mm
Holder Type	Endmills		-	-	-	✓ Dia Range (mm) Ø25-32	-	-	✓ Dia Range (mm) Ø32-40	-	-	-
	Modular Mills		-	-	-	✓ Dia Range (mm) Ø25-32	-	-	✓ Dia Range (mm) Ø32-40	-	-	-
	Face Mills		✓ Dia Range (mm) Ø50-80	✓ Dia Range (mm) Ø40-100	✓ Dia Range (mm) Ø63-125	✓ Dia Range (mm) Ø40-50	✓ Dia Range (mm) Ø50-80	✓ Dia Range (mm) Ø63-100	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø50-80	✓ Dia Range (mm) Ø40-52	✓ Dia Range (mm) Ø50-66
	Helical Mills		-	-	-	-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Shoulder Milling		-	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Slot Milling		-	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Plunging		-	-	-	✓	-	-	✓	✓	✓	✓
	Helical Interpolation		-	-	-	✓	-	-	✓	✓	✓	✓
	Side Profile Milling		-	-	-	-	-	-	-	-	-	-
	Profile Milling		-	-	-	✓	-	-	✓	✓	✓	✓

Insert			RDKW 0501.. ISO	RDKW 0702.. ISO	RD.. 0803.. ISO	RD.. 1003.. ISO	RD.. 12T3.. ISO	RD.. 1604.. ISO	RD.. 10T3 ISO
									
Page			G372	G372	G372-G373	G372-G373	G372-G373	G372-G373	G372-G373
Dimeter Range (mm)			Ø08-14	Ø16-25	Ø16-35	Ø20-125	Ø25-125	Ø63-125	Ø20-63
Approach Angle			-°	-°	-°	-°	-°	-°	-°
Max. Cutting Depth			2.5mm	3.5mm	4mm	5mm	6mm	8mm	5mm
Holder Type	Endmills		✓ Dia Range (mm) Ø08-14	✓ Dia Range (mm) Ø16-25	✓ Dia Range (mm) Ø16-32	✓ Dia Range (mm) Ø20-40	✓ Dia Range (mm) Ø25-40	-	✓ Dia Range (mm) Ø20-32
	Modular Mills		-	✓ Dia Range (mm) Ø16-25	✓ Dia Range (mm) Ø16-35	✓ Dia Range (mm) Ø20-42	✓ Dia Range (mm) Ø24-42	-	✓ Dia Range (mm) Ø20-32
	Face Mills		-	-	-	✓ Dia Range (mm) Ø40-125	✓ Dia Range (mm) Ø40-125	✓ Dia Range (mm) Ø63-125	✓ Dia Range (mm) Ø40-63
	Helical Mills		-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓	✓
	Plunging		✓	✓	✓	✓	✓	✓	✓
	Helical Interpolation		✓	✓	✓	✓	✓	✓	✓
	Side Profile Milling		-	-	-	-	-	-	-
	Profile Milling		✓	✓	✓	✓	✓	✓	✓

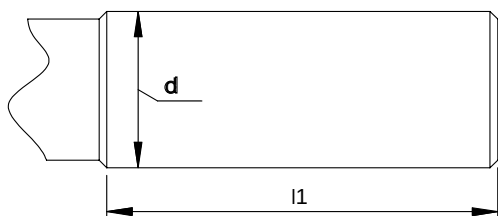
Insert			RD.. 1204 ISO	RPMT 1204 ACHTEK	RPMT 10T3 MTSBH	RPMT 1204 MTSBH	RYMX 1004 TGTC	RYMX 1205 TGTC	RPMT 10T3 KYCR	RPMT 1204 KYCR	RPMT 1605 KYCR
											
Page			G372-G377	G368	G378	G378	G371	G371	G380-G381	G380-G381	G381
Dimeter Range (mm)			Ø25-100	Ø26-63	Ø25-100	Ø25-100	Ø21-63	Ø32-100	Ø25-63	Ø32-80	Ø63-125
Approach Angle			6°	-°	-°	-°	-°	-°	-°	-°	-°
Max. Cutting Depth			6mm	5mm	5mm	6mm	5mm	6mm	5mm	6mm	8mm
Holder Type	Endmills		✓ Dia Range (mm) Ø25-33	✓ Dia Range (mm) Ø26-33	✓ Dia Range (mm) Ø25-32	✓ Dia Range (mm) Ø25	✓ Dia Range (mm) Ø21-33	✓ Dia Range (mm) Ø32-33	✓ Dia Range (mm) Ø25-35	✓ Dia Range (mm) Ø32-40	-
	Modular Mills		✓ Dia Range (mm) Ø32-42	-	✓ Dia Range (mm) Ø25-42	✓ Dia Range (mm) Ø25-42	✓ Dia Range (mm) Ø25-40	✓ Dia Range (mm) Ø32-40	✓ Dia Range (mm) Ø25-32	✓ Dia Range (mm) Ø32-40	-
	Face Mills		✓ Dia Range (mm) Ø40-100	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø40-100	✓ Dia Range (mm) Ø40-100	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø40-100	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø40-80	✓ Dia Range (mm) Ø63-125
	Helical Mills		-	-	-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓	✓	✓	✓
	Plunging		✓	✓	✓	✓	✓	✓	✓	✓	✓
	Helical Interpolation		✓	✓	✓	✓	✓	✓	✓	✓	✓
	Side Profile Milling		-	-	-	-	-	-	-	-	-
	Profile Milling		✓	✓	✓	✓	✓	✓	✓	✓	✓

Insert			QPMT 10T3 SMTM	RCKT 1204.. SNDVK	RPNX 10T3.. CRTZ	RPNX 1204.. CRTZ	RCKT 10T3.. ZCC	RCKT 1204.. ZCC
								
Page			G382-G383	G384	G384	G384	G386	G386
Dimeter Range (mm)			Ø25-63	Ø28-80	Ø40-80	Ø50-10	Ø40-63	Ø50-80
Approach Angle			-°	-°	-°	-°	-°	-°
Max. Cutting Depth			5mm	6mm	5mm	6mm	5mm	6mm
Holder Type	Endmills		✓ Dia Range (mm) Ø25-32	✓ Dia Range (mm) Ø28-35	-	-	-	-
	Modular Mills		✓ Dia Range (mm) Ø25-40	-	-	-	-	-
	Face Mills		✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø50-80	✓ Dia Range (mm) Ø40-80	✓ Dia Range (mm) Ø50-100	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø50-80
	Helical Mills		-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	✓
	Shoulder Milling		✓	✓	✓	✓	✓	✓
	Slot Milling		✓	✓	✓	✓	✓	✓
	Plunging		✓	✓	✓	✓	✓	✓
	Helical Interpolation		✓	✓	✓	✓	✓	✓
	Side Profile Milling		-	-	-	-	-	-
	Profile Milling		✓	✓	✓	✓	✓	✓

Insert			VCGT 1604.. ISO	VCGT 2205.. ISO	XEKT-MA 19M5.. KRLY	XEVT 1606.. TGTC	XEVT 2206.. TGTC	XPHT 16R0803 ZCC-CT	XPHT 20R10T3 ZCC-CT	XPHT 25R1204 ZCC-CT
										
Page			F343	F343	F334	F344	F344	G386	G386	G386
Dimeter Range (mm)			Ø40-80	Ø50-80	Ø40-63	Ø50-80	Ø50-80	Ø16	Ø20	Ø25
Approach Angle			90°	90°	90°	90°	90°	-	-	-
Max. Cutting Depth			11mm	14mm	17mm	16mm	21mm	-	-	-
Holder Type	Endmills		-	-	-	-	-	✓ Dia Range (mm) Ø16	✓ Dia Range (mm) Ø20	✓ Dia Range (mm) Ø25
	Modular Mills		-	-	-	-	-	-	-	-
	Face Mills		✓ Dia Range (mm) Ø40-80	✓ Dia Range (mm) Ø50-80	✓ Dia Range (mm) Ø40-63	✓ Dia Range (mm) Ø50-80	✓ Dia Range (mm) Ø50-80	-	-	-
	Helical Mills		-	-	-	-	-	-	-	-
Application	Face Milling		✓	✓	✓	✓	✓	-	-	-
	Shoulder Milling		✓	✓	✓	✓	✓	-	-	-
	Slot Milling		✓	✓	✓	✓	✓	-	-	-
	Plunging		-	-	-	-	-	-	-	-
	Helical Interpolation		✓	✓	✓	✓	✓	-	-	-
	Side Profile Milling		-	-	-	-	-	-	-	-
	Profile Milling		-	-	-	-	-	✓	✓	✓

Insert			P3208 WLTR	P3210 WLTR	P3212 WLTR	P3216 WLTR	P3220 WLTR	P3225 WLTR	P3232 WLTR
									
Page			G387	G387	G387	G387	G387	G387	G387
Dimeter Range (mm)			Ø8	Ø10	Ø12	Ø16	Ø20	Ø25	Ø32
Approach Angle			-°	-°	-°	-°	-°	-°	-°
Max. Cutting Depth			-	-	-	-	-	-	-
Holder Type	Endmills		✓ Dia Range (mm) Ø8	✓ Dia Range (mm) Ø10	✓ Dia Range (mm) Ø12	✓ Dia Range (mm) Ø16	✓ Dia Range (mm) Ø20	✓ Dia Range (mm) Ø25	✓ Dia Range (mm) Ø32
	Modular Mills		-	-	-	-	-	-	-
	Face Mills		-	-	-	-	-	-	-
	Helical Mills		-	-	-	-	-	-	-
Application	Face Milling		-	-	-	-	-	-	-
	Shoulder Milling		-	-	-	-	-	-	-
	Slot Milling		-	-	-	-	-	-	-
	Plunging		-	-	-	-	-	-	-
	Helical Interpolation		-	-	-	-	-	-	-
	Side Profile Milling		-	-	-	-	-	-	-
	Profile Milling		✓	✓	✓	✓	✓	✓	✓

d=8-32

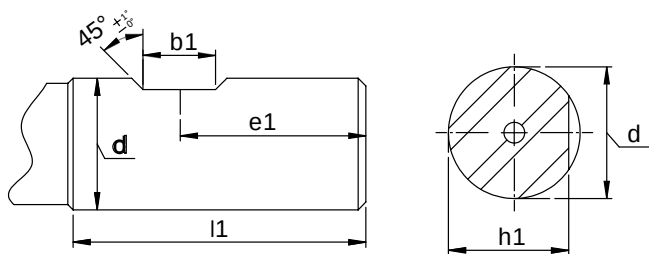


DIN 6535

CYLINDRICAL SHANK STANDARTS (h6) HA

d (h6)	$l1$
8	36
10	40
12	45
14	45
16	48
18	48
20	50
25	56
32	60

d=8-20

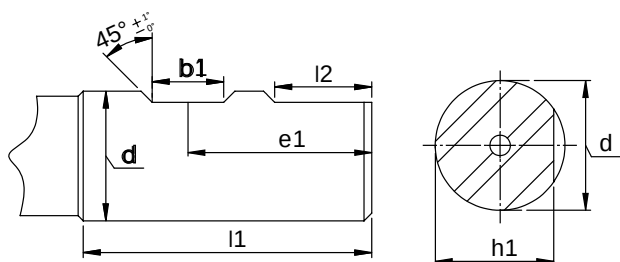


DIN 6535

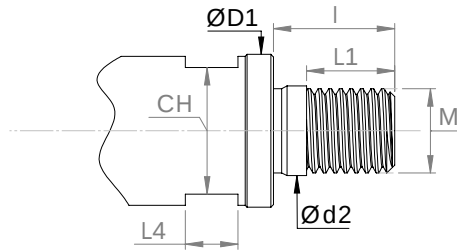
WELDON TYPE END-MILLS CUTTER (h6) HB

d (h6)	$b1$ (+0.05/-0)	$e1$ (+0/-1)	h (h11)	$l1$ (+1/-0)	$l2$ (+2/-0)
8	5.5	18	6.9	36	-
10	7	20	8.5	40	-
12	8	22.5	10.2	45	-
14	8	22.5	12.7	45	-
16	10	24	14.2	48	-
18	10	24	16.2	48	-
20	11	25	18.2	50	-
25	12	32	23	57	17
32	14	36	30	60	19

d=25-32

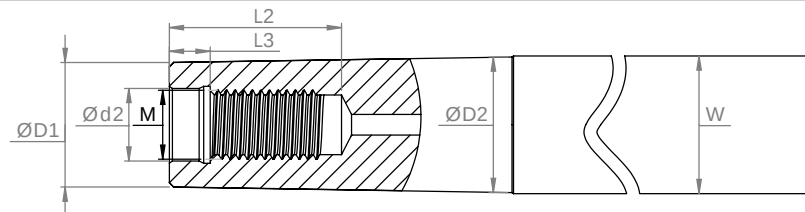


DIN 6535



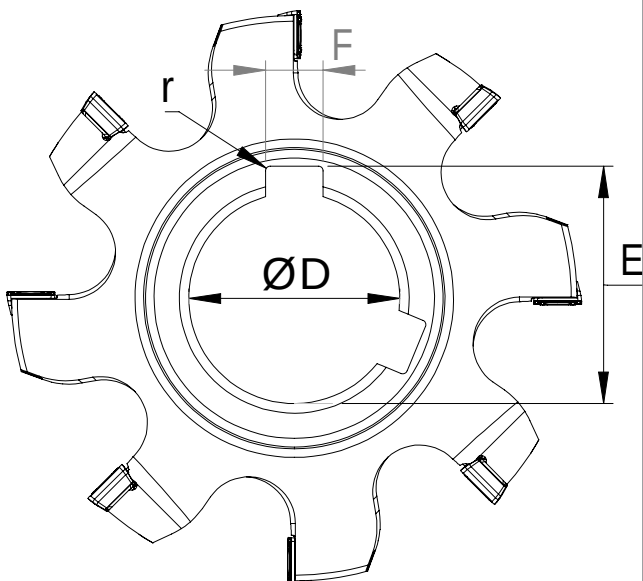
MODULAR TOOL DIMENSIONS

M	D1	d2	L	L1	L4	CH
6	10	6.5	12	7	5	8
8	15	8.5	17	12	6	12
10	18	10.5	19	14	8	15
12	21	12.5	23	18	10	18
16	29	17	23	18	12	24



MODULAR TOOL HOLDER DIMENSIONS

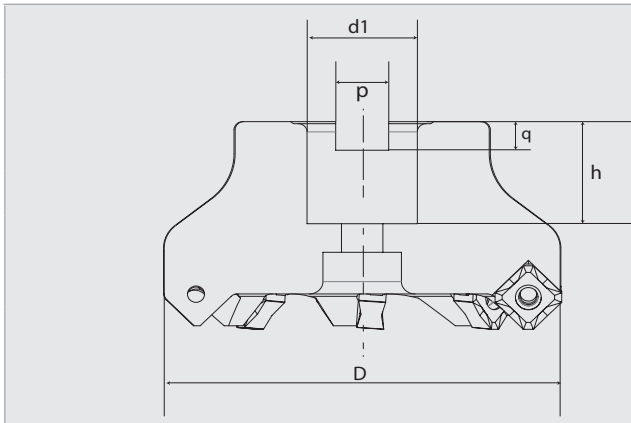
M	D1	D2	d2	L2	L3	C
6	10	11.5	6.5	7	7	12
8	15	15.5	8.5	8	8	16
10	18	19.5	10.5	8	8	20
12	23	24.5	12.5	8.5	8.5	25
16	30	31.5	17	9.5	9.5	32



DISC MILLING CUTTER HOLE STANDARTS

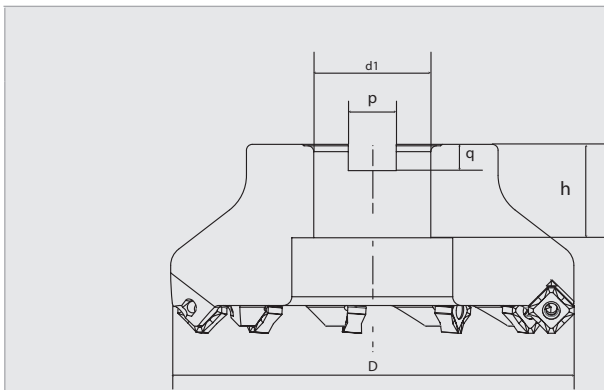
Diameter	ØD=h7	E	F	r
13	13 ^{+0.018} / ₀	14.6 ^{+0.25} / ₀	3 ^{+0.16} / _{+0.06}	0.6
16	16 ^{+0.018} / ₀	17.7 ^{+0.25} / ₀	4 ^{+0.19} / _{+0.07}	0.6
19	19 ^{+0.021} / ₀	21.1 ^{+0.25} / ₀	5 ^{+0.19} / _{+0.07}	1
22	22 ^{+0.021} / ₀	24.1 ^{+0.25} / ₀	6 ^{+0.19} / _{+0.07}	1
27	27 ^{+0.021} / ₀	29.8 ^{+0.25} / ₀	7 ^{+0.23} / _{+0.08}	1.2
32	32 ^{+0.025} / ₀	34.8 ^{+0.25} / ₀	8 ^{+0.23} / _{+0.08}	1.2
40	40 ^{+0.025} / ₀	43.5 ^{+0.25} / ₀	10 ^{+0.23} / _{+0.08}	1.2
50	50 ^{+0.025} / ₀	53.5 ^{+0.25} / ₀	12 ^{+0.23} / _{+0.08}	1.6
60	60 ^{+0.030} / ₀	64.2 ^{+0.25} / ₀	14 ^{+0.275} / _{+0.095}	1.6
70	70 ^{+0.030} / ₀	75.0 ^{+0.25} / ₀	16 ^{+0.275} / _{+0.095}	2

A Type



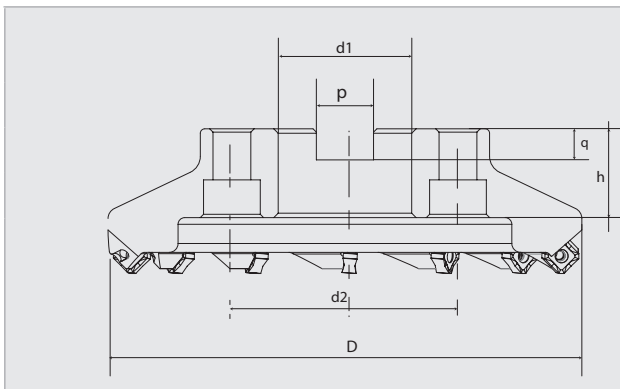
D	d1	d2	p	q	h
40	16	-	8.4	5.6	20
50	22	-	10.4	6.3	22
63	22	-	10.4	6.3	22
80	27	-	12.4	7	25
100	32	-	14.4	8	26

B Type



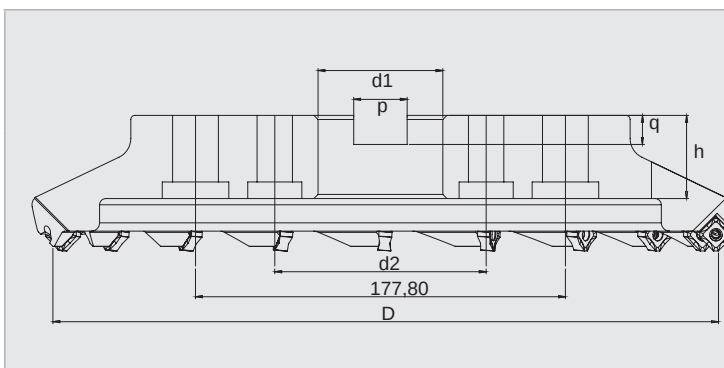
D	d1	d2	p	q	h
125	40	-	16.4	9	32

C Type

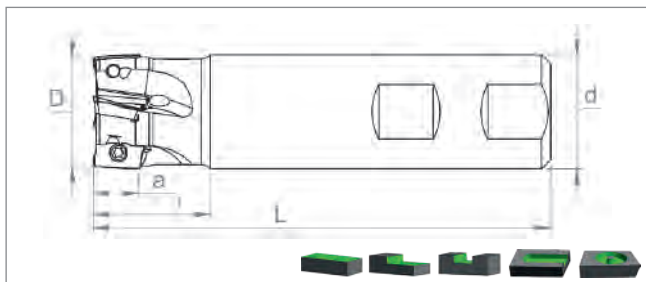


D	d1	d2	p	q	h
160	40	66.7	16.4	9	32
200	60	101.6	25.7	14	40
250	60	101.6	25.7	14	40

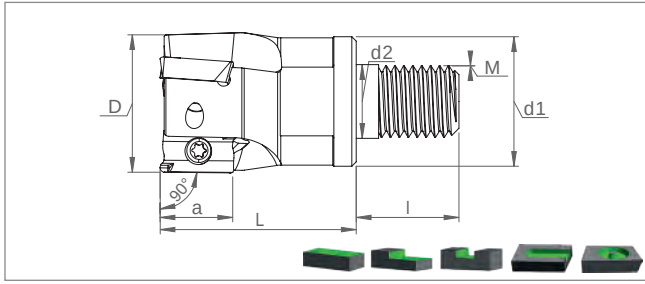
D Type



D	d1	d2	p	q	h
315	60	101.6	25.7	14	40



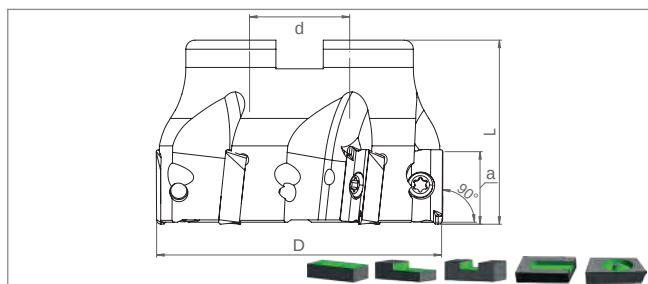
Ordering Code	Item Designation	Dimensions (mm)								Master Insert*
ST90 APKT 1003.. ISO			D	d	Z	L	l	a		
SM12493	ST90 AP10 D12 W12 L120 Z01	-	12	12	1	120	30	10	APKT 1003..	
SM12172	ST90 AP10 D12 W16 L120 Z01	-	12	16	1	120	30	10		
SM12189	ST90 AP10 D14 W16 L120 Z01	-	14	16	1	120	30	10		
SM01729	ST90 AP10 D16 W16 L100 Z02-H	✓	16	16	2	100	30	10		
SM12196	ST90 AP10 D16 W16 L120 Z02	-	16	16	2	120	30	10		
SM12486	ST90 AP10 D16 W16 L120 Z02-H	✓	16	16	2	120	30	10		
SM12264	ST90 AP10 D16 W16 L150 Z02	-	16	16	2	150	40	10		
SM27794	ST90 AP10 D16 W16 L150 Z02-H	✓	16	16	2	150	40	10		
SM12318	ST90 AP10 D16 C16 L200 Z02	-	16	16	2	200	50	10		
SM38592	ST90 AP10 D16 C16 L200 Z02-H	✓	16	16	2	200	50	10		
SM38639	ST90 AP10 D17 W16 L150 Z02	-	17	16	2	150	25	10		
SM38585	ST90 AP10 D17 C16 L200 Z02	-	17	16	2	200	25	10		
SM12202	ST90 AP10 D18 W16 L120 Z02	-	18	16	2	120	25	10		
SM61217	ST90 AP10 D18 W16 L120 Z02-H	✓	18	16	2	120	25	10		
SM12271	ST90 AP10 D18 W16 L150 Z02	-	18	16	2	150	25	10		
SM12325	ST90 AP10 D18 C16 L200 Z02	-	18	16	2	200	30	10		
SM38578	ST90 AP10 D18 C16 L200 Z02-H	✓	18	16	2	200	30	10		
SM01736	ST90 AP10 D20 W20 L100 Z03-H	✓	20	20	3	100	30	10		
SM12219	ST90 AP10 D20 W20 L120 Z03	-	20	20	3	120	30	10		
SM12394	ST90 AP10 D20 W20 L120 Z03-H	✓	20	20	3	120	30	10		
SM12288	ST90 AP10 D20 W20 L150 Z03	-	20	20	3	150	40	10		
SM38622	ST90 AP10 D20 W20 L150 Z03-H	✓	20	20	3	150	40	10		
SM12349	ST90 AP10 D20 C20 L200 Z03	-	20	20	3	200	50	10		
SM38561	ST90 AP10 D20 C20 L200 Z03-H	✓	20	20	3	200	50	10		
SM38615	ST90 AP10 D21 W20 L150 Z03	-	21	20	3	150	30	10		
SM38554	ST90 AP10 D21 C20 L200 Z03	-	21	20	3	200	25	10		
SM12226	ST90 AP10 D22 W20 L120 Z03	-	22	20	3	120	25	10		
SM12295	ST90 AP10 D22 W20 L150 Z03	-	22	20	3	150	25	10		
SM12356	ST90 AP10 D22 C20 L200 Z03	-	22	20	3	200	25	10		
SM12370	ST90 AP10 D23 W20 L120 Z03	-	23	20	3	120	25	10		
SM12233	ST90 AP10 D24 W20 L120 Z03	-	24	20	3	120	30	10		
SM12387	ST90 AP10 D24 W20 L150 Z03	-	24	20	3	150	25	10		
SM26889	ST90 AP10 D24 C20 L200 Z03	-	24	20	3	200	25	10		
SM01743	ST90 AP10 D25 W25 L100 Z03-H	✓	25	25	3	100	30	10		
SM12240	ST90 AP10 D25 W25 L120 Z03	-	25	25	3	120	30	10		
SM12417	ST90 AP10 D25 W25 L120 Z03-H	✓	25	25	3	120	30	10		
SM12332	ST90 AP10 D25 W25 L150 Z03	-	25	25	3	150	40	10		
SM38608	ST90 AP10 D25 W25 L150 Z03-H	✓	25	25	3	150	40	10		
SM12363	ST90 AP10 D25 C25 L200 Z03	-	25	25	3	200	50	10		
SM12479	ST90 AP10 D25 C25 L250 Z03		25	25	3	250	180	10		
SM12509	ST90 AP10 D26 W25 L120 Z03-H	✓	26	25	3	120	25	10		
SM12516	ST90 AP10 D26 W25 L150 Z03	-	26	25	3	150	25	10		
SM12523	ST90 AP10 D26 C25 L200 Z03	-	26	25	3	200	25	10		
SM12165	ST90 AP10 D30 W25 L120 Z04	-	30	25	4	120	30	10		
SM12455	ST90 AP10 D30 W25 L150 Z04	-	30	25	4	150	30	10		
SM12400	ST90 AP10 D32 W25 L120 Z04	-	32	25	4	120	30	10		
SM12257	ST90 AP10 D32 W32 L120 Z04	-	32	32	4	120	30	10		
SM12424	ST90 AP10 D32 W32 L120 Z04-H	✓	32	32	4	120	30	10		
SM12431	ST90 AP10 D32 W25 L150 Z04	-	32	25	4	150	40	10		
SM12448	ST90 AP10 D32 W32 L150 Z04	-	32	32	4	150	40	10		
 SM66625	ST90 AP10 D32 W32 L150 Z04-H	✓	32	32	4	150	40	10		
SM24113	ST90 AP10 D32 C32 L300 Z04	-	32	32	4	300	230	10		
SM12301	ST90 AP10 D35 W32 L120 Z05	-	35	32	5	120	30	10		
SM12158	ST90 AP10 D40 W32 L120 Z05	-	40	32	5	120	30	10		
SM12462	ST90 AP10 D40 W32 L150 Z05	-	40	32	5	150	40	10		



Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	MT90 APKT 1003.. ISO		<i>D</i>	<i>Z</i>	<i>d1</i>	<i>d2</i>	<i>L</i>	<i>l</i>	<i>M</i>	<i>a</i>	
SM15586	MT90 AP10 D16 M08 L25 Z02-H	✓	16	2	15	8.5	25	17	8	10	APKT 1003..
SM15593	MT90 AP10 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	10	
SM15609	MT90 AP10 D25 M12 L35 Z03-H	✓	25	3	21	12.5	35	23	12	10	
SM15616	MT90 AP10 D32 M16 L43 Z04-H	✓	32	4	29	17	43	23	16	10	
SM15623	MT90 AP10 D40 M16 L43 Z05-H	✓	40	5	29	17	43	23	16	10	
SM15630	MT90 AP10 D42 M16 L43 Z05-H	✓	42	5	29	17	43	23	16	10	



Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D12 - D16	APKT 1003..	SSV M2.5x5- 9504	STK-T08- 9908	1,0
D17 - D42		SSV M2.5x6- 9505		

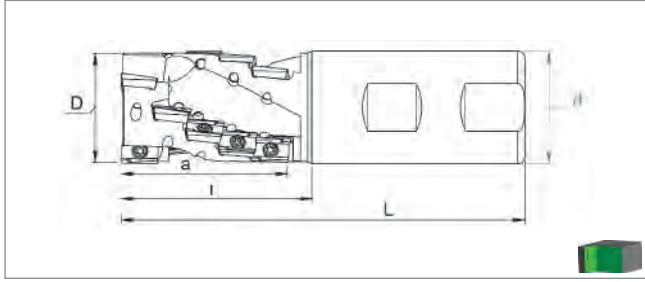


Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
	TK90 APKT 1003.. ISO		<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM29309	TK90 AP10 D40 A16 Z05-H	✓	40	5	16	40	10	APKT 1003..
SM29293	TK90 AP10 D50 A22 Z06-H	✓	50	6	22	40	10	
SM29286	TK90 AP10 D63 A22 Z07-H	✓	63	7	22	40	10	
SM29279	TK90 AP10 D80 A27 Z08-H	✓	80	8	27	50	10	
SM29262	TK90 AP10 D100 A32 Z09-H	✓	100	9	32	50	10	
SM13988	TK90 AP10 D125 B40 Z11	-	125	11	40	63	10	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.



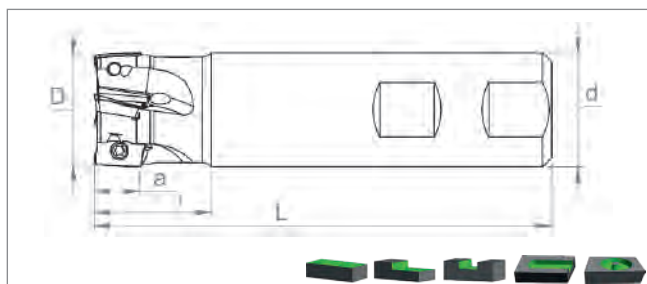
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value  N·m
D40 - D125	APKT 1003..	SSV M2.5x6-9505	STK-T08-9908	1,0



Ordering Code	Item Designation		Dimensions (mm)							Master Insert*
	HT90 APKT 1003.. HELICAL CUTTER ISO		D	Z	Z1	d	L	l	a	
SM15777	HT90 AP10 D20 W20 L87 A20 Z06	-	20	2	6	20	87	40	28	APKT 1003..
SM15784	HT90 AP10 D25 W25 L105 Z08-H	✓	25	2	8	25	105	45	38	
SM15791	HT90 AP10 D32 W32 L115 Z15-H	✓	32	3	15	32	115	55	47	
SM15807	HT90 AP10 D40 W32 L130 Z18-H	✓	40	3	18	32	130	75	55	

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
				N·m
D20 - D40	APKT 1003..	SSV M2.5x6- 9505	STK-T08- 9908	1,0

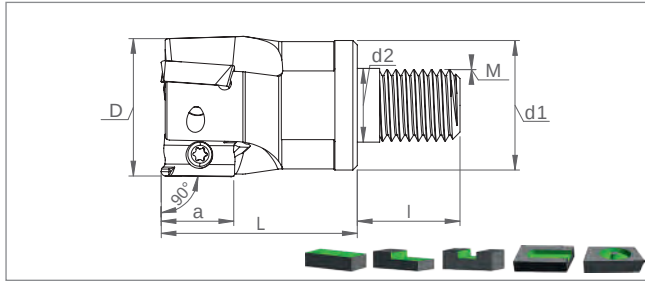
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
				N·m
D60 - D90	APKT 1604..	SSV M4x9x5- 9528	STK-T15- 9910	3,0



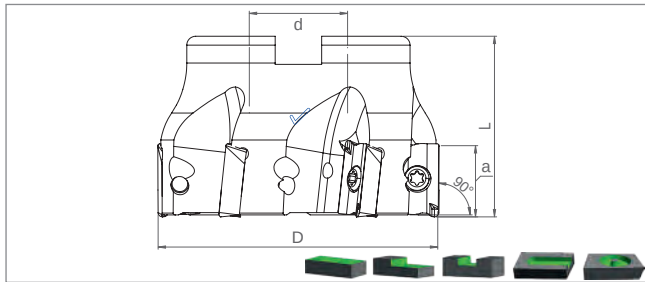
Ordering Code	Item Designation	Dimensions (mm)								Master Insert*
	ST90 APKT 1604.. ISO		D	d	Z	L	l	a		
SM12783	ST90 AP16 D25 W25 L120 Z02	-	25	25	2	120	30	16	APKT 1604..	
SM57043	ST90 AP16 D25 W25 L120 Z02-H	✓	25	25	2	120	30	16		
SM12875	ST90 AP16 D25 W25 L150 Z02	-	25	25	2	150	40	16		
SM57050	ST90 AP16 D25 W25 L150 Z02-H	✓	25	25	2	150	40	16		
SM12929	ST90 AP16 D25 C25 L200 Z02	-	25	25	2	200	50	16		
SM24137	ST90 AP16 D25 C25 L250 Z02	-	25	25	2	250	180	16		
SM12790	ST90 AP16 D26 W25 L120 Z02	-	26	25	2	120	30	16		
SM57067	ST90 AP16 D26 W25 L120 Z02-H	✓	26	25	2	120	30	16		
SM12950	ST90 AP16 D26 W25 L150 Z02	-	26	25	2	150	30	16		
SM13001	ST90 AP16 D26 C25 L200 Z02	-	26	25	2	200	30	16		
SM12806	ST90 AP16 D28 W25 L120 Z02	-	28	25	2	120	35	16		
SM12967	ST90 AP16 D28 W25 L150 Z02	-	28	25	2	150	35	16		
SM13018	ST90 AP16 D28 C25 L200 Z02	-	28	25	2	200	40	16		
SM12868	ST90 AP16 D30 W25 L120 Z03	-	30	25	3	120	35	16		
SM57074	ST90 AP16 D30 W25 L120 Z03-H	✓	30	25	3	120	35	16		
SM12882	ST90 AP16 D30 W25 L150 Z03	-	30	25	3	150	35	16		
SM12769	ST90 AP16 D30 C25 L200 Z03	-	30	25	3	200	40	16		
SM13032	ST90 AP16 D32 W25 L120 Z03	-	32	25	3	120	35	16		
SM12813	ST90 AP16 D32 W32 L120 Z03	-	32	32	3	120	30	16		
SM57081	ST90 AP16 D32 W32 L120 Z03-H	✓	32	32	3	120	30	16		
SM12899	ST90 AP16 D32 W32 L150 Z03	-	32	32	3	150	40	16		
SM12974	ST90 AP16 D32 W25 L150 Z03	-	32	25	3	150	35	16		
SM12752	ST90 AP16 D32 C32 L200 Z03	-	32	32	3	200	50	16		
SM24120	ST90 AP16 D32 C32 L250 Z03	-	32	32	3	250	180	16		
SM24106	ST90 AP16 D32 C32 L300 Z03	-	32	32	3	300	230	16		
SM12820	ST90 AP16 D34 W32 L120 Z03	-	34	32	3	120	30	16		
SM12981	ST90 AP16 D34 W32 L150 Z03	-	34	32	3	150	30	16		
SM13025	ST90 AP16 D34 C32 L200 Z03	-	34	32	3	200	30	16		
SM12943	ST90 AP16 D35 W32 L120 Z03	-	35	32	3	120	30	16		
SM12905	ST90 AP16 D35 W32 L150 Z03	-	35	32	3	150	40	16		
SM12936	ST90 AP16 D35 C32 L200 Z03	-	35	32	3	200	30	16		
SM12837	ST90 AP16 D36 W32 L120 Z03	-	36	32	3	120	30	16		
SM12844	ST90 AP16 D38 W32 L120 Z04	-	38	32	4	120	40	16		
SM12851	ST90 AP16 D40 W32 L120 Z04	-	40	32	4	120	40	16		
SM12998	ST90 AP16 D40 W25 L150 Z04	-	40	25	4	150	40	16		
SM12912	ST90 AP16 D40 W32 L150 Z04	-	40	32	4	150	40	16		
SM12776	ST90 AP16 D40 C32 L200 Z04	-	40	32	4	200	40	16		

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D25 - D35	APKT 1604..	SSV M4x9x5-9528	STK-T15-9910	2,7
D36 - D40				

*Suitable Insert brand is ISO



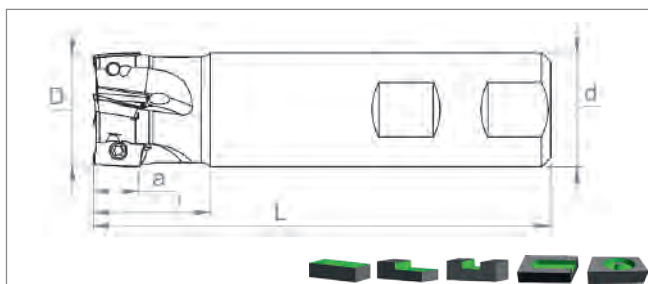
Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	MT90 APKT 1604.. ISO		D	Z	d1	d2	L	l	M	a	
SM23833	MT90 AP16 D25 M12 L35 Z02-H	✓	25	2	21	12.5	35	23	12	16	APKT 1604..
SM64416	MT90 AP16 D30 M16 L43 Z03-H	✓	30	3	29	17	43	23	16	16	
SM23840	MT90 AP16 D32 M16 L43 Z03-H	✓	32	3	29	17	43	23	16	16	
SM23857	MT90 AP16 D40 M16 L43 Z04-H	✓	40	4	29	17	43	23	16	16	
SM23864	MT90 AP16 D42 M16 L43 Z04-H	✓	42	4	29	17	43	23	16	16	



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 APKT 1604.. ISO		D	Z	d	L	a	
SM29255	TK90 AP16 D40 A16 Z04-H	✓	40	4	16	40	16	APKT 1604..
SM29248	TK90 AP16 D50 A22 Z05-H	✓	50	5	22	40	16	
SM29231	TK90 AP16 D63 A22 Z06-H	✓	63	6	22	40	16	
SM29224	TK90 AP16 D80 A27 Z07-H	✓	80	7	27	50	16	
SM29217	TK90 AP16 D100 A32 Z08-H	✓	100	8	32	50	16	
SM14091	TK90 AP16 D125 B40 Z09	-	125	9	40	63	16	
SM14107	TK90 AP16 D160 C40 Z10	-	160	10	40	63	16	
SM14114	TK90 AP16 D200 C60 Z12	-	200	12	60	63	16	
SM63754	TK90 AP16 D315 D60 Z16	-	315	16	60	63	16	

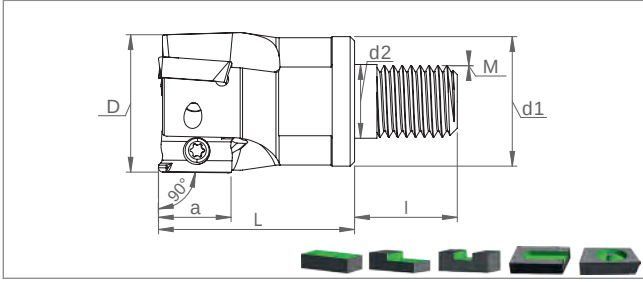
Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D25 - D200	APKT 1604..	SSV M4x9x5-9528	STK-T15-9910	3,0

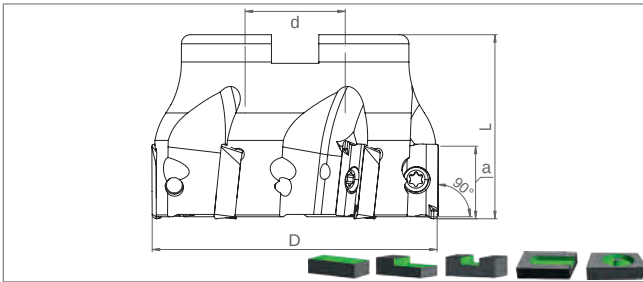


Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 APMT 0602.. - 11T3</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM35232	ST90 AP06 D10 C10 L120 Z02	-	10	10	2	120	30	6	APMT 0602..
SM35249	ST90 AP06 D12 C12 L120 Z02	-	12	12	2	120	30	6	
SM12547	ST90 AP11 D16 W16 L120 Z02	-	16	16	2	120	30	11	APMT 11T3..
SM51713	ST90 AP11 D16 W16 L120 Z02-H	✓	16	16	2	120	30	11	
SM12592	ST90 AP11 D16 W16 L150 Z02	-	16	16	2	150	40	11	
SM51744	ST90 AP11 D16 W16 L150 Z02-H	✓	16	16	2	150	40	11	
SM12615	ST90 AP11 D16 C16 L200 Z02	-	16	16	2	200	50	11	
SM12554	ST90 AP11 D20 W20 L120 Z03	-	20	20	3	120	30	11	
SM51720	ST90 AP11 D20 W20 L120 Z03-H	✓	20	20	3	120	30	11	
SM12608	ST90 AP11 D20 W20 L150 Z03	-	20	20	3	150	40	11	
SM51751	ST90 AP11 D20 W20 L150 Z03-H	✓	20	20	3	150	40	11	
SM12530	ST90 AP11 D20 C20 L200 Z03	-	20	20	3	200	50	11	
SM12561	ST90 AP11 D25 W25 L120 Z03	-	25	25	3	120	30	11	
SM51737	ST90 AP11 D25 W25 L120 Z03-H	✓	25	25	3	120	30	11	
SM12622	ST90 AP11 D25 W25 L150 Z03	-	25	25	3	150	40	11	
SM51768	ST90 AP11 D25 W25 L150 Z03-H	✓	25	25	3	150	40	11	
SM12660	ST90 AP11 D25 C25 L200 Z03	-	25	25	3	200	50	11	
SM12578	ST90 AP11 D26 W25 L120 Z03	-	26	25	3	120	30	11	
SM12639	ST90 AP11 D26 W25 L150 Z03	-	26	25	3	150	30	11	
SM12677	ST90 AP11 D26 C25 L200 Z03	-	26	25	3	200	30	11	
SM12585	ST90 AP11 D32 W32 L120 Z04	-	32	32	4	120	30	11	
SM12653	ST90 AP11 D32 W32 L150 Z04	-	32	32	4	150	40	11	
SM12684	ST90 AP11 D32 C32 L200 Z04	-	32	32	4	200	50	11	

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D10 - D12	APMT 0602..	SSV M1.8x4- 9501	STK-T06- 9906	0,4
D16 - D32	APMT 11T3..	SSV M2.5x6- 9505	STK-T08- 9908	1,0



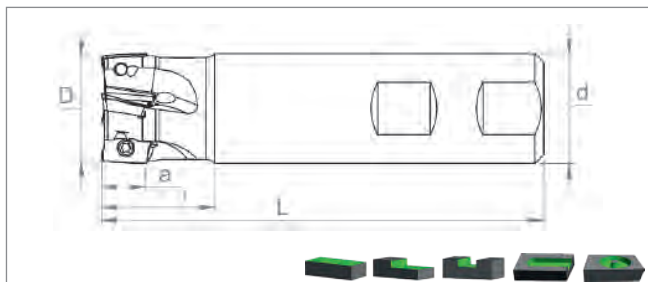
Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	MT90 APMT 11T3..		D	Z	d1	d2	L	l	M	a	
SM51928	MT90 AP11 D16 M08 L25 Z02-H	✓	16	2	15	8.5	25	17	8	11	APMT 11T3..
SM51935	MT90 AP11 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	11	
SM51942	MT90 AP11 D25 M12 L35 Z04-H	✓	25	4	21	12.5	35	23	12	11	



Ordering Code	Item Designation		Dimensions (mm)						Master Insert*
	TK90 APMT 11T3..		D	Z	d	L	a		
SM46122	TK90 AP11 D40 A16 Z05-H	✓	40	5	16	40	11		APMT 11T3..
SM46139	TK90 AP11 D50 A22 Z06-H	✓	50	6	22	40	11		
SM46146	TK90 AP11 D63 A22 Z07-H	✓	63	7	22	40	11		
SM46153	TK90 AP11 D80 A27 Z08-H	✓	80	8	27	50	11		

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

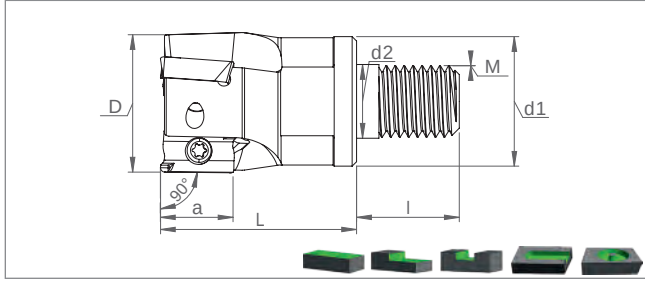
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value
D16 - D25	APMT 11T3..	SSV M2.5x6-9505	STK-T08-9908	1,0
D40 - D80		SSV M2.5x7-9506		



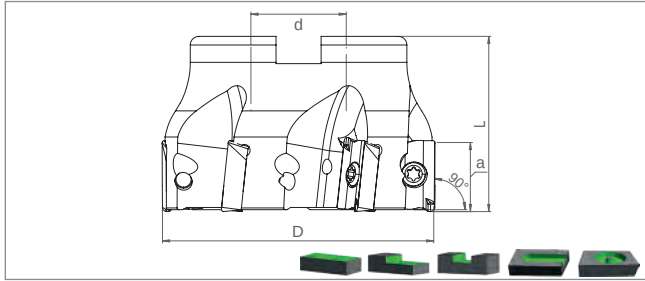
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 APMT 1135..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM51775	ST90 APMT11 D16 W16 L120 Z02-H	✓	16	16	2	120	30	11	APMT 1135..
SM47648	ST90 APMT11 D16 W16 L150 Z02-H	✓	16	16	2	150	40	11	
SM01231	ST90 APMT11 D16 C16 L200 Z02	-	16	16	2	200	50	11	
SM51812	ST90 APMT11 D17 W16 L150 Z02-H	✓	17	16	2	150	30	11	
SM51867	ST90 APMT11 D17 C16 L200 Z02	-	17	16	2	200	30	11	
SM51782	ST90 APMT11 D18 W16 L120 Z02-H	✓	18	16	2	120	30	11	
SM51829	ST90 APMT11 D18 W16 L150 Z02-H	✓	18	16	2	150	30	11	
SM51799	ST90 APMT11 D20 W20 L120 Z03-H	✓	20	20	3	120	30	11	
SM47655	ST90 APMT11 D20 W20 L150 Z03-H	✓	20	20	3	150	40	11	
SM51874	ST90 APMT11 D20 C20 L200 Z03	-	20	20	3	200	50	11	
SM51836	ST90 APMT11 D21 W20 L150 Z03-H	✓	21	20	3	150	30	11	
SM51881	ST90 APMT11 D21 C20 L200 Z03	-	21	20	3	200	30	11	
SM51805	ST90 APMT11 D25 W25 L120 Z04-H	✓	25	25	4	120	30	11	
SM47662	ST90 APMT11 D25 W25 L150 Z04-H	✓	25	25	4	150	40	11	
SM51898	ST90 APMT11 D25 C25 L200 Z04	-	25	25	4	200	50	11	
SM51843	ST90 APMT11 D26 W25 L150 Z04-H	✓	26	25	4	150	30	11	
SM51904	ST90 APMT11 D26 C25 L200 Z04	-	26	25	4	200	30	11	



Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D16 - D26	APMT 1135..	SSV M2.5x6-9505	STK-T08-9908	1,0



Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	MT90 APMT 1135..		D	Z	d1	d2	L	l	M	a	
SM47709	MT90 APMT11 D16 M08 L25 Z02-H	✓	16	2	15	8.5	25	17	8	11	APMT 1135..
SM47716	MT90 APMT11 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	11	
SM47723	MT90 APMT11 D25 M12 L35 Z04-H	✓	25	4	21	12.5	35	23	12	11	
SM00876	MT90 APMT11 D32 M16 L43 Z04-H	✓	32	4	29	17	43	23	16	16	



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 APMT 1135..		D	Z	d	L	a	
SM47679	TK90 APMT11 D40 A16 Z05-H	✓	40	5	16	40	11	APMT 1135..
SM47686	TK90 APMT11 D50 A22 Z06-H	✓	50	6	22	40	11	
SM50181	TK90 APMT11 D63 A22 Z07-H	✓	63	7	22	40	11	
SM50198	TK90 APMT11 D80 A27 Z08-H	✓	80	8	27	50	11	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.



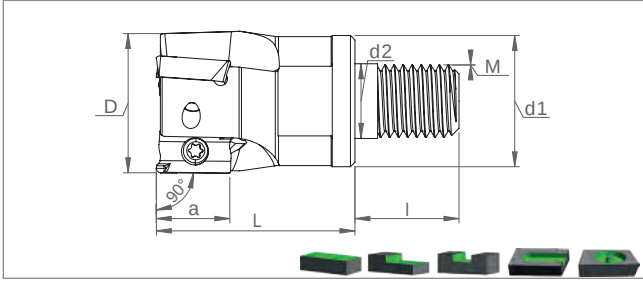
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D16 - D32	APMT 1135..			N-m
D40 - D80		SSV M2.5x6-9505 SSV M2.5x7-9506		
			STK-T08-9908	1,0



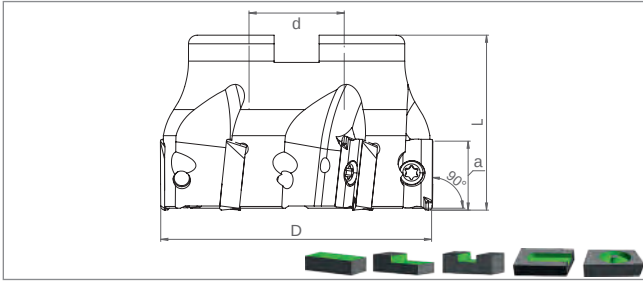
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 APKT 09T3.. - 1204.. / 1705..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM32637	ST90 AP09T3 D16 W16 L150 Z02-H	✓	16	16	2	150	40	8.8	APKT 09T3..
SM32644	ST90 AP09T3 D16 C16 L200 Z02	-	16	16	2	200	50	8.8	
SM32620	ST90 AP09T3 D20 W20 L150 Z03-H	✓	20	20	3	150	40	8.8	
SM32651	ST90 AP09T3 D20 C20 L200 Z03	-	20	20	3	200	50	8.8	
SM12691	ST90 AP12 D20 W20 L150 Z02	-	20	20	2	150	40	12	APKT 1204..
SM12707	ST90 AP12 D21 W20 L150 Z02	-	21	20	2	150	30	12	
SM12721	ST90 AP12 D21 C20 L200 Z02	-	21	20	2	200	30	12	
SM12714	ST90 AP12 D25 W25 L150 Z03	-	25	25	3	150	40	12	
SM12738	ST90 AP12 D26 C25 L200 Z03	-	26	25	3	200	30	12	APKT 1705..
SM12646	ST90 AP12 D32 W32 L150 Z04	-	32	32	4	150	40	12	
SM13049	ST90 AP17 D25 W25 L120 Z02	-	25	25	2	120	30	16	
SM01552	ST90 AP17 D25 C25 L200 Z02	-	25	25	2	200	40	16	
SM13063	ST90 AP17 D26 C25 L200 Z02	-	26	25	2	200	30	16	APKT 1705..
SM13070	ST90 AP17 D26 C25 L250 Z02	-	26	25	2	250	50	16	
SM13087	ST90 AP17 D30 C25 L300 Z02	-	30	25	2	300	50	16	
SM13056	ST90 AP17 D32 W32 L150 Z03	-	32	32	3	150	40	16	
SM00814	ST90 AP17 D32 C32 L200 Z03	-	32	32	3	200	40	16	APKT 1705..
SM01569	ST90 AP17 D40 C32 L200 Z04	-	40	32	4	200	40	16	



Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D16	APKT 09T3..**	SSV M2.5x5- 9504	STK-T08- 9908	1,0
D20		SSV M2.5x6- 9505		
D20 - D32	APKT 1204..**	SSV M3.5x8-SC- 9513	STK-T10- 9909	2,7
D25 - D40	APKT 1705..**	SSV M4x10- 9514	STK-T15- 9910	3,0



Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	MT90 APKT 09T3.. - 1204..		D	Z	d1	d2	L	l	M	a	
SM56138	MT90 AP09 D16 M08 L25 Z02-H	✓	16	2	15	8.5	25	17	8	8.8	APKT 09T3..
SM56145	MT90 AP09 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	8.8	
SM56329	MT90 AP12 D20 M10 L30 Z02-H	✓	20	2	18	10.5	30	19	10	12	
SM56336	MT90 AP12 D25 M12 L35 Z03-H	✓	25	3	21	12.5	35	23	12	12	APKT 1204..
SM56343	MT90 AP12 D32 M16 L43 Z04-H	✓	32	4	29	17	43	23	16	12	



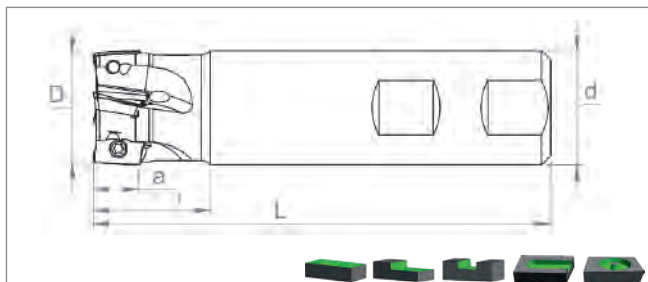
Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 APKT 1204.. / 1705..		D	Z	d	L	a	
SM54240	TK90 AP12 D40 A16 Z05-H	✓	40	5	16	40	12	APKT 1204..
SM54257	TK90 AP12 D50 A22 Z06-H	✓	50	6	22	40	12	
SM54264	TK90 AP12 D63 A22 Z07-H	✓	63	7	22	40	12	
SM28852	TK90 AP17 D50 A22 Z05-H	✓	50	5	22	40	16	APKT 1705..
SM28845	TK90 AP17 D63 A22 Z06-H	✓	63	6	22	40	16	
SM28838	TK90 AP17 D80 A27 Z07-H	✓	80	7	27	50	16	
SM28821	TK90 AP17 D100 A32 Z09-H	✓	100	9	32	50	16	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" içten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D16	APKT 09T3..**	SSV M2.5x5-9504	STK-T08-9908	1,0
D20		SSV M2.5x6-9505		
D20 - D63	APKT 1204..**	SSV M3.5x8-SC-9513	STK-T10-9909	2,7
D50 - D100	APKT 1705..**	SSV M4x10-9514	STK-T15-9910	3,0

**Body corners should be modified for R2 and more radius inserts / R2 ve üstü radyüslü uçlarda takımın modifiye edilmesi gerekmektedir. ■

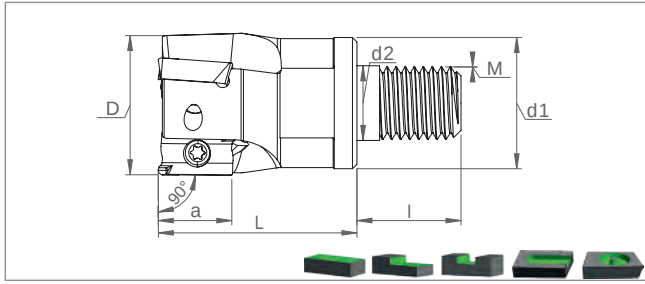
*Suitable Insert brand is TGTC



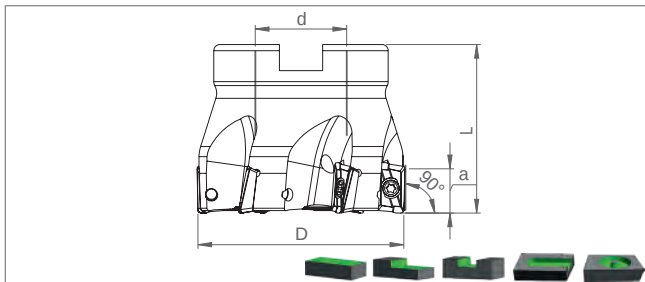
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 APKT 11T3..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM44159	ST90 APKT11 D16 W16 L150 Z02-H	✓	16	16	2	150	40	11	APKT 11T3..
SM49697	ST90 APKT11 D17 W16 L150 Z02-H	✓	17	16	2	150	30	11	
SM44166	ST90 APKT11 D20 W20 L150 Z03-H	✓	20	20	3	150	40	11	
SM49703	ST90 APKT11 D21 W20 L150 Z03-H	✓	21	20	3	150	30	11	
SM44173	ST90 APKT11 D25 W25 L150 Z04-H	✓	25	25	4	150	40	11	
SM49710	ST90 APKT11 D26 W25 L150 Z04-H	✓	26	25	4	150	30	11	
SM44180	ST90 APKT11 D32 W32 L150 Z04-H	✓	32	32	4	150	40	11	



Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D16 - D32	APKT 11T3..	SSV M2.5x6-9505	STK-T08-9908	1,0



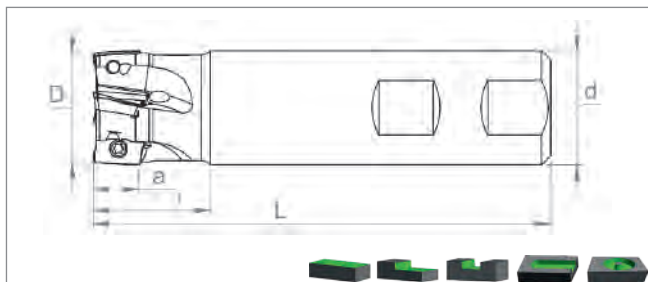
Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	MT90 APKT 11T3..		D	Z	d1	d2	L	l	M	a	
SM46344	MT90 APKT11 D16 M08 L25 Z02-H	✓	16	2	15	8.5	25	17	8	11	APKT 11T3..
SM46351	MT90 APKT11 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	11	
SM46368	MT90 APKT11 D25 M12 L35 Z04-H	✓	25	4	21	12.5	35	23	12	11	



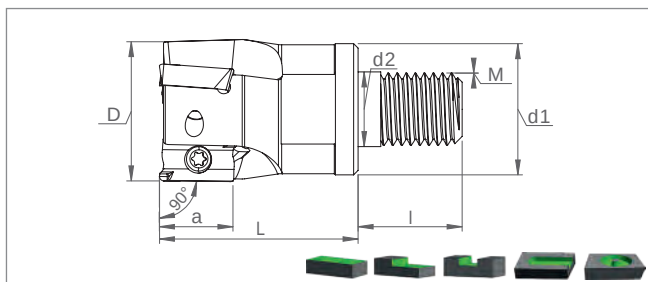
Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 APKT 11T3..		D	Z	d	L	a	
SM44883	TK90 APKT11 D40 A16 Z05-H	✓	40	5	16	40	11	APKT 11T3..
SM44890	TK90 APKT11 D50 A22 Z06-H	✓	50	6	22	40	11	
SM44906	TK90 APKT11 D63 A22 Z07-H	✓	63	7	22	40	11	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D16 - D25	APKT 11T3..	SSV M2.5x6- 9505	STK-T08- 9908	1,0
D40 - D63		SSV M2.5x7- 9506		

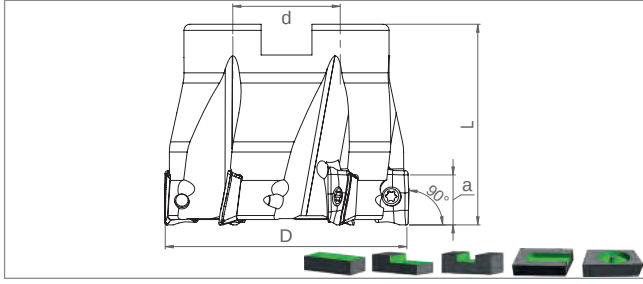


Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
ST90 R390.0702../R390.11T3../R390.1704			D	d	Z	L	l	a	
SM58101	ST90 R390.07 D10 W10 L100 Z02-H	✓	10	10	2	100	25	5.8	R390-0702..
SM58118	ST90 R390.07 D12 W12 L100 Z02-H	✓	12	12	2	100	25	5.8	
SM58125	ST90 R390.07 D14 W12 L100 Z03-H	✓	14	12	3	100	25	5.8	
SM58132	ST90 R390.07 D16 W16 L110 Z04-H	✓	16	16	4	110	30	5.8	
SM29873	ST90 R390.11 D16 W16 L100 Z02-H	✓	16	16	2	100	30	10	R390-11T3..
SM13780	ST90 R390.11 D16 W16 L150 Z02	-	16	16	2	150	40	10	
SM13797	ST90 R390.11 D16 W16 L150 Z02-H	✓	16	16	2	150	40	10	
SM13759	ST90 R390.11 D20 W20 L100 Z03-H	✓	20	20	3	100	30	10	
SM27053	ST90 R390.11 D20 W20 L110 Z03-H	✓	20	20	3	110	30	10	
SM13803	ST90 R390.11 D20 W20 L150 Z03	-	20	20	3	150	40	10	
SM13810	ST90 R390.11 D20 W20 L150 Z03-H	✓	20	20	3	150	40	10	
SM37885	ST90 R390.11 D25 W25 L100 Z03-H	✓	25	25	3	100	30	10	
SM13827	ST90 R390.11 D25 W25 L150 Z03	-	25	25	3	150	40	10	R390-1704..
SM13858	ST90 R390.11 D25 W25 L150 Z03-H	✓	25	25	3	150	40	10	
SM13834	ST90 R390.17 D25 W25 L150 Z02	-	25	25	2	150	40	15.7	
SM13865	ST90 R390.17 D25 W25 L150 Z02-H	✓	25	25	2	150	40	15.7	
SM13841	ST90 R390.17 D30 W25 L150 Z03	-	30	25	3	150	30	15.7	
SM13872	ST90 R390.17 D30 W25 L150 Z03-H	✓	30	25	3	150	30	15.7	



Ordering Code	Item Designation	Dimensions (mm)										Master Insert*
MT90 R390.11T3..			D	Z	d1	d2	L	I	M	a		
SM23871	MT90 R390.11 D16 M08 L25 Z02-H		16	2	15	8.5	25	17	8	10	R390-11T3..	
SM23888	MT90 R390.11 D20 M10 L30 Z03-H		20	3	18	10.5	30	19	10	10		
SM23895	MT90 R390.11 D25 M12 L35 Z03-H		25	3	21	12.5	35	23	12	10		
SM23918	MT90 R390.11 D32 M16 L43 Z04-H		32	4	29	17	43	23	16	10		

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
				N·m
D10 - D16	R390-0702..	SSV M1.8x4- 9501	STK-T06- 9906	0,4
D16	R390-11T3..	SSV M2.5x5- 9504	STK-T08- 9908	1,0
D20 - D32		SSV M2.5x6- 9505		
D25 - D30	R390-1704..	SSV M3.5x8- 9510	STK-T15- 9910	2,7

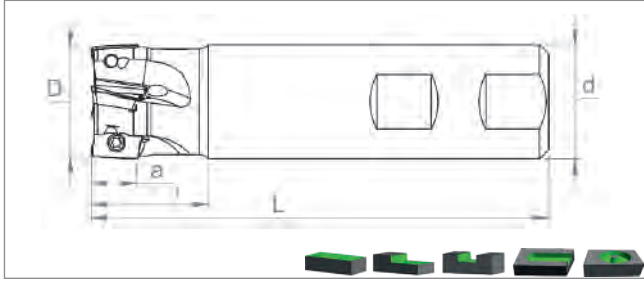


Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
TK90 R390.11T3.. / R390.1704.. / R390.1806..			<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM29156	TK90 R390.11 D40 A16 Z05-H	✓	40	5	16	40	10	R390-11T3..
SM29149	TK90 R390.11 D50 A22 Z06-H	✓	50	6	22	40	10	
SM29132	TK90 R390.11 D63 A22 Z07-H	✓	63	7	22	40	10	
SM29125	TK90 R390.17 D40 A16 Z04-H	✓	40	4	16	40	15.7	R390-1704..
SM29118	TK90 R390.17 D50 A22 Z05-H	✓	50	5	22	40	15.7	
SM29101	TK90 R390.17 D63 A22 Z06-H		63	6	22	40	15.7	
SM29095	TK90 R390.17 D80 A27 Z07-H	✓	80	7	27	50	15.7	
SM29088	TK90 R390.17 D100 A32 Z08-H	✓	100	8	32	50	15.7	
SM14305	TK90 R390.17 D125 B40 Z09	-	125	9	40	63	15.7	R390-1806..
SM50204	TK90 R390.18 D50 A22 Z05-H	✓	50	5	22	40	15.4	
SM50211	TK90 R390.18 D63 A22 Z06-H	✓	63	6	22	40	15.4	
SM50228	TK90 R390.18 D80 A27 Z07-H	✓	80	7	27	50	15.4	
SM50235	TK90 R390.18 D100 A32 Z08-H	✓	100	8	32	50	15.4	
SM54097	TK90 R390.18 D125 B40 Z09	-	125	9	40	63	15.4	
SM54103	TK90 R390.18 D160 C40 Z12	-	160	12	40	63	15.4	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" içten su vermeli montaj vidaları için.



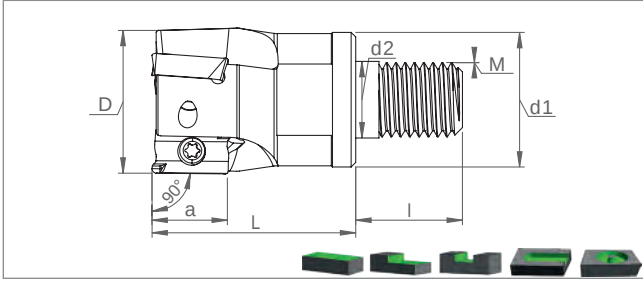
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
				 N·m
D40 - D63	R390-11T3..	SSV M2.5x7-9506	STK-T08-9908	1,0
D40 - D125	R390-1704..	SSV M3.5x10-9511	STK-T15-9910	2,7
D50 - D63	R390-1806..**	SSV M4x9x5-9528		3,0
D80 - D160				



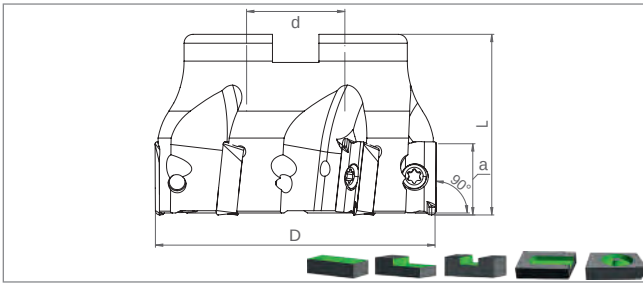
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 ASMT / ASGT 11T3..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM53670	ST90 AS11 D16 W16 L150 Z02-H	✓	16	16	2	150	40	10.6	AS.T 11T3..
SM53687	ST90 AS11 D20 W20 L150 Z03-H	✓	20	20	3	150	40	10.6	
SM53694	ST90 AS11 D25 W25 L150 Z04-H	✓	25	25	4	150	40	10.6	
SM53700	ST90 AS11 D32 W32 L150 Z05-H	✓	32	32	5	150	40	10.6	



Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D16 - D32	AS.T 11T3..**	SSV M2.5x6-9505	STK-T08-9908	1,0



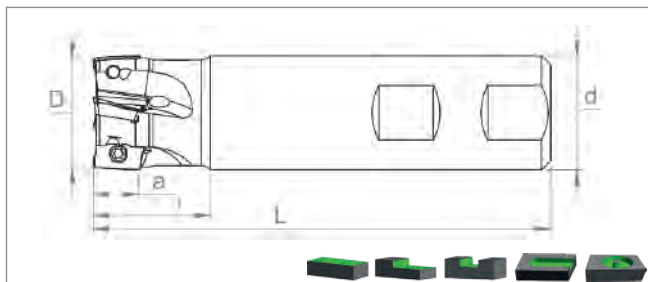
Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
<i>MT90 ASMT / ASGT 11T3..</i>			D	Z	d1	d2	L	l	M	a	
SM53717	MT90 AS11 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	10.6	AS.T 11T3..
SM53724	MT90 AS11 D25 M12 L35 Z04-H	✓	25	4	21	12.5	35	23	12	10.6	
SM53731	MT90 AS11 D32 M16 L43 Z05-H	✓	32	5	29	17	43	23	16	10.6	



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
<i>TK90 ASMT / ASGT 11T3..</i>			D	Z	d	L	a	
SM52918	TK90 AS11 D40 A16 Z06-H	✓	40	6	16	40	10.6	AS.T 11T3..
SM52925	TK90 AS11 D50 A22 Z07-H	✓	50	7	22	40	10.6	
SM52932	TK90 AS11 D63 A22 Z08-H	✓	63	8	22	40	10.6	

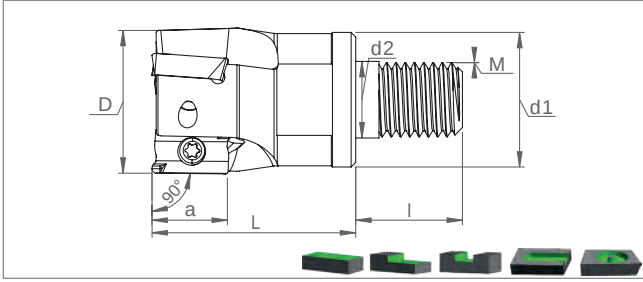
Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D20 - D32	AS.T 11T3..**	SSV M2.5x6- 9505	STK-T08- 9908	1,0
D40 - D63		SSV M2.5x7- 9506		

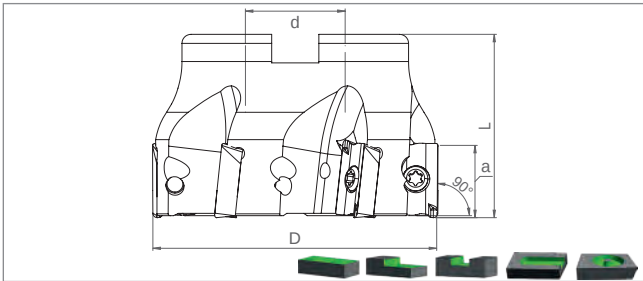


Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 BDMT / BDGT</i> <i>0703.. / 11T3.. / 1704..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM27701	ST90 BD07 D10 C10 L100 Z01	-	10	10	1	100	25	6	BD..0703..
SM27688	ST90 BD07 D10 C10 L100 Z01-H	✓	10	10	1	100	25	6	
SM27718	ST90 BD07 D12 C12 L120 Z02	-	12	12	2	120	30	6	
SM27695	ST90 BD07 D12 C12 L120 Z02-H	✓	12	12	2	120	30	6	
SM54066	ST90 BD11 D16 W16 L100 Z02-H	✓	16	16	2	100	30	10	BD..11T3..
SM37953	ST90 BD11 D16 W16 L150 Z02	-	16	16	2	150	40	10	
SM29811	ST90 BD11 D16 W16 L150 Z02-H	✓	16	16	2	150	40	10	
SM27596	ST90 BD11 D17 W16 L150 Z02-H	✓	17	16	2	150	30	10	
SM27572	ST90 BD11 D17 C16 L200 Z02	-	17	16	2	200	30	10	
SM54073	ST90 BD11 D20 W20 L100 Z03-H	✓	20	20	3	100	30	10	
SM76938	ST90 BD11 D20 W20 L150 Z02-H	✓	20	20	2	150	40	10	
SM37960	ST90 BD11 D20 W20 L150 Z03	-	20	20	3	150	40	10	
SM29804	ST90 BD11 D20 W20 L150 Z03-H	✓	20	20	3	150	40	10	
SM27633	ST90 BD11 D21 W20 L150 Z03-H	✓	21	20	3	150	30	10	
SM27619	ST90 BD11 D21 C20 L200 Z03	-	21	20	3	200	30	10	
SM64119	ST90 BD11 D23 C20 L120 Z03-H	-	23	20	3	120	30	10	
SM54080	ST90 BD11 D25 W25 L100 Z04-H	✓	25	25	4	100	30	10	BD..1704..
SM37977	ST90 BD11 D25 W25 L150 Z04	-	25	25	4	150	40	10	
SM29798	ST90 BD11 D25 W25 L150 Z04-H	✓	25	25	4	150	40	10	
SM27671	ST90 BD11 D26 W25 L150 Z04-H	✓	26	25	4	150	30	10	
SM27657	ST90 BD11 D26 C25 L200 Z04	-	26	25	4	200	30	10	
SM37984	ST90 BD11 D32 W32 L150 Z05-H	✓	32	32	5	150	40	10	
SM35881	ST90 BD17 D25 W25 L150 Z02	-	25	25	2	150	40	15.7	
SM35898	ST90 BD17 D25 W25 L150 Z02-H	✓	25	25	2	150	40	15.7	
SM35911	ST90 BD17 D25 C25 L200 Z02	-	25	25	2	200	50	15.7	BD..1704..
SM35904	ST90 BD17 D32 W32 L150 Z03	-	32	32	3	150	40	15.7	
SM35928	ST90 BD17 D32 C32 L200 Z03	-	32	32	3	200	50	15.7	

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D10 - D12	BD..0703..	SSV M2x4- 9521	STK-T06- 9906	0,4
D16 - D17	BD..11T3..	SSV M2.5x5- 9504	STK-T08- 9908	1,0
D20 - D32		SSV M2.5x6- 9505		
D25 - D32	BD..1704..	SSV M4x9x5- 9528	STK-T15- 9910	3,0



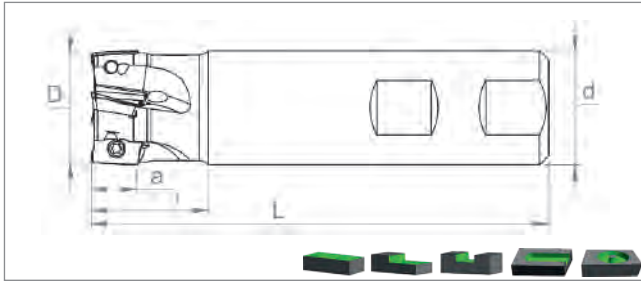
Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
MT90 BDMT / BDGT 11T3..			<i>D</i>	<i>Z</i>	<i>d1</i>	<i>d2</i>	<i>L</i>	<i>l</i>	<i>M</i>	<i>a</i>	
SM36543	MT90 BD11 D16 M08 L25 Z02-H	✓	16	2	15	8.5	25	17	8	10	BD..11T3..
SM36550	MT90 BD11 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	10	
SM36567	MT90 BD11 D25 M12 L35 Z04-H	✓	25	4	21	12.5	35	23	12	10	
SM36574	MT90 BD11 D32 M16 L43 Z05-H	✓	32	5	29	17	43	23	16	10	



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
TK90 BDMT / BDGT 11T3.. / 1704..			<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM52994	TK90 BD11 D40 A16 Z04-H	✓	40	4	16	40	10	BD..11T3..
SM01767	TK90 BD11 D40 A16 Z05-H	✓	40	5	16	40	10	
SM53007	TK90 BD11 D50 A22 Z04-H	✓	50	4	22	40	10	
SM01774	TK90 BD11 D50 A22 Z05-H	✓	50	5	22	40	10	
SM01781	TK90 BD11 D63 A22 Z06-H	✓	63	6	22	40	10	
SM53014	TK90 BD11 D80 A27 Z06-H	✓	80	6	27	50	10	
SM01798	TK90 BD11 D80 A27 Z07-H	✓	80	7	27	50	10	
SM53021	TK90 BD11 D100 A32 Z07-H	✓	100	7	32	50	10	BD..1704..
SM39872	TK90 BD17 D40 A16 Z04-H	✓	40	4	16	40	15.7	
SM31067	TK90 BD17 D50 A22 Z05-H	✓	50	5	22	40	15.7	
SM31074	TK90 BD17 D63 A22 Z06-H	✓	63	6	22	40	15.7	
SM31081	TK90 BD17 D80 A27 Z07-H	✓	80	7	27	50	15.7	
SM54059	TK90 BD17 D100 A32 Z08-H	✓	100	8	32	50	15.7	

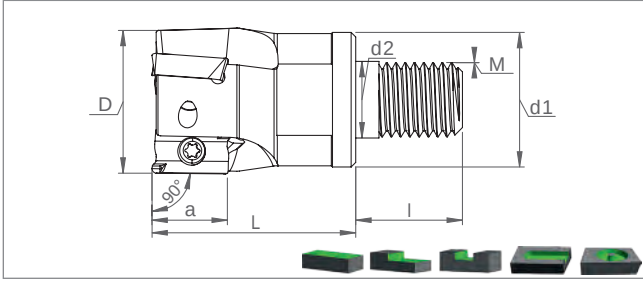
Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value
D16	BD..11T3..	SSV M2.5x5-9504	STK-T08-9908	1,0
D20 - D100		SSV M2.5x6-9505		
D40 - D100	BD..1704..	SSV M4x9x5-9528	STK-T15-9910	3,0

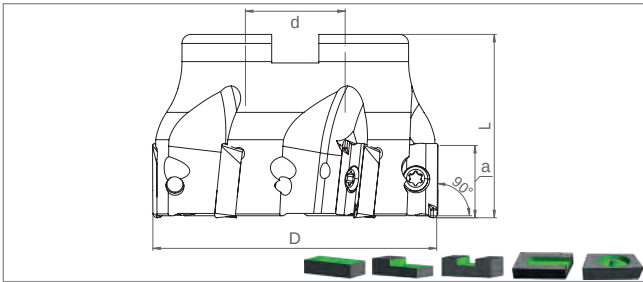


Ordering Code	Item Designation	Dimensions (mm)								Master Insert*
	ST90 AXMT 1235.. / 1705..		<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>		
SM26803	ST90 AX12 D16 W16 L120 Z02	-	16	16	2	120	30	10	AXMT 1235..	
SM26810	ST90 AX12 D16 W16 L150 Z02	-	16	16	2	150	40	10		
SM27220	ST90 AX12 D16 C16 L200 Z02	-	16	16	2	200	50	10		
SM27817	ST90 AX12 D20 W20 L110 Z03-H	✓	20	20	3	110	30	10		
SM26902	ST90 AX12 D20 W20 L120 Z03	-	20	20	3	120	30	10		
SM27824	ST90 AX12 D20 W20 L120 Z03-H	✓	20	20	3	120	30	10		
SM13100	ST90 AX12 D20 W20 L150 Z03	-	20	20	3	150	40	10		
SM27800	ST90 AX12 D20 W20 L150 Z03-H	✓	20	20	3	150	40	10		
SM52130	ST90 AX12 D20 C20 L200 Z03	-	20	20	3	200	50	10		
SM27848	ST90 AX12 D25 C20 L120 Z04	-	25	20	4	120	30	10		
SM26827	ST90 AX12 D25 W25 L120 Z04	-	25	25	4	120	30	10		
SM12745	ST90 AX12 D25 W25 L150 Z03	-	25	25	3	150	40	10		
SM39025	ST90 AX12 D25 W25 L150 Z04-H	✓	25	25	4	150	40	10		
SM22225	ST90 AX12 D25 C25 L200 Z04	-	25	25	4	200	50	10		
SM13117	ST90 AX17 D25 W25 L150 Z02	-	25	25	2	150	40	14	AXMT 1705..	
SM27077	ST90 AX17 D32 W32 L120 Z03	-	32	32	3	120	30	14		
SM27060	ST90 AX17 D32 W32 L120 Z03-H	✓	32	32	3	120	30	14		
SM22249	ST90 AX17 D32 W32 L150 Z03	-	32	32	3	150	40	14		
SM27084	ST90 AX17 D32 C32 L200 Z03	-	32	32	3	200	50	14		
SM26797	ST90 AX17 D32 C32 L250 Z03	-	32	32	3	250	50	14		
SM27022	ST90 AX17 D40 W32 L150 Z04	-	40	32	4	150	40	14		
SM27039	ST90 AX17 D40 C32 L200 Z04	-	40	32	4	200	40	14		

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D16 - D25	AXMT 1235..**	SSV M3x6- 9507	STK-T08- 9908	1,9
D25 - D40	AXMT 1705..**	SSV M4x9x5- 9528	STK-T15- 9910	3,9



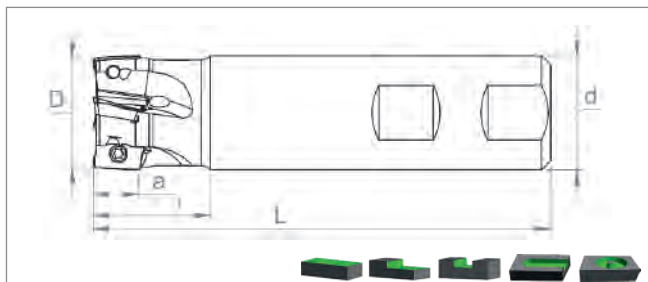
Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	MT90 AXMT 1235.. / 1705..		<i>D</i>	<i>Z</i>	<i>d1</i>	<i>d2</i>	<i>L</i>	<i>l</i>	<i>M</i>	<i>a</i>	
SM23994	MT90 AX12 D16 M08 L25 Z02-H	✓	16	2	15	8.5	25	17	8	10	AXMT 1235..
SM24007	MT90 AX12 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	10	
SM62412	MT90 AX12 D25 M12 L35 Z03-H	✓	25	3	21	12.5	35	23	12	10	
SM24014	MT90 AX12 D25 M12 L35 Z04-H	✓	25	4	21	12.5	35	23	12	10	
SM56466	MT90 AX17 D32 M16 L43 Z03-H	✓	32	3	29	17	43	23	16	14	AXMT 1705..
SM56473	MT90 AX17 D40 M16 L43 Z04-H	✓	40	4	29	17	43	23	16	14	



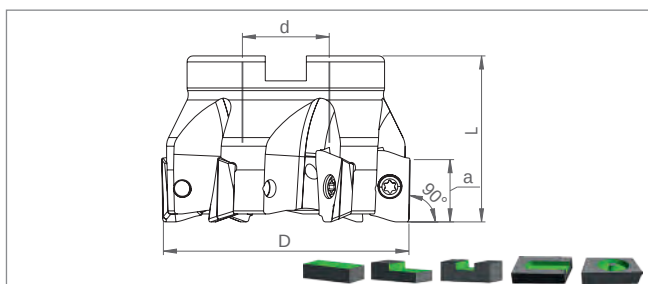
Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 AXMT 1235.. / 1705..		<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM28395	TK90 AX12 D40 A16 Z05-H	✓	40	5	16	40	10	AXMT 1235..
SM28388	TK90 AX12 D50 A22 Z06-H	✓	50	6	22	40	10	
SM28371	TK90 AX12 D63 A22 Z07-H	✓	63	7	22	40	10	
SM28364	TK90 AX12 D80 A27 Z09-H	✓	80	9	27	50	10	
SM28357	TK90 AX17 D40 A16 Z04-H	✓	40	4	16	40	14	AXMT 1705..
SM28340	TK90 AX17 D50 A22 Z05-H	✓	50	5	22	40	14	
SM28333	TK90 AX17 D63 A22 Z06-H	✓	63	6	22	40	14	
SM24373	TK90 AX17 D80 A27 Z07-H	✓	80	7	27	50	14	
SM24380	TK90 AX17 D100 A32 Z08-H	✓	100	8	32	50	14	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D16 - D80	AXMT 1235..**	SSV M3x6-9507	STK-T08-9908	1,9
D32 - D100	AXMT 1705..**	SSV M4x9x5-9528	STK-T15-9910	3,9



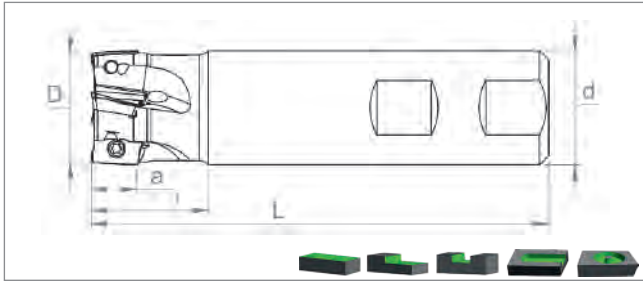
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
	ST90 ADMX 0702.. / 11T3.. / 1606..		D	d	Z	L	l	a	
SM44197	ST90 ADMX07 D10 C10 L120 Z02-H	✓	10	10	2	120	30	7	ADMX 0702..
SM44203	ST90 ADMX07 D12 C12 L120 Z03-H	✓	12	12	3	120	30	7	
SM63877	ST90 ADMX07 D13 C12 L120 Z03-H	✓	13	12	3	120	30	7	
SM43770	ST90 ADMX11 D20 W20 L150 Z02-H	✓	20	20	2	150	40	10.5	ADMX 11T3..
SM43787	ST90 ADMX11 D25 W25 L150 Z03-H	✓	25	25	3	150	40	10.5	
SM43794	ST90 ADMX11 D32 W32 L150 Z04-H	✓	32	32	4	150	40	10.5	
SM43800	ST90 ADMX16 D25 W25 L150 Z02-H	✓	25	25	2	150	40	16	ADMX 1606..
SM43817	ST90 ADMX16 D32 W32 L150 Z03-H	✓	32	32	3	150	40	16	



Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
	TK90 ADMX 11T3.. / 1606..		D	Z	d	L	a		
SM43527	TK90 ADMX11 D40 A16 Z05-H	✓	40	5	16	40	10.5	ADMX 11T3..	
SM43534	TK90 ADMX11 D50 A22 Z06-H	✓	50	6	22	40	10.5		
SM43541	TK90 ADMX11 D63 A22 Z07-H	✓	63	7	22	40	10.5		
SM42902	TK90 ADMX16 D50 A22 Z05-H	✓	50	5	22	40	16	ADMX 1606..	
SM42919	TK90 ADMX16 D63 A22 Z06-H	✓	63	6	22	40	16		
SM42926	TK90 ADMX16 D80 A27 Z07-H	✓	80	7	27	50	16		

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

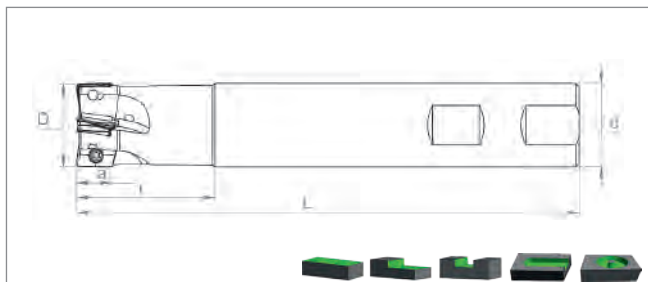
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D10 - D12	ADMX 0702..	SSV M2x5- 9502	STK-T06- 9906	0,4
D20	ADMX 11T3..	SSV M2.5x6- 9505	STK-T08- 9908	1,0
D25 - D63		SSV M2.5x7- 9506		
D25 - D80	ADMX 1606..	SSV M4x10- 9514	STK-T15- 9910	3,9



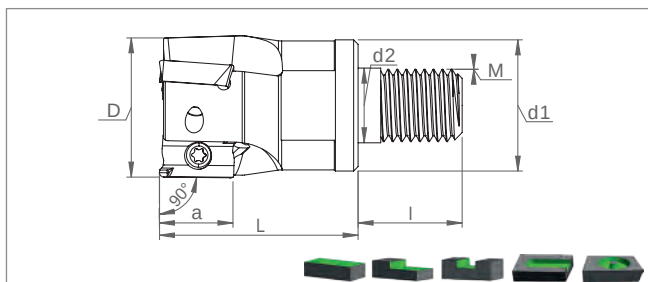
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 APMT 1135..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM01422	ST90 AP1135A D16 W16 L150 Z02-H	✓	16	16	2	150	40	11	APMT 1135..
SM01477	ST90 AP1135A D17 W16 L150 Z02-H	✓	17	16	2	150	30	11	
SM01446	ST90 AP1135A D20 W20 L150 Z03-H	✓	20	20	3	150	40	11	
SM60777	ST90 AP1135A D21 W20 L150 Z03-H	✓	21	20	3	150	30	11	
SM60784	ST90 AP1135A D26 C25 L200 Z03	✓	26	25	3	200	30	11	
SM65093	ST90 AP1135A D33 C32 L200 Z04	✓	33	32	4	200	30	11	



Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D16 - D80	APMT 1135..*	SSV M2.5x6-9505	STK-T08-9908	1,0

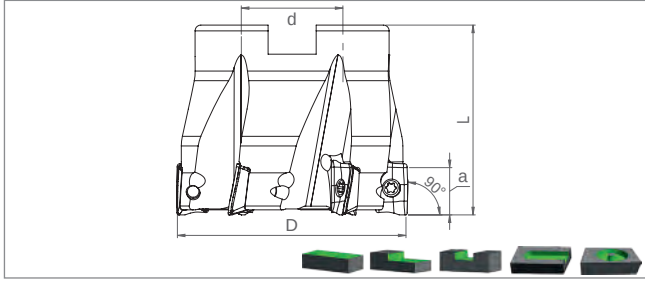


Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
ST90 ADKT 1505..			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM12110	ST90 AD1505 D25 W25 L120 Z02	-	25	25	2	120	30	14.3	ADKT 1505..
SM12134	ST90 AD1505 D25 W25 L150 Z02	-	25	25	2	150	40	14.3	
SM26704	ST90 AD1505 D30 W25 L150 Z03	-	30	25	3	150	30	14.3	
SM12127	ST90 AD1505 D32 W32 L120 Z03	-	32	32	3	120	30	14.3	
SM12141	ST90 AD1505 D32 W32 L150 Z03	-	32	32	3	150	40	14.3	



Ordering Code	Item Designation	Dimensions (mm)									Master Insert*
MT90 ADKT 1505..			<i>D</i>	<i>Z</i>	<i>d1</i>	<i>d2</i>	<i>L</i>	<i>l</i>	<i>M</i>	<i>a</i>	
SM56442	MT90 AD1505 D25 M12 L35 Z02-H	✓	25	2	21	12.5	35	23	12	14.3	ADKT 1505..
SM56459	MT90 AD1505 D32 M16 L43 Z03-H	✓	32	3	29	17	43	23	16	14.3	

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D25 - D32	ADKT 1505..	 SSV M4x10-9514	 STK-T15-9910	N-m 3,9

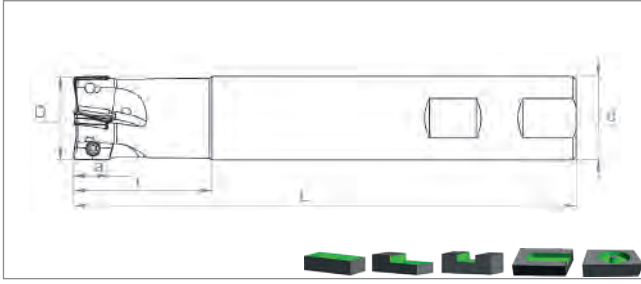


Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
	TK90 ADKT 1505..		D	Z	d	L	a	
SM29200	TK90 AD1505 D40 A16 Z04-H	✓	40	4	16	40	14.3	ADKT 1505..
SM29194	TK90 AD1505 D50 A22 Z05-H	✓	50	5	22	40	14.3	
SM29187	TK90 AD1505 D63 A22 Z06-H	✓	63	6	22	40	14.3	
SM29170	TK90 AD1505 D80 A27 Z07-H	✓	80	7	27	50	14.3	
SM29163	TK90 AD1505 D100 A32 Z08-H	✓	100	8	32	50	14.3	
SM13933	TK90 AD1505 D125 B40 Z09	-	125	9	40	63	14.3	

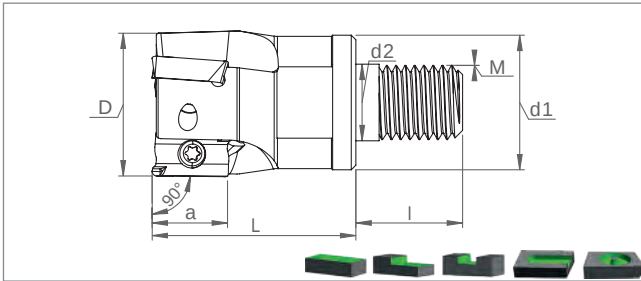
Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.



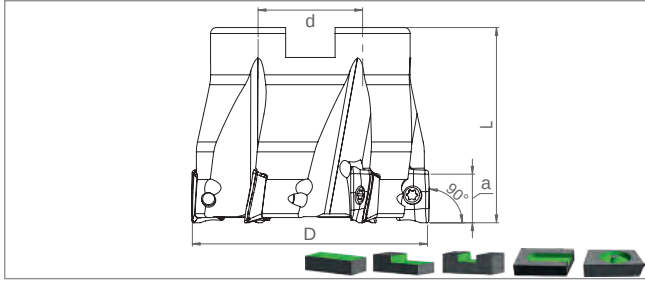
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
				N·m
D40 - D125	ADKT 1505..	SSV M4x10-9514	STK-T15-9910	3,9



Ordering Code	Item Designation		Dimensions (mm)						Master Insert*
	ST90 AD.T 0803../10T3../1204..		<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM35300	ST90 AD08 D16 W16 L150 Z02-H	✓	16	16	2	150	40	8	ADMT 0803..
SM35331	ST90 AD08 D16 C16 L200 Z02	-	16	16	2	200	50	8	
SM35317	ST90 AD08 D20 W20 L150 Z03-H	✓	20	20	3	150	40	8	
SM35348	ST90 AD08 D20 C20 L200 Z03	-	20	20	3	200	50	8	
SM35324	ST90 AD08 D25 W25 L150 Z04-H	✓	25	25	4	150	40	8	ADMT 10T3..
SM35355	ST90 AD10 D16 W16 L150 Z02-H	✓	16	16	2	150	40	10	
SM35362	ST90 AD10 D20 W20 L150 Z03-H	✓	20	20	3	150	40	10	
SM35379	ST90 AD10 D25 W25 L150 Z04-H	✓	25	25	4	150	40	10	
SM35386	ST90 AD12 D20 W20 L150 Z02	-	20	20	2	150	40	11.7	ADKT 1204..
SM35393	ST90 AD12 D25 W25 L150 Z03	-	25	25	3	150	40	11.7	
SM35409	ST90 AD12 D30 W25 L150 Z04	-	30	25	4	150	30	11.7	
SM35416	ST90 AD12 D32 W32 L150 Z04	-	32	32	4	150	40	11.7	



Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	MT90 AD.T 0803../10T3../1204..		<i>D</i>	<i>Z</i>	<i>d1</i>	<i>d2</i>	<i>L</i>	<i>l</i>	<i>M</i>	<i>a</i>	
SM56350	MT90 AD08 D16 M08 L25 Z02-H	✓	16	2	15	8.5	25	17	8	8	ADMT 0803..
SM56367	MT90 AD08 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	8	
SM56374	MT90 AD08 D25 M12 L35 Z04-H	✓	25	4	21	12.5	35	23	12	8	
SM56381	MT90 AD10T3 D16 M08 L25 Z02-H	✓	16	2	15	8.5	25	17	8	10	ADMT 10T3..
SM56398	MT90 AD10T3 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	10	
SM56404	MT90 AD10T3 D25 M12 L35 Z04-H	✓	25	4	21	12.5	35	23	12	10	
SM56411	MT90 AD12 D20 M10 L30 Z02-H	✓	20	2	18	10.5	30	19	10	11.7	ADKT 1204..
SM56428	MT90 AD12 D25 M12 L35 Z03-H	✓	25	3	21	12.5	35	23	12	11.7	
SM56435	MT90 AD12 D32 M16 L43 Z04-H	✓	32	4	29	17	43	23	16	11.7	

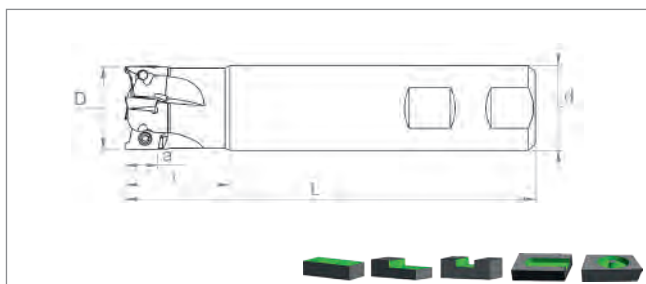


Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 AD.T 10T3../1204../1606..		D	Z	d	L	a	
SM31340	TK90 AD10T3 D40 A16 Z05-H	✓	40	5	16	40	10	ADMT 10T3..
SM31234	TK90 AD10T3 D50 A22 Z06-H	✓	50	6	22	40	10	
SM31258	TK90 AD10T3 D63 A22 Z07-H	✓	63	7	22	40	10	
SM54271	TK90 AD12 D40 A16 Z05-H		40	5	16	40	11.7	ADKT 1204..
SM54288	TK90 AD12 D50 A22 Z06-H		50	6	22	40	11.7	
SM54295	TK90 AD12 D63 A22 Z07-H		63	7	22	40	11.7	
SM54301	TK90 AD12 D80 A27 Z08-H		80	8	27	50	11.7	
SM31296	TK90 AD1606 D50 A22 Z05-H	✓	50	5	22	40	15	ADMT 1606..
SM31319	TK90 AD1606 D63 A22 Z06-H	✓	63	6	22	40	15	
SM31333	TK90 AD1606 D80 A27 Z07-H	✓	80	7	27	50	15	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" içten su vermeli montaj vidaları için.

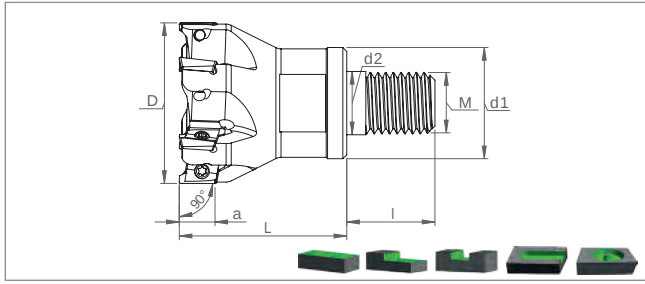


Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D16 - D20	ADMT 0803..**	SSV M2.5x5- 9504	STK-T08- 9908	1,0
D25		SSV M2.5x6 - 9505		
D16 - D25	ADMT 10T3..**	SSV M2.5x6- 9505		
D40 - D63		SSV M2.5x7- 9506		
D20 - D25	ADKT 1204..**	SSV M3x6- 9507	STK-T15- 9910	1,9
D30 - D63		SSV M3x8- 9508		
D50 - D80	ADMT 1606..**	SSV M3.5x10- 9511	STK-T15- 9910	2,7

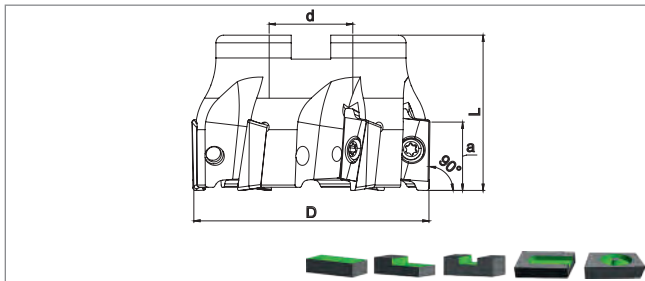


Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
	<i>ST90 RT</i> <i>0702../1003../1606..</i>		<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM13452	ST90 RT07 D10 C10 L120 Z02	-	10	10	2	120	30	7	RT 0702..
SM13445	ST90 RT07 D12 C12 L120 Z02	-	12	12	2	120	30	7	
SM13469	ST90 RT07 D12 W12 L120 Z02	-	12	12	2	120	30	7	
SM13476	ST90 RT07 D14 W12 L120 Z02	-	14	12	2	120	30	7	
SM13490	ST90 RT10 D16 W16 L120 Z02	-	16	16	2	120	30	10	RT 1003..
SM13537	ST90 RT10 D16 W16 L150 Z02	-	16	16	2	150	40	10	
SM13599	ST90 RT10 D16 C16 L200 Z02	-	16	16	2	200	50	10	
SM13544	ST90 RT10 D17 W16 L150 Z02	-	17	16	2	150	30	10	
SM13506	ST90 RT10 D18 W16 L120 Z02	-	18	16	2	120	30	10	
SM13513	ST90 RT10 D20 W20 L120 Z03	-	20	20	3	120	30	10	
SM13551	ST90 RT10 D20 W20 L150 Z03	-	20	20	3	150	40	10	
SM13483	ST90 RT10 D20 C20 L200 Z03	-	20	20	3	200	50	10	
SM13568	ST90 RT10 D22 W20 L120 Z03	-	22	20	3	120	30	10	
SM13575	ST90 RT10 D22 W20 L150 Z03	-	22	20	3	150	30	10	
SM13612	ST90 RT10 D22 C20 L200 Z03	-	22	20	3	200	30	10	
SM13520	ST90 RT10 D25 W25 L120 Z04	-	25	25	4	120	30	10	
SM26896	ST90 RT10 D25 W25 L150 Z04	-	25	25	4	150	40	10	
SM13636	ST90 RT10 D25 C25 L200 Z04	-	25	25	4	200	50	10	
SM13582	ST90 RT10 D32 W32 L120 Z05	-	32	32	5	120	30	10	
SM13629	ST90 RT10 D32 W32 L150 Z05	-	32	32	5	150	40	10	
SM13643	ST90 RT10 D32 C32 L200 Z05	-	32	32	5	200	50	10	
SM13650	ST90 RT16 D25 W25 L120 Z02	-	25	25	2	120	30	16	RT 1606..
SM13674	ST90 RT16 D25 W25 L150 Z02	-	25	25	2	150	40	16	
SM13698	ST90 RT16 D25 C25 L200 Z02	-	25	25	2	200	50	16	
SM13667	ST90 RT16 D32 W32 L120 Z03	-	32	32	3	120	30	16	
SM13681	ST90 RT16 D32 W32 L150 Z03	-	32	32	3	150	40	16	
SM13735	ST90 RT16 D32 C32 L200 Z03	-	32	32	3	200	40	16	
SM13711	ST90 RT16 D32 C32 L250 Z03	-	32	32	3	250	180	16	
SM13704	ST90 RT16 D40 W32 L120 Z04	-	40	32	4	120	30	16	
SM13728	ST90 RT16 D40 W32 L150 Z04	-	40	32	4	150	40	16	
SM13742	ST90 RT16 D40 C32 L200 Z04	-	40	32	4	200	30	16	

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D10 - D14	RT 0703..	SSV M2x5- 9502	STK-T06- 9906	0,4
D16 - D18	RT 1003..	SSV M2.5x5- 9504	STK-T08- 9908	1,0
D20 - D32		SSV M2.5x6- 9505		
D25 - D40	RT 1606..	SSV M4x10- 9514	STK-T15- 9910	3,9



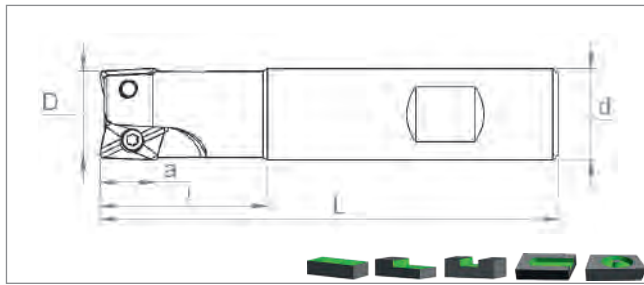
Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	MT90 RT 1003..		D	Z	d1	d2	L	I	M	a	
SM24069	MT90 RT10 D25 M12 L35 Z04-H	✓	25	4	21	12.5	35	23	12	10	RT 1003..
SM24076	MT90 RT10 D32 M16 L43 Z05-H	✓	32	5	29	17	43	23	16	10	
SM24083	MT90 RT10 D42 M16 L43 Z06-H	✓	42	6	29	17	43	23	16	10	



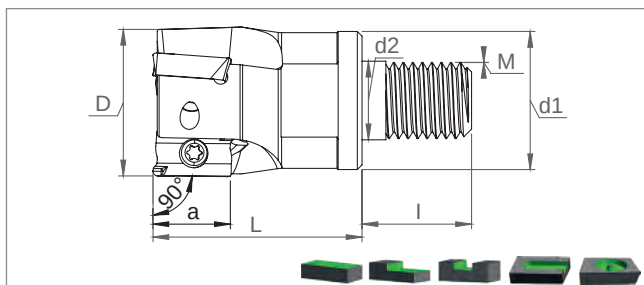
Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 RT 1003../1606..		D	Z	d	L	a	
SM28258	TK90 RT10 D40 A16 Z06-H	✓	40	6	16	40	10	RT 1003..
SM28241	TK90 RT10 D50 A22 Z07-H	✓	50	7	22	40	10	
SM28234	TK90 RT10 D63 A22 Z09-H	✓	63	9	22	40	10	
SM28227	TK90 RT16 D50 A22 Z05-H	✓	50	5	22	40	16	RT 1606..
SM28210	TK90 RT16 D63 A22 Z06-H	✓	63	6	22	40	16	
SM24311	TK90 RT16 D80 A27 Z07-H	✓	80	7	27	50	16	
SM24328	TK90 RT16 D100 A32 Z08-H	✓	100	8	32	50	16	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

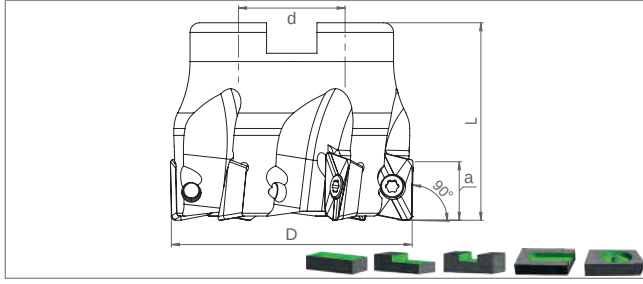
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D25 - D32	RT 1003..	SSV M2.5x6-9505	STK-T08-9908	1,0
D40 - D63		SSV M2.5x7-9506		
D50 - D100	RT 1606..	SSV M4x10-9514	STK-T15-9910	3,9



Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
ST90 XOMX 0602.. / 10T3.. / 1204..			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM35485	ST90 XO06 D10 C10 L120 Z02	-	10	10	2	120	30	5.5	XOMX 0602..
SM35492	ST90 XO06 D12 C12 L120 Z03	-	12	12	3	120	30	5.5	
SM49734	ST90 XO06 D16 W16 L120 Z03-H	✓	16	16	3	120	30	5.5	
SM43176	ST90 XO06 D20 W20 L120 Z04-H	✓	20	20	4	120	30	5.5	
SM37892	ST90 XO10 D16 W16 L120 Z02	-	16	16	2	120	30	9	XOMX 10T3..
SM35508	ST90 XO10 D16 W16 L120 Z02-H	✓	16	16	2	120	30	9	
SM35522	ST90 XO10 D16 W16 L150 Z02-H	✓	16	16	2	150	40	9	
SM37908	ST90 XO10 D20 W20 L120 Z03	-	20	20	3	120	30	9	
SM35515	ST90 XO10 D20 W20 L120 Z03-H	✓	20	20	3	120	30	9	
SM35539	ST90 XO10 D20 W20 L150 Z03-H	✓	20	20	3	150	40	9	
SM35546	ST90 XO10 D20 C20 L200 Z03	-	20	20	3	200	50	9	XOMX 1204..
SM35553	ST90 XO12 D20 W20 L120 Z02-H	✓	20	20	2	120	30	11	
SM35560	ST90 XO12 D20 W20 L150 Z02-H	✓	20	20	2	150	40	11	
SM35584	ST90 XO12 D20 C20 L200 Z02	-	20	20	2	200	50	11	
SM35577	ST90 XO12 D25 W25 L150 Z03-H	✓	25	25	3	150	40	11	
SM35591	ST90 XO12 D25 C25 L200 Z03	-	25	25	3	200	50	11	
SM26483	ST90 XO12 D32 W32 L150 Z04-H	✓	32	32	4	150	40	11	
SM35607	ST90 XO12 D32 C32 L200 Z04	-	32	32	4	200	50	11	



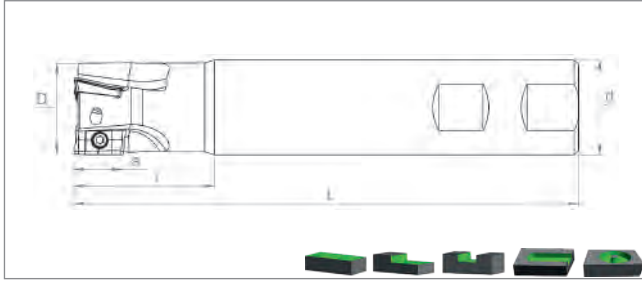
Ordering Code	Item Designation	Dimensions (mm)										Master Insert*
MT90 XOMX 10T3.. / 1204.. SCO			<i>D</i>	<i>Z</i>	<i>d1</i>	<i>d2</i>	<i>L</i>	<i>l</i>	<i>M</i>	<i>a</i>		
SM36581	MT90 XO10 D16 M08 L25 Z02-H		16	2	15	8.5	25	17	8	9	XOMX 10T3..	
SM36598	MT90 XO10 D20 M10 L30 Z03-H		20	3	18	10.5	30	19	10	9		
SM36604	MT90 XO12 D20 M10 L30 Z02-H		20	2	18	10.5	30	19	10	11	XOMX 1204..	
SM36611	MT90 XO12 D25 M12 L35 Z03-H		25	3	21	12.5	35	23	12	11		
SM36628	MT90 XO12 D32 M16 L43 Z04-H		32	4	29	17	43	23	16	11		



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 XOMX 10T3.. / 1204.. / 1806..		D	Z	d	L	a	
SM53847	TK90 XO10 D40 A16 Z05-H	✓	40	5	16	40	9	XOMX 10T3..
SM53854	TK90 XO10 D40 A16 Z06-H	✓	40	6	16	40	9	
SM53861	TK90 XO10 D50 A22 Z06-H	✓	50	6	22	40	9	
SM53878	TK90 XO10 D50 A22 Z07-H	✓	50	7	22	40	9	
SM53885	TK90 XO10 D63 A22 Z07-H	✓	63	7	22	40	9	
SM53892	TK90 XO10 D63 A22 Z08-H	✓	63	8	22	40	9	
SM53908	TK90 XO12 D40 A16 Z04-H	✓	40	4	16	40	11	XOMX 1204..
SM28944	TK90 XO12 D40 A16 Z05-H	✓	40	5	16	40	11	
SM53915	TK90 XO12 D50 A22 Z05-H	✓	50	5	22	40	11	
SM27237	TK90 XO12 D50 A22 Z06-H	✓	50	6	22	40	11	
SM53922	TK90 XO12 D63 A22 Z07-H	✓	63	7	22	40	11	
SM28937	TK90 XO12 D63 A22 Z08-H	✓	63	8	22	40	11	
SM53939	TK90 XO12 D80 A27 Z08-H	✓	80	8	27	50	11	
SM28920	TK90 XO12 D80 A27 Z09-H	✓	80	9	27	50	11	
SM38196	TK90 XO12 D100 A32 Z11-H	✓	100	11	32	50	11	XOMX 1806..
SM38202	TK90 XO12 D125 B40 Z12	-	125	12	40	63	11	
SM31012	TK90 XO18 D50 A22 Z04-H	✓	50	4	22	40	17	
SM31029	TK90 XO18 D63 A22 Z05-H	✓	63	5	22	40	17	
SM31036	TK90 XO18 D80 A27 Z07-H	✓	80	7	27	50	17	
SM31043	TK90 XO18 D100 A32 Z08-H	✓	100	8	32	50	17	
SM31050	TK90 XO18 D125 B40 Z10	-	125	10	40	63	17	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

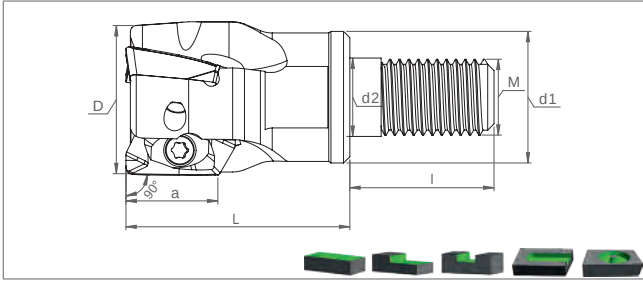
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D10 - D20	XOMX 0602..**	SSV M1.8X4-9501	STK-T06-9906	0,4
D16	XOMX 10T3..**	SSV M2.5x5-9504	STK-T08-9908	1,0
D20 - D63		SSV M2.5x7-9506		
D20 - D125	XOMX 1204..**	SSV M3.5x8 SC-9513	STK-T10-9909	2,7
D50 - D125	XOMX 1806..**	SSV M4.5x11-9518	STK-T20-9911	4,7



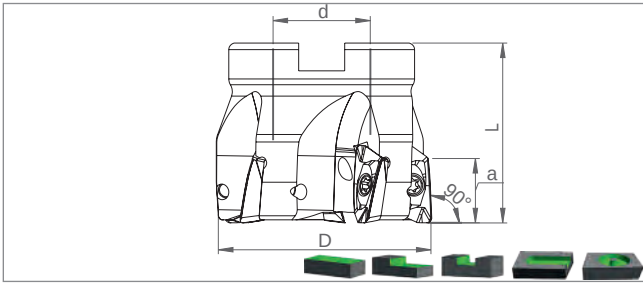
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
	<i>ST90 EDPT 10T3.. / 1404..</i>		<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM43220	ST90 ED10 D16 W16 L150 Z02-H	✓	16	16	2	150	40	9.8	EDPT 10T3..
SM43237	ST90 ED10 D20 W20 L150 Z03-H	✓	20	20	3	150	40	9.8	
SM43244	ST90 ED10 D25 W25 L150 Z04-H	✓	25	25	4	150	40	9.8	
SM49680	ST90 ED10 D32 W32 L150 Z05-H	✓	32	32	5	150	40	9.8	
SM43268	ST90 ED14 D20 W20 L150 Z02-H	✓	20	20	2	150	40	14	EDPT 1404..
SM43275	ST90 ED14 D25 W25 L150 Z03-H	✓	25	25	3	150	40	14	
SM43282	ST90 ED14 D32 W32 L150 Z04-H	✓	32	32	4	150	40	14	
SM43299	ST90 ED14 D40 W32 L150 Z05-H	✓	40	32	5	150	30	14	



Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D16 - D20	EDPT 10T3..**	SSV M2.5x6-9505	STK-T08-9908	1,0
D25 - D32		SSV M2.5x7-9506		
D20	EDPT 1404..**	SSV M3x6-9507		1,9
D25 - D40		SSV M3x8-9508		



Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	MT90 EDPT 10T3../1404..		D	Z	d1	d2	L	l	M	a	
SM43848	MT90 ED10 D16 M08 L25 Z02-H	✓	16	2	15	8.5	25	17	8	10	EDPT 10T3..
SM43855	MT90 ED10 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	10	
SM43862	MT90 ED10 D25 M12 L35 Z04-H	✓	25	4	21	12.5	35	23	12	10	
SM56558	MT90 ED10 D32 M16 L43 Z05-H	✓	32	5	29	17	43	23	16	10	
SM43879	MT90 ED14 D20 M10 L30 Z02-H	✓	20	2	18	10.5	30	19	10	14	EDPT 1404..
SM43886	MT90 ED14 D25 M12 L35 Z03-H	✓	25	3	21	12.5	35	23	12	14	
SM43893	MT90 ED14 D32 M16 L43 Z04-H	✓	32	4	29	17	43	23	16	14	



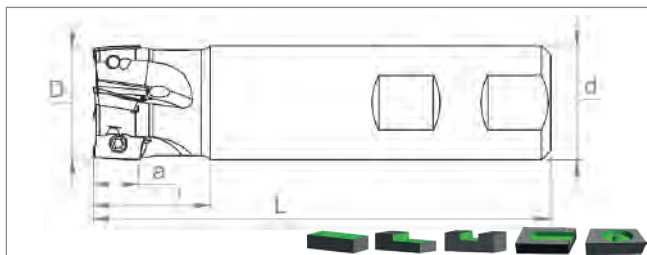
Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 EDPT 10T3../1404..		D	Z	d	L	a	
SM42995	TK90 ED10 D40 A16 Z05-H	✓	40	5	16	40	9.87	EDPT 10T3..
SM43008	TK90 ED10 D50 A22 Z06-H	✓	50	6	22	40	9.87	
SM43015	TK90 ED10 D63 A22 Z07-H	✓	63	7	22	40	9.87	
SM43022	TK90 ED14 D40 A16 Z04-H	✓	40	4	16	40	13.8	EDPT 1404..
SM43039	TK90 ED14 D50 A22 Z05-H	✓	50	5	22	40	13.8	
SM43046	TK90 ED14 D63 A22 Z06-H	✓	63	6	22	40	13.8	
SM43053	TK90 ED14 D80 A27 Z07-H	✓	80	7	27	50	13.8	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" içten su vermeli montaj vidaları için.

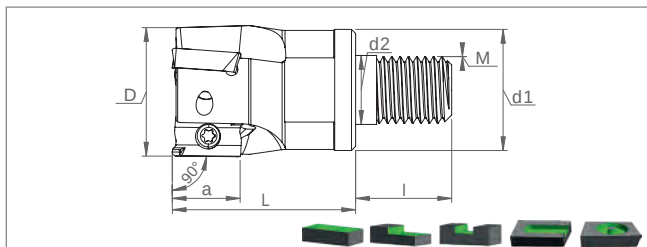
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D16 - D20	EDPT 10T3..**	SSV M2.5x6-9505	STK-T08-9908	1,0
D25 - D32		SSV M2.5x7-9506		
D20	EDPT 1404..**	SSV M3x6-9507		1,9
D25 - D80		SSV M3x8-9508		

**Body corners should be modified for R2 and more radius inserts / R2 ve üstü radyüslü uçlarda takımın modifiye edilmesi gerekmektedir. ■

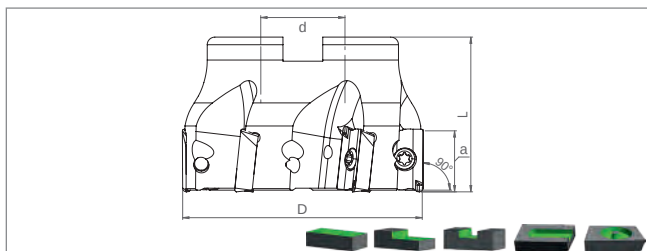
*Suitable Insert brand is KNMTL



Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 AOMT 1236..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM35614	ST90 AO12 D16 W16 L150 Z02-H	✓	16	16	2	150	40	10	AOMT 1236..
SM35621	ST90 AO12 D20 W20 L150 Z03-H	✓	20	20	3	150	40	10	
SM35638	ST90 AO12 D22 W20 L150 Z03-H	✓	22	20	3	150	30	10	
SM35645	ST90 AO12 D25 W25 L150 Z04-H	✓	25	25	4	150	40	10	
SM35652	ST90 AO12 D32 W32 L150 Z05-H	✓	32	32	5	150	40	10	



Ordering Code	Item Designation	Dimensions (mm)									Master Insert*
<i>MT90 AOMT 1236..</i>			<i>D</i>	<i>Z</i>	<i>d1</i>	<i>d2</i>	<i>L</i>	<i>l</i>	<i>M</i>	<i>a</i>	
SM54981	MT90 AO12 D16 M08 L25 Z02-H	✓	16	2	15	8.5	25	17	8	10	AOMT 1236..
SM54998	MT90 AO12 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	10	
SM55001	MT90 AO12 D25 M12 L35 Z04-H	✓	25	4	21	12.5	35	23	12	10	
SM55018	MT90 AO12 D32 M16 L43 Z05-H	✓	32	5	29	17	43	23	16	10	



Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
<i>TK90 AOMT 1236..</i>			<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM30961	TK90 AO12 D40 A16 Z05-H	✓	40	5	16	40	10	AOMT 1236..
SM30978	TK90 AO12 D50 A22 Z06-H	✓	50	6	22	40	10	
SM30985	TK90 AO12 D63 A22 Z07-H	✓	63	7	22	40	10	
SM30992	TK90 AO12 D80 A27 Z08-H	✓	80	8	27	50	10	
SM31005	TK90 AO12 D100 A32 Z10-H	✓	100	10	32	50	10	

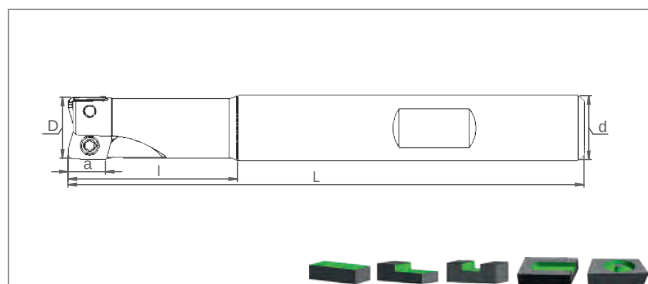
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D16 - D20	AOMT 1236..	SSV M2.5x5-9504	STK-T08-9908	1,0
D22 - D100		SSV M2.5x6-9505		



Ordering Code	Item Designation	Dimensions (mm)								Master Insert*
	<i>ST90 XDKT 0703.. / 11T3..</i>		<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>		
SM29781	ST90 XD07 D12 C10 L120 Z02	-	12	10	2	120	30	7	XDKT 0703..	
SM29774	ST90 XD07 D12 C12 L120 Z02	-	12	12	2	120	30	7		
SM37922	ST90 XD07 D16 W16 L150 Z03-H	✓	16	16	3	150	40	7		
SM29750	ST90 XD07 D16 C16 L200 Z03	-	16	16	3	200	50	7		
SM37915	ST90 XD07 D17 W16 L150 Z03-H	✓	17	16	3	150	30	7		
SM29743	ST90 XD11 D16 W16 L150 Z02-H	✓	16	16	2	150	40	11	XDKT 11T3..	
SM29736	ST90 XD11 D16 C16 L200 Z02	-	16	16	2	200	50	11		
SM29712	ST90 XD11 D17 W16 L150 Z02-H	✓	17	16	2	150	30	11		
SM29729	ST90 XD11 D17 C16 L200 Z02	-	17	16	2	200	30	11		
SM29590	ST90 XD11 D20 W20 L150 Z03-H	✓	20	20	3	150	40	11		
SM29613	ST90 XD11 D20 C20 L200 Z03	-	20	20	3	200	50	11		
SM29583	ST90 XD11 D21 W20 L150 Z03-H	✓	21	20	3	150	30	11		
SM29606	ST90 XD11 D21 C20 L200 Z03	-	21	20	3	200	30	11		
SM29620	ST90 XD11 D25 W25 L150 Z03-H	✓	25	25	3	150	40	11		
SM29576	ST90 XD11 D25 C25 L200 Z03	-	25	25	3	200	50	11		
SM29705	ST90 XD11 D26 W25 L150 Z04-H	✓	26	25	4	150	30	11		
SM29699	ST90 XD11 D26 C25 L200 Z04	-	26	25	4	200	30	11		

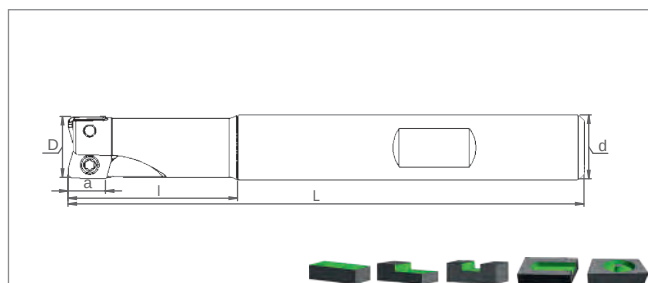


Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D12 - D16	XDKT 0703..	 SSV M2.2x5- 9503	STK-T06- 9906	0,65
D16 - D17		SSV M2.5x5- 9504	STK-T08- 9908	1,0
D20 - D26		SSV M2.5x6- 9505		



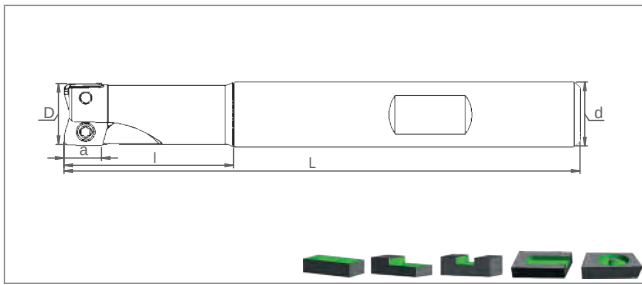
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 AXMT 0602..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM43138	ST90 AX06 D10 W10 L120 Z02-H	✓	10	10	2	120	30	5.75	AXMT 0602..
SM43145	ST90 AX06 D12 W12 L120 Z02-H	✓	12	12	2	120	30	5.75	
SM43152	ST90 AX06 D16 W16 L120 Z04-H	✓	16	16	4	120	30	5.75	

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D10 - D16	AXMT 0602..*	SSV M1.8x4- 9501	STK-T06- 9906	0,4



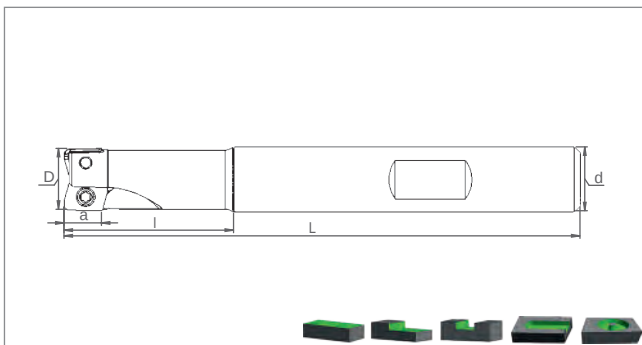
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 APKT 0602..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM43374	ST90 APKT06 D10 W10 L120 Z02-H	✓	10	10	2	120	30	5.5	APKT 0602..
SM43381	ST90 APKT06 D11 W10 L120 Z02-H	✓	11	10	2	120	30	5.5	
SM43398	ST90 APKT06 D12 W12 L120 Z03-H	✓	12	12	3	120	30	5.5	
SM43404	ST90 APKT06 D13 W12 L120 Z03-H	✓	13	12	3	120	30	5.5	

Size Designation	Master Insert**	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D10 - D13	APKT 0602..	SSV M1.8x4- 9501	STK-T06- 9906	0,4



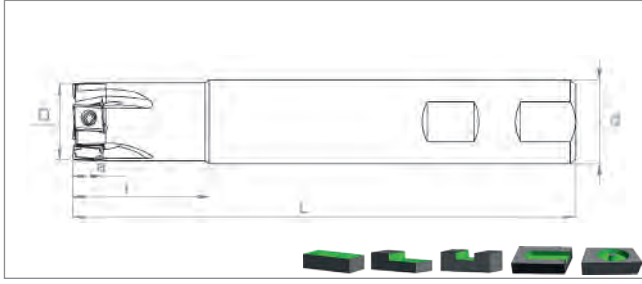
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 AOMT 0702..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM46306	ST90 AO07 D12 W12 L120 Z02-H	✓	12	12	2	120	30	7	AOMT 0702..
SM46313	ST90 AO07 D16 W16 L120 Z03-H	✓	16	16	3	120	30	7	
SM46320	ST90 AO07 D20 W20 L150 Z04-H	✓	20	20	4	150	40	7	
SM46337	ST90 AO07 D22 W20 L150 Z04-H	✓	22	20	4	150	30	7	

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D12 - D22	AOMT 0702..	SSV M2.2x5- 9503	STK-T06- 9906	0,65



Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 AVMT 0402..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM71803	ST90 AV04 D08 C08 L100 Z02-H	✓	8	8	2	100	20	4	AVMT 0402..
SM71810	ST90 AV04 D10 C10 L100 Z02-H	✓	10	10	2	100	20	4	
SM71827	ST90 AV04 D12 C12 L100 Z03-H	✓	12	12	3	100	20	4	

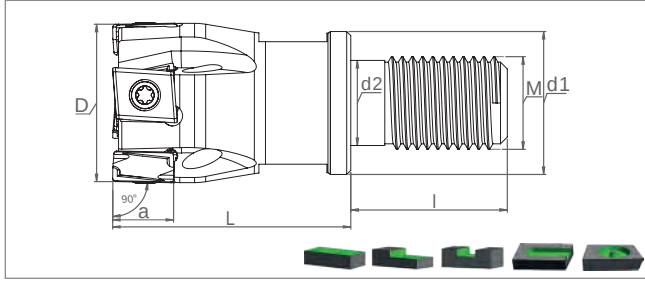
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D08 - D12	AVMT 0402..	SSV M1.8x4- 9501	STK-T06- 9906	0,4



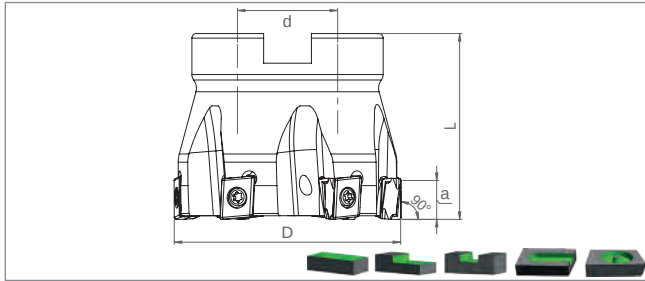
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 LNHU 0904..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM35836	ST90 LN09 D20 W20 L150 Z03-H	✓	20	20	3	150	40	9	LNHU 0904..
SM35843	ST90 LN09 D25 W25 L150 Z04-H	✓	25	25	4	150	40	9	
SM35850	ST90 LN09 D32 W32 L150 Z05-H	✓	32	32	5	150	40	9	



Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D20	LNHU 0904..**	SSV M3x6- 9507	STK-T08- 9908	1,9
D25 - D32		SSV M3x8- 9508		



Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	MT90 LNHU 0904..		D	Z	d1	d2	L	l	M	a	
SM54677	MT90 LN09 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	9	LNHU 0904..
SM54684	MT90 LN09 D25 M12 L35 Z04-H	✓	25	4	21	12.5	35	23	12	9	
SM54691	MT90 LN09 D32 M16 L43 Z05-H	✓	32	5	29	17	43	23	16	9	



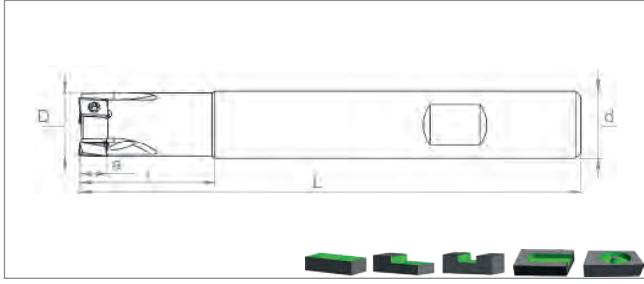
Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 LNHU / LNHU 0904.. / 1306..		D	Z	d	L	a	
SM32026	TK90 LN09 D40 A16 Z05-H	✓	40	5	16	40	8	LNHU 0904..
SM32040	TK90 LN09 D50 A22 Z06-H	✓	50	6	22	40	8	
SM32064	TK90 LN09 D63 A22 Z07-H	✓	63	7	22	40	8	
SM32088	TK90 LN09 D80 A27 Z09-H	✓	80	9	27	50	8	
SM53236	TK90 LN13 D40 A16 Z04-H	✓	40	4	16	40	12	LNHU 1306..
SM01392	TK90 LN13 D50 A22 Z05-H	✓	50	5	22	40	12	
SM53243	TK90 LN13 D63 A22 Z06-H	✓	63	6	22	40	12	
SM53250	TK90 LN13 D80 A27 Z07-H	✓	80	7	27	50	12	
SM53267	TK90 LN13 D100 A32 Z09-H	✓	100	9	32	50	12	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D20	LNHU 0904..**	SSV M3x6-9507	STK-T08-9908	1,9
D25 - D80		SSV M3x8-9508		
D40 - D100	LNHU 1306..**	SSV M4x12x5-9529	STK-T15-9910	3,9

**Body corners should be modified for R2 and more radius inserts / R2 ve üstü radyüslü uçlarda takımın modifiye edilmesi gerekmektedir. ■

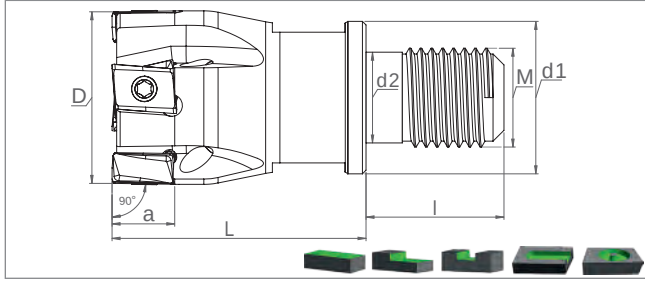
*Suitable Insert brand is WLTR



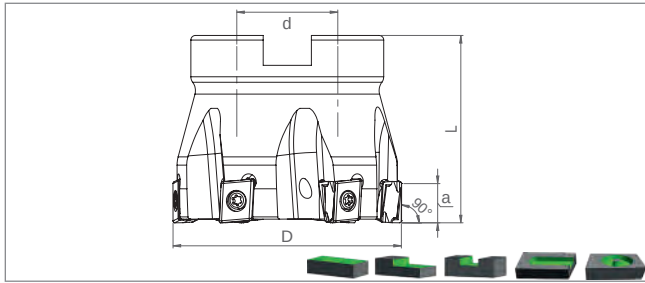
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
	<i>ST90 LN.. 0804../1306..</i>		<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM35935	ST90 LN08 D16 W16 L150 Z02-H	✓	16	16	2	150	40	8	LN.. 0804..
SM35942	ST90 LN08 D20 W20 L150 Z03-H	✓	20	20	3	150	40	8	
SM35959	ST90 LN08 D25 W25 L150 Z04-H	✓	25	25	4	150	40	8	
SM35966	ST90 LN08 D30 W25 L150 Z04-H	✓	30	25	4	150	30	8	
SM35973	ST90 LN08 D32 W32 L150 Z05-H	✓	32	32	5	150	40	8	
SM59122	ST90 LN13 D32 W32 L150 Z03-H	✓	32	32	3	150	40	12.5	LN.. 1306..
SM59139	ST90 LN13 D40 W32 L150 Z04-H	✓	40	32	4	150	40	12.5	



Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D16	LN.. 0804..**	SSV M2.5x6-9505	STK-T08-9908	1,0
D20 - D32		SSV M2.5x7-9506		
D32 - D40	LN.. 1306..**	SSV M4x10-9514	STK-T15-9910	3,9



Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	MT90 LN.. 0804..		D	Z	d1	d2	L	l	M	a	
SM54950	MT90 LN08 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	8	LN.. 0804..
SM54967	MT90 LN08 D25 M12 L35 Z04-H	✓	25	4	21	12.5	35	23	12	8	
SM54974	MT90 LN08 D32 M16 L43 Z05-H	✓	32	5	29	17	43	23	16	8	



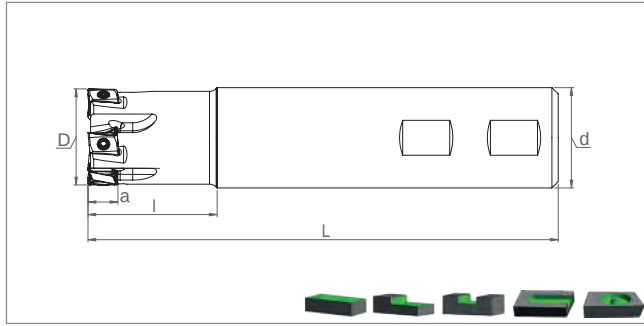
Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 LN.. 0804.. / 1306..		D	Z	d	L	a	
SM31845	TK90 LN08 D40 A16 Z05-H	✓	40	5	16	40	8	LN.. 0804..
SM31869	TK90 LN08 D50 A22 Z06-H	✓	50	6	22	40	8	
SM31883	TK90 LN08 D63 A22 Z08-H	✓	63	8	22	40	8	
SM31906	TK90 LN08 D80 A27 Z09-H	✓	80	9	27	50	8	
SM58446	TK90 LN13 D40 A16 Z04-H	✓	40	4	16	40	12.5	LN.. 1306..
SM31937	TK90 LN13 D50 A22 Z05-H	✓	50	5	22	40	12.5	
SM31951	TK90 LN13 D63 A22 Z06-H	✓	63	6	22	40	12.5	
SM31975	TK90 LN13 D80 A27 Z08-H	✓	80	8	27	50	12.5	
SM31999	TK90 LN13 D100 A32 Z09-H	✓	100	9	32	50	12.5	
SM32002	TK90 LN13 D125 B40 Z12	-	125	12	40	63	12.5	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D20 - D80	LN..0804..*	SSV M2.5x7-9506	STK-T08-9908	1,0
D40 - D125	LN..1306..*	SSV M4x10-9514	STK-T15-9910	3,9

**Body corners should be modified for R2 and more radius inserts / R2 ve üstü radyüslü uçlarda takımın modifiye edilmesi gerekmektedir. ■

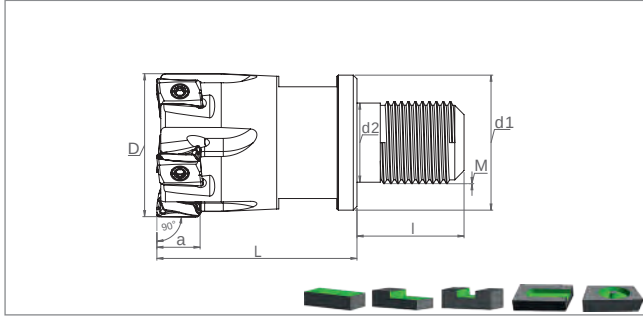
*Suitable Insert brand is ISC



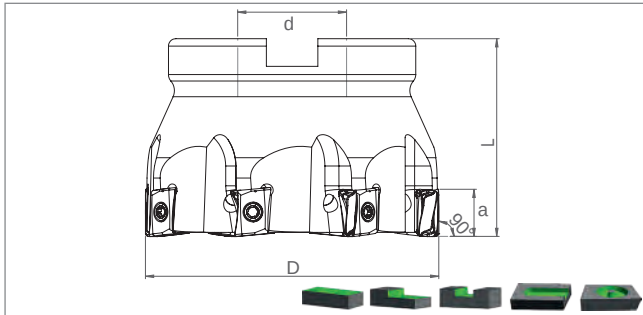
Ordering Code	Item Designation	Dimensions (mm)								Master Insert*
	<i>ST90 LOEX 0804..</i>		<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>		
SM58668	ST90 LO08 D20 W20 L150 Z03-H	✓	20	20	3	150	40	8	LOEX 0804..	
SM58675	ST90 LO08 D25 W25 L150 Z04-H	✓	25	25	4	150	40	8		
SM58682	ST90 LO08 D32 W32 L150 Z05-H	✓	32	32	5	150	40	8		



Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D20 - D32	LOEX 0804..**	SSV M2.5x7-9506	STK-T08-9908	1,0



Ordering Code	Item Designation	Dimensions (mm)										Master Insert*
MT90 LOEX 0804..			D	Z	d1	d2	L	l	M	a		
SM58699	MT90 LO08 D20 M10 L30 Z03-H		20	3	18	10.5	30	19	10	8	LOEX 0804..	
SM58705	MT90 LO08 D25 M12 L35 Z04-H		25	4	21	12.5	35	23	12	8		
SM58712	MT90 LO08 D32 M16 L43 Z05-H		32	5	29	17	43	23	16	8		



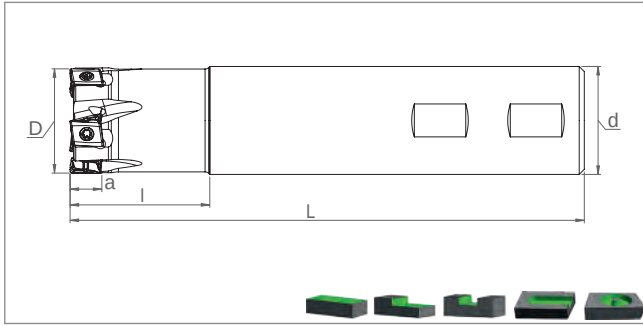
Ordering Code	Item Designation		Dimensions (mm)						Master Insert*
	TK90 LOEX 0804.. / 1207..			D	Z	d	L	a	
SM56893	TK90 LO08 D40 A16 Z06-H	✓		40	6	16	40	8	LOEX 0804..
SM56909	TK90 LO08 D50 A22 Z07-H	✓		50	7	22	40	8	
SM56916	TK90 LO08 D63 A22 Z08-H	✓		63	8	22	40	8	
SM58729	TK90 LO12 D40 A16 Z04-H	✓		40	4	16	40	12	LOEX 1207..
SM60333	TK90 LO12 D50 A22 Z04-H	✓		50	4	22	40	12	
SM58736	TK90 LO12 D50 A22 Z05-H	✓		50	5	22	40	12	
SM58743	TK90 LO12 D63 A22 Z06-H	✓		63	6	22	40	12	
SM58750	TK90 LO12 D80 A27 Z07-H	✓		80	7	27	50	12	
SM60340	TK90 LO12 D80 A27 Z08-H	✓		80	8	27	50	12	
SM58767	TK90 LO12 D100 A32 Z09-H	✓		100	9	32	50	12	
SM62528	TK90 LO12 D125 B40 Z12	-		125	12	40	63	12	
SM62535	TK90 LO12 D160 C40 Z15	-		160	15	40	63	12	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

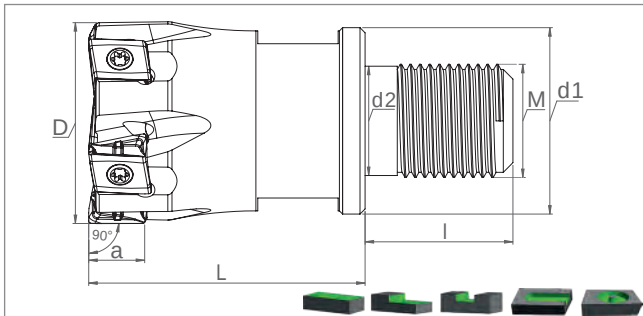
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D20 - D63	LOEX 0804..**	SSV M2.5x7-9506	STK-T08-9908	1,0
D40 - D160	LOEX 1207..**	SSV M3.5x12-9526	STK-T15-9910	3,9

**Body corners should be modified for R2 and more radius inserts / R2 ve üstü radyüslü uçlarda takımın modifiye edilmesi gerekmektedir. ■

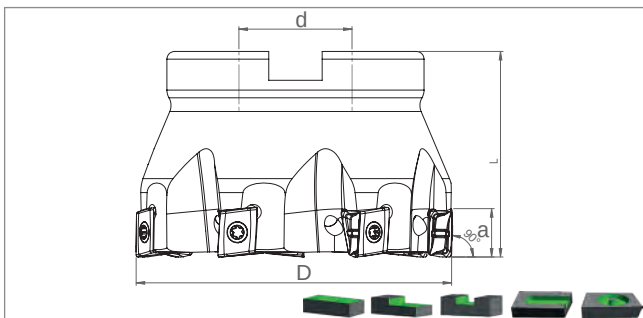
*Suitable Insert brand is SCO



Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
ST90 LPHU / LPKU 0904..			D	d	Z	L	l	a	
SM58491	ST90 LP09 D20 W20 L150 Z03-H	✓	20	20	3	150	40	8.3	LP.U 0904..
SM58507	ST90 LP09 D25 W25 L150 Z04-H	✓	25	25	4	150	40	8.3	
SM58514	ST90 LP09 D32 W32 L150 Z05-H	✓	32	32	5	150	40	8.3	



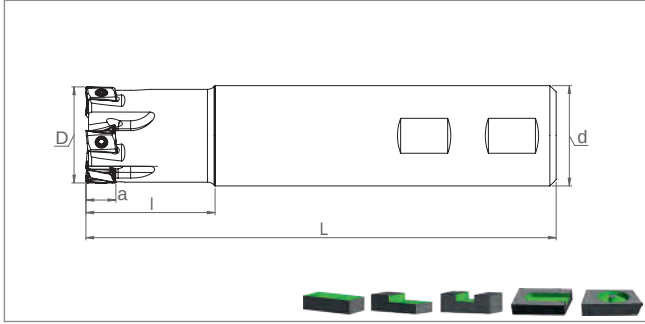
Ordering Code	Item Designation	Dimensions (mm)										Master Insert*
MT90 LPHU / LPKU 0904..			D	Z	d1	d2	L	I	M	a		
SM58521	MT90 LP09 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	8.3	L.P.U 0904..	
SM58538	MT90 LP09 D25 M12 L35 Z04-H	✓	25	4	21	12.5	35	23	12	8.3		
SM58545	MT90 LP09 D32 M16 L43 Z05-H	✓	32	5	29	17	43	23	16	8.3		



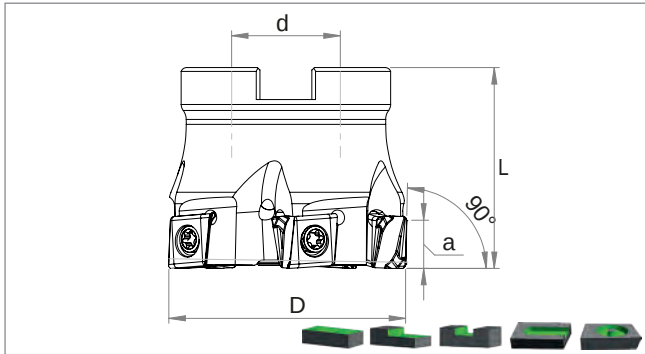
Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
TK90 LPHU / LPKU 0904..			D	Z	d	L	a	
SM55278	TK90 LP09 D40 A16 Z05-H	✓	40	5	16	40	8.3	L.P.U 0904..
SM55285	TK90 LP09 D50 A22 Z06-H	✓	50	6	22	40	8.3	
SM55292	TK90 LP09 D63 A22 Z07-H	✓	63	7	22	40	8.3	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D20 - D32				
D40 - D63		SSV M3x7-9527 SSV M3x8-9508		
	L.P.U 0904..**		STK-T08-9908	1,9



Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
	ST90 LMMU 1107..		D	d	Z	L	l	a	
SM71865	ST90 LM11 D32 W32 L150 Z03-H	✓	32	32	3	150	40	9.70	LMMU 1107..
SM71872	ST90 LM11 D40 W32 L150 Z04-H	✓	40	40	4	150	40	9.70	



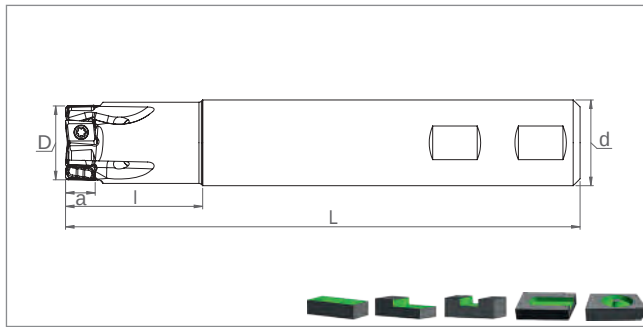
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
	TK90 LMMU 1107..		D	Z	d	L	a		
SM71889	TK90 LM11 D50 A22 Z05-H	✓	50	5	22	40	9.70	LMMU 1107..	
SM71896	TK90 LM11 D63 A22 Z06-H	✓	63	6	22	40	9.70		
SM71902	TK90 LM11 D80 A27 Z07-H	✓	80	7	27	50	9.70		

**Body corners should be modified for R2 and more radius inserts / R2 ve üstü radyüslü uçlarda takımın modifiye edilmesi gerekmektedir. ■

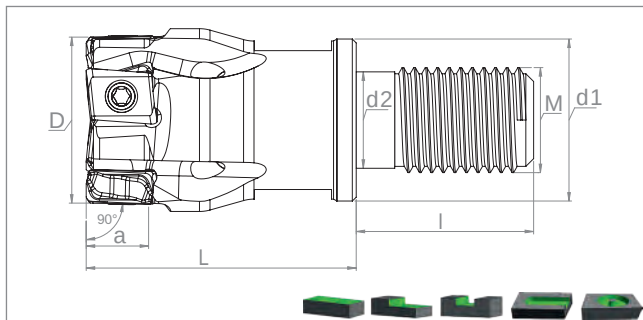
Cooling mounting screw is optional / See Page "526" for cooling mounting screws.

İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D32 - D80	LMMU 1107..	SSV M3.5x12-9526	STK-T15-9910	3,9

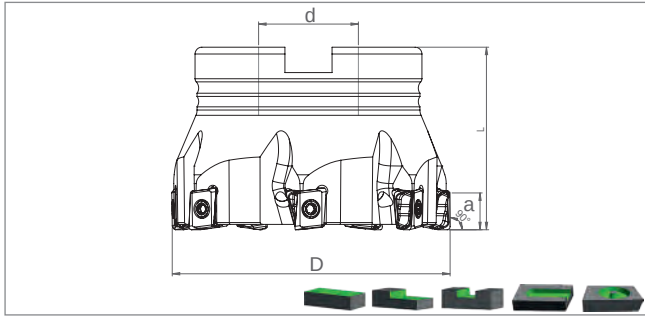


Ordering Code	Item Designation		Dimensions (mm)						Master Insert*
<i>ST90 LOGU 0904</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM55094	ST90 LO09 D20 W20 L150 Z03-H	✓	20	20	3	150	40	8	LOGU 0904..
SM55100	ST90 LO09 D25 W25 L150 Z04-H	✓	25	25	4	150	40	8	
SM55117	ST90 LO09 D32 W32 L150 Z05-H	✓	32	32	5	150	40	8	



Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
<i>MT90 LOGU 0904</i>			<i>D</i>	<i>Z</i>	<i>d1</i>	<i>d2</i>	<i>L</i>	<i>l</i>	<i>M</i>	<i>a</i>	
SM52772	MT90 LO09 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	8	LOGU 0904..
SM52789	MT90 LO09 D25 M12 L35 Z04-H	✓	25	4	21	12.5	35	23	12	8	
SM52796	MT90 LO09 D32 M16 L43 Z05-H	✓	32	5	29	17	43	23	16	8	

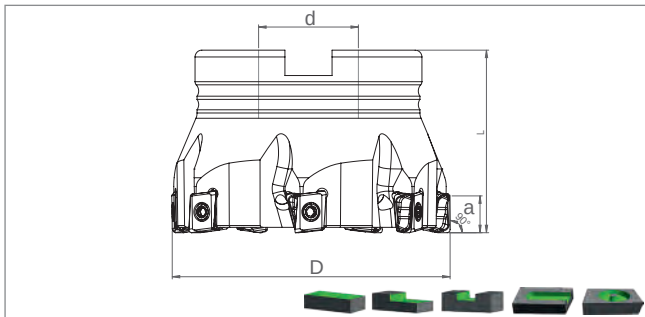
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D20 - D32	LOGU 0904..**	 SSV M2.5x7-9506	 STK-T08-9908	N·m 1,0



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 LOGU 0904		D	Z	d	L	a	
SM52734	TK90 LO09 D40 A16 Z05-H	✓	40	5	16	40	8	LOGU 0904..
SM52741	TK90 LO09 D50 A22 Z06-H	✓	50	6	22	40	8	
SM52758	TK90 LO09 D63 A22 Z07-H	✓	63	7	22	40	8	
SM52765	TK90 LO09 D80 A27 Z09-H	✓	80	9	27	50	8	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D20 - D80	LOGU 0904..**	 SSV M2.5x7-9506	 STK-T08-9908	 1,0



Ordering Code	Item Designation		Dimensions (mm)					Master Insert**
	TK90 LN13A D50 A22 Z05-H		D	Z	d	L	a	
SM00821	TK90 LN13A D50 A22 Z05-H	✓	50	5	22	40	12	LN13A 1306..
SM69749	TK90 LN13A D63 A22 Z07-H	✓	63	7	22	40	12	
SM69756	TK90 LN13A D80 A27 Z09-H	✓	80	9	27	50	12	
SM69763	TK90 LN13A D100 A32 Z10-H	✓	100	10	32	50	12	

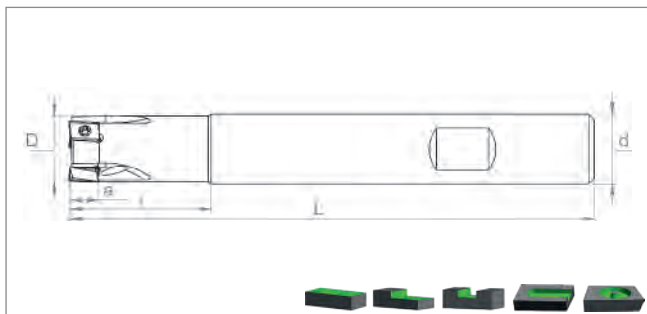
Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D50 - D100	LN13A 1306..**	 SSV M4x12x5-9511	 STK-T15-9910	 3,9

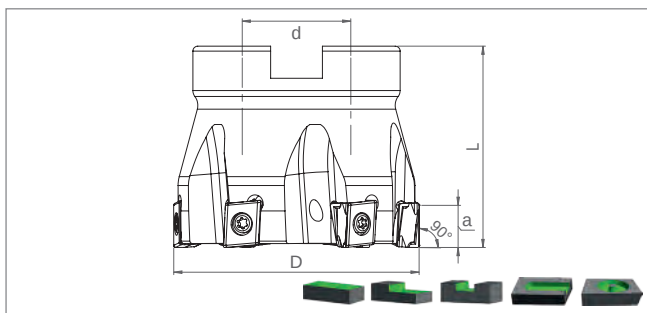
***Body corners should be modified for R2 and more radius inserts / R2 ve üstü radyüslü uçlarda takımın modifiye edilmesi gerekmektedir. ■

*Suitable Insert brand is MTSBH

**Suitable Insert brand is ACHTK

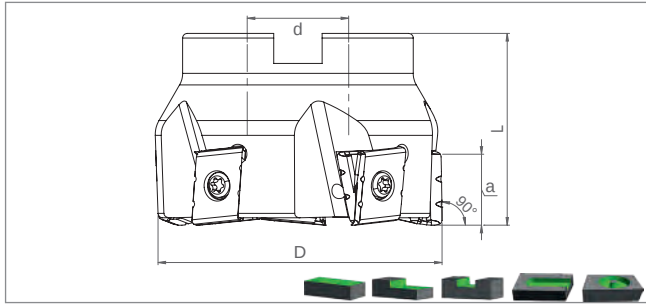


Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 LN..1106..T490</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM59016	ST90 LN11 D25 W25 L150 Z03-H	✓	25	25	3	150	40	9	LN.. 1106.. T490
SM59023	ST90 LN11 D32 W32 L150 Z04-H	✓	32	32	4	150	40	9	



Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
<i>TK90 LN..1106..T490</i>			<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM55124	TK90 LN11 D40 A16 Z04-H	✓	40	4	16	40	9	LN.. 1106.. T490
SM55131	TK90 LN11 D40 A16 Z05-H	✓	40	5	16	40	9	
SM55148	TK90 LN11 D50 A22 Z05-H	✓	50	5	22	40	9	
SM55155	TK90 LN11 D50 A22 Z06-H	✓	50	6	22	40	9	
SM55162	TK90 LN11 D63 A22 Z06-H	✓	63	6	22	40	9	
SM55179	TK90 LN11 D63 A22 Z09-H	✓	63	9	22	40	9	
SM55186	TK90 LN11 D80 A27 Z08-H	✓	80	8	27	50	9	
SM55193	TK90 LN11 D80 A27 Z11-H	✓	80	11	27	50	9	

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D25 - D32	LN.. 1106.. **	SSV M3.5x10- 9511	STK-T15- 9910	2,7
D40 - D80		SSV M3.5x12- 9526		

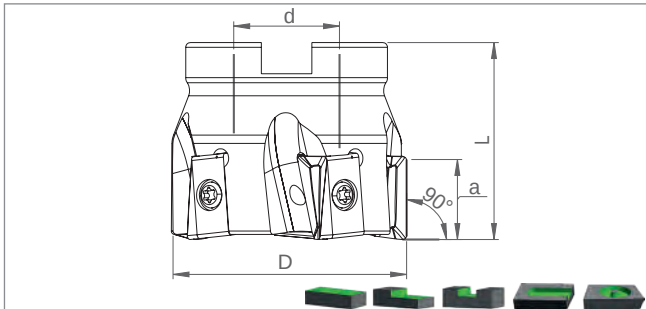


Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 LNKT 1506..		D	Z	d	L	a	
SM31500	TK90 LNKT15 D50 A22 Z04-H	✓	50	4	22	40	12	LNKT 1506..
SM31524	TK90 LNKT15 D63 A22 Z05-H	✓	63	5	22	40	12	
SM31548	TK90 LNKT15 D80 A27 Z06-H	✓	80	6	27	50	12	
SM31562	TK90 LNKT15 D100 A32 Z07-H	✓	100	7	32	50	12	
SM31579	TK90 LNKT15 D125 B40 Z08	-	125	8	40	63	12	

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D50 - D125	LNKT 1506..	SSV M4x12-9515	STK-T15-9910	3,9

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

*Suitable Insert brand is ZCC-CT

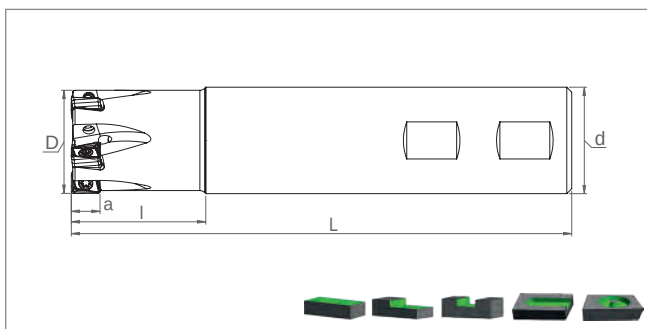


Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 LNKT 1707..		D	Z	d	L	a	
SM44111	TK90 LN17 D50 A22 Z05-H	✓	50	5	22	40	16.5	LNKT 1707..
SM44128	TK90 LN17 D63 A22 Z06-H	✓	63	6	22	40	16.5	
SM44135	TK90 LN17 D80 A27 Z07-H	✓	80	7	27	50	16.5	
SM44142	TK90 LN17 D100 A32 Z09-H	✓	100	9	32	50	16.5	

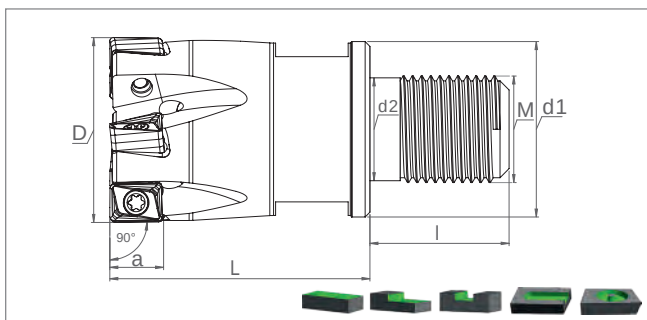
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D50 - D100	LNKT 1707..	SSV M4x12-9515	STK-T15-9910	3,9

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

*Suitable Insert brand is KRLY

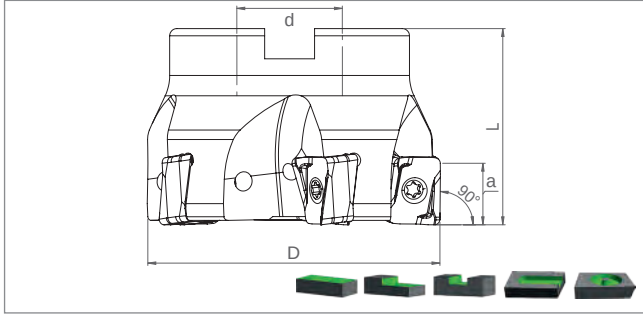


Ordering Code	Item Designation		Dimensions (mm)						Master Insert*
	<i>ST90 ANKX / ANCX 0904..</i>		D	d	Z	L	l	a	
SM58583	ST90 AN09 D16 W16 L150 Z02-H	✓	16	16	2	150	40	8	AN.X 0904..
SM58590	ST90 AN09 D20 W20 L150 Z03-H	✓	20	20	3	150	40	8	
SM58606	ST90 AN09 D25 W25 L150 Z04-H	✓	25	25	4	150	40	8	
SM58613	ST90 AN09 D32 W32 L150 Z05-H	✓	32	32	5	150	40	8	



Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	<i>MT90 ANKX / ANCX 0904..</i>		D	Z	d1	d2	L	l	M	a	
SM58552	MT90 AN09 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	8	AN.X 0904..
SM58569	MT90 AN09 D25 M12 L35 Z04-H	✓	25	4	21	12.5	35	23	12	8	
SM58576	MT90 AN09 D32 M16 L43 Z05-H	✓	32	5	29	17	43	23	16	8	

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D16 - D32	AN.X 0904..*	 SSV M3x6.5 LG-9509	 STK-T08-9908	N-m 1,9

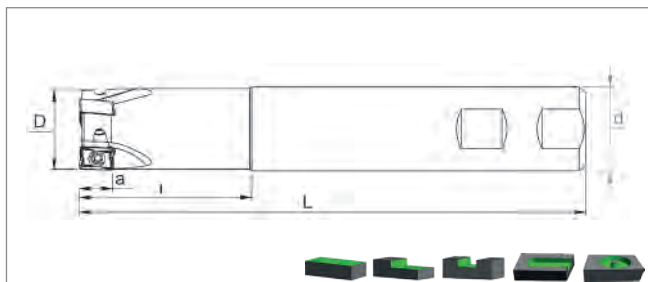


Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 ANKX / ANCX 0904.. / 1205.. / 1706..		D	Z	d	L	a	
SM54615	TK90 AN09 D40 A16 Z05-H	✓	40	5	16	40	8	AN.X 0904..
SM54622	TK90 AN09 D40 A16 Z06-H	✓	40	6	16	40	8	
SM54646	TK90 AN09 D50 A22 Z06-H	✓	50	6	22	40	8	
SM54639	TK90 AN09 D50 A22 Z07-H	✓	50	7	22	40	8	
SM54653	TK90 AN09 D63 A22 Z08-H	✓	63	8	22	40	8	
SM54660	TK90 AN09 D63 A22 Z09-H	✓	63	9	22	40	8	
SM31678	TK90 AN12 D50 A22 Z04-H	✓	50	4	22	40	12	AN.X 1205..
SM31692	TK90 AN12 D63 A22 Z05-H	✓	63	5	22	40	12	
SM31715	TK90 AN12 D80 A27 Z07-H	✓	80	7	27	50	12	
SM31739	TK90 AN12 D100 A32 Z09-H	✓	100	9	32	50	12	
SM31753	TK90 AN17 D50 A22 Z04-H	✓	50	4	22	40	16.3	AN.X 1706..
SM31777	TK90 AN17 D63 A22 Z06-H	✓	63	6	22	40	16.3	
SM31791	TK90 AN17 D80 A27 Z07-H	✓	80	7	27	50	16.3	
SM31814	TK90 AN17 D100 A32 Z08-H	✓	100	8	32	50	16.3	
SM31821	TK90 AN17 D125 B40 Z10	-	125	10	40	63	16.3	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" içten su vermeli montaj vidaları için.



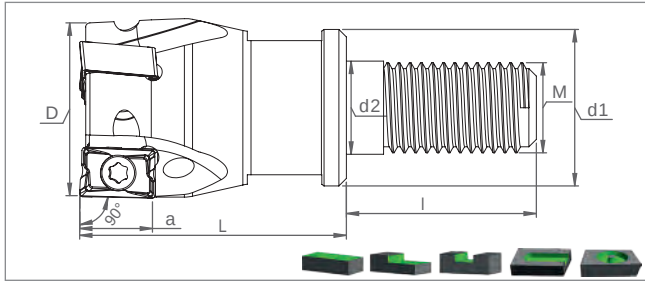
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D40 - D63	AN.X 0904..*	 SSV M3x6.5 LG-9509	 STK-T08-9908	 1,9
D50 - D63	AN.X 1205..*	SSV M4x9x5-9528	STK-T15-9910	3,9
D80 - D100		SSV M4x12x5-9529		
D50 - D125	AN.X 1706..*	SSV M5x13-9519	STK-T20-9911	5,5



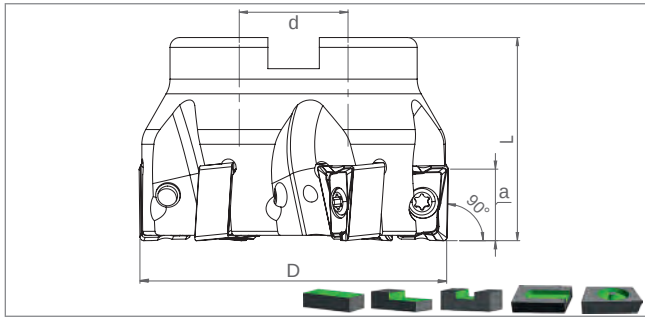
Ordering Code	Item Designation	Dimensions (mm)								Master Insert*
	ST90 LN.X 1006.. / 1510..		<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>		
SM22911	ST90 LN10 D16 W16 L120 Z01	-	16	16	1	120	30	9	LN.X 1006..	
SM51614	ST90 LN10 D16 W16 L120 Z01-H	✓	16	16	1	120	30	9		
SM22904	ST90 LN10 D18 W16 L120 Z02	-	18	16	2	120	30	9		
SM22898	ST90 LN10 D20 W20 L150 Z02	-	20	20	2	150	40	9		
SM51621	ST90 LN10 D20 W20 L150 Z02-H	✓	20	20	2	150	40	9		
SM26711	ST90 LN10 D22 W20 L150 Z02	-	22	20	2	150	30	9		
SM22881	ST90 LN10 D25 W25 L150 Z03	-	25	25	3	150	40	9		
SM51638	ST90 LN10 D25 W25 L150 Z03-H	✓	25	25	3	150	40	9		
SM22874	ST90 LN10 D32 W32 L150 Z04	-	32	32	4	150	40	9		
SM22867	ST90 LN10 D40 W32 L150 Z05	-	40	32	5	150	40	9		
SM22805	ST90 LN15 D32 W32 L150 Z02	-	32	32	2	150	40	14	LN.X 1510..	
SM51645	ST90 LN15 D32 W32 L150 Z02-H	✓	32	32	2	150	40	14		
SM22812	ST90 LN15 D32 C32 L250 Z02	-	32	32	2	250	180	14		
SM22775	ST90 LN15 D32 C32 L300 Z02	-	32	32	2	300	230	14		
SM22829	ST90 LN15 D35 W32 L150 Z03	-	35	32	3	150	30	14		
SM22836	ST90 LN15 D35 C32 L250 Z03	-	35	32	3	250	50	14		
SM22782	ST90 LN15 D35 C32 L300 Z03	-	35	32	3	300	50	14		
SM22843	ST90 LN15 D40 W32 L150 Z03	-	40	32	3	150	40	14		
SM51652	ST90 LN15 D40 W32 L150 Z03-H	✓	40	32	3	150	40	14		
SM22850	ST90 LN15 D40 C32 L250 Z03	-	40	32	3	250	50	14		
SM22799	ST90 LN15 D40 C32 L300 Z03	-	40	32	3	300	50	14		



Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D16 - D22	LN.X 1006..	SSV M3x6- 9507	STK-T08- 9908	1,9
D25 - D40		SSV M3x8- 9508		
D32 - D40	LN.X 1510..	SSV M4x14- 9516	STK-T15- 9910	3,9



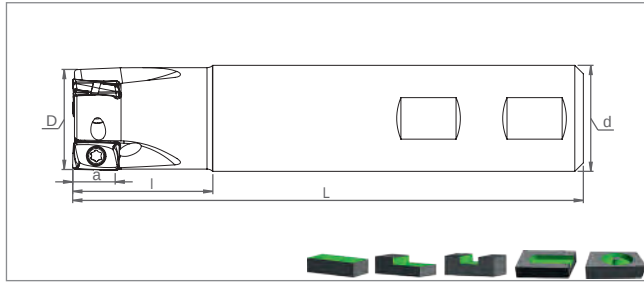
Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	MT90 LN.X 1006..		D	Z	d1	d2	L	l	M	a	
SM47549	MT90 LN10 D20 M10 L30 Z02-H	✓	20	2	18	10.5	30	19	10	9	LN.X 1006..
SM47556	MT90 LN10 D25 M12 L35 Z03-H	✓	25	3	21	12.5	35	23	12	9	
SM47563	MT90 LN10 D32 M16 L43 Z04-H	✓	32	4	29	17	43	23	16	9	



Ordering Code	Item Designation		Dimensions (mm)						Master Insert*
	TK90 LN.X 1006.. / 1510..		D	Z	d	L	a		
SM22690	TK90 LN10 D40 A16 Z05-H	✓	40	5	16	40	9	LN.X 1006..	
SM28456	TK90 LN10 D50 A22 Z06-H	✓	50	6	22	40	9		
SM22713	TK90 LN10 D63 A22 Z07-H	✓	63	7	22	40	9		
SM28432	TK90 LN15 D50 A22 Z05-H	✓	50	5	22	40	14	LN.X 1510..	
SM28425	TK90 LN15 D63 A22 Z06-H	✓	63	6	22	40	14		
SM28418	TK90 LN15 D80 A27 Z07-H	✓	80	7	27	50	14		
SM28401	TK90 LN15 D100 A32 Z09-H	✓	100	9	32	50	14		
SM38479	TK90 LN15 D125 B40 Z10	-	125	10	40	63	14		
SM38486	TK90 LN15 D160 C40 Z12	-	160	12	40	63	14		

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

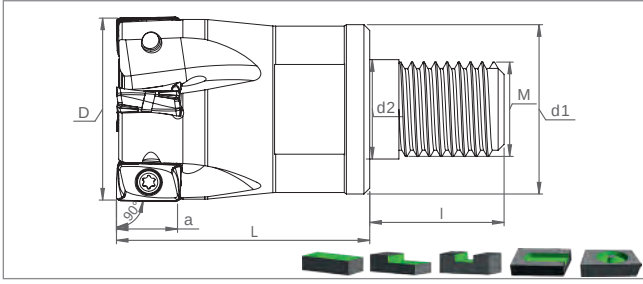
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D20	LN.X 1006..	SSV M3x6- 9507	STK-T08- 9908	1,9
D25 - D32		SSV M3x8- 9508		
D50 - D160	LN.X 1510..	SSV M4x12x5- 9529	STK-T15- 9910	3,9



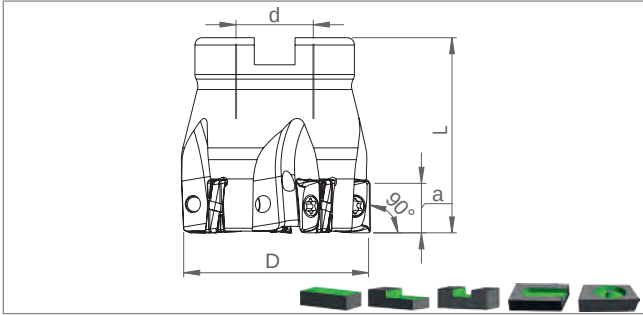
Ordering Code	Item Designation	Dimensions (mm)								Master Insert*
	<i>ST90 LOMU 1004..</i>		<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>		
SM51607	ST90 LM10 D16 W16 L120 Z02-H	✓	16	16	2	120	30	10		LOMU 1004..
SM43701	ST90 LM10 D16 W16 L150 Z02-H	✓	16	16	2	150	40	10		
SM53984	ST90 LM10 D18 W16 L150 Z02-H	✓	18	16	2	150	30	10		
SM49765	ST90 LM10 D20 W20 L120 Z03-H	✓	20	20	3	120	30	10		
SM43718	ST90 LM10 D20 W20 L150 Z03-H	✓	20	20	3	150	40	10		
SM61118	ST90 LM10 D21 W20 L150 Z03-H	✓	21	20	3	150	30	10		
SM53991	ST90 LM10 D22 W20 L150 Z03-H	✓	22	20	3	150	30	10		
SM39858	ST90 LM10 D25 W25 L120 Z03-H	✓	25	25	3	120	30	10		
SM43725	ST90 LM10 D25 W25 L150 Z03-H	✓	25	25	3	150	40	10		
SM54004	ST90 LM10 D26 W25 L150 Z03-H	✓	26	25	3	150	30	10		
SM49772	ST90 LM10 D32 W32 L120 Z04-H	✓	32	32	4	120	30	10		
SM49789	ST90 LM10 D32 W32 L150 Z04-H	✓	32	32	4	150	40	10		
SM54011	ST90 LM10 D33 W32 L150 Z04-H	✓	33	32	4	150	30	10		



Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D16 - D33	LOMU 1004..**	SSV M3x6.5 LG-9509	STK-T08-9908	1,9



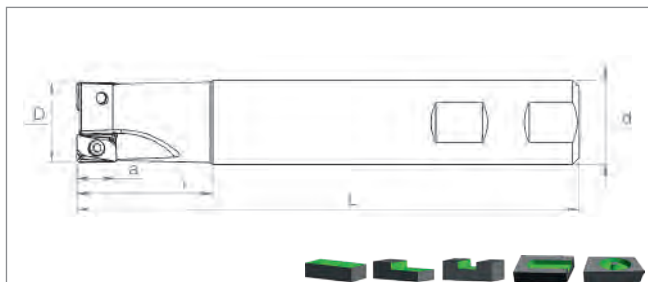
Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	MT90 LOMU 1003..		D	Z	d1	d2	L	I	M	a	
SM50464	MT90 LM10 D16 M08 L25 Z02-H	✓	16	2	15	8.5	25	17	8	10	LOMU 1004..
SM43749	MT90 LM10 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	10	
SM43756	MT90 LM10 D25 M12 L35 Z03-H	✓	25	3	21	12.5	35	23	12	10	
SM43763	MT90 LM10 D32 M16 L43 Z04-H	✓	32	4	29	17	43	23	16	10	



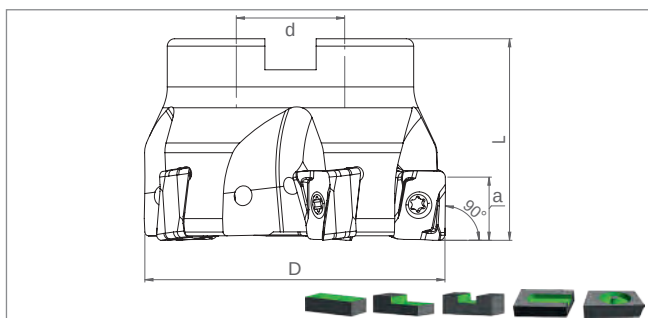
Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 LOMU 1003../1505..		D	Z	d	L	a	
SM46238	TK90 LM10 D40 A16 Z05-H	✓	40	5	16	40	10	LOMU 1004..
SM46245	TK90 LM10 D50 A22 Z05-H	✓	50	5	22	40	10	
SM61262	TK90 LM10 D50 A22 Z07-H	✓	50	7	22	40	10	
SM46252	TK90 LM10 D63 A22 Z06-H	✓	63	6	22	40	10	
SM46191	TK90 LM15 D40 A16 Z04-H	✓	40	4	16	40	15	LOMU 1505..
SM46207	TK90 LM15 D50 A22 Z05-H	✓	50	5	22	40	15	
SM46214	TK90 LM15 D63 A22 Z06-H	✓	63	6	22	40	15	
SM46221	TK90 LM15 D80 A27 Z07-H	✓	80	7	27	50	15	
SM01828	TK90 LM15 D100 A32 Z08-H	✓	100	8	32	50	15	
SM63839	TK90 LM15 D160 C40 Z12	✓	160	12	40	63	15	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D16 - D63	LOMU 1004..**	SSV M3x6.5 LG-9509	STK-T08-9908	1,9
D40 - D63	LOMU 1505..**	SSV M4x9x5-9528	STK-T15-9910	3,9
D80 - D160		SSV M4x12x5-9529		



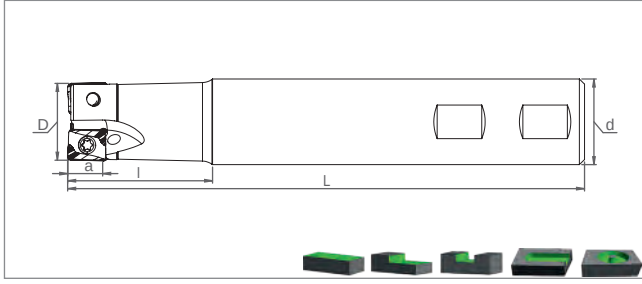
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
ST90 ANGX 1105..			D	d	Z	L	l	a	
SM35980	ST90 AN11 D25 W25 L150 Z02-H	✓	25	25	2	150	40	10	ANGX 1105..
SM35997	ST90 AN11 D32 W32 L150 Z03-H	✓	32	32	3	150	40	10	



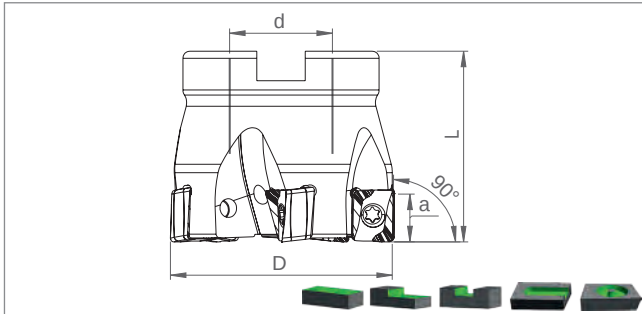
Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
TK90 ANGX 1105../1506..			D	Z	d	L	a	
SM31364	TK90 AN11 D40 A16 Z05-H		40	5	16	40	10	ANGX 1105..
SM31388	TK90 AN11 D50 A22 Z06-H		50	6	22	40	10	
SM31401	TK90 AN11 D63 A22 Z07-H		63	7	22	40	10	
SM31425	TK90 AN15 D50 A22 Z04-H		50	4	22	40	14	ANGX 1506..
SM31449	TK90 AN15 D63 A22 Z05-H		63	5	22	40	14	
SM31463	TK90 AN15 D80 A27 Z07-H		80	7	27	50	14	
SM31487	TK90 AN15 D100 A32 Z09-H		100	9	32	50	14	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D25 - D63	ANGX 1105..	SSV M3x8- 9508	STK-T08- 9908	1,9
D50 - D100	ANGX 1506..	SSV M4x12x5- 9529	STK-T15- 9910	3,9



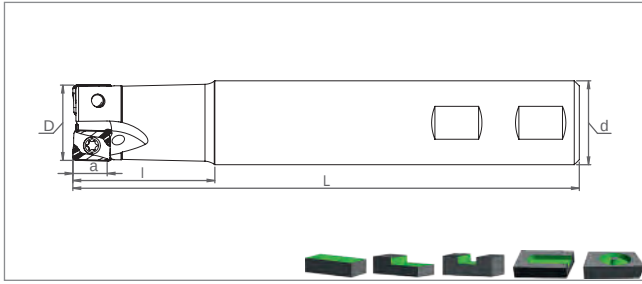
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
ST90 LQMU 1107..			D	d	Z	L	l	a	
SM46054	ST90 LQ11 D25 W25 L150 Z02-H	✓	25	25	2	150	40	9	LQMU 1107..
SM46061	ST90 LQ11 D32 W32 L150 Z03-H	✓	32	32	3	150	40	9	



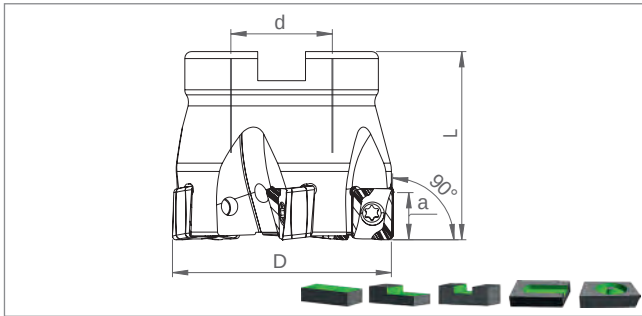
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
TK90 LQMU 1107..			D	Z	d	L	a		
SM45996	TK90 LQ11 D40 A16 Z04-H	✓	40	4	16	40	9	LQMU 1107..	
SM46009	TK90 LQ11 D50 A22 Z05-H	✓	50	5	22	40	9		
SM46016	TK90 LQ11 D63 A22 Z06-H	✓	63	6	22	40	9		

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D25 - D63	LQMU 1107..	SSV M3.5x8 SC-9513	STK-T08-9908	2,7



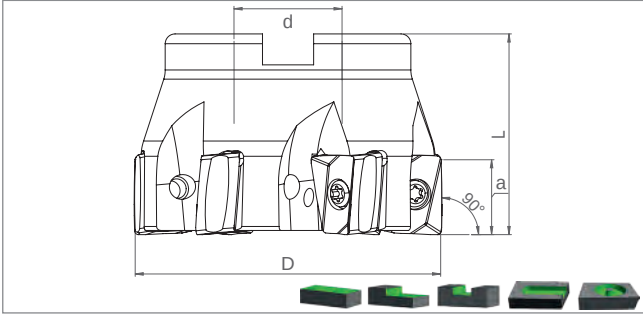
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
	<i>ST90 LNGX 1205..</i>		<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM35867	ST90 LN12 D25 W25 L150 Z02	✓	25	25	2	150	40	11	LNGX 1205..
SM35874	ST90 LN12 D32 W32 L150 Z03	✓	32	32	3	150	40	11	



Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
	<i>TK90 LNGX 1205..</i>		<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>		
SM61941	TK90 LN12 D40 A16 Z04-H	✓	40	4	16	40	12	LNGX 1205..	
SM31593	TK90 LN12 D50 A22 Z05-H	✓	50	5	22	40	12		
SM31616	TK90 LN12 D63 A22 Z06-H	✓	63	6	22	40	12		
SM31630	TK90 LN12 D80 A27 Z07-H	✓	80	7	27	50	12		
SM31654	TK90 LN12 D100 A32 Z09-H	✓	100	9	32	50	12		

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D25 - D100	LNGX 1205..	SSV M3.5x10-9511	STK-T10-9910	2,7

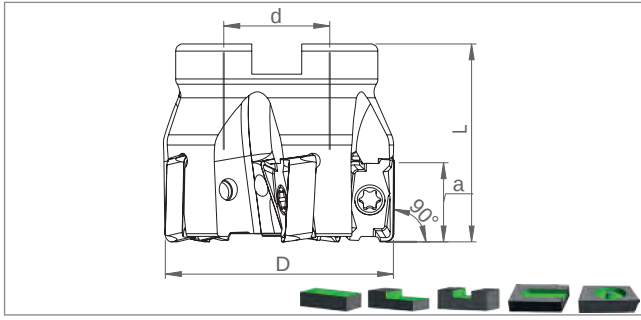


Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 AN.X 1607..		D	Z	d	L	a	
SM13940	TK90 AN16 D50 A22 Z04-H	✓	50	4	22	40	15	AN.X 1607..
SM13957	TK90 AN16 D63 A22 Z06-H	✓	63	6	22	40	15	
SM13964	TK90 AN16 D80 A27 Z07-H	✓	80	7	27	50	15	
SM28531	TK90 AN16 D100 A32 Z08-H	✓	100	8	32	50	15	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" içten su vermeli montaj vidaları için.

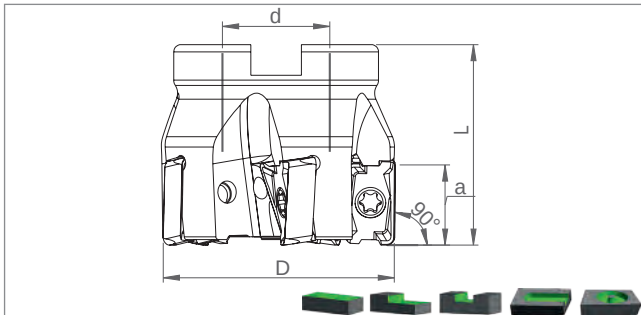


Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D50 - D100	AN.X 1607..	SSV M4x10-9514	STK-T15-9910	3,9



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 LNGU 15T6..		D	Z	d	L	a	
SM42704	TK90 LNGU15 D40 A16 Z04-H	✓	40	4	16	40	15.5	LNGU 15T6..
SM40472	TK90 LNGU15 D50 A22 Z05-H	✓	50	5	22	40	15.5	
SM42711	TK90 LNGU15 D63 A22 Z06-H	✓	63	6	22	40	15.5	
SM42827	TK90 LNGU15 D80 A27 Z07-H	✓	80	7	27	50	15.5	
SM42834	TK90 LNGU15 D100 A32 Z08-H	✓	100	8	32	50	15.5	

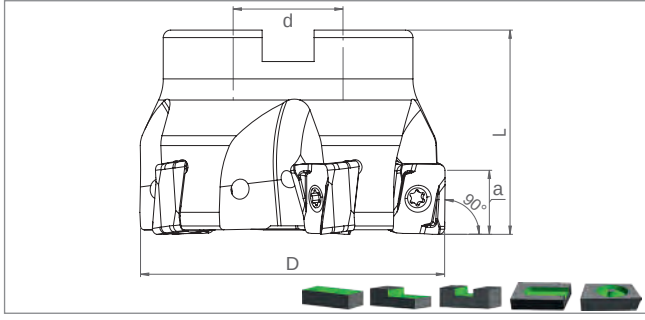
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D40 - D100	LNGU 15T6..	 SSV M4x12-9515	 STK-T15-9910	 N·m 3,9



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 XNPU 15T6..		D	Z	d	L	a	
SM42728	TK90 XN15 D40 A16 Z04-H	✓	40	4	16	40	14.5	XNPU 15T6..
SM40489	TK90 XN15 D50 A22 Z05-H	✓	50	5	22	40	14.5	
SM42735	TK90 XN15 D63 A22 Z06-H	✓	63	6	22	40	14.5	
SM42766	TK90 XN15 D80 A27 Z07-H	✓	80	7	27	50	14.5	
SM42773	TK90 XN15 D100 A32 Z08-H	✓	100	8	32	50	14.5	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert**	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D40 - D100	XNPU 15T6..	 SSV M4x10x5-9528	 STK-T15-9910	 N·m 3,9

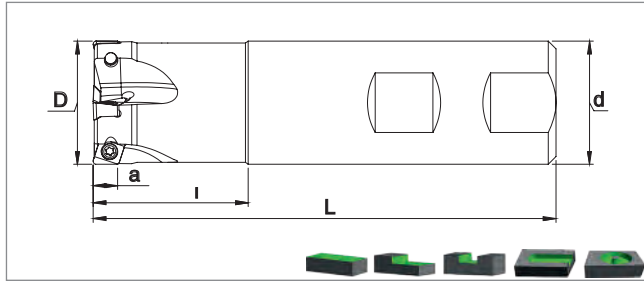


Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 LNGX 1307..		<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM28685	TK90 LNGX13 D50 A22 Z04-H	✓	50	4	22	40	12	LNGX 1307..
SM28678	TK90 LNGX13 D63 A22 Z05-H	✓	63	5	22	40	12	
SM28661	TK90 LNGX13 D80 A27 Z06-H	✓	80	6	27	50	12	
SM31913	TK90 LNGX13 D100 A32 Z07-H	✓	100	7	32	50	12	
SM14169	TK90 LNGX13 D125 B40 Z08	-	125	8	40	63	12	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" içten su vermeli montaj vidaları için.



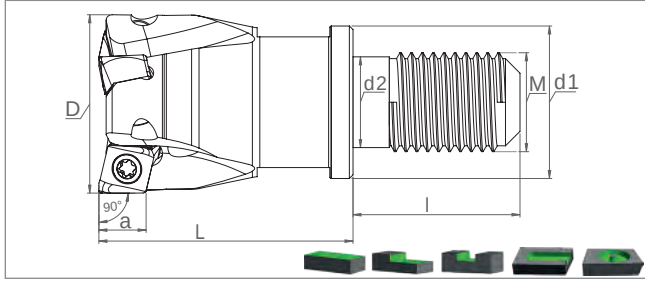
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
				N·m
D50 - D125	LNGX 1307..*	SSV M3.5x12-SC-9531	STK-T10-9909	2,7



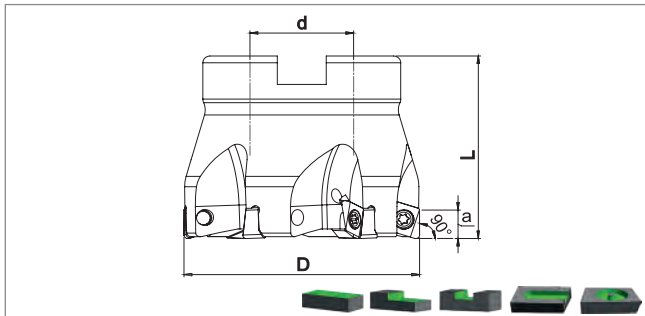
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
	<i>ST90 4NKT 0603..</i>		<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM35423	ST90 4N06 D16 W16 L120 Z02-H	✓	16	16	2	120	30	6	4NKT 0603..
SM35447	ST90 4N06 D16 W16 L150 Z02	-	16	16	2	150	30	6	
SM53632	ST90 4N06 D16 W16 L150 Z02-H	✓	16	16	2	150	30	6	
SM53755	ST90 4N06 D17 W16 L150 Z02-H	✓	17	16	2	150	30	6	
SM35430	ST90 4N06 D20 W20 L120 Z03-H	✓	20	20	3	120	30	6	
SM35454	ST90 4N06 D20 W20 L150 Z03	-	20	20	3	150	40	6	
SM53649	ST90 4N06 D20 W20 L150 Z03-H	✓	20	20	3	150	40	6	
SM53779	ST90 4N06 D21 W20 L150 Z03-H	✓	21	20	3	150	30	6	
SM35461	ST90 4N06 D25 W25 L150 Z03	-	25	25	3	150	40	6	
SM53656	ST90 4N06 D25 W25 L150 Z03-H	✓	25	25	3	150	40	6	
SM53793	ST90 4N06 D26 W25 L150 Z03-H	✓	26	25	3	150	30	6	
SM35478	ST90 4N06 D32 W32 L150 Z04	-	32	32	4	150	40	6	
SM53663	ST90 4N06 D32 W32 L150 Z04-H	✓	32	32	4	150	40	6	



Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D16 - D32	4NKT 0603..**	SSV M3x6.5 LG-9509	STK-T08-9908	1,9



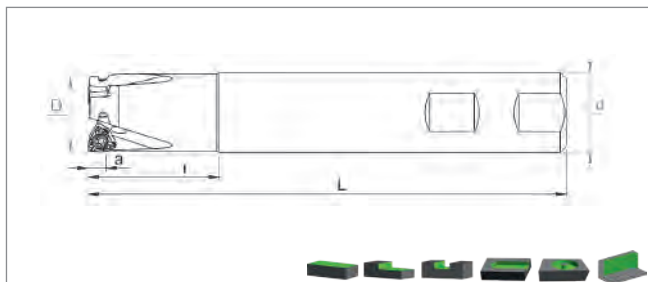
Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	MT90 4NKT 0603..		D	Z	d1	d2	L	l	M	a	
SM53748	MT90 4N06 D16 M08 L25 Z02-H	✓	16	2	15	8.5	25	17	8	6	4NKT 0603..
SM53762	MT90 4N06 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	6	
SM53786	MT90 4N06 D25 M12 L35 Z03-H	✓	25	3	21	12.5	35	23	12	6	
SM53809	MT90 4N06 D32 M16 L43 Z04-H	✓	32	4	29	17	43	23	16	6	
SM53816	MT90 4N06 D35 M16 L43 Z05-H	✓	35	5	29	17	43	23	16	6	
SM53823	MT90 4N06 D40 M16 L43 Z05-H	✓	40	5	29	17	43	23	16	6	
SM53830	MT90 4N06 D42 M16 L43 Z05-H	✓	42	5	29	17	43	23	16	6	



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 4NKT 0603..		D	Z	d	L	a	
SM32408	TK90 4N06 D40 A16 Z05-H	✓	40	5	16	40	6	4NKT 0603..
SM32422	TK90 4N06 D50 A22 Z06-H	✓	50	6	22	40	6	
SM32446	TK90 4N06 D63 A22 Z07-H	✓	63	7	22	40	6	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

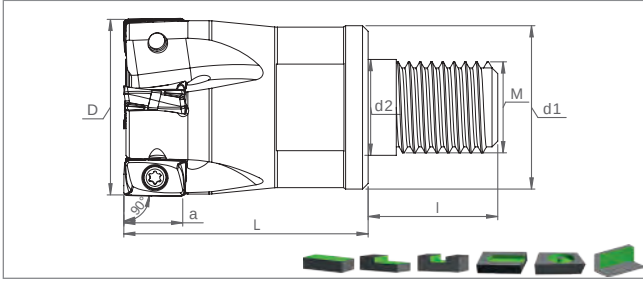
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D16 - D63	4NKT 0603..**	 SSV M3x6.5 LG-9509	 STK-T08-9908	 N·m 1,9



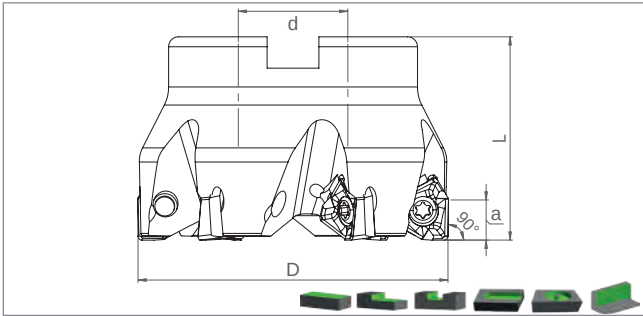
Ordering Code	Item Designation	Dimensions (mm)								Master Insert*
	ST90 XNKT 0604.. / 0805..		<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>		
SM27282	ST90 XNKT06 D20 W20 L150 Z02-H	✓	20	20	2	150	40	5.5	XNKT 0604..	
SM24540	ST90 XNKT06 D21 W20 L150 Z02-H	✓	21	20	2	150	30	5.5		
SM36666	ST90 XNKT06 D21 C20 L200 Z02	-	21	20	2	200	30	5.5		
SM36642	ST90 XNKT06 D22 W20 L150 Z02-H	✓	22	20	2	150	30	5.5		
SM24557	ST90 XNKT06 D25 W25 L150 Z03-H	✓	25	25	3	150	40	5.5		
SM27299	ST90 XNKT06 D26 W25 L150 Z03-H	✓	26	25	3	150	30	5.5		
SM36680	ST90 XNKT06 D26 C25 L200 Z03	-	26	25	3	200	30	5.5		
SM36659	ST90 XNKT06 D32 W32 L150 Z04-H	✓	32	32	4	150	40	5.5		
SM27305	ST90 XNKT06 D33 W32 L150 Z04-H	✓	33	32	4	150	30	5.5	XNKT 0805..	
SM36703	ST90 XNKT06 D33 C32 L200 Z04	-	33	32	4	200	30	5.5		
SM39247	ST90 XNKT08 D30 W25 L150 Z02	-	30	25	2	150	40	8		
SM39254	ST90 XNKT08 D32 W32 L150 Z02	-	32	32	2	150	40	8		
SM39261	ST90 XNKT08 D35 W32 L150 Z03	-	35	32	3	150	30	8		
SM39278	ST90 XNKT08 D40 W32 L150 Z04	-	40	32	4	150	30	8		



Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D20 - D26	XNKT 0604..	SSV M3x6- 9507	STK-T08- 9908	1,9
D32 - D33		SSV M3x8- 9508		
D30 - D40	XNKT 0805..	SSV M4x9x5- 9528	STK-T15- 9910	3,9



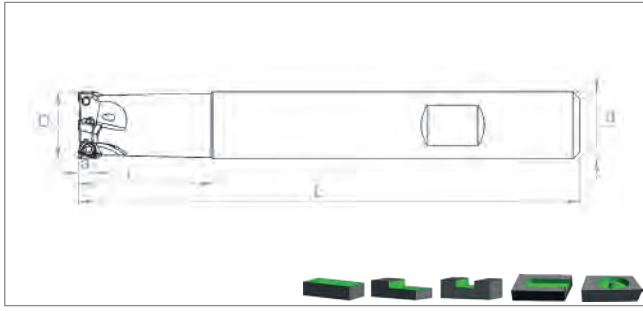
Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	MT90 XNKT 0604.. / 0805..		D	Z	d1	d2	L	l	M	a	
SM40458	MT90 XNKT06 D20 M10 L30 Z02-H	✓	20	2	18	10.5	30	19	10	5.5	XNKT 0604..
SM40427	MT90 XNKT06 D25 M12 L35 Z03-H	✓	25	3	21	12.5	35	23	12	5.5	
SM40434	MT90 XNKT06 D32 M16 L43 Z04-H	✓	32	4	29	17	43	23	16	5.5	
SM40465	MT90 XNKT06 D40 M16 L43 Z05-H	✓	40	5	29	17	43	23	16	5.5	
SM40441	MT90 XNKT06 D42 M16 L43 Z05-H	✓	42	5	29	17	43	23	16	5.5	
SM43497	MT90 XNKT08 D30 M16 L43 Z02-H	✓	30	2	29	17	43	23	16	8	XNKT 08..
SM43503	MT90 XNKT08 D32 M16 L43 Z02-H	✓	32	2	29	17	43	23	16	8	
SM43510	MT90 XNKT08 D40 M16 L43 Z04-H	✓	40	4	29	17	43	23	16	8	



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 XNKT 0805..		D	Z	d	L	a	
SM27961	TK90 XNKT08 D40 A16 Z04-H	✓	40	4	16	40	8	XNKT 08..
SM24472	TK90 XNKT08 D50 A22 Z05-H	✓	50	5	22	40	8	
SM24489	TK90 XNKT08 D63 A22 Z06-H	✓	63	6	22	40	8	
SM24496	TK90 XNKT08 D80 A27 Z08-H	✓	80	8	27	50	8	
SM27930	TK90 XNKT08 D100 A32 Z08-H	✓	100	8	32	50	8	
SM38929	TK90 XNKT08 D100 A32 Z09-H	✓	100	9	32	50	8	
SM38516	TK90 XNKT08 D125 B40 Z10	-	125	10	40	63	8	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

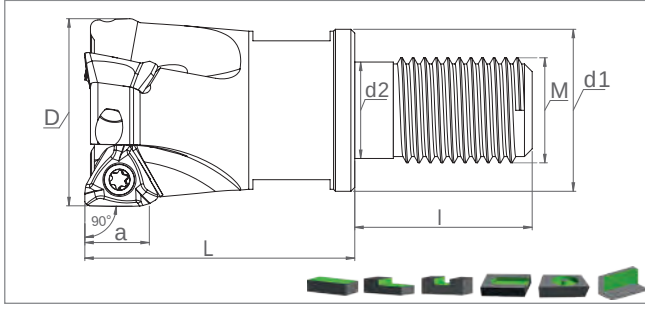
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D20 - D25	XNKT 0604..	SSV M3x6- 9507	STK-T08- 9908	1,9
D32 - D40		SSV M3x8- 9508		
D30 - D125	XNKT 0805..	SSV M4x9x5- 9528	STK-T15- 9910	3,9



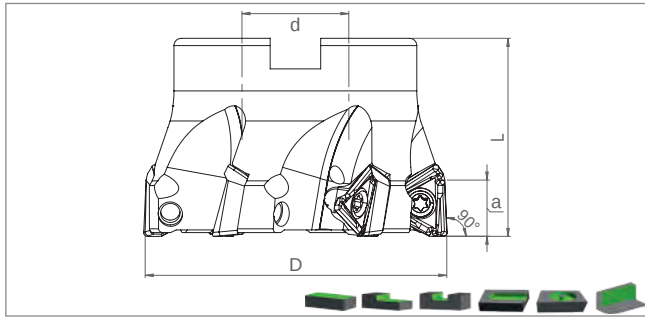
Ordering Code	Item Designation	Dimensions (mm)								Master Insert*
ST90 3PKT 0402.. / 0603.. / 1004..			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>		
SM71353	ST90 3PK04 D10 C10 L100 Z02-H	✓	10	10	2	100	20	3.5	3PKT 0402..	
SM71360	ST90 3PK04 D12 C12 L100 Z02-H	✓	12	12	2	100	20	3.5		
SM71377	ST90 3PK04 D16 C16 L100 Z03-H	✓	16	16	3	100	20	3.5		
SM36802	ST90 3PK06 D12 W12 L120 Z01-H	✓	12	12	1	120	40	4.7	3PKT 0603..	
SM36826	ST90 3PK06 D16 W16 L150 Z03-H	✓	16	16	3	150	40	4.7		
SM36840	ST90 3PK06 D20 W20 L150 Z04-H	✓	20	20	4	150	40	4.7		
SM36864	ST90 3PK10 D16 W16 L150 Z01-H	✓	16	16	1	150	40	7	3PKT 1004..	
SM00845	ST90 3PK10 D17 W16 L150 Z01-H	✓	17	16	1	150	30	7		
SM36871	ST90 3PK10 D20 W20 L150 Z02-H	✓	20	20	2	150	40	7		
SM00852	ST90 3PK10 D21 W20 L150 Z02-H	✓	21	20	2	150	30	7		
SM00883	ST90 3PK10 D21 C20 L200 Z02	-	21	20	2	200	30	7		
SM01699	ST90 3PK10 D22 W20 L120 Z02-H	✓	22	20	2	120	30	7		
SM53946	ST90 3PK10 D22 W20 L150 Z02-H	✓	22	20	2	150	30	7		
SM36888	ST90 3PK10 D25 W25 L150 Z03-H	✓	25	25	3	150	40	7		
SM00869	ST90 3PK10 D26 W25 L150 Z03-H	✓	26	25	3	150	30	7		
SM00890	ST90 3PK10 D26 C25 L200 Z03	-	26	25	3	200	30	7		
SM36895	ST90 3PK10 D32 W32 L150 Z04-H	✓	32	32	4	150	40	7		



Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
				N·m
D10 - D12	3PKT 0402..	SSV M1.8x4- 9501	STK-T06- 9906	0,4
D12 - D20	3PKT 0603..	SSV M2x5- 9502	STK-T06- 9906	0,4
D16 - D32	3PKT 1004..	SSV M3x6- 9507	STK-T08- 9908	1,9



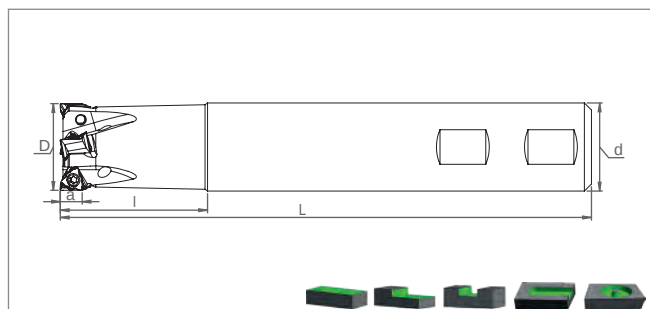
Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	MT90 3PKT 0603../1004..		D	Z	d1	d2	L	l	M	a	
SM53953	MT90 3PK10 D20 M10 L30 Z02-H	✓	20	2	18	10.5	30	19	10	7	3PKT 1004..
SM01705	MT90 3PK10 D25 M12 L35 Z03-H	✓	25	3	21	12.5	35	23	12	7	
SM01378	MT90 3PK10 D32 M16 L43 Z04-H	✓	32	4	29	17	43	23	16	7	
SM61293	MT90 3PK10 D32 M16 L43 Z05-H	✓	32	5	29	17	43	23	16	7	
SM53960	MT90 3PK10 D35 M16 L43 Z05-H	✓	35	5	29	17	43	23	16	7	
SM53977	MT90 3PK10 D40 M16 L43 Z05-H	✓	40	5	29	17	43	23	16	7	



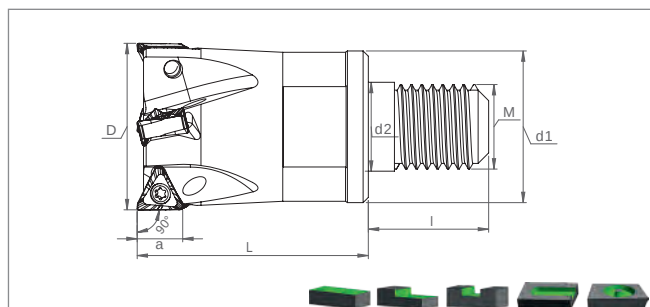
Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 3PKT 1004../1505..		D	Z	d	L	a	
SM48997	TK90 3PKT10 D40 A16 Z05-H	✓	40	5	16	40	7	3PKT 1004..
SM49000	TK90 3PKT10 D50 A22 Z06-H	✓	50	6	22	40	7	
SM49017	TK90 3PKT10 D63 A22 Z07-H	✓	63	7	22	40	7	
SM00593	TK90 3PKT15 D40 A16 Z04-H	✓	40	4	16	40	11	3PKT 1505..
SM32163	TK90 3PKT15 D50 A22 Z05-H	✓	50	5	22	40	11	
SM32187	TK90 3PKT15 D63 A22 Z06-H	✓	63	6	22	40	11	
SM32200	TK90 3PKT15 D80 A27 Z08-H	✓	80	8	27	50	11	
SM40496	TK90 3PKT15 D100 A32 Z09-H	✓	100	9	32	50	11	
SM40502	TK90 3PKT15 D125 B40 Z12	-	125	12	40	63	11	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

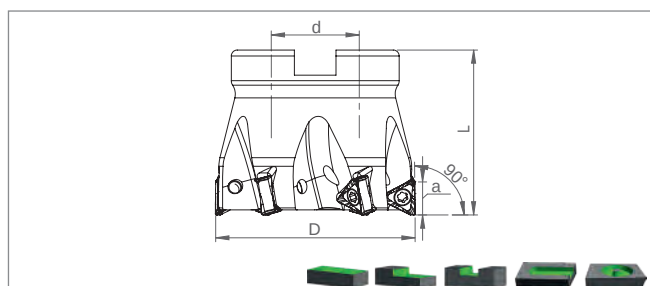
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
				N·m
D20 - D63	3PKT 1004..	SSV M3x6- 9507	STK-T08- 9908	1,9
D40 - D125	3PKT 1505..	SSV M4x10- 9514	STK-T15- 9910	3,9



Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 TN.X 1005..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM47181	ST90 TN1005 D20 W20 L150 Z02-H	✓	20	20	2	150	40	8	TN.X 1005..
SM47198	ST90 TN1005 D25 W25 L150 Z03-H	✓	25	25	3	150	40	8	
SM47204	ST90 TN1005 D32 W32 L150 Z04-H	✓	32	32	4	150	40	8	

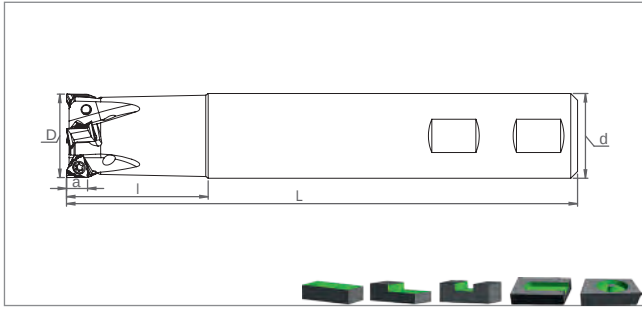


Ordering Code	Item Designation	Dimensions (mm)									Master Insert*
<i>MT90 TN.X 1005..</i>			<i>D</i>	<i>Z</i>	<i>d1</i>	<i>d2</i>	<i>L</i>	<i>l</i>	<i>M</i>	<i>a</i>	
SM47211	MT90 TN1005 D20 M10 L30 Z02-H	✓	20	2	18	10.5	30	19	10	8	TN.X 1005..
SM47228	MT90 TN1005 D25 M12 L35 Z03-H	✓	25	3	21	12.5	35	23	12	8	
SM47235	MT90 TN1005 D32 M16 L43 Z04-H	✓	32	4	29	17	43	23	16	8	

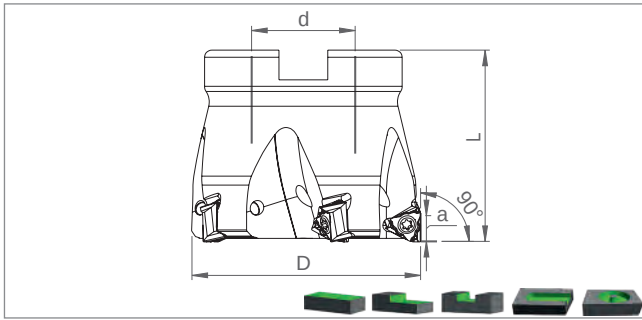


Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
<i>TK90 TN.X 1005..</i>			<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM47150	TK90 TN1005 D40 A16 Z05-H	✓	40	5	16	40	8	TN.X 1005..
SM47167	TK90 TN1005 D50 A22 Z06-H	✓	50	6	22	40	8	
SM47174	TK90 TN1005 D63 A22 Z07-H	✓	63	7	22	40	8	

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D20 - D63	TN.X 1005..	 SSV M3x6.5 LG-9509	 STK-T08-9908	 N·m 1,9



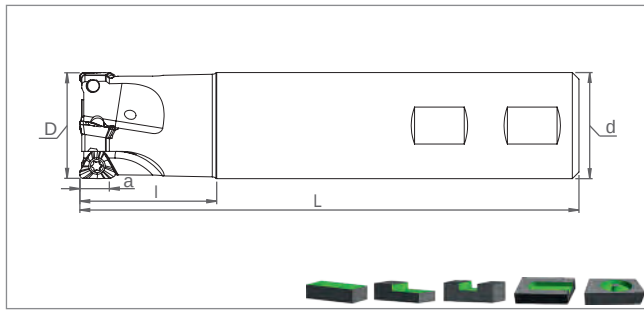
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 TNGX 1004..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM46733	ST90 TNGX10 D20 W20 L150 Z03-H	✓	20	20	3	150	40	5	TNGX 1004..
SM46740	ST90 TNGX10 D25 W25 L150 Z04-H	✓	25	25	4	150	40	5	
SM46757	ST90 TNGX10 D32 W32 L150 Z04-H	✓	32	32	4	150	40	5	



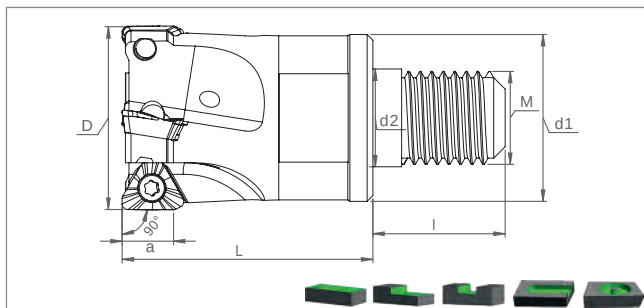
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>TK90 TNGX 1004..</i>			<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>		
SM46160	TK90 TNGX10 D40 A16 Z04-H	✓	40	4	16	40	5	TNGX 1004..	
SM46177	TK90 TNGX10 D50 A22 Z05-H	✓	50	5	22	40	5		
SM46184	TK90 TNGX10 D63 A22 Z06-H	✓	63	6	22	40	5		

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

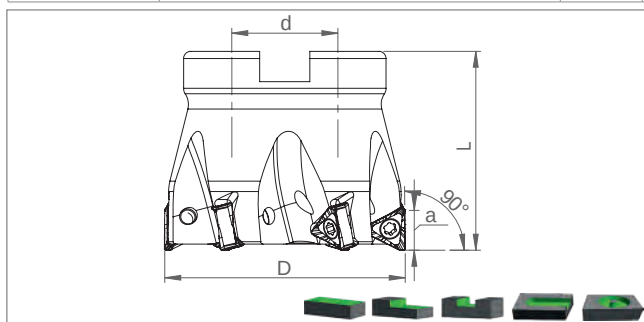
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D20	TNGX 1004..	SSV M2.5x6-9505	STK-T08-9908	1,0
D25 - D63		SSV M2.5x7-9506		



Ordering Code	Item Designation		Dimensions (mm)							Master Insert*
	ST90 TP.. 1003..		D	d	Z	L	l	a		
SM47518	ST90 TP10 D25 W25 L150 Z02-H	✓	25	25	2	150	40	8	TP.. 1003..	
SM47525	ST90 TP10 D28 W25 L150 Z03-H	✓	28	25	3	150	40	8		
SM47532	ST90 TP10 D32 W32 L150 Z04-H	✓	32	32	4	150	40	8		



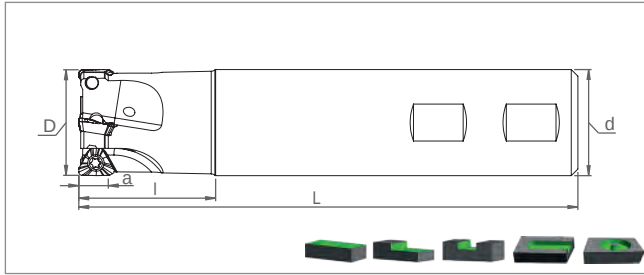
Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	MT90 TP.. 1003..		D	Z	d1	d2	L	l	M	a	
SM47600	MT90 TP10 D25 M12 L35 Z02-H	✓	25	2	21	12.5	35	23	12	8	TP.. 1003..
SM47617	MT90 TP10 D32 M16 L43 Z04-H	✓	32	4	29	17	43	23	16	8	



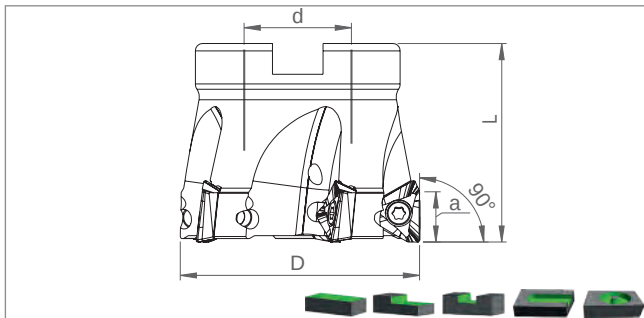
Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 TP.. 1003..		D	Z	d	L	a	
SM46634	TK90 TP10 D40 A16 Z04-H	✓	40	4	16	40	8	TP.. 1003..
SM46641	TK90 TP10 D50 A22 Z05-H	✓	50	5	22	40	8	
SM46658	TK90 TP10 D63 A22 Z06-H	✓	63	6	22	40	8	
SM50020	TK90 TP10 D80 A27 Z07-H	✓	80	7	27	50	8	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D25 - D32	TP.. 1003..	SSV M3.5x8 SC-9513	STK-T10-9909	2,7
D40 - D80	TP.. 1003..	SSV M3x8 SC-9513	STK-T10-9909	1,9

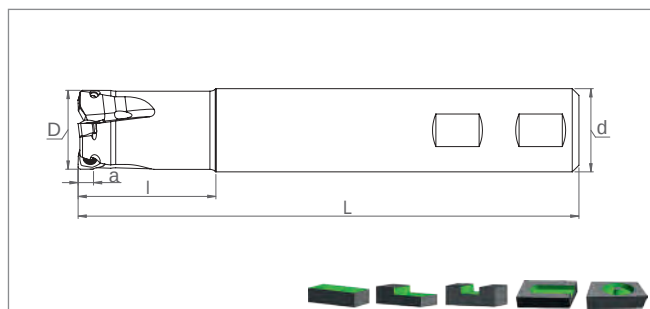


Ordering Code	Item Designation		Dimensions (mm)						Master Insert*
<i>ST90 TPKT 1104..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM70325	ST90 TPKT1104 D20 W20 L150 Z02-H	✓	20	20	2	150	40	7	TPKT 1104..
SM70332	ST90 TPKT1104 D22 W20 L150 Z02-H	✓	22	20	2	150	30	7	
SM70349	ST90 TPKT1104 D22 C20 L200 Z02	✓	22	20	2	200	30	7	
SM70356	ST90 TPKT1104 D25 W25 L150 Z03-H	✓	25	25	3	150	40	7	
SM70363	ST90 TPKT1104 D26 W25 L150 Z03-H	✓	26	25	3	150	30	7	
SM70370	ST90 TPKT1104 D26 C25 L200 Z03	✓	26	25	3	200	30	7	
SM70387	ST90 TPKT1605 D32 W32 L150 Z02-H	✓	32	32	2	150	40	11	TPKT 1605..
SM70394	ST90 TPKT1605 D33 W32 L150 Z02-H	✓	33	32	2	150	30	11	
SM70400	ST90 TPKT1605 D40 W32 L150 Z03-H	✓	40	32	3	150	30	11	

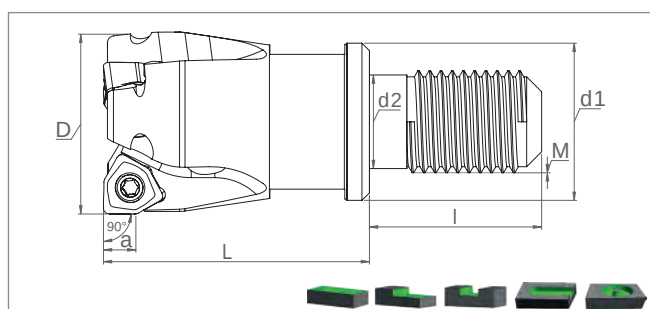


Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
TK90 TPKT 1605..			D	Z	d	L	a	
SM64706	TK90 TPKT1605 D50 A22 Z04-H	✓	50	4	22	40	11	TPKT 1605..
SM64713	TK90 TPKT1605 D63 A22 Z05-H	✓	63	5	22	40	11	
SM64720	TK90 TPKT1605 D80 A27 Z06-H	✓	80	7	27	50	11	
SM64737	TK90 TPKT1605 D100 A32 Z08-H	✓	100	8	32	50	11	
SM64744	TK90 TPKT1605 D125 B40 Z10	✓	125	10	40	50	11	

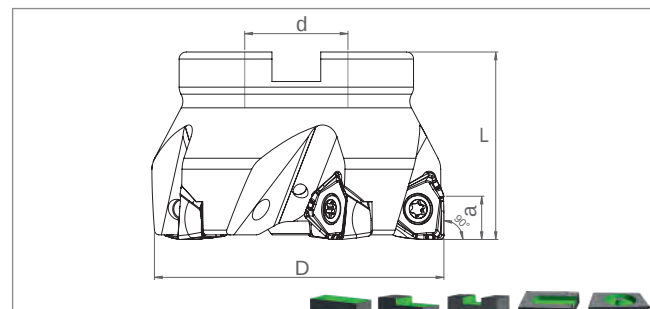
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D20 - D22	TPKT 1104..	SSV M2.5x5- 9504	STK-T08- 9908	1,0
D25 - D26		SSV M2.5x6- 9506		1,9
D32 - D125	TPKT 1605..	SSV M4.5x11- 9518	STK-T20- 9911	4,7



Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
	<i>ST90 6NGU 0604..</i>		<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM58620	ST90 6N06 D25 W25 L150 Z02-H	✓	25	25	2	150	40	6.2	6NGU 0604..
SM58637	ST90 6N06 D32 W32 L150 Z03-H	✓	32	32	3	150	40	6.2	



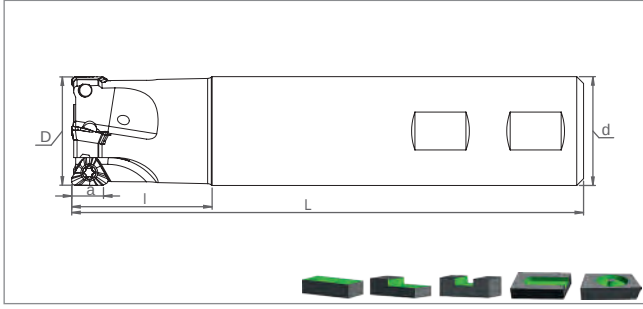
Ordering Code	Item Designation	Dimensions (mm)									Master Insert*
	<i>MT90 6NGU 0604..</i>		<i>D</i>	<i>Z</i>	<i>d1</i>	<i>d2</i>	<i>L</i>	<i>l</i>	<i>M</i>	<i>a</i>	
SM58644	MT90 6N06 D25 M12 L35 Z02-H	✓	25	2	21	12.5	35	23	12	6.2	6NGU 0604..
SM58651	MT90 6N06 D32 M16 L43 Z03-H	✓	32	3	29	17	43	23	16	6.2	



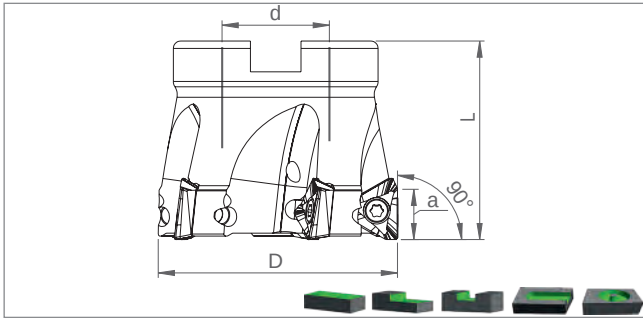
Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
	<i>TK90 6NGU 0905..</i>		<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM56107	TK90 6N09 D50 A22 Z04-H	✓	50	4	22	40	9.2	6NGU 0905..
SM56114	TK90 6N09 D63 A22 Z05-H	✓	63	5	22	40	9.2	
SM56121	TK90 6N09 D80 A27 Z07-H	✓	80	7	27	50	9.2	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D25 - D32	6NGU 0604..	SSV M3x8 LG- 9508	STK-T08- 9908	1,9
D50 - D80	6NGU 0905..	SSV M4x10- 9514	STK-T15- 9910	3,9



Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
ST90 TOMT 0603.. / 1004..			D	d	Z	L	l	a	
SM46078	ST90 TO06 D16 W16 L150 Z02-H	✓	16	16	2	150	40	6	TOMT 0603..
SM46085	ST90 TO06 D20 W20 L150 Z03-H	✓	20	20	3	150	40	6	
SM46092	ST90 TO06 D25 W25 L150 Z04-H	✓	25	25	4	150	40	6	
SM46108	ST90 TO10 D25 W25 L150 Z02-H	✓	25	25	2	150	40	10	TOMT 1004..
SM46115	ST90 TO10 D32 W32 L150 Z03-H	✓	32	32	3	150	40	10	

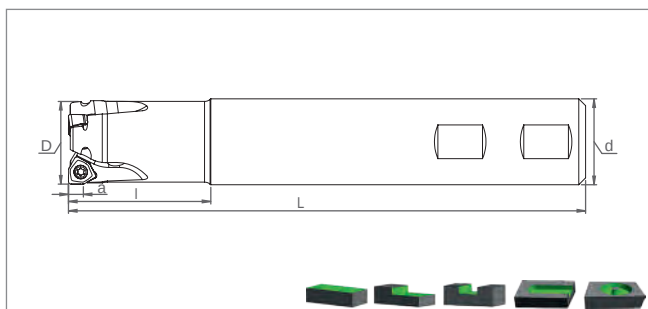


Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
TK90 TOMT 1004.. / 1506..			D	Z	d	L	a	
SM46023	TK90 TO10 D40 A16 Z04-H	✓	40	4	16	40	10	TOMT 1004..
SM46030	TK90 TO10 D50 A22 Z05-H	✓	50	5	22	40	10	
SM46047	TK90 TO10 D63 A22 Z06-H	✓	63	6	22	40	10	
SM52949	TK90 TO15 D50 A22 Z04-H	✓	50	4	22	40	15	TOMT 1506..
SM52956	TK90 TO15 D63 A22 Z05-H	✓	63	5	22	40	15	
SM52963	TK90 TO15 D80 A27 Z06-H	✓	80	6	27	50	15	
SM52970	TK90 TO15 D100 A32 Z07-H	✓	100	7	32	50	15	
SM52987	TK90 TO15 D125 B40 Z08	-	125	8	40	63	15	

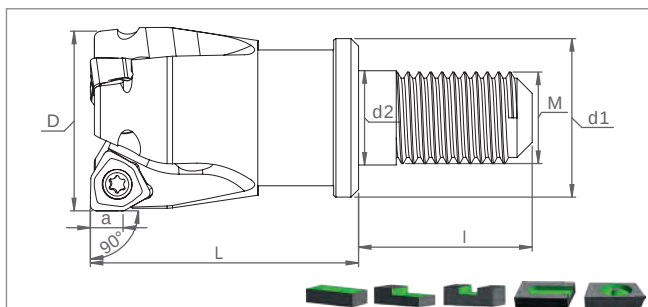
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D16 - D25	TOMT 0603..	SSV M2.5x5-9504	STK-T08-9908	1,0
D25 - D63	TOMT 1004..	SSV M3.5x8-SC-9513	STK-T10-9909	2,7
D50 - D125	TOMT 1506..**	SSV M5x13-9519	STK-T20-9911	5,5

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

**Body corners should be modified for R2 and more radius inserts / R2 ve üstü radyüslü uçlarda takımın modifiye edilmesi gerekmektedir. ■

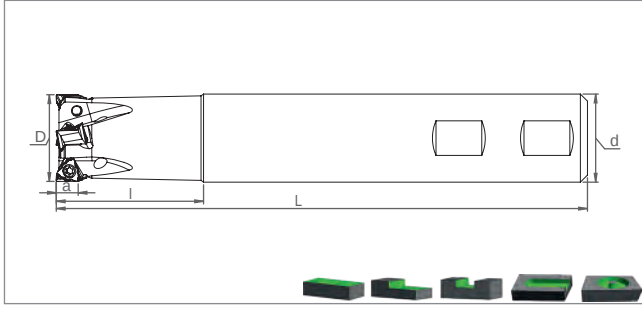


Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 6N KU 0403..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM47488	ST90 6N04 D20 W20 L150 Z02-H	✓	20	20	2	150	40	4.1	6N KU 0403..
SM47495	ST90 6N04 D25 W25 L150 Z03-H	✓	25	25	3	150	40	4.1	
SM47501	ST90 6N04 D32 W32 L150 Z04-H	✓	32	32	4	150	40	4.1	

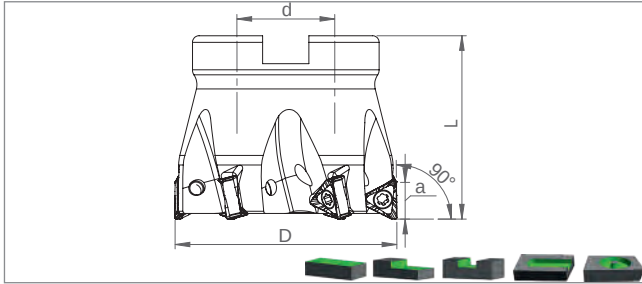


Ordering Code	Item Designation	Dimensions (mm)										Master Insert*
MT90 6N KU 0403..			D	Z	d1	d2	L	l	M	a		
SM47570	MT90 6N04 D20 M10 L30 Z02-H		20	2	18	10.5	30	19	10	4.1	6N KU 0403..	
SM47587	MT90 6N04 D25 M12 L35 Z03-H		25	3	21	12.5	35	23	12	4.1		
SM47594	MT90 6N04 D32 M16 L43 Z04-H		32	4	29	17	43	23	16	4.1		

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D20	6N KU 0403..			N-m
D25 - D32		SSV M2.5x6- 9505 SSV M2.5x7- 9506		
			STK-T08- 9908	1,0



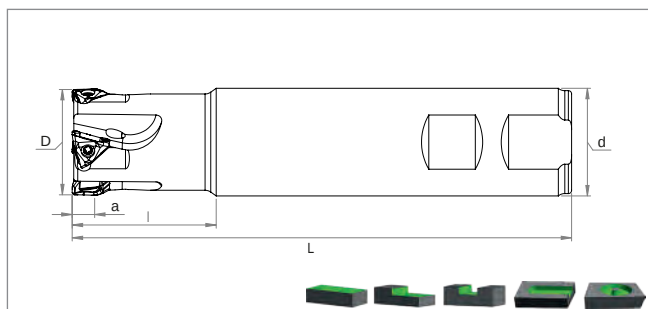
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 TNMU 0703....</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM58019	ST90 TN07 D16 W16 L150 Z02-H	✓	16	16	2	150	40	6.5	TNMU 0703..
SM58026	ST90 TN07 D18 W16 L150 Z02-H	✓	18	16	2	150	30	6.5	
SM58033	ST90 TN07 D20 W20 L150 Z02-H	✓	20	20	2	150	40	6.5	
SM58040	ST90 TN07 D22 W20 L150 Z02-H	✓	22	20	2	150	30	6.5	
SM58057	ST90 TN07 D25 W25 L150 Z03-H	✓	25	25	3	150	40	6.5	
SM58064	ST90 TN07 D26 W25 L150 Z04-H	✓	26	25	4	150	30	6.5	
SM58071	ST90 TN07 D32 W32 L150 Z04-H	✓	32	32	4	150	40	6.5	
SM58088	ST90 TN07 D33 W32 L150 Z05-H	✓	33	32	5	150	30	6.5	



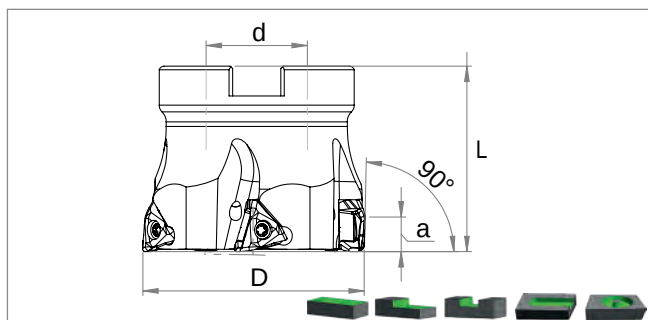
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>TK90 TNMU 0703....</i>			<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>		
SM57982	TK90 TN07 D40 A16 Z06-H	✓	40	6	16	40	6.5	TNMU 0703..	
SM57999	TK90 TN07 D50 A22 Z08-H	✓	50	8	22	40	6.5		
SM58002	TK90 TN07 D63 A22 Z09-H	✓	63	9	22	40	6.5		

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D16 - D63	TNMU 0703..	 SSV M2.2x5-9503	 STK-T06-9906	 N·m 0,65

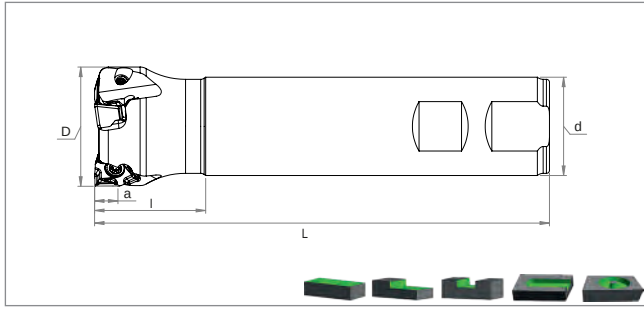


Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 TOMT 0605..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM69954	ST90 TOMT06 D20 W20 L120 Z02-H	✓	20	20	2	120	30	6	TOMT 0605..
SM69961	ST90 TOMT06 D22 W20 L120 Z02-H	✓	22	20	2	120	30	6	
SM69978	ST90 TOMT06 D25 W25 L120 Z03-H	✓	25	25	3	120	30	6	
SM69985	ST90 TOMT06 D32 W32 L120 Z04-H	✓	32	32	4	120	30	6	

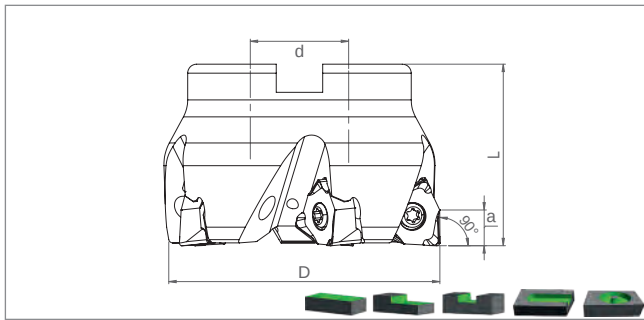


Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
<i>TK90 TOMT 0605..</i>			<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM69992	TK90 TOMT06 D40 A16 Z05-H	✓	40	5	16	40	6	TOMT 0605..
SM70004	TK90 TOMT06 D50 A22 Z05-H	✓	50	5	22	40	6	
SM70011	TK90 TOMT06 D63 A22 Z06-H	✓	63	6	22	40	6	

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D35 - D160	TOMT 0605..	SSV M3x8- 9508	STK-T08- 9908	1,0

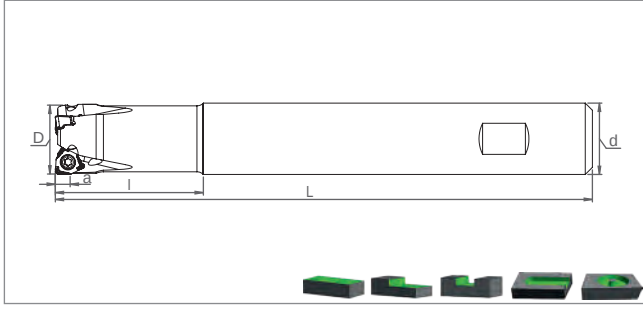


Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 WNEX 0806..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM70417	ST90 WNEX0806 D35 W32 L150 Z02-H	✓	35	32	2	150	30	7	WNEX 0806..
SM70424	ST90 WNEX0806 D40 W32 L150 Z03-H	✓	40	32	3	150	35	7	

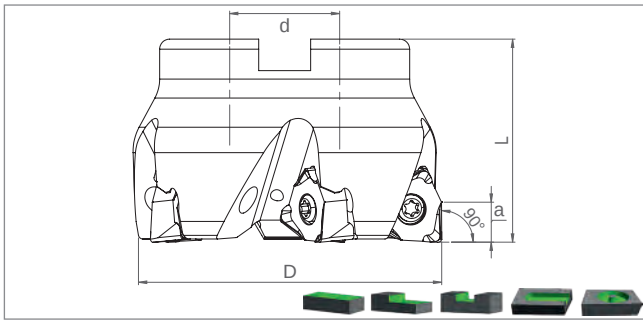


Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>TK90 WNEX 0806...</i>			<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>		
SM64645	TK90 WNEX0806 D50 A22 Z04-H	✓	50	4	22	40	7	WNEX 0806..	
SM64652	TK90 WNEX0806 D63 A22 Z05-H	✓	63	5	22	40	7		
SM64669	TK90 WNEX0806 D80 A27 Z07-H	✓	80	7	27	50	7		
SM64676	TK90 WNEX0806 D100 A32 Z08-H	✓	100	8	32	50	7		
SM64683	TK90 WNEX0806 D125 B40 Z10	✓	125	10	40	63	7		
SM64690	TK90 WNEX08 D160 C40 Z12	✓	160	12	40	63	7		

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D35 - D160	WNEX 0806..	SSV M4x10-9514	STK-T15-9910	3,9



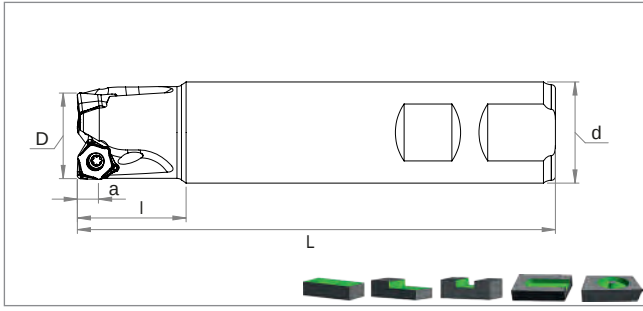
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 WNGU 0403..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM62290	ST90 WN04 D17 W16 L150 Z02-H	✓	17	16	2	150	30	4	WNGU 0403...
SM62634	ST90 WN04 D20 W20 L150 Z03-H	✓	20	20	3	150	40	4	
SM62306	ST90 WN04 D21 W20 L150 Z03-H	✓	21	20	3	150	30	4	
SM62641	ST90 WN04 D25 W25 L150 Z04-H	✓	25	25	4	150	40	4	
SM62313	ST90 WN04 D26 W25 L150 Z04-H	✓	26	25	4	150	30	4	



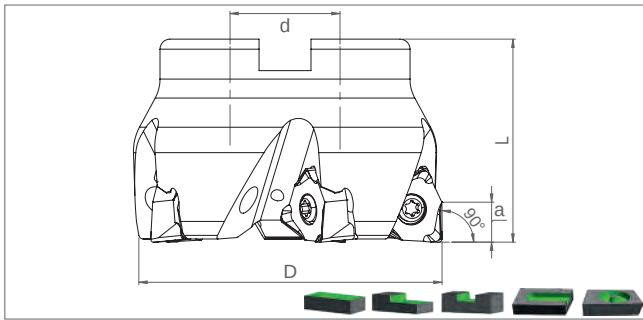
Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
TK90 WNGU 0403../0806..			D	Z	d	L	a	
SM76945	TK90 WN04 D40 A16 Z05-H	✓	40	5	16	40	4	WNGU 0403...
SM62627	TK90 WN04 D50 A22 Z06-H	✓	50	6	22	40	4	
SM76952	TK90 WN04 D63 A22 Z08-H	✓	63	8	22	40	4	
SM00791	TK90 WNGU08 D50 A22 Z04-H	✓	50	4	22	40	7	WNGU 0806...
SM01514	TK90 WNGU08 D63 A22 Z05-H	✓	63	5	22	40	7	
SM00807	TK90 WNGU08 D63 A22 Z06-H	✓	63	6	22	40	7	
SM61552	TK90 WNGU08 D80 A27 Z07-H	✓	80	7	27	50	7	
SM01521	TK90 WNGU08 D100 A32 Z08-H	-	100	8	32	50	7	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert**	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D17 - D63	WNGU 0403...	SSV M2.5x6-9505	STK-T08-9908	1,0
D50 - D100	WNGU 0806..	SSV M4x12x5-9529	STK-T15-9910	3,9



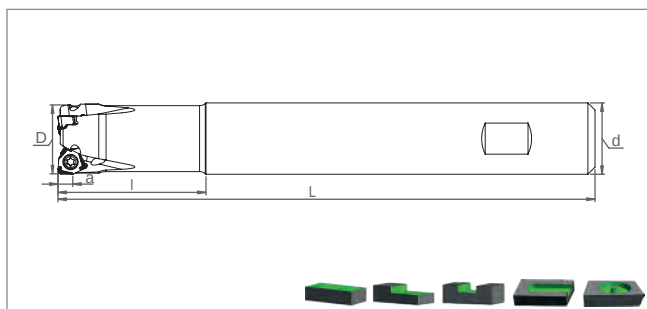
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 WNMU 0504..</i>			D	d	Z	L	l	a	
SM69909	ST90 WN05 D25 W25 L120 Z02-H	✓	25	25	2	120	30	5	WNMU 0504...
SM66939	ST90 WN05 D25 W25 L120 Z03-H	✓	25	25	3	120	25	5	
SM69916	ST90 WN05 D32 W32 L120 Z03-H	✓	32	32	3	120	30	5	



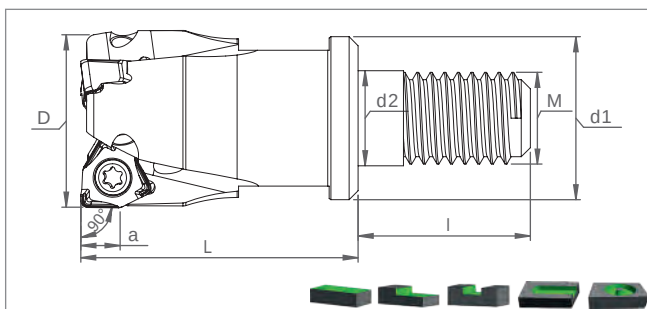
Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
TK90 WN.. 0504../0806..			D	Z	d	L	a	
 SM69923	TK90 WN05 D40 A16 Z04-H	✓	40	4	16	40	5	WNMU 0504...
 SM69930	TK90 WN05 D50 A22 Z05-H	✓	50	5	22	40	5	
 SM69947	TK90 WN05 D63 A22 Z06-H	✓	63	6	22	40	5	
SM25288	TK90 WN08 D50 A22 Z04-H	✓	50	4	22	40	8	WN.. 0806..
SM25295	TK90 WN08 D63 A22 Z05-H	✓	63	5	22	40	8	
SM25301	TK90 WN08 D80 A27 Z07-H	✓	80	7	27	50	8	
SM39612	TK90 WN08 D100 A32 Z08-H	✓	100	8	32	50	8	
SM32293	TK90 WN08 D125 B40 Z10	-	125	10	40	63	8	
 SM75160	TK90 WN08 D160 C40 Z10	-	160	10	40	63	8	
SM60647	TK90 WN08 D160 C40 Z12	-	160	12	40	63	8	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D25 - D63	WNMU 0504...	SSV M3x6.5 LG-9509	STK-T08-9908	1,9
D50 - D160	WN.. 0806..	SSV M5x13-9519	STK-T20-9911	5,5

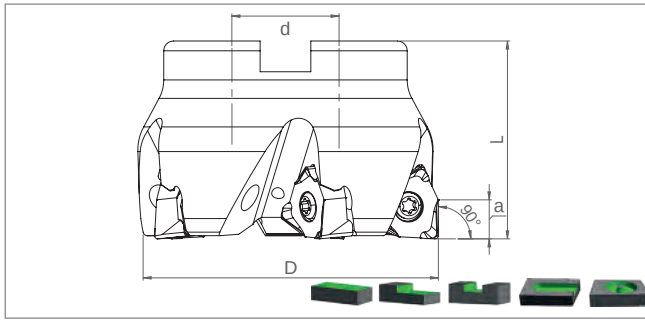


Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
	<i>ST90 XNEX 0403..</i>		<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM43183	ST90 XN04 D17 W16 L150 Z02-H	✓	17	16	2	150	30	4	XNEX 0403..
SM43190	ST90 XN04 D20 W20 L150 Z03-H	✓	20	20	3	150	40	4	
SM54028	ST90 XN04 D21 W20 L150 Z03-H	✓	21	20	3	150	30	4	
SM43206	ST90 XN04 D25 W25 L150 Z04-H	✓	25	25	4	150	40	4	
SM54035	ST90 XN04 D26 W25 L150 Z04-H	✓	26	25	4	150	30	4	
SM43213	ST90 XN04 D32 W32 L150 Z05-H	✓	32	32	5	150	40	4	
SM54042	ST90 XN04 D33 W32 L150 Z05-H	✓	33	32	5	150	30	4	



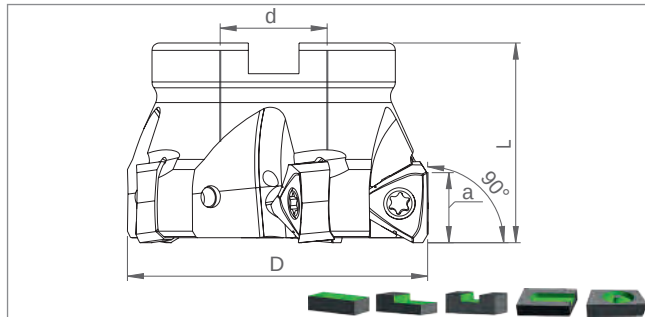
Ordering Code	Item Designation	Dimensions (mm)									Master Insert*
	<i>MT90 XNEX 0403..</i>		<i>D</i>	<i>Z</i>	<i>d1</i>	<i>d2</i>	<i>L</i>	<i>l</i>	<i>M</i>	<i>a</i>	
SM43824	MT90 XN04 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	4	XNEX 0403..
SM43831	MT90 XN04 D25 M12 L35 Z04-H	✓	25	4	21	12.5	35	23	12	4	
SM65079	MT90 XN04 D32 M16 L43 Z05-H	✓	32	5	29	17	43	23	16	4	

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D17 - D21	XNEX 0403..			N-m
D25 - D33		SSV M2.5x5- 9504 SSV M2.5x6- 9505		
			STK-T08- 9908	1,0



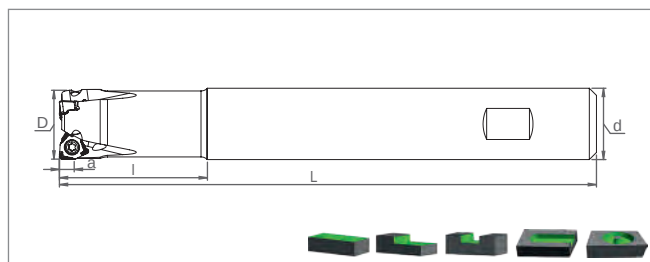
Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 XNEX 0806..		D	Z	d	L	a	
SM28524	TK90 XNEX08 D50 A22 Z04-H	✓	50	4	22	40	7.5	XNEX 0806..
SM79069	TK90 XNEX08 D50 A22 Z05-H	✓	50	5	22	40	7.5	
SM28517	TK90 XNEX08 D63 A22 Z05-H	✓	63	5	22	40	7.5	
SM28500	TK90 XNEX08 D80 A27 Z07-H	✓	80	7	27	50	7.5	
SM32309	TK90 XNEX08 D100 A32 Z08-H	✓	100	8	32	50	7.5	
SM32316	TK90 XNEX08 D125 B40 Z10	-	125	10	40	63	7.5	
SM66496	TK90 XNEX08 D160 C40 Z14	-	160	14	40	63	7.5	

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D50 - D125	XNEX 0806..	SSV M4x12- 9515	STK-T15- 9910	3,9

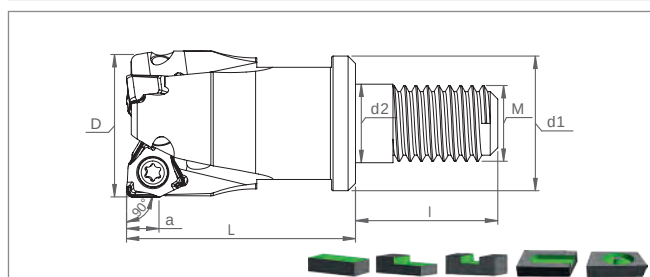


Ordering Code	Item Designation		Dimensions (mm)					Master Insert**
	TK90 TNMX 1806..		D	Z	d	L	a	
SM46986	TK90 TN18 D63 A22 Z05-H	✓	63	5	22	40	13	TNMX 1806..
SM46993	TK90 TN18 D80 A27 Z06-H	✓	80	6	27	50	13	
SM47006	TK90 TN18 D100 A32 Z07-H	✓	100	7	32	50	13	

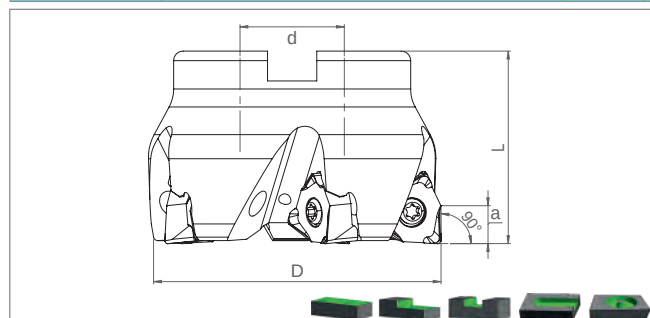
Size Designation	Master Insert**	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D63 - D100	TNMX 1806..	SSV M4x12- 9515	STK-T15- 9910	3,9



Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 WNGX 0403..</i>			D	d	Z	L	l	a	
SM70431	ST90 WNGX0403 D20 W20 L150 Z02-H	✓	20	20	2	150	40	4.3	WNGX 0403..
SM70448	ST90 WNGX0403 D25 W25 L150 Z03-H	✓	25	25	3	150	40	4.3	
SM70455	ST90 WNGX0403 D32 W32 L150 Z04-H	✓	32	32	4	150	40	4.3	
SM70462	ST90 WNGX0403 D32 W32 L150 Z05-H	✓	32	32	5	150	40	4.3	



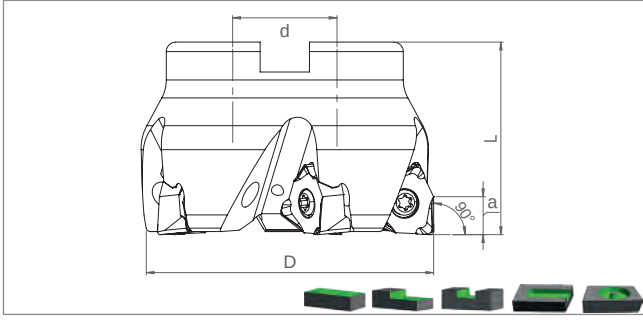
Ordering Code	Item Designation	Dimensions (mm)								Master Insert*
<i>MT90 WNGX 0403..</i>			D	Z	d1	d2	L	l	M	a
SM70479	MT90 WNGX0403 D20 M10 L30 Z02-H	✓	20	2	18	10.5	30	19	10	4.3
SM70486	MT90 WNGX0403 D25 M12 L35 Z03-H	✓	25	3	21	12.5	35	23	12	4.3
SM70493	MT90 WNGX0403 D32 M16 L35 Z04-H	✓	32	4	29	17	43	23	16	4.3



Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
<i>TK90 WNGX 0806..</i>			D	Z	d	L	a	
SM43619	TK90 WNGX08 D50 A22 Z04-H	✓	50	4	22	40	8.2	WNGX 0806..
SM43626	TK90 WNGX08 D63 A22 Z05-H	✓	63	5	22	40	8.2	
SM43633	TK90 WNGX08 D80 A27 Z06-H	✓	80	6	27	50	8.2	
SM43640	TK90 WNGX08 D100 A32 Z08-H	✓	100	8	32	50	8.2	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D20 - D32	WNGX.. 0403..	SSV M2.5x6-9505	STK-T08-9908	1,0
D50 - D100	WNGX.. 0806..	SSV M5x13-9519	STK-T20-9911	5,5

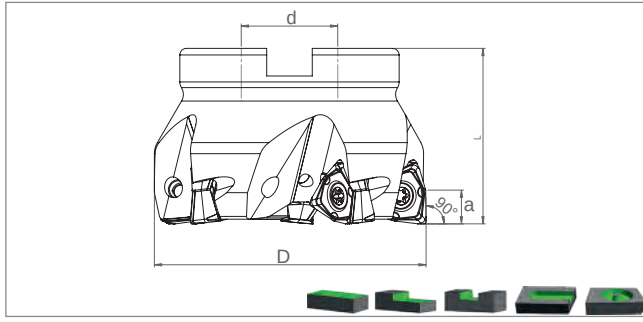


Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	<i>TK90 WNHU 0806..</i>		D	Z	d	L	a	
SM43572	TK90 WNHU08 D50 A22 Z04-H	✓	50	4	22	40	7.5	WNHU 0806..
SM43589	TK90 WNHU08 D63 A22 Z05-H	✓	63	5	22	40	7.5	
SM43596	TK90 WNHU08 D80 A27 Z06-H	✓	80	6	27	50	7.5	
SM43602	TK90 WNHU08 D100 A32 Z08-H	✓	100	8	32	50	7.5	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" içten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D50 - D100	WNHU.. 0806..	SSV M4x12x5- 9529	STK-T15- 9910	3,9



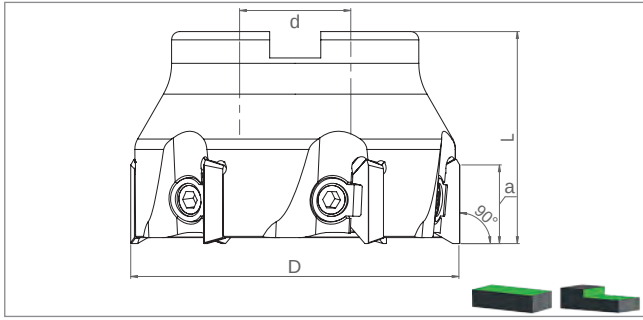


Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
	<i>TK90 WN.U 0705..</i>		<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM53427	TK90 WN07 D50 A22 Z04-H	✓	50	4	22	40	7	WN.U 0705..
SM53434	TK90 WN07 D63 A22 Z05-H	✓	63	5	22	40	7	
SM53441	TK90 WN07 D80 A27 Z07-H	✓	80	7	27	50	7	
SM53458	TK90 WN07 D100 A32 Z08-H	✓	100	8	32	50	7	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" içten su vermeli montaj vidaları için.



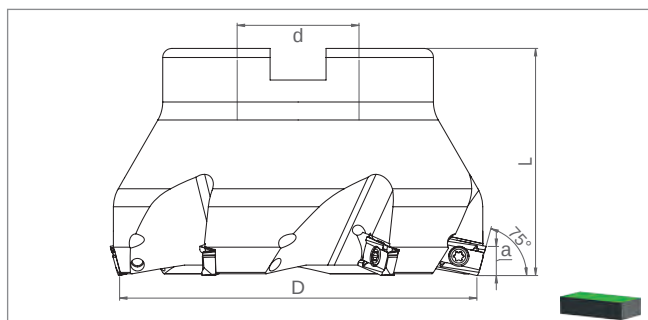
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D50 - D100	WN.U.. 0705..	SSV M4x12-9515	STK-T15-9910	3,9



Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
	TK90 TPKN 1603.. / 2204.. ISO		<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM32774	TK90P TP16 D63 A22 Z05	-	63	5	22	40	12	TPKN 1603.. ISO
SM32781	TK90P TP16 D80 A27 Z07	-	80	7	27	50	12	
SM32798	TK90P TP16 D100 A32 Z08	-	100	8	32	50	12	
SM32804	TK90P TP16 D125 B40 Z09	-	125	9	40	63	12	
SM32811	TK90P TP22 D63 A22 Z05	-	63	5	22	40	18	TPKN 2204.. ISO
SM32828	TK90P TP22 D80 A27 Z06	-	80	6	27	50	18	
SM32835	TK90P TP22 D100 A32 Z07	-	100	7	32	50	18	
SM32842	TK90P TP22 D125 B40 Z08	-	125	8	40	63	18	
SM32859	TK90P TP22 D160 C40 Z09	-	160	9	40	63	18	
SM32866	TK90P TP22 D200 C60 Z12	-	200	12	60	63	18	
SM32880	TK90P TP22 D315 D60 Z18	-	315	18	60	63	18	

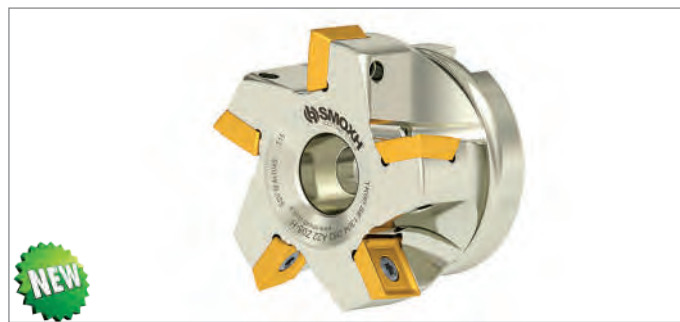
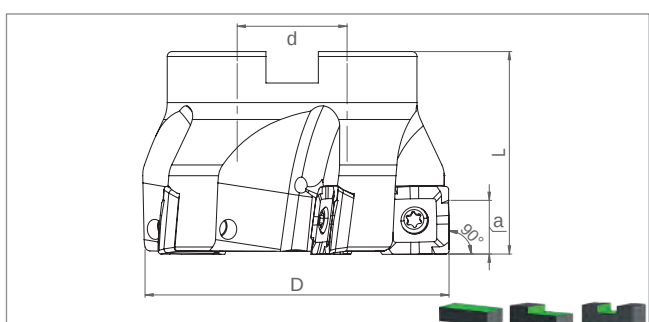


Size Designation	Master Insert*	Spare Parts		
		Clamp Part	Screw	Allen Key
D50 - D125	TPKN.. 1603..			
D63 - D315	TPKN. 2204..			
		TKBP 9116	TKSV M8x1x18 9227	SAK-AA5-9904



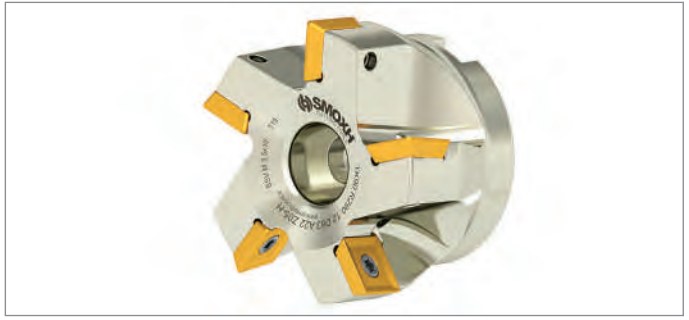
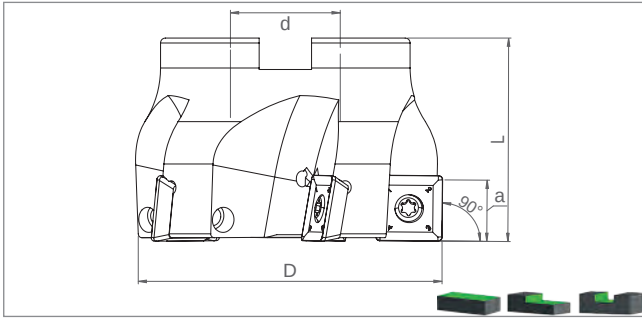
Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK75 APKT 1003../1604.. ISO		D	Z	d	L	a	
SM28913	TK75 AP10 D63 A22 Z05-H	✓	63	5	22	40	5	APKT 1003.. SUITABLE ISO INSERT
SM28906	TK75 AP10 D80 A27 Z06-H	✓	80	6	27	50	5	
SM28890	TK75 AP10 D100 A32 Z07-H	✓	100	7	32	50	5	
SM14626	TK75 AP16 D63 A22 Z05-H	✓	63	5	22	40	10	APKT 1604.. SUITABLE ISO INSERT
SM28876	TK75 AP16 D80 A27 Z06-H	✓	80	6	27	50	10	
SM28869	TK75 AP16 D100 A32 Z07-H	✓	100	7	32	50	10	
SM38431	TK75 AP16 D125 B40 Z08	-	125	8	40	63	10	

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D63 - D100	APKT 1003..	SSV M2.5x7- 9506	STK-T08- 9908	1,0
D63 - D125	APKT 1604..	SSV M4x9x5- 9528	STK-T15- 9910	2,7



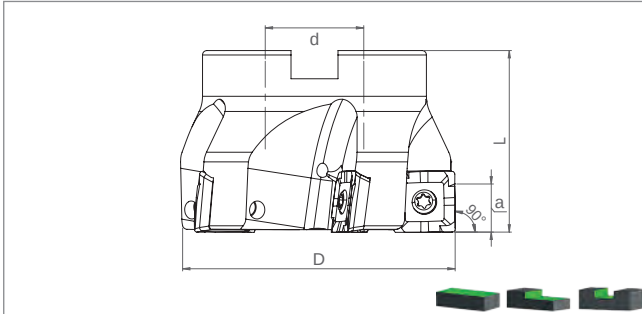
Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 SEMT 1304..		D	Z	d	L	a	
SM55247	TK90 SE1304 D50 A22 Z04-H	✓	50	4	22	40	11	SEMT 1304..
SM55254	TK90 SE1304 D63 A22 Z05-H	✓	63	5	22	40	11	
SM55261	TK90 SE1304 D80 A27 Z06-H	✓	80	6	27	50	11	

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D50 - D80	SEMT 1304..	SSV M4x9x5- 9528	STK-T15- 9910	3,9



Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
TK90 R290.12.. / SE..12T3			D	Z	d	L	a	
SM29026	TK90 R290.12 D50 A22 Z04-H	✓	50	4	22	40	12	R290.12..
SM29019	TK90 R290.12 D63 A22 Z05-H	✓	63	5	22	40	12	
SM29002	TK90 R290.12 D80 A27 Z07-H	✓	80	7	27	50	12	
SM28999	TK90 R290.12 D100 A32 Z09-H	✓	100	9	32	50	12	
SM14213	TK90 R290.12 D125 B40 Z11	-	125	11	40	63	12	

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
				N-m
D50 - D125	R290.12.. SE..12T3..	SSV M3.5x10-9511	STK-T15-9910	2,7



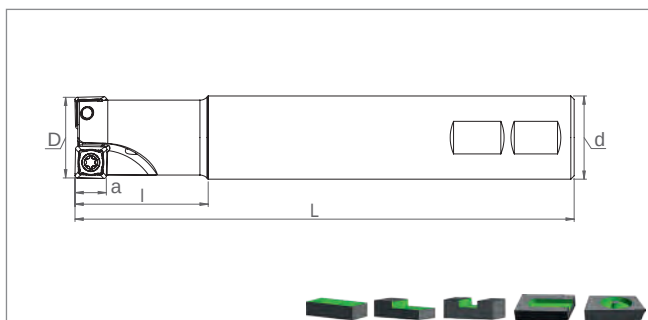
Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
TK90 SOMT 12T3..			D	Z	d	L	a	
SM32224	TK90 SO12 D50 A22 Z04-H	✓	50	4	22	40	11	SOMT 12T3..
SM32248	TK90 SO12 D63 A22 Z05-H	✓	63	5	22	40	11	
SM32262	TK90 SO12 D80 A27 Z07-H	✓	80	7	27	50	11	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

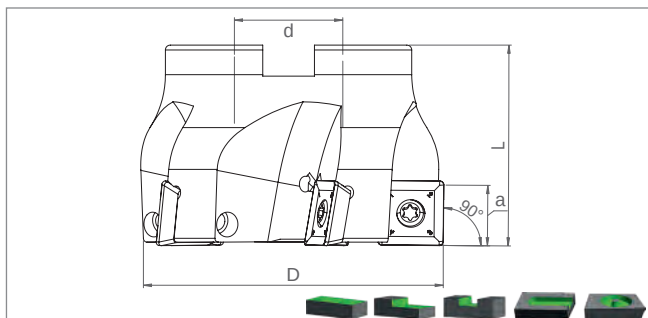
Size Designation	Master Insert**	Spare Parts		
		Screw	Torx Key	Screw Torque Value
				N-m
D50 - D80	SOMT 12T3..	SSV M4x9x5-9528	STK-T15-9910	3,9

*Suitable Insert brand is ZCC-CT / SNDV

**Suitable Insert brand is MTSBH



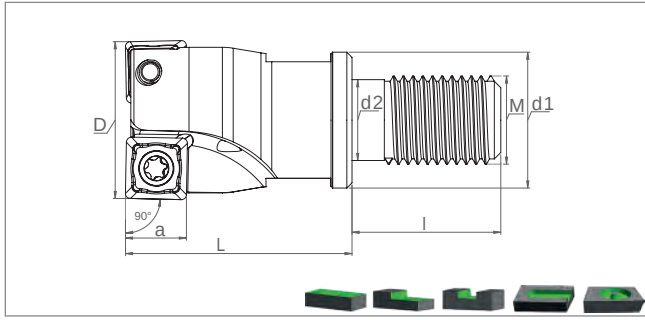
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 SDMT 09T3..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM56084	ST90 SD09T3 D25 W25 L150 Z02-H	✓	25	25	2	150	40	8.4	SDMT 09T3..
SM56169	ST90 SD09T3 D26 W25 L150 Z02-H	✓	26	25	2	150	30	8.4	
SM56305	ST90 SD09T3 D32 W32 L150 Z03-H	✓	32	32	3	150	40	8.4	
SM56312	ST90 SD09T3 D33 W32 L150 Z03-H	✓	33	32	3	150	30	8.4	



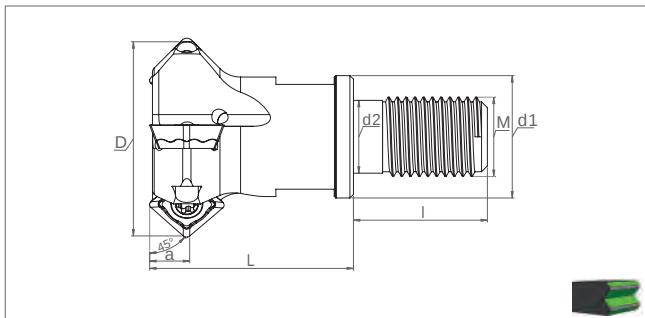
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>TK90 SDMT 09T3..</i>			<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>		
SM53472	TK90 SD09T3 D40 A16 Z04-H	✓	40	4	16	40	8.4	SDMT 09T3..	
SM53489	TK90 SD09T3 D50 A22 Z05-H	✓	50	5	22	40	8.4		
SM53496	TK90 SD09T3 D63 A22 Z06-H	✓	63	6	22	40	8.4		

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" içten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D25 - D63	SDMT 09T3..	SSV M3.5x8-SC-9513	STK-T10-9909	2,7

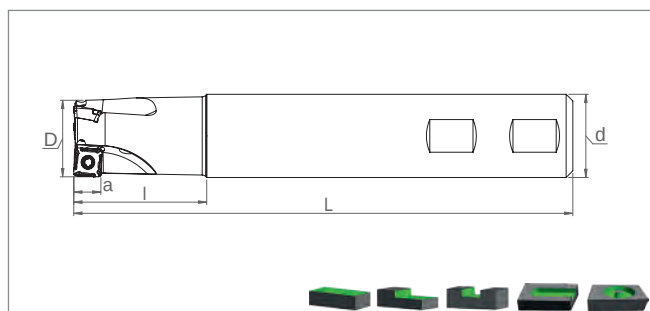


Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
<i>MT90 SDMT 09T3..</i>			<i>D</i>	<i>Z</i>	<i>d1</i>	<i>d2</i>	<i>L</i>	<i>l</i>	<i>M</i>	<i>a</i>	
SM56534	MT90 SD09T3 D25 M12 L35 Z02-H	✓	25	2	21	12.5	35	23	12	5.5	SDMT 09T3..
SM56541	MT90 SD09T3 D32 M16 L43 Z03-H	✓	32	3	29	17	43	23	16	5.5	

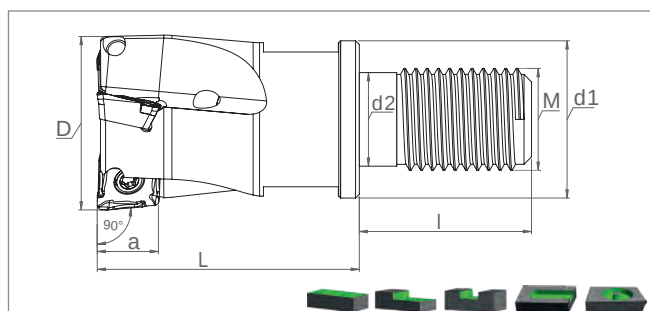


Ordering Code	Item Designation	Dimensions (mm)											Master Insert*
MT45 SDMT 09T3..			D2	D1	Z	d1	d2	L	I	M	a		
SM56503	MT45 SD09T3 D20 M10 L30 Z02-H	✓	20	32.8	2	18	10.5	30	19	10	5.5	SDMT 09T3..	
SM56510	MT45 SD09T3 D25 M12 L35 Z03-H	✓	25	37.8	3	21	12.5	35	23	12	5.5		
SM56527	MT45 SD09T3 D32 M16 L43 Z03-H	✓	32	44.8	3	29	17	43	23	16	5.5		

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D20 - D32	SDMT 09T3..	SSV M3.5x8-SC-9513	STK-T10-9909	2,7

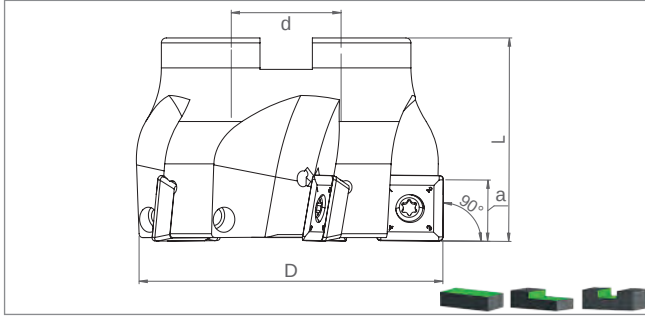


Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 490R-08..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM56640	ST90 490R-08 D20 W20 L150 Z02-H	✓	20	20	2	150	40	5.5	490R-08..
SM56657	ST90 490R-08 D25 W25 L150 Z03-H	✓	25	25	3	150	40	5.5	
SM56664	ST90 490R-08 D26 W25 L150 Z03-H	✓	26	25	3	150	30	5.5	
SM56671	ST90 490R-08 D32 W32 L150 Z04-H	✓	32	32	4	150	40	5.5	
SM56688	ST90 490R-08 D33 W32 L150 Z04-H	✓	33	32	4	150	30	5.5	



Ordering Code	Item Designation	Dimensions (mm)									Master Insert*
<i>MT90 490R-08..</i>			<i>D</i>	<i>Z</i>	<i>d1</i>	<i>d2</i>	<i>L</i>	<i>l</i>	<i>M</i>	<i>a</i>	
SM56695	MT90 490R-08 D20 M10 L30 Z02-H	✓	20	2	18	10.5	30	19	10	5.5	490R-08..
SM56701	MT90 490R-08 D25 M12 L35 Z03-H	✓	25	3	21	12.5	35	23	12	5.5	
SM56718	MT90 490R-08 D32 M16 L43 Z04-H	✓	32	4	29	17	43	23	16	5.5	

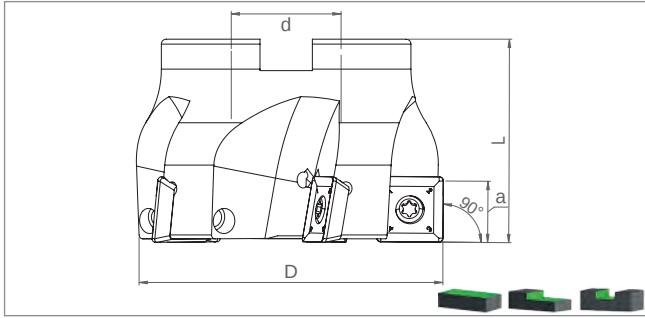
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D20 - D33	490R-08..**	SSV M2.5x7-9506	STK-T08-9908	1,0



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
TK90 490R-08.. / 490R-14			D	Z	d	L	a	
SM50303	TK90 490R-08 D40 A16 Z04-H	✓	40	4	16	40	5.5	490R-08..
SM50310	TK90 490R-08 D50 A22 Z05-H	✓	50	5	22	40	5.5	
SM50327	TK90 490R-08 D63 A22 Z06-H	✓	63	6	22	50	5.5	
SM32101	TK90 490R-14 D50 A22 Z04-H	✓	50	4	22	40	10.6	490R-14..
SM32118	TK90 490R-14 D63 A22 Z05-H	✓	63	5	22	40	10.6	
SM32132	TK90 490R-14 D80 A27 Z07-H	✓	80	7	27	50	10.6	
SM58484	TK90 490R-14 D80 A27 Z08-H	✓	80	8	27	50	10.6	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D50 - D63	490R-08..**	SSV M2.5x7-9506	STK-T08-9908	1,0
D50 - D80	490R-14..**	SSV M3.5x10-9511	STK-T15-9910	2,7



Ordering Code	Item Designation		Dimensions (mm)					Master Insert***
TK90 SDMT 1506..			D	Z	d	L	a	
SM00609	TK90 SDMT15 D50 A22 Z04-H	✓	50	4	22	40	12	SDMT 1506..
SM00616	TK90 SDMT15 D63 A22 Z05-H	✓	63	5	22	40	12	
SM00623	TK90 SDMT15 D80 A27 Z06-H	✓	80	6	27	50	12	
SM00630	TK90 SDMT15 D100 A32 Z08-H	✓	100	8	32	50	12	
SM00647	TK90 SDMT15 D125 B40 Z09	-	125	9	40	63	12	

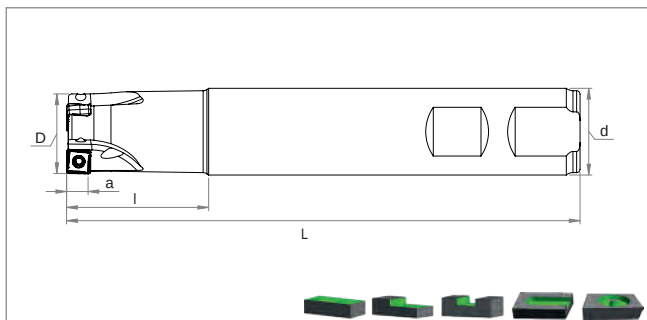
Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert***	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D50 - D125	SDMT 1506..	SSV M4.5x11 9518	STK-T20-9911	4,7

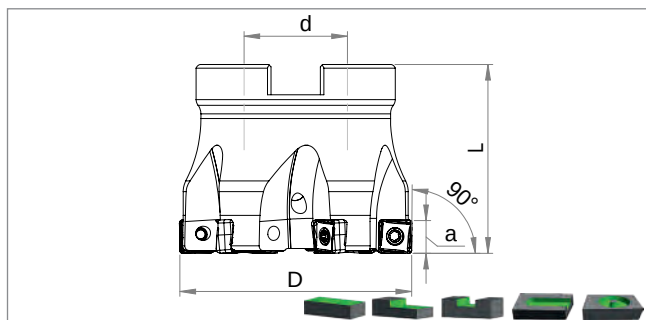
*Suitable Insert brand is SNDVK

**Body corners should be modified for R2 and more radius inserts / R2 ve üstü radyüslü uçlarda takımın modifiye edilmesi gerekmektedir. ■

***Suitable Insert brand is WDA



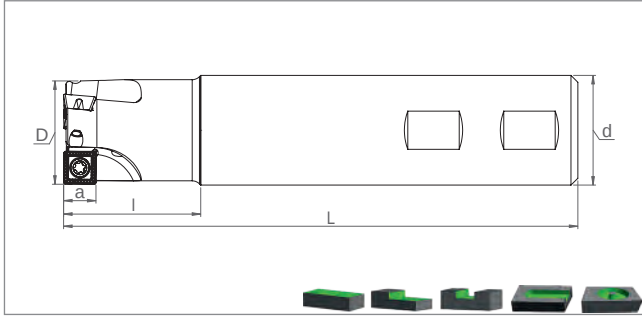
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 SQKU 0703..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM71247	ST90 SQ07 D16 W16 L150 Z02-H	✓	16	16	2	150	40	5	SQKU 0703..
SM71254	ST90 SQ07 D20 W20 L150 Z02-H	✓	20	20	2	150	40	5	
SM71261	ST90 SQ07 D25 W25 L150 Z03-H	✓	25	25	3	150	40	5	
SM71278	ST90 SQ07 D32 W32 L150 Z04-H	✓	32	32	4	150	40	5	



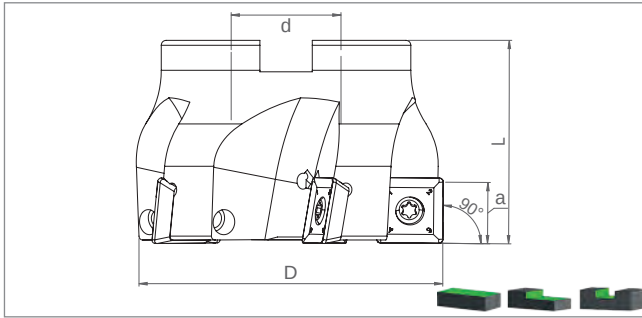
Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
<i>TK90 SQKU 0703..</i>			<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM71285	TK90 SQ07 D40 A16 Z06-H	✓	40	6	16	40	5	SQKU 0703..
SM71292	TK90 SQ07 D50 A22 Z06-H	✓	50	6	22	40	5	
SM71308	TK90 SQ07 D63 A22 Z07-H	✓	63	7	22	40	5	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N.m
D16 - D63	SQKU 0703..	SSV M2.5x7-9506	STK-T08-9908	1,0



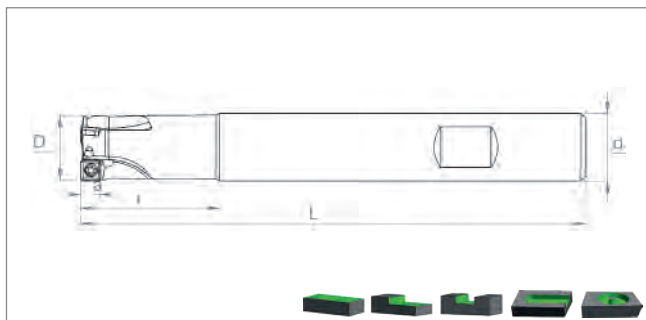
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST90 SD.T 09M4..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM59054	ST90 SD09M4 D25 W25 L150 Z02-H	✓	25	25	2	150	40	7	SD.T 09M4..
SM59061	ST90 SD09M4 D32 W32 L150 Z03-H	✓	32	32	3	150	40	7	
SM59078	ST90 SD09M4 D35 W32 L150 Z03-H	✓	35	32	3	150	30	7	



Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>TK90 SD.T 09M4.. / 1305..</i>			<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>		
SM54530	TK90 SD09M4 D40 A16 Z04-H	✓	40	4	16	40	7	SD.T 09M4..	
SM54547	TK90 SD09M4 D50 A22 Z05-H	✓	50	5	22	40	7		
SM54554	TK90 SD09M4 D63 A22 Z06-H	✓	63	6	22	40	7		
SM56855	TK90 SD1305 D50 A22 Z04-H	✓	50	4	22	40	11	SD.T 1305..	
SM56862	TK90 SD1305 D63 A22 Z05-H	✓	63	5	22	40	11		
SM56879	TK90 SD1305 D80 A27 Z06-H	✓	80	6	27	50	11		
SM56886	TK90 SD1305 D100 A32 Z07-H	✓	100	7	32	50	11		

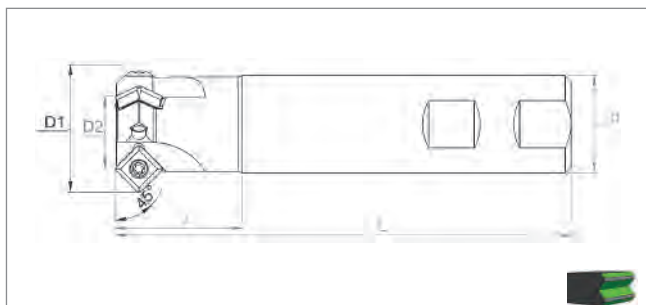
Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D25 - D63	SD.T 09M4..	SSV M3.5x8- 9510	STK-T15- 9910	2,7
D50 - D100	SD.T 1305..	SSV M4.5x11- 9518	STK-T20- 9911	4,7



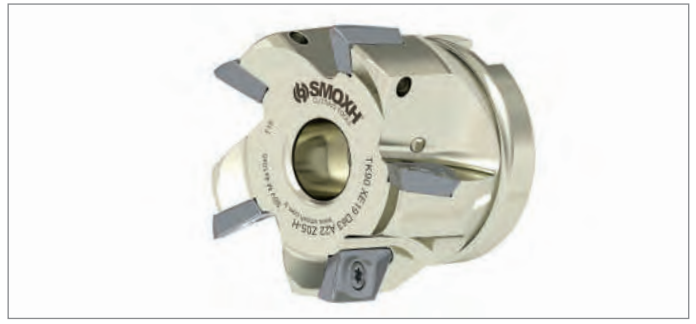
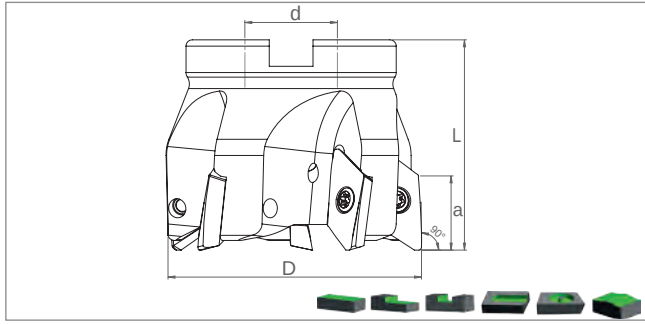
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
ST90 SPMG 0602.. / 07T3.. / 0904..			D	d	Z	L	l	a	
SM36901	ST90 SP06 D17 W16 L150 Z02	-	17	16	2	150	30	6	SPMG 060204
SM36918	ST90 SP06 D20 W20 L150 Z03	-	20	20	3	150	40	6	
SM63563	ST90 SP07 D19.5 W20 I30 L120 Z02	-	19.5	20	2	120	30	7	SPMG 07T308
SM36925	ST90 SP07 D22 W20 L150 Z03	-	22	20	3	150	30	7	
SM36949	ST90 SP07 D25 W25 L150 Z03	-	25	25	3	150	40	7	
SM36956	ST90 SP07 D26 W25 L150 Z03	-	26	25	3	150	30	7	
SM36970	ST90 SP09 D32 W32 L150 Z03	-	32	32	3	150	40	9	SPMG 090408
SM36987	ST90 SP09 D33 W32 L150 Z03	-	33	32	3	150	30	9	

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D17 - D20	SPMG 060204	SSV M2.2x5- 9503	STK-T06- 9906	0,4
D19.5 - D26	SPMG 07T308	SSV M2.5x6- 9505	STK-T08- 9908	1,0
D32 - D33	SPMG 090408	SSV M3.5x8- 9510	STK-T15- 9910	5,5



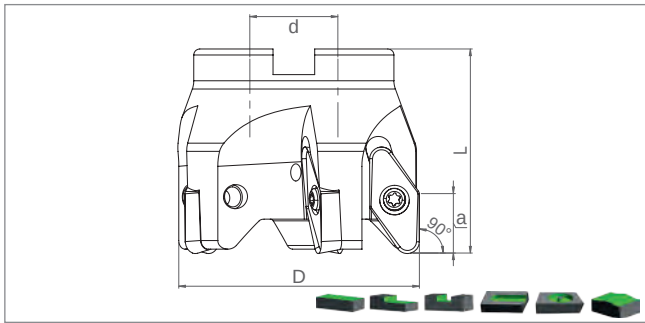
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
HF45 SPMG 0904.. / 1104.. CHAMFERING TOOLS		D1° D2°	D2	D1	L	d	Z	l	
SM15555	HF45 SP09 D11-25 W20 L150 Z01	45°	11	25	150	20	1	30	SPMG 0904..
SM15562	HF45 SP11 D24-38 W25 L150 Z02	45°	24	38	150	25	2	35	
SM15579	HF45 SP11 D31-45 W32 L150 Z03	45°	31	45	150	32	3	40	SPMG 1104..

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D11-25	SPMG 0904..	SSV M3.5x10- 9511	STK-T15- 9910	2,7
D24-38 - D31-45	SPMG 1104	SSV M4x10- 9514		3,9



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 XEKT-MA 19M5..		D	Z	d	L	a	
SM55346	TK90 XE19 D40 A16 Z03-H	✓	40	3	16	45	17	XEKT-MA 19M5..
SM55353	TK90 XE19 D50 A22 Z04-H	✓	50	4	22	50	17	
SM55360	TK90 XE19 D63 A22 Z05-H	✓	63	5	22	50	17	

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D40 - D63	XEKT-MA 19M5**	SSV M4x10- 9514	STK-T15- 9910	3,9



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 VCGT 1604../2205..		D	Z	d	L	a	
SM33849	TK90 VC16 D40 A16 Z03-H	✓	40	3	16	40	11	VCGT 1604..
SM33863	TK90 VC16 D50 A22 Z04-H	✓	50	4	22	40	11	
SM33887	TK90 VC16 D63 A22 Z05-H	✓	63	5	22	40	11	
SM33900	TK90 VC16 D80 A27 Z05-H	✓	80	5	27	50	11	
SM33924	TK90 VC22 D50 A22 Z04-H	✓	50	4	22	50	14	VCGT 2205..
SM33931	TK90 VC22 D63 A22 Z05-H	✓	63	5	22	50	14	
SM33979	TK90 VC22 D80 A27 Z05-H	✓	80	5	27	50	14	

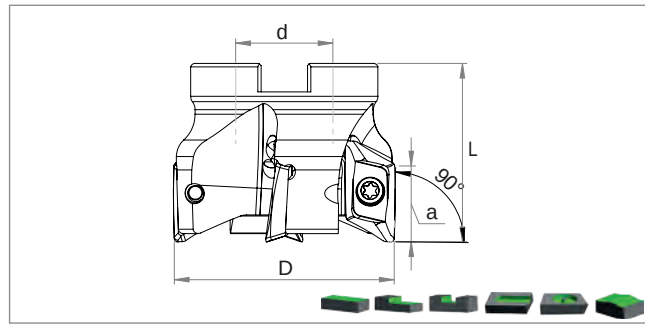
Size Designation	Master Insert***	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D40 - D80	VCGT 1604..	SSV M3.5x10- 9511	STK-T15- 9910	2,7
D50 - D80	VCGT 2205..****	SSV M5x13- 9519	STK-T20- 9911	5,5

*Suitable Insert brand is KRL Y

**Body corners should be modified for R0.4-3.2 and more radius inserts / R0.4-3.2 ve üstü radyüslü uçlarda takımın modifiye edilmesi gerekmektedir. ■

***Suitable Insert brand is ISO

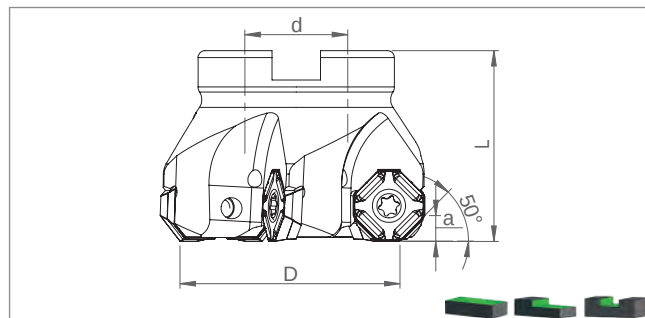
****Suitable Insert brand is CRT Z



Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
	TK90 XEVT 1605..-2206..		D	Z	d	L	a	
SM71384	TK90 XE16 D50 A22 Z04-H	✓	50	4	22	50	16	XEVT 1606..
SM71391	TK90 XE16 D63 A22 Z05-H	✓	63	5	22	50	16	
SM71407	TK90 XE16 D80 A27 Z06-H	✓	80	6	27	50	16	
SM71414	TK90 XE22 D50 A22 Z03-H	✓	50	3	22	55	21	XEVT 2206..
SM71421	TK90 XE22 D63 A22 Z04-H	✓	63	4	22	55	21	
SM71438	TK90 XE22 D80 A27 Z05-H	✓	80	5	27	55	21	

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D50 - D80	XEVT 1606..	SSV M4x10- 9514	STK-T15- 9910	3,9
D50 - D80	XEVT 2206..	SSV M5x13- 9519	STK-T20- 9911	5,5

**Body corners should be modified for R0.4-3.2 and more radius inserts / R0.4-3.2 ve üstü radyüslü uçlarda takımın modifiye edilmesi gerekmektedir. ■

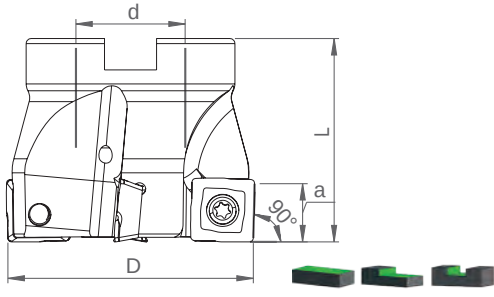


Ordering Code	Item Designation	Dimensions (mm)						Master Insert**
	TK50 SYHU 0704..		D	Z	d	L	a	
SM46856	TK50 SY07 D50 A22 Z05-H	✓	50	5	22	40	4.6	SYHU 0704..
SM46863	TK50 SY07 D63 A22 Z06-H	✓	63	6	22	40	4.6	
SM46870	TK50 SY07 D80 A27 Z07-H	✓	80	7	27	50	4.6	
SM46887	TK50 SY07 D100 A32 Z08-H	✓	100	8	32	50	4.6	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

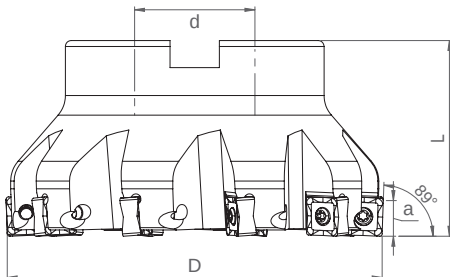
Size Designation	Master Insert**	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D50 - D100	SYHU 0704..	SSV M4x12- 9515	STK-T15- 9910	3,9

*Suitable Insert brand is TGTC
**Suitable Insert brand is ISC



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 SDMT 1205..		D	Z	d	L	a	
SM47013	TK90 SDMT12 D50 A22 Z04-H	✓	50	4	22	40	10	SDMT 1205..
SM47020	TK90 SDMT12 D63 A22 Z05-H	✓	63	5	22	40	10	
SM47037	TK90 SDMT12 D80 A27 Z06-H	✓	80	6	27	50	10	
SM47044	TK90 SDMT12 D100 A32 Z08-H	✓	100	8	32	50	10	
SM47051	TK90 SDMT12 D125 B40 Z09	-	125	9	40	63	10	

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D50 - D125	SDMT 1205..	 SSV M4x12-9515	 STK-T15-9910	 N-m 3,9



Ordering Code		Item Designation	Dimensions (mm)							Master Insert**
Direction		TK89 SN.. 1206..		D	Z	d	L	a		
Right	Left									
SM00562	-	TK89 SN12 D50 A22 ZO4-H		50	4	22	40	10	SN.. 1206..	
SM28593	SM49659	TK89 SN12 D63 A22 ZO6-H		63	6	22	40	10		
SM28586	SM49666	TK89 SN12 D80 A27 ZO7-H		80	7	27	50	10		
SM28579	-	TK89 SN12 D100 A32 ZO9-H		100	9	32	50	10		
SM14619	-	TK89 SN12 D125 B40 Z10	-	125	10	40	63	10		
SM14602	-	TK89 SN12 D160 C40 Z11	-	160	11	40	63	10		
SM25271	-	TK89 SN12 D200 C60 Z14	-	200	14	60	63	10		

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

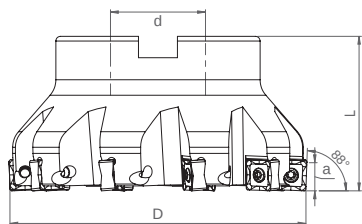
Size Designation	Master Insert**	Spare Parts		
		Screw***	Torx Key	Screw Torque Value
D50 - D63	SN.. 1206..	 SSV M4x12-9515	 STK-T15-9910	 N-m 3,9
D80 - D200		 SSV M4x14-9516		

*Suitable Insert brand is PRMT

**Suitable Insert brand is ISO

***Use SSV M4x12x6-9517 screws for SNMX1205-WLTR brand inserts (Stock Code: SM29934)

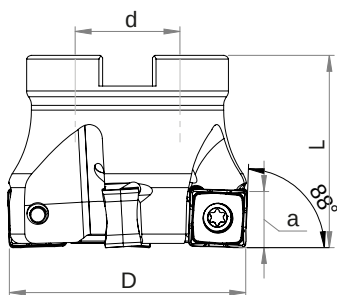
SNMX1205-WLTR marka uçlar için SSV M4x12x6-9517 civata kullanınız (Stok Kodu: SM29934)



Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
TK88 SNMU 1305..			D	Z	d	L	a	
SM53137	TK88 SN1305 D50 A22 Z04-H	✓	50	4	22	40	5	SNMU 1305..
SM53144	TK88 SN1305 D50 A22 Z05-H	✓	50	5	22	40	5	
SM53151	TK88 SN1305 D63 A22 Z05-H	✓	63	5	22	40	5	
SM53168	TK88 SN1305 D63 A22 Z06-H	✓	63	6	22	40	5	
SM53175	TK88 SN1305 D80 A27 Z07-H	✓	80	7	27	50	5	
SM53182	TK88 SN1305 D80 A27 Z09-H	✓	80	9	27	50	5	
SM53199	TK88 SN1305 D100 A32 Z09-H	✓	100	9	32	50	5	
SM53205	TK88 SN1305 D100 A32 Z11-H	✓	100	11	32	50	5	
SM53212	TK88 SN1305 D125 B40 Z11	-	125	11	40	63	5	
SM53229	TK88 SN1305 D160 C40 Z13	-	160	13	40	63	5	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

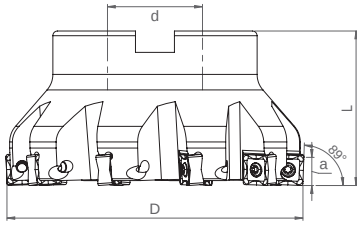
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D50 - D160	SNMU 1305..	SSV M4x12x5- 9529	STK-T15- 9910	3,9



Ordering Code	Item Designation	Dimensions (mm)						Master Insert**
TK88 SNMU 1206..			D	Z	d	L	a	
SM71773	TK88 SNMU12 D50 A22 Z05-H	✓	50	5	22	40	9.5	SNMU 1206..
SM71780	TK88 SNMU12 D63 A22 Z06-H	✓	63	6	22	40	9.5	
SM71797	TK88 SNMU12 D80 A27 Z07-H	✓	80	7	27	50	9.5	

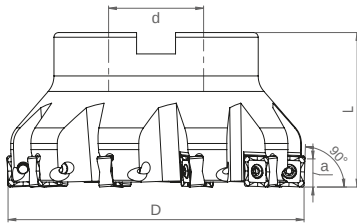
Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert**	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D50 - D63	SNMU 1206..	SSV M4x12- 9515	STK-T15- 9910	3,9



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK89 SNMU 1305..PNTR		D	Z	d	L	a	
SM53359	TK89 SN13 D50 A22 Z04-H	✓	50	4	22	40	9	SNMU 1305.. PNTR
SM53366	TK89 SN13 D50 A22 Z05-H	✓	50	5	22	40	9	
SM53373	TK89 SN13 D63 A22 Z05-H	✓	63	5	22	40	9	
SM01668	TK89 SN13 D63 A22 Z07-H	✓	63	7	22	40	9	
SM53380	TK89 SN13 D80 A27 Z07-H	✓	80	7	27	50	9	
SM53397	TK89 SN13 D80 A27 Z09-H	✓	80	9	27	50	9	
SM53403	TK89 SN13 D100 A32 Z09-H	✓	100	9	32	50	9	
SM53410	TK89 SN13 D125 B40 Z11	-	125	11	40	63	9	

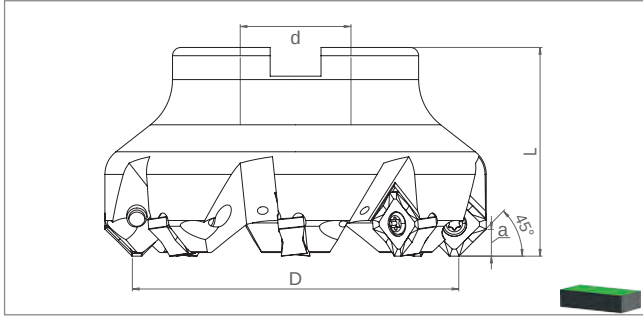
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D50 - D125	SNMU 1305..	 SSV M4x12x6-9517	 STK-T15-9910	 N-m 3,9



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK90 SZMU 0804..		D	Z	d	L	a	
SM61378	TK90 SZ08 D40 A16 Z05-H	✓	40	5	16	40	5	SZMU 0804..
SM61385	TK90 SZ08 D50 A22 Z06-H	✓	50	6	22	40	5	
SM61392	TK90 SZ08 D63 A22 Z07-H	✓	63	7	22	40	5	
SM61408	TK90 SZ08 D80 A27 Z08-H	✓	80	8	27	50	5	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D50 - D80	SZMU 0804..	 SSV M3x7-9527	 STK-T08-9908	 N-m 1,0

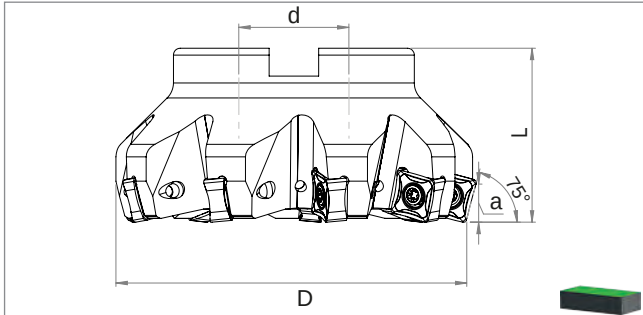


Ordering Code		Item Designation	Dimensions (mm)						Master Insert*
Direction		TK45 SN.. 1206..		D	Z	d	L	a	
Right	Left								
SM29071	SM49628	TK45 SN12 D50 A22 Z05-H	✓	50	5	22	40	6	SN.. 1206..
SM29064	SM49635	TK45 SN12 D63 A22 Z07-H	✓	63	7	22	40	6	
SM29040	SM49642	TK45 SN12 D80 A27 Z08-H	✓	80	8	27	50	6	
SM29033	-	TK45 SN12 D100 A32 Z10-H	✓	100	10	32	50	6	
SM62252	-	TK45 SN12 D125 A40 Z11-H	✓	125	11	40	63	6	
SM14862	-	TK45 SN12 D125 B40 Z11	-	125	11	40	63	6	
SM14879	-	TK45 SN12 D160 C40 Z12	-	160	12	40	63	6	
SM25226	-	TK45 SN12 D200 C60 Z14	-	200	14	60	63	6	
SM38424	-	TK45 SN12 D315 D60 Z20	-	315	20	60	63	6	

Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.



Milling Tools



Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
TK75 SN.. 1206..			D	Z	d	L	a	
SM70509	TK75 SN12 D50 A22 Z05-H	✓	50	5	22	40	8	SN.. 1206..
SM70516	TK75 SN12 D63 A22 Z06-H	✓	63	6	22	40	8	
SM70523	TK75 SN12 D80 A27 Z07-H	✓	80	7	27	50	8	
SM62269	TK75 SN12 D100 A32 Z09-H	✓	100	9	32	50	8	
SM62276	TK75 SN12 D125 A40 Z10-H	✓	125	10	40	63	8	

Size Designation	Master Insert*	Spare Parts		
		Screw ** 	Torx Key 	Screw Torque Value N-m
D50 - D63	SN.. 1206..	SSV M4x12-9515	STK-T15-9910	3,9
D80 - D315		SSV M4x14-9516		

*Suitable Insert brand is ISO

**Use SSV M4x12x6-9517 screws for SNMX1205-WLTR brand inserts (Stock Code: SM29934)
SNMX1205-WLTR marka uçlar için SSV M4x12x6-9517 civata kullanınız (Stok Kodu: SM29934)