



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

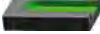
Frézy 45° a kopírovacie



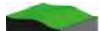
F

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

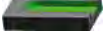
Insert			APKT 1003.. ISO	APKT 1604.. ISO	APMT 0602.. KRLY	APMT 11T3.. KRLY	APMT 1135.. YG-1	APKT 09T3.. TGTC
								
Page			F248-251	F252-F253	F254	F254-F255	F256-F257	F258-F259
Dimeter Range (mm)			Ø12-125	Ø25-200	Ø10-123	Ø16-80	Ø16-80	Ø16-20
Approach Angle			90°	90°	90°	90°	90°	90°
Max. Cutting Depth			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		-	-	-	-	-	-	-

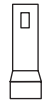
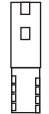
Insert			AS.T 11T3.. TNGLY	BD.T 0703.. KYCR	BD.T 11T3.. KYCR	BD.T 1704.. KYCR	AXMT 1235.. SMTM	AXMT 1705.. SMTM
Page			F264-F265	F266	F266-F267	F266-F267	F268-F269	F268-F269
Dimeter Range (mm)			Ø16-63	Ø10-12	Ø16-100	Ø25-100	Ø16-80	Ø25-100
Approach Angle			90°	90°	90°	90°	90°	90°
Max. Cutting Depth			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		-	-	-	-	-	-

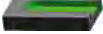
Insert			ADMX 0702.. PRMT	ADMX 11T3.. PRMT	ADMX 1606.. PRMT	ADKT 1505..	APMT 1135.. ACHTK	ADMT 0803.. WLTR	ADMT 10T3.. WLTR
Page			F270	F270	F270	F272-F273	F271	F274-F275	F274-F275
Dimeter Range (mm)			Ø10-12	Ø20-63	Ø25-80	Ø25-125	Ø16-33	Ø16-25	Ø16-63
Approach Angle			90°	90°	90°	90°	90°	90°	90°
Max. 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		-	-	-	-	-	-	-

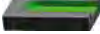
Insert			ADKT 1204.. WLTR	ADMT 1606.. WLTR	RT 0703.. SAFETY	RT 1003.. SAFETY	RT 1606.. SAFETY	XOMX 0602.. SCO
								
Page			F274-F275	F275	F276	F276-F277	F276-F277	F278
Dimeter Range (mm)			Ø20-80	Ø50-80	Ø10-14	Ø16-63	Ø25-100	Ø10-20
Approach Angle			90°	90°	90°	90°	90°	90°
Max. Cutting Depth			11.7mm	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		-	-	-	-	-	-

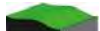
Insert			XOMX 10T3.. SCO	XOMX 1204.. SCO	XOMX 1806.. SCO	EDPT 10T3.. KNMTL	EDPT 1404.. KNMTL	AOMT 1236.. MTSBH
Page			F278-F279	F278-F279	F279	F280-F281	F280-F281	F282
Dimeter Range (mm)			Ø16-63	Ø20-125	Ø50-125	Ø16-63	Ø20-80	Ø16-100
Approach Angle			90°	90°	90°	90°	90°	90°
Max. Cutting Depth			9mm	11mm	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		-	-	-	-	-	-

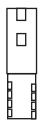
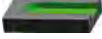
Insert			XDKT 0703.. CRTZ	XDKT 11T3.. CRTZ	AXMT 0602.. TGTC	APKT 0602.. LMN	AOMT 0702.. TNGLY	AVMT 0402.. TNGLY
								
Page			F283	F283	F284	F284	F285	F285
Dimeter Range (mm)			Ø12-17	Ø16-26	Ø10-16	Ø10-13	Ø12-22	Ø16-33
Approach Angle			90°	90°	90°	90°	90°	90°
Max. Cutting Depth			7mm	11mm	5.75mm	5.5mm	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		-	-	-	-	-	-

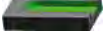
Insert			LNHU 0904.. WLTR	LNMT 1306.. WLTR	LNMT 0804..	LNMT 1306..	LOEX 0804.. SCO	LP.U 0904.. SCO	LNHU 1306.. ACHTK
Page									
Dimeter Range (mm)			Ø20-80	Ø40-100	Ø16-80	Ø32-125	Ø20-63	Ø20-63	Ø50-100
Approach Angle			90°	90°	90°	90°	90°	90°	90°
Max. Cutting Depth			8mm	12mm	8mm	12.5mm	8mm	8.3mm	12mm
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		-	-	-	-	-	-	-

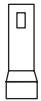
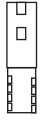
Insert			LOGU 0904.. MTSBH	LNMU 1107.. TNGLY	LN.. 1106.. T490	LNKT 1506.. ZCC	LNKT 1707.. KRLY	AN.X 0904..	AN.X 1205..
Page			F294	F293	F296	F297	F297	F298-F299	F298-F299
Dimeter Range (mm)			Ø16-80	Ø32-80	Ø25-80	Ø50-125	Ø50-100	Ø16-63	Ø50-100
Approach Angle			90°	90°	90°	90°	90°	90°	90°
Max. Cutting 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		-	-	-	-	-	-	-

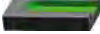
Insert			AN.X 1706..	LN.X 1006.. KRLY	LN.X 1510.. KRLY	LOMU 1004.. KYCR	LOMU 1505.. KYCR	ANGX 1105.. ZCC
Page			F299	F300-F301	F300-F301	F302-F303	F302-F303	F304
Dimeter Range (mm)			Ø50-125	Ø16-63	Ø32-160	Ø16-63	Ø40-100	Ø25-63
Approach Angle			90°	90°	90°	90°	90°	90°
Max. Cutting Depth			16.3mm	9mm	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		-	-	-	-	-	-

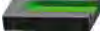
Insert			ANGX 1506.. ZCC	LQMU 1107.. TNGLY	LNGX 1205.. PRMT	LNGU 15T.. KNMTL	XNPU 15T6.. WDA	AN.X 1607.. TGTC	LNGX 1307.. WLTR
									
Page			F304	F305	F306	F308	F308	F307	F309
Dimeter Range (mm)			Ø50-100	Ø25-63	Ø25-100	Ø40-100	Ø40-100	Ø50-100	Ø50-125
Approach Angle			90°	90°	90°	90°	90°	90°	90°
Max. 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		-	-	-	-	-	-	-

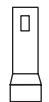
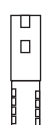
Insert			TN.X 1005..	TP.T 1003..	TPKT 1103.. YG-1	TPKT 1605.. YG-1	6NGU 0604.. TGTC	6NGU 0905.. TGTC	6NKU 0403.. TGTC	TNGX 1004.. PRMT
Page			F316	F317	F318	F319	F320	F320	F322	F317
Dimeter Range (mm)			Ø20-63	Ø25-80	Ø20-26	Ø50-125	Ø25-32	Ø50-80	Ø20-32	Ø20-63
Approach Angle			90°	90°	90°	90°	90°	90°	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		-	-	-	-	-	-	-	-

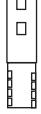
Insert			TOMT 0603.. TNGLY	TOMT 1004.. TNGLY	TOMT 1506.. TNGLY	TOMT 0605.. KYCR	TNMX 1806.. TGTC	WNMU 0504.. KYCR	WNMU 0806.. KYCR	XNEX 0403.. SCO
										
Page			F321	F321	F321	F324	F329	F327	F327	F328
Dimeter Range (mm)			Ø16-25	Ø25-63	Ø50-125	Ø20-63	Ø63-100	Ø25-63	Ø50-125	Ø17-33
Approach Angle			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		-	-	-	-	-	-	-	-

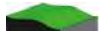
Insert			XNEX 0806.. SCO	WNEX 0806.. YG-1	WNGX 0403.. KRLY	WNGX 0806.. KRLY	WNHU 0806.. ZCC	WNGU 0403.. ACHTECK	WNHU 0806.. ACHTECK	WN.U 0705..
										
Page			F328	F325	F330	F330	F331	F326	F326	F332
Dimeter Range (mm)			Ø50-160	Ø50-100	Ø20-32	Ø50-100	Ø50-100	Ø17-63	Ø50-100	Ø50-100
Approach Angle			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		-	-	-	-	-	-	-	-

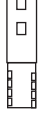
Insert			SDMT 09T3.. WLTR	490R-08.. SNDVK	490R-14.. SNDVK	SDMT 1506.. WDA	SQKU 0703.. TGTC	SD.T 09M4.. KRLY	SD.T 1305.. KRLY
									
Page			F336	F338	F338	F339	F340	F341	F341
Dimeter Range (mm)			Ø20-32	Ø20-63	Ø50-80	Ø50-125	Ø16-63	Ø25-63	Ø50-100
Approach Angle			45°	90°	90°	90°	90°	90°	90°
Max. Cutting 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		-	-	-	-	-	-	-

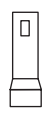
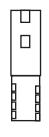
Insert			SYHU 0704..	SDMT 1205.. PRMT	SN.. 1206.. ISO	SNMU 1305.. KYCR	SNMU 1305.. PNTR	SN.. 1206.. ISO	SN.. 1206.. ISO
									
Page			F344	F345	F345	F346	F347	F348	F348
Dimeter Range (mm)			Ø50-100	Ø50-125	Ø50-200	Ø50-160	Ø50-125	Ø50-315	Ø50-125
Approach Angle			50°	90°	89°	88°	89°	45°	75°
Max. Cutting 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		-	-	-	-	-	-	-

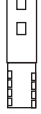
Insert			SEET 12T3 ZCC	SNMU 1305..	SEMT 13T3 MTSBH	R345-13.. SNDVK	SNMT 1205.. PRMT	SEET 0903 KRLY	SE.T 12T3 YG-1	SEMT 13T3AG YG-1
										
Page			F349	F350	F353	F351	F351	F352	F356	F356
Dimeter Range (mm)			Ø50-160	Ø50-100	Ø50-80	Ø50-100	Ø50-160	Ø25-80	Ø50-100	Ø50-100
Approach Angle			45°	45°	45°	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		-	-	-	-	-	-	-	-

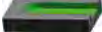
Insert			SE.. 14M4 KRLY	SNMU 1307.. TNGLY	ONMU 0507.. TNGLY	RNMU 1307.. TNGLY	SNMU 1206.. TNGLY	SNEG 1306.. ZCC	SZMU 0804.. ISC	SN.X 1306.. TGTC
										
Page			F352	F354	F354	F364	F346	F355	F347	F355
Dimeter Range (mm)			Ø50-125	Ø63-125	Ø63-125	Ø63-125	Ø50-80	Ø50-160	Ø40-80	Ø50-80
Approach Angle			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		-	-	-	-	-	-	-	-

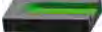
Insert			SPKN 1203.. ISO	SNGN 1204.. KYCR	XN MU 0605.. TGTC	XN MU 0906.. TGTC	HNKX 0604.. LMN	HXKU 0604.. TGTC	ON.X 0505..
									
Page			F357	F357	F358	F358	F359	F359	F350
Dimeter Range (mm)			Ø50-315	Ø63-100	Ø50-80	Ø63-125	Ø50-80	Ø50-100	Ø50-100
Approach Angle			75°	88°	45°	45°	45°	45°	45°
Max. Cutting 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		-	-	-	-	-	-	-

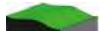
Insert			ON.X 0606.. KRLY	PNMU 1205.. KYCR	PNMU 0905.. KYCR	PNMU 1206.. YG-1	ON.X 0806.. ISO	ONHU 0604.. ZCC	ONHU 08T6.. ZCC
									
Page			F359	F360	F360	F361	F361	F363	F363
Dimeter Range (mm)			Ø63-125	Ø63-125	Ø50-125	Ø50-160	Ø63-200	Ø63-100	Ø63-100
Approach Angle			45°	45°	66°	45°	45°	45°	45°
Max. 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		-	-	-	-	-	-	-

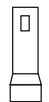
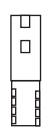
Insert			HN.J 0604.. KNMTL	HN.J 0704.. WDA	HN.J 0905.. KNMTL/ WDA	HNGX 0604.. PRMT	HNGX 0906.. PRMT	ONMU 0504.. SCO	XNMU 0705.. ACHTEK	XNMU 0906.. ACHTEK
										
Page			F362	F362	F362	F363	F363	F364	F364	F364
Dimeter Range (mm)			Ø50-80	Ø50-80	Ø50-160	Ø50-100	Ø63-160	Ø50-100	Ø50-100	Ø63-100
Approach 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	OFER 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		✓	✓	✓	✓	✓	✓	✓

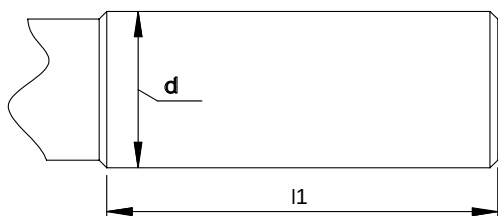
Insert			RD.. 1204 ISO	RPMT 1204 ACHTEK	RPMT 10T3 MTSBH	RPMT 1204 MTSBH	RYMX 1004 TGTC	RYMX 1205 TGTC	RPMT 10T3 KYCR	RPMT 1204 KYCR	RPMT 1605 KYCR
											
Page			G372-G377	G368	G378	G378	G371	G371	G380-G381	G380-G381	G381
Dimeter Range (mm)			Ø25-100	Ø26-63	Ø25-100	Ø25-100	Ø21-63	Ø32-100	Ø25-63	Ø32-80	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

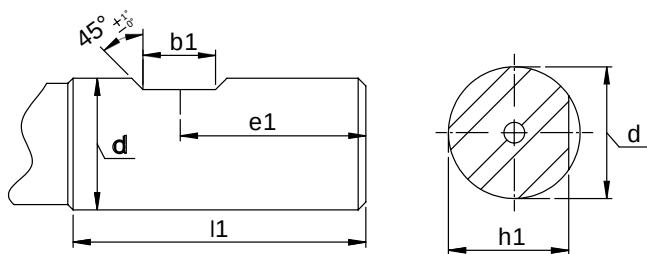


DIN 6535

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

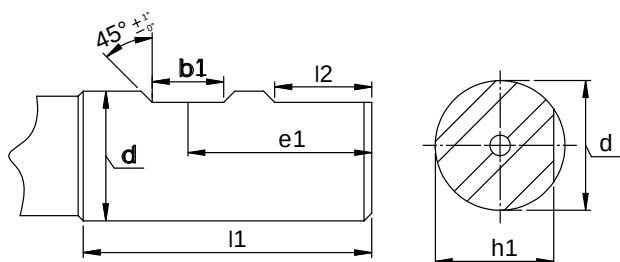


DIN 6535

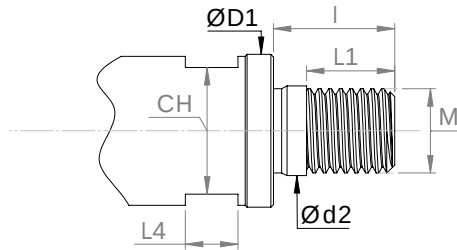
WELDON TYPE END-MILLS CUTTER (h6) HB

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

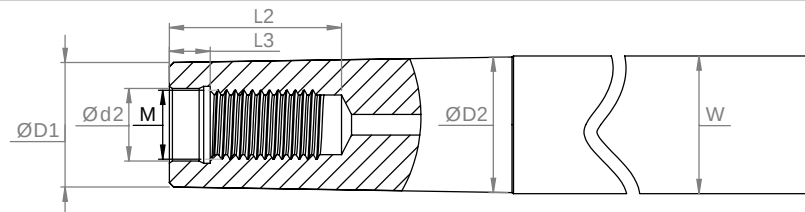


DIN 6535



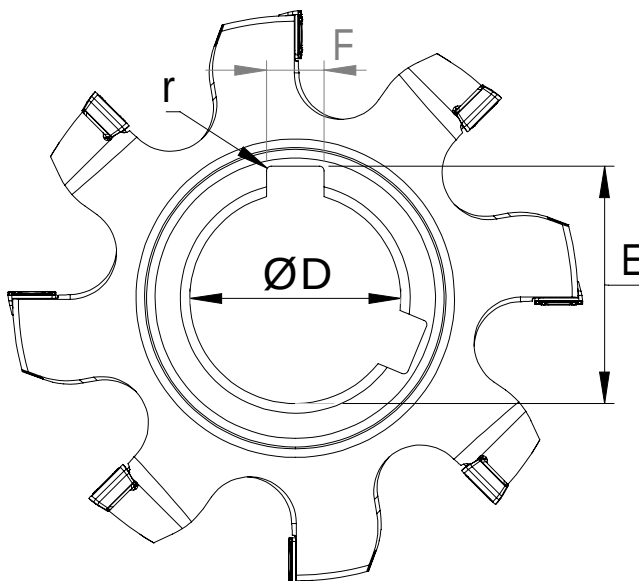
MODULAR TOOL DIMENSIONS

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

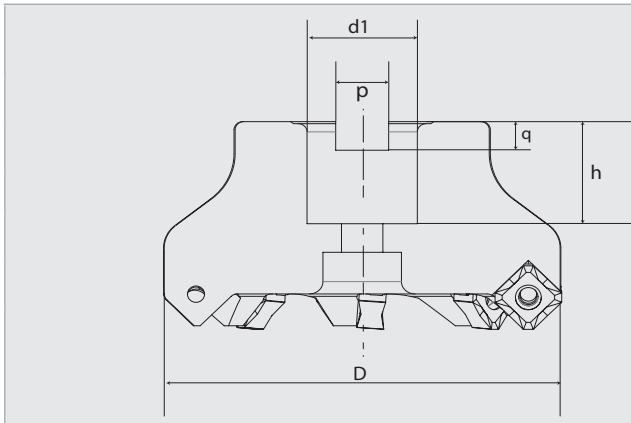
M	D1	D2	d2	L2	L3	C
6	10	11.5	6.5	7	7	12
8	15	15.5	8.5	8	8	16
10	18	19.5	10.5	8	8	20
12	23	24.5	12.5	8.5	8.5	25
16	30	31.5	17	9.5	9.5	32



DISC MILLING CUTTER HOLE STANDARTS

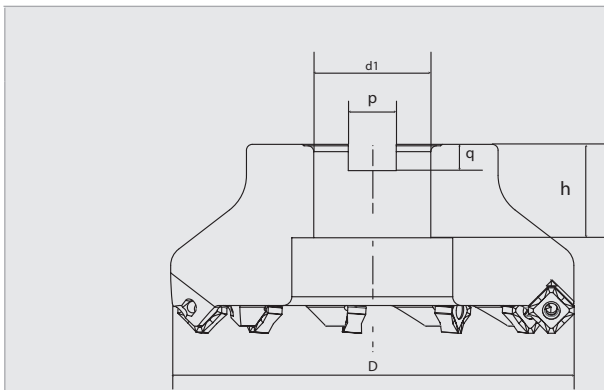
Diameter	ØD=h7	E	F	r
13	13 $\begin{smallmatrix} +0.018 \\ 0 \end{smallmatrix}$	14.6 $\begin{smallmatrix} +0.25 \\ 0 \end{smallmatrix}$	3 $\begin{smallmatrix} +0.16 \\ +0.06 \end{smallmatrix}$	0.6
16	16 $\begin{smallmatrix} +0.018 \\ 0 \end{smallmatrix}$	17.7 $\begin{smallmatrix} +0.25 \\ 0 \end{smallmatrix}$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

A Type



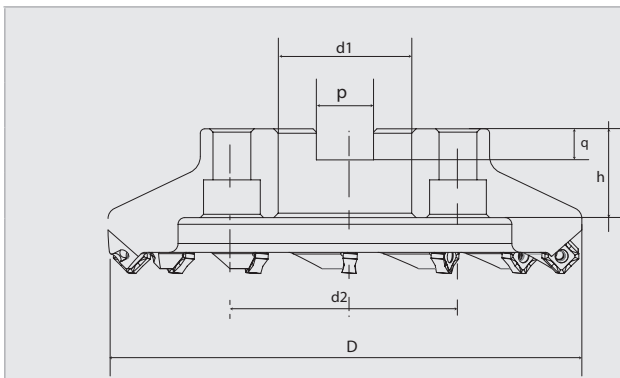
D	d1	d2	p	q	h
40	16	-	8.4	5.6	20
50	22	-	10.4	6.3	22
63	22	-	10.4	6.3	22
80	27	-	12.4	7	25
100	32	-	14.4	8	26

B Type



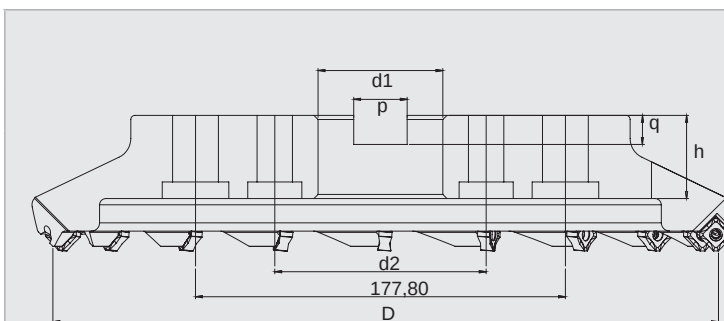
D	d1	d2	p	q	h
125	40	-	16.4	9	32

C Type

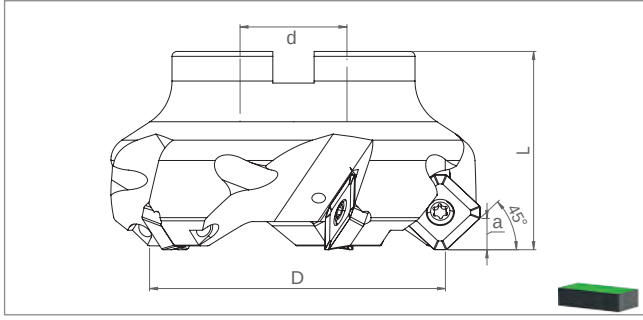


D	d1	d2	p	q	h
160	40	66.7	16.4	9	32
200	60	101.6	25.7	14	40
250	60	101.6	25.7	14	40

D Type



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

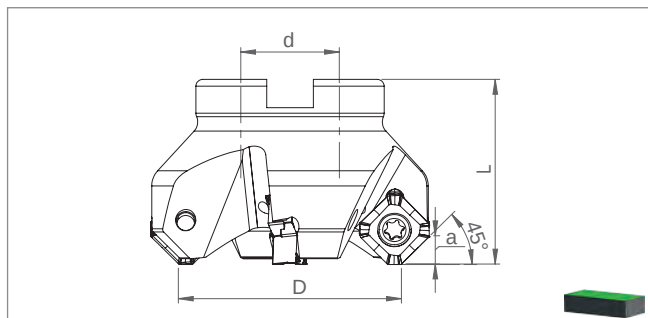


Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK45 R245.12T3.. / SE..12T3		<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM28982	TK45 SE12 D50 A22 Z04-H	✓	50	4	22	40	6	R245.12T3.. SE..12T3
SM28975	TK45 SE12 D63 A22 Z05-H	✓	63	5	22	40	6	
SM53106	TK45 SE12 D63 A22 Z06-H	✓	63	6	22	40	6	
SM28968	TK45 SE12 D80 A27 Z06-H	✓	80	6	27	50	6	
SM53113	TK45 SE12 D80 A27 Z08-H	✓	80	8	27	50	6	
SM40182	TK45 SE12 D80 A27 Z09-H	✓	80	9	27	50	6	
SM28951	TK45 SE12 D100 A32 Z07-H	✓	100	7	32	50	6	
SM14800	TK45 SE12 D125 B40 Z08	-	125	8	40	63	6	
SM14817	TK45 SE12 D160 C40 Z10	-	160	10	40	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.



Size Designation	Master Insert**	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D50 - D160	R245.12T3.. SE..12T3..	SSV M3.5x10-9511	STK-T15-9910	2,7



Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
TK45 SNMU 1305../ONHU 0505../RXMT 1607../OXMT0507..			D	Z	d	L	a	
SM65000	TK45 SN1305 D50 A22 Z05-H	✓	47.65	5	22	40	6	SNMU 1305..
SM65017	TK45 SN1305 D63 A22 Z06-H	✓	60.65	6	22	40	6	
SM65024	TK45 SN1305 D80 A27 Z07-H	✓	77.65	7	27	50	6	
SM65031	TK45 SN1305 D100 A32 Z09-H	✓	97.65	9	32	50	6	

ONHU 0505... (44)*					
D	Z	d	L	a	
50	5	22	40	6	
63	6	22	40	6	
80	7	27	50	6	
100	9	32	50	6	



RXMT 1607.. (R)					
D	Z	d	L	a	
45.4	5	22	40	6	
58.4	6	22	40	6	
65.4	7	27	50	6	
90.4	9	32	50	6	



OXMT 0507R08.. (R)					
D	Z	d	L	a	
44.5	5	22	40	6	
58.4	6	22	40	6	
65.4	7	27	50	6	
90.4	9	32	50	6	

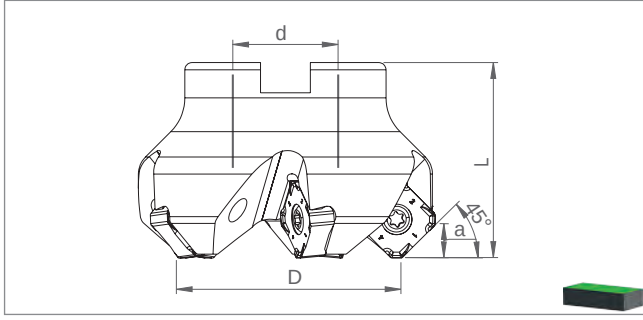


OXMT 050705 (R)*					
D	Z	d	L	a	
50	5	22	40	6	
63	6	22	40	6	
80	7	27	50	6	
100	9	32	50	6	



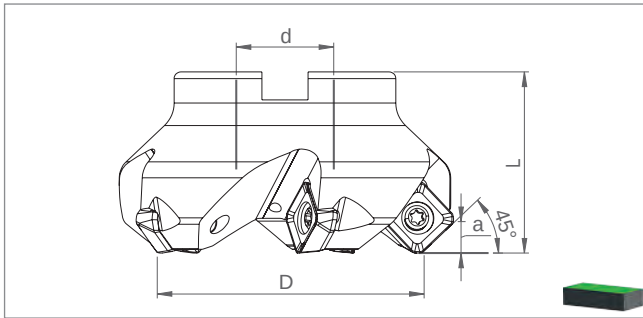
Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D50 - D100	SNMU 1305..	SSV M4x12x6-9517	STK-T15-9910	3,9



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK45 R345-13..		D	Z	d	L	a	
SM46269	TK45 R345-13 D50 A22 Z05-H	✓	50	5	22	40	6	R345-13..
SM46276	TK45 R345-13 D63 A22 Z06-H	✓	63	6	22	40	6	
SM46283	TK45 R345-13 D80 A27 Z07-H	✓	80	7	27	50	6	
SM46290	TK45 R345-13 D100 A32 Z09-H	✓	100	9	32	50	6	

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D50 - D100	R345-13..	SSV M4x14- 9516	STK-T15- 9910	3,9



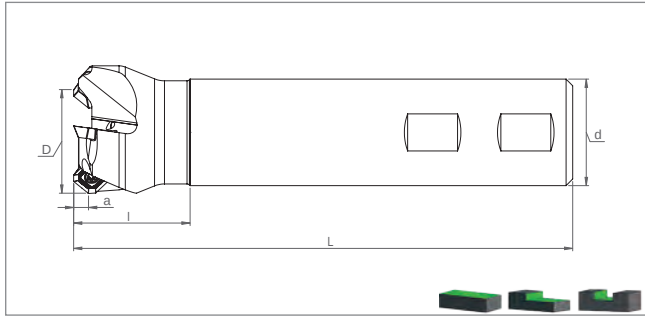
Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK45 SNMT 1205..		D	Z	d	L	a	
SM46498	TK45 SNMT12 D50 A22 Z04-H	✓	50	4	22	40	6.5	SNMT 1205..
SM46504	TK45 SNMT12 D63 A22 Z05-H	✓	63	5	22	40	6.5	
SM46511	TK45 SNMT12 D80 A27 Z06-H	✓	80	6	27	50	6.5	
SM46528	TK45 SNMT12 D100 A32 Z07-H	✓	100	7	32	50	6.5	
SM46535	TK45 SNMT12 D125 B40 Z08	-	125	8	40	63	6.5	
SM46542	TK45 SNMT12 D160 C40 Z10	-	160	10	40	63	6.5	

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.

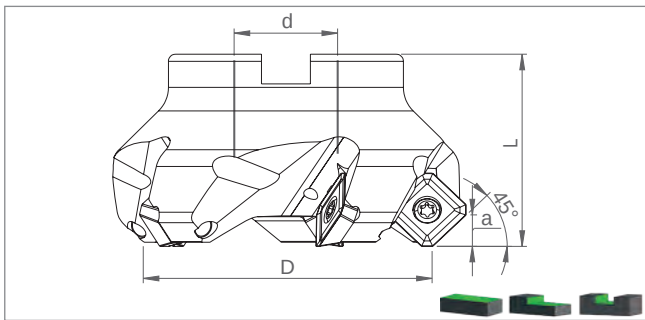
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D50 - D160	SNMT 1205..	SSV M4x12x6- 9517	STK-T15- 9910	3,9

*Suitable Insert brand is SNDVK

**Suitable Insert brand is PRMT



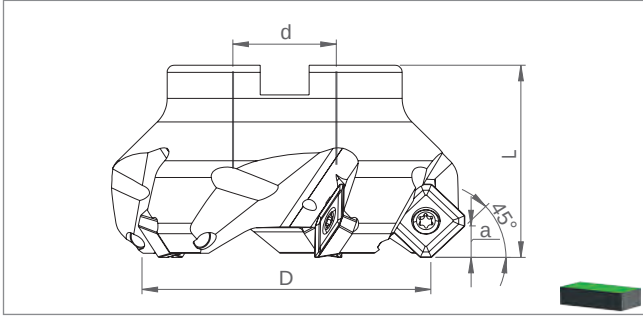
Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
ST45 SEET 0903..			D	d	Z	L	l	a	
SM59085	ST45 SE0903 D25 W25 L150 Z02-H	✓	25	25	2	150	40	4	SEET 0903..
SM59092	ST45 SE0903 D32 W32 L150 Z03-H	✓	32	32	3	150	40	4	
SM59108	ST45 SE0903 D35 W32 L150 Z03-H	✓	35	32	3	150	40	4	
SM59115	ST45 SE0903 D40 W32 L150 Z04-H	✓	40	32	4	150	40	4	



Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
TK45 SEET 0903../SE..14M4..			D	Z	d	L	a	
SM54356	TK45 SE0903 D40 A16 Z04-H	✓	40	4	16	40	4	SEET 0903..
SM54363	TK45 SE0903 D50 A22 Z05-H	✓	50	5	22	40	4	
SM54370	TK45 SE0903 D63 A22 Z06-H	✓	63	6	22	40	4	
SM54387	TK45 SE0903 D80 A27 Z08-H	✓	80	8	27	50	4	
SM53274	TK45 SE14 D50 A22 Z04-H	✓	50	4	22	40	6.5	SE.. 14M4..
SM53281	TK45 SE14 D63 A22 Z05-H	✓	63	5	22	40	6.5	
SM53298	TK45 SE14 D80 A27 Z06-H	✓	80	6	27	50	6.5	
SM53304	TK45 SE14 D100 A32 Z07-H	✓	100	7	32	50	6.5	
SM53311	TK45 SE14 D125 B40 Z08	-	125	8	40	63	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 N·m
D25 - D80	SEET 0903..	SSV M3x8-9508	STK-T08-9908	1,9
D50 - D125	SE.. 14M4	SSV M4x10-9514	STK-T15-9910	3,9

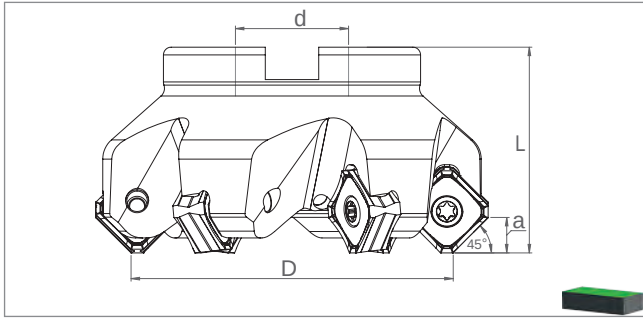


Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK45 SEMT 13T3..		D	Z	d	L	a	
SM45392	TK45 SE13 D50 A22 Z04-H	✓	50	4	22	40	6	SEMT 13T3..
SM45408	TK45 SE13 D63 A22 Z05-H	✓	63	5	22	40	6	
SM50082	TK45 SE13 D80 A27 Z06-H	✓	80	6	27	50	6	

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 N-m
D50 - D80	SEMT 13T3..	SSV M4x12- 9515	STK-T15- 9910	3,9





Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
TK45 SNMU 1307.. /ONMU 0507../RNMU 1307.. (R)			D	Z	d	L	a	
SM00289	TK45 SN1307 D63 A22 Z06-H	✓	63	6	22	40	6	SNMU 1307..
SM00290	TK45 SN1307 D80 A27 Z08-H	✓	80	8	27	50	6	
SM00291	TK45 SN1307 D100 A32 Z08-H	✓	100	8	32	50	6	
SM76754	TK45 SN1307 D125 A40 Z10	✓	125	10	40	63	6	

ONMU 0507.. (45)*					
D	Z	d	L	a	
66	6	22	38.5	3.40	
83	8	27	48.5	3.40	
103	8	32	48.5	3.40	

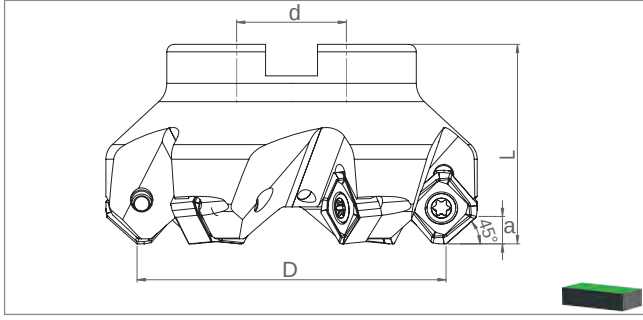


RNMU 1307.. (R)*					
D	Z	d	L	a	
61.7	6	22	38.5	6	
78.7	8	27	48.5	6	
98.7	8	32	48.5	6	



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.

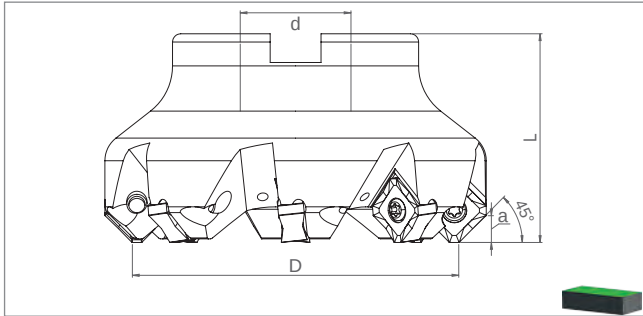
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
				N-m
D63 - D125	SNMU 1305.. ONMU 0705.. RNMU 1307..	SSV M4x12x5- 9529	STK-T15- 9910	3,9



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK45 SNEG 1205..		D	Z	d	L	a	
SM54158	TK45 SNEG12 D50 A22 Z05-H	✓	50	5	22	40	7	SNEG 1205..
SM54165	TK45 SNEG12 D63 A22 Z06-H	✓	63	6	22	40	7	
SM54172	TK45 SNEG12 D80 A27 Z07-H	✓	80	7	27	50	7	
SM54189	TK45 SNEG12 D100 A32 Z09-H	✓	100	9	32	50	7	
SM54196	TK45 SNEG12 D125 B40 Z11	-	125	11	40	63	7	
SM54202	TK45 SNEG19 D160 C40 Z12	-	160	12	40	63	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
D50 - D160	SNEG 1205..	SSV M3.5x10-9511	STK-T15-9910	1,9



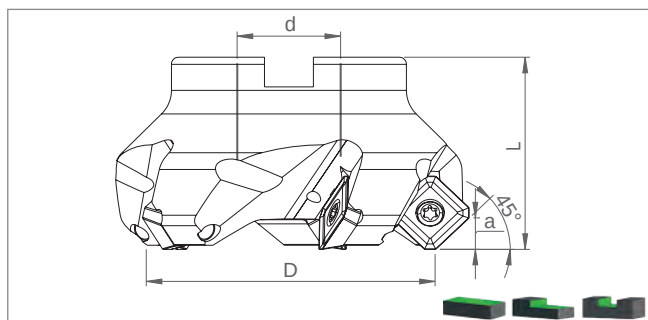
Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK45 SN.X 1306..		D	Z	d	L	a	
SM54219	TK45 SN1306 D50 A22 Z04-H	✓	50	4	22	40	7	SN.X 1306..
SM54226	TK45 SN1306 D63 A22 Z05-H	✓	63	5	22	40	7	
SM54233	TK45 SN1306 D80 A27 Z06-H	✓	80	6	27	50	7	

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
D50 - D80	SN.X 1306..	SSV M4x12-9515	STK-T15-9910	3,9

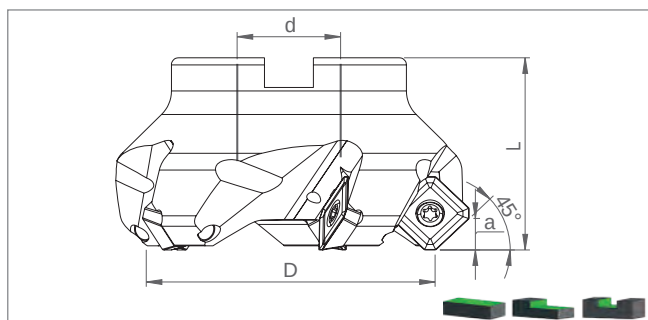
*Suitable Insert brand is ZCC-CT

**Suitable Insert brand is TGTC



Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
	TK45 SEGT / SEKT 12T3..		D	Z	d	L	a	
SM70240	TK45 SEKT12T3 D50 A22 Z04-H	✓	50	4	22	40	6	SEGT / SEKT 12T3..
SM70257	TK45 SEKT12T3 D63 A22 Z05-H	✓	63	5	22	40	6	
SM70264	TK45 SEKT12T3 D80 A27 Z06-H	✓	80	6	27	50	6	
SM70271	TK45 SEKT12T3 D100 A27 Z07-H	✓	100	7	27	50	6	

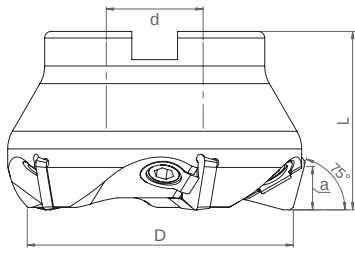
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
				N-m
D50 - D100	SEGT / SEKT 12T3..	SSV M3.5x10-9511	STK-T15-9910	2,7



Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
	TK45 SEMT 13T3..		D	Z	d	L	a	
SM70288	TK45 SEMT13T3 D50 A22 Z04-H	✓	50	4	22	40	6	SEMT 13T3AG
SM70295	TK45 SEMT13T3 D63 A22 Z05-H	✓	63	5	22	40	6	
SM70301	TK45 SEMT13T3 D80 A27 Z06-H	✓	80	6	27	50	6	
SM70318	TK45 SEMT13T3 D100 A27 Z07-H	✓	100	7	27	50	6	

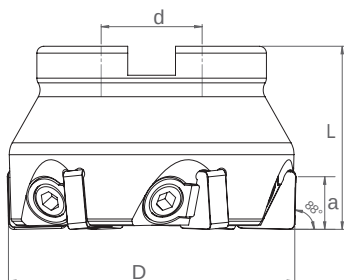
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
				N-m
D50 - D100	SEMT 13T3AG	SSV M3.5x10-9511	STK-T15-9910	2,7

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.



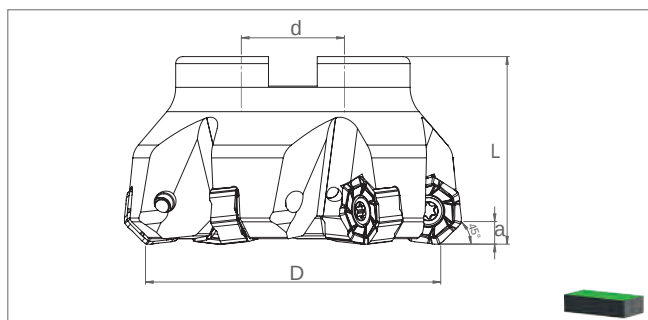
Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
<i>TK75 SPKN 1203..</i>			D	Z	d	L	a	
SM32675	TK75 SP12 D50 A22 Z04	-	50	4	22	40	9.5	SPKN 1203..
SM32682	TK75 SP12 D63 A22 Z05	-	63	5	22	40	9.5	
SM32705	TK75 SP12 D80 A27 Z06	-	80	6	27	50	9.5	
SM32729	TK75 SP12 D100 A32 Z07	-	100	7	32	50	9.5	
SM32743	TK75 SP12 D125 B40 Z08	-	125	8	40	63	9.5	
SM38547	TK75 SP12 D160 C40 Z09	-	160	9	40	63	9.5	
SM32750	TK75 SP12 D200 C60 Z12	-	200	12	60	63	9.5	
SM38530	TK75 SP12 D315 D60 Z18	-	315	18	60	63	9.5	

Size Designation	Master Insert*	Spare Parts		
		Clamp Part	Screw	Allen Key
D50 - D315	SPKN.. 1203..	 TKBP 9116	 TKSV M8x1x18 9227	 SAK-AA5-9904



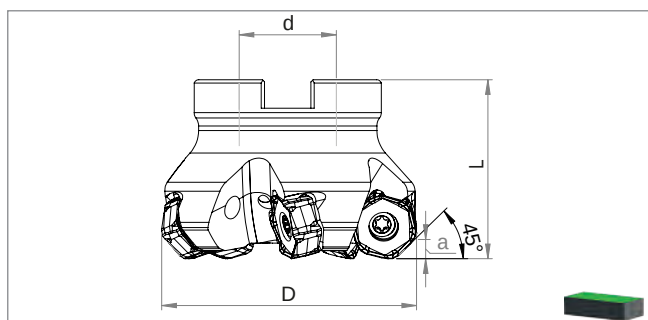
Ordering Code	Item Designation	Dimensions (mm)						Master Insert**
<i>TK88 SNGN 1204..</i>			D	Z	d	L	a	
SM53328	TK88 SN1204 D63 A22 Z06	-	63	6	22	40	11	SNGN 1204..
SM53335	TK88 SN1204 D80 A27 Z07	-	80	7	27	50	11	
SM61569	TK88 SN1204 D80 A27 Z08	-	80	8	27	50	11	
SM53342	TK88 SN1204 D100 A32 Z08	-	100	8	32	50	11	

Size Designation	Master Insert**	Spare Parts		
		Clamp Part	Screw	Allen Key
D63 - D100	SNGN 1204..	 TKBP 9116	 TKSV M8x1x18 9227	 SAK-AA5-9904



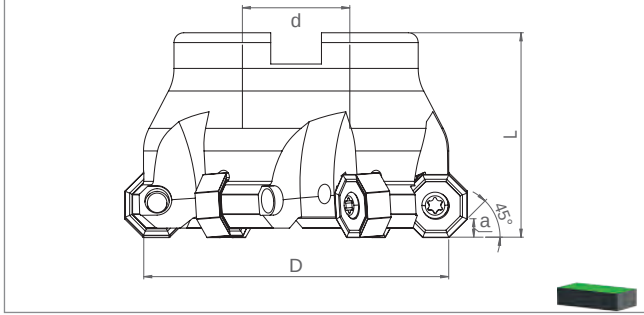
Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK45 XNMU 0605.. / 0906..		D	Z	d	L	a	
SM55209	TK45 XN06 D50 A22 Z05-H	✓	50	5	22	40	3.5	XNMU 0605..
SM55216	TK45 XN06 D63 A22 Z06-H	✓	63	6	22	40	3.5	
SM55223	TK45 XN06 D80 A27 Z08-H	✓	80	8	27	50	3.5	
SM55230	TK45 XN06 D100 A32 Z09-H	✓	100	9	32	50	3.5	
SM55308	TK45 XN09 D63 A22 Z05-H	✓	63	5	22	40	5	XNMU 0906..
SM55315	TK45 XN09 D80 A27 Z06-H	✓	80	6	27	50	5	
SM55322	TK45 XN09 D100 A32 Z08-H	✓	100	8	32	50	5	
SM55339	TK45 XN09 D125 B40 Z10	-	125	10	40	63	5	
SM63907	TK45 XN09 D160 C40 Z10	✓	160	10	40	63		

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
				N-m
D50 - D100	XNMU 0605..	SSV M4x12- 9515	STK-T15- 9910	3,9
D63 - D160	XNMU 0906..	SSV M5x13- 9519	STK-T20- 9911	5,5



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK45 HXKU 0605..		D	Z	d	L	a	
SM71315	TK45 HX06 D50 A22 Z05-H	✓	50	5	22	40	3.5	HXKU 0605..
SM71322	TK45 HX06 D63 A22 Z07-H	✓	63	6	22	40	3.5	
SM71339	TK45 HX06 D80 A27 Z08-H	✓	80	8	27	50	3.5	
SM71346	TK45 HX06 D100 A32 Z10-H	✓	63	6	22	50	3.5	

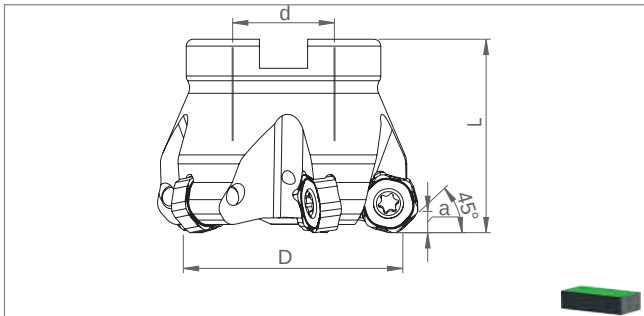
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
				N-m
D50 - D100	HXKU 0605..	SSV M4x10- 9514	STK-T15- 9910	3,9



Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
	<i>TK45 ON.X 0606..</i>		D	Z	d	L	a	
SM32453	TK45 ON06 D63 A22 Z05-H	✓	63	5	22	40	4	ON.X 0606..
SM32477	TK45 ON06 D80 A27 Z06-H	✓	80	6	27	50	4	
SM24588	TK45 ON06 D100 A32 Z07-H	✓	100	7	32	50	4	
SM32507	TK45 ON06 D125 B40 Z08	-	125	8	40	63	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.

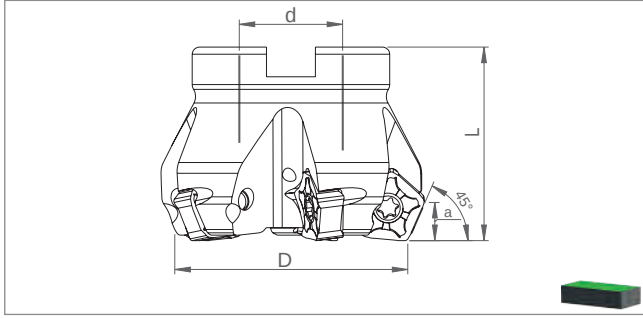
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D63 - D125	ON.X 0606..	SSV M5x13-9519	STK-T20-9911	5,5



Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
	<i>TK45 HNKX 0604..</i>		D	Z	d	L	a	
SM46702	TK45 HNKX06 D50 A22 Z05-H	✓	50	5	22	40	3.5	HNKX 0604..
SM46719	TK45 HNKX06 D63 A22 Z06-H	✓	63	6	22	40	3.5	
SM46726	TK45 HNKX06 D80 A27 Z08-H	✓	80	8	27	50	3.5	

Size Designation	Master Insert**	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D50 - D80	HNKX 0604..	SSV M4x12-9515	STK-T15-9910	3,9

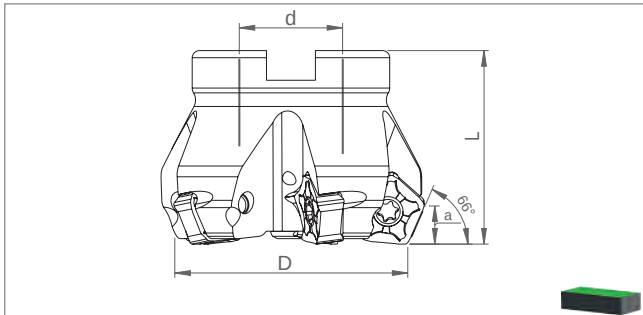
*Suitable Insert brand is KRLY
**Suitable Insert brand is LMN



Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
<i>TK45 PNMU 1205..</i>			D	Z	d	L	a	
SM46894	TK45 PN12 D63 A22 Z05-H	✓	63	5	22	40	6	PNMU 1205..
SM46900	TK45 PN12 D80 A27 Z07-H	✓	80	7	27	50	6	
SM46917	TK45 PN12 D100 A32 Z09-H	✓	100	9	32	50	6	
SM46924	TK45 PN12 D125 B40 Z11	-	125	11	40	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.

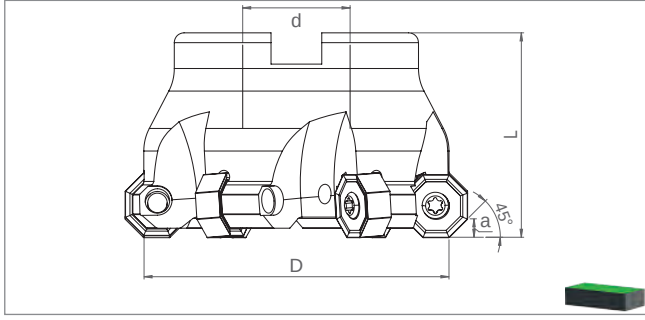
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D63 - D125	PNMU 1205..	 SSV M5x13-9519	 STK-T20-9911	 N-m 5,5



Ordering Code		Item Designation	Dimensions (mm)							Master Insert*
Direction		TK66 PNMU 0905..		D	Z	d	L	a		
Right	Left									
SM46931	SM72138	TK66R/L PN09 D50 A22 Z05-H	✓	50	5	22	40	6	PNMU 0905..	
SM46948	SM72145	TK66R/L PN09 D63 A22 Z06-H	✓	63	6	22	40	6		
SM46955	SM72152	TK66R/L PN09 D80 A27 Z08-H	✓	80	8	27	50	6		
SM46962	-	TK66R PN09 D100 A32 Z10-H	✓	100	10	32	50	6		
SM46979	-	TK66R PN09 D125 B40 Z12	-	125	12	40	63	6		

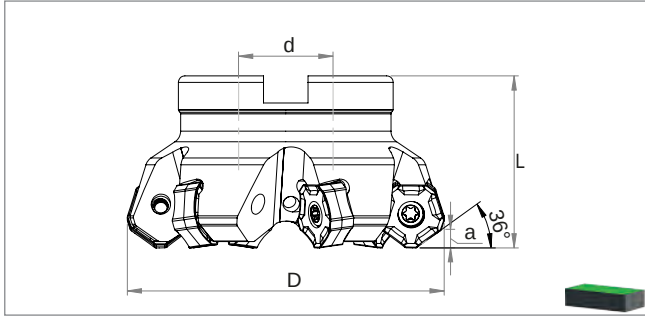
Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
D50- D125	PNMU 0905..	 SSV M4x12x5-9529	 STK-T15-9910	 N-m 3,9



Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
TK45 ON.X 0806..			D	Z	d	L	a	
SM28722	TK45 ON08 D63 A22 Z05-H	✓	63	5	22	40	5.5	ON.X 0806..
SM28715	TK45 ON08 D80 A27 Z06-H	✓	80	6	27	50	5.5	
SM28708	TK45 ON08 D100 A32 Z07-H	✓	100	7	32	50	5.5	
SM14695	TK45 ON08 D125 B40 Z08	-	125	8	40	63	5.5	
SM14718	TK45 ON08 D160 C40 Z10	-	160	10	40	63	5.5	
SM25219	TK45 ON08 D200 C60 Z12	-	200	12	60	63	5.5	

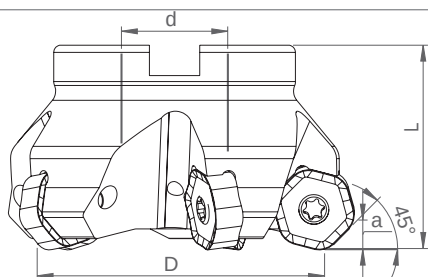
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D63 - D200	ON.X 0806..	SSV M5x13-9519	STK-T20-9911	5,5



Ordering Code	Item Designation	Dimensions (mm)						Master Insert**
TK36 PNMU 1206..			D	Z	d	L	a	
SM70141	TK36 PNMU1206 D50 A22 Z04-H	✓	50	4	22	40	4	PNMU 1206..
SM70158	TK36 PNMU1206 D50 A22 Z05-H	✓	50	5	22	40	4	
SM70165	TK36 PNMU1206 D63 A22 Z05-H	✓	63	5	22	40	4	
SM64751	TK36 PNMU1206 D63 A22 Z06-H	✓	63	6	22	40	4	
SM64768	TK36 PNMU1206 D80 A27 Z08-H	✓	80	8	27	50	4	
SM64775	TK36 PNMU1206 D100 A32 Z10-H	✓	100	10	32	50	4	
SM64782	TK36 PNMU1206 D125 B40 Z12	-	125	12	40	63	4	
SM64799	TK36 PNMU1206 D160 C40 Z12	-	160	12	40	63	4	

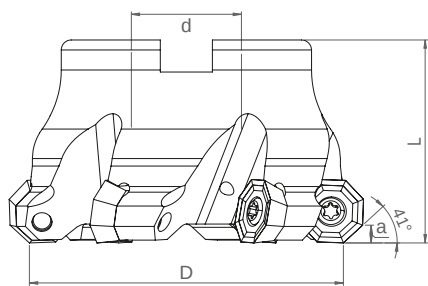
Size Designation	Master Insert**	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D63 - D200	PNMU 1206..	SSV M4x10-9514	STK-T15-9910	3,9

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.



Ordering Code	Item Designation		Dimensions (mm)					Master Insert
	TK45 HN.J 0604.. / 0704.. / 0905..		<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM40588	TK45 HN0604 D50 A22 Z05-H	✓	50	5	22	40	3.23	HN.J 0604.. ¹
SM42841	TK45 HN0604 D63 A22 Z06-H	✓	63	6	22	40	3.23	
SM42858	TK45 HN0604 D80 A27 Z07-H	✓	80	7	27	50	3.23	
SM44043	TK45 HN0704 D50 A22 Z05-H	✓	50	5	22	40	3.5	HN.J 0704.. ²
SM44050	TK45 HN0704 D63 A22 Z06-H	✓	63	6	22	40	3.5	
SM44067	TK45 HN0704 D80 A27 Z08-H	✓	80	8	27	50	3.5	
SM42933	TK45 HN0905 D50 A22 Z04-H	✓	50	4	22	40	4.5	HN.J 0905.. ³
SM42940	TK45 HN0905 D63 A22 Z05-H	✓	63	5	22	40	4.5	
SM42957	TK45 HN0905 D80 A27 Z06-H	✓	80	6	27	50	4.5	
SM42964	TK45 HN0905 D100 A32 Z08-H	✓	100	8	32	50	4.5	
SM42971	TK45 HN0905 D125 B40 Z10	-	125	10	40	63	4.5	
SM42988	TK45 HN0905 D160 C40 Z12	-	160	12	40	63	4.5	

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D50 - D80	HN.J 0604.. [*]	SSV M4x12- 9515	STK-T15- 9910	3,9
D50 - D80	HN.J 0704.. ^{**}	SSV M4x9x5- 9528		
D50 - D160	HN.J 0905.. ^{***}	SSV M4x12- 9515		



Ordering Code	Item Designation		Dimensions (mm)					Master Insert ⁴
	TK41 OW.T 05T3..		<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM61620	TK41 OW05 D50 A22 Z04-H	✓	50	4	22	40	3	OWMT / OWHT 05T3..
SM61637	TK41 OW05 D63 A22 Z05-H	✓	63	5	22	40	3	
SM61644	TK41 OW05 D80 A22 Z07-H	✓	80	7	27	50	3	

Size Designation	Master Insert ⁴	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D50 - D80	OWMT / OWHT 05T3..	SSV M4x10- 9514	STK-T15- 9910	3,9

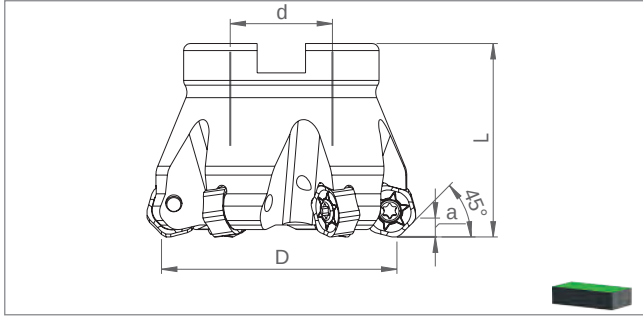
Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

¹Suitable Insert brand is KNMTL

²Suitable Insert brand is WDA

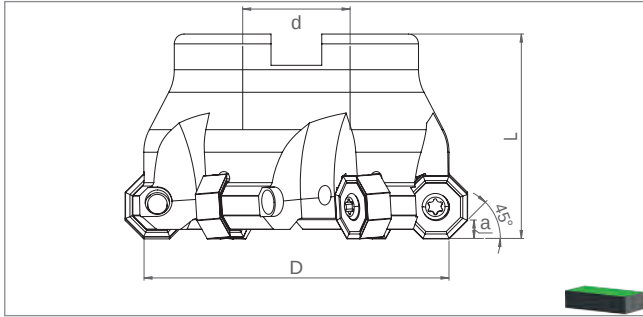
³Suitable Insert brand is KNMTL/WDA

⁴Suitable Insert brand is TNGLY



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK45 HNGX 0604.. / 0906..		D	Z	d	L	a	
SM42742	TK45 HN06 D50 A22 Z05-H	✓	50	5	22	40	3	HNGX 0604..
SM40519	TK45 HN06 D63 A22 Z06-H	✓	63	6	22	40	3	
SM40526	TK45 HN06 D80 A27 Z07-H	✓	80	7	27	50	3	
SM40533	TK45 HN06 D100 A32 Z08-H	✓	100	8	32	50	3	
SM42896	TK45 HN09 D63 A22 Z05-H	✓	63	5	22	40	5	HNGX 0906..
SM40540	TK45 HN09 D80 A27 Z06-H	✓	80	6	27	50	5	
SM40557	TK45 HN09 D100 A32 Z08-H	✓	100	8	32	50	5	
SM40564	TK45 HN09 D125 B40 Z10	-	125	10	40	63	5	
SM40571	TK45 HN09 D160 C40 Z12	-	160	12	40	63	5	

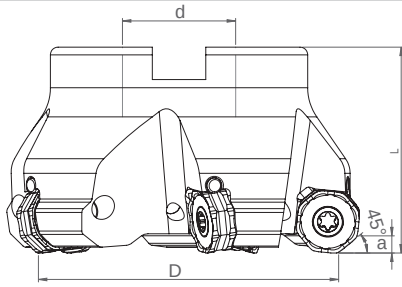
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
				N-m
D50 - D100	HNGX 0604..	SSV M3x8- 9508	STK-T08- 9908	1,9
D63 - D160	HNGX 0906..	SSV M4x12- 9515	STK-T15- 9910	3,9



Ordering Code	Item Designation		Dimensions (mm)					Master Insert**
	TK45 ONHU 0604.. / 08T6..		D	Z	d	L	a	
SM42865	TK45 ONHU06 D63 A22 Z05-H	✓	63	5	22	40	4	ONHU 0604..
SM42872	TK45 ONHU06 D80 A27 Z06-H	✓	80	6	27	50	4	
SM42889	TK45 ONHU06 D100 A32 Z07-H	✓	100	7	32	50	4	
SM44913	TK45 ONHU08 D63 A22 Z05-H	✓	63	5	22	40	5	ONHU 08T6..
SM44920	TK45 ONHU08 D80 A27 Z06-H	✓	80	6	27	50	5	
SM44937	TK45 ONHU08 D100 A32 Z07-H	✓	100	7	32	50	5	

Size Designation	Master Insert**	Spare Parts		
		Screw	Torx Key	Screw Torque Value
				N-m
D63 - D100	ONHU 0604..	SSV M4x12- 9515	STK-T15- 9910	3,9
D63 - D100	ONHU 08T6..	SSV M5x13- 9519	STK-T20- 9911	5,5

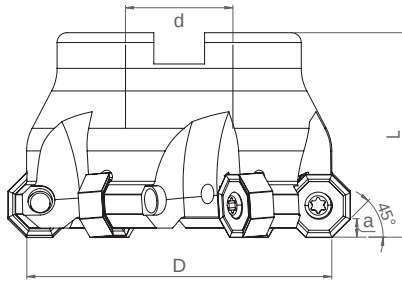
Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.



Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
TK45 ONMU 0504..			D	Z	d	L	a	
SM53502	TK45 ON0504 D50 A22 Z05-H	✓	50	5	22	40	3	ONMU 0504..
SM53519	TK45 ON0504 D63 A22 Z05-H	✓	63	5	22	40	3	
SM53526	TK45 ON0504 D80 A27 Z08-H	✓	80	8	27	50	3	
SM54707	TK45 ON0504 D100 A32 Z09-H	✓	100	9	32	50	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
D50 - D100	ONMU 0504..	 SSV M4x10-9514	 STK-T15-9910	 3,9

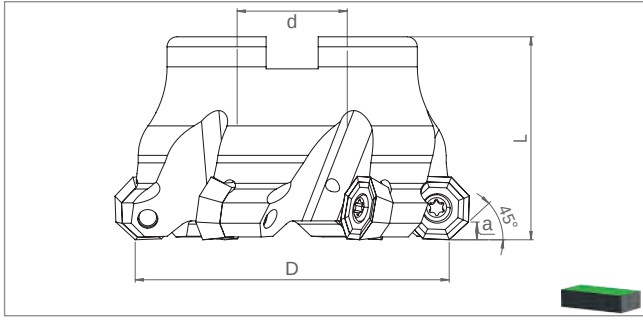


Ordering Code	Item Designation	Dimensions (mm)						Master Insert**
TK45 XNMMU 0705.. / 0906..			D	Z	d	L	a	
SM01576	TK45 XN07 D50 A22 Z05-H	✓	50	5	22	40	4.4	XNMMU 0705..
SM01583	TK45 XN07 D63 A22 Z06-H	✓	63	6	22	40	4.4	
SM69770	TK45 XN07 D80 A27 Z07-H	✓	80	7	27	50	4.4	
SM01590	TK45 XN07 D100 A32 Z08-H	✓	100	8	32	50	4.4	
SM01606	TK45 XN09A D63 A22 Z05-H	✓	63	5	22	40	5	XNMMU 0906..
SM01613	TK45 XN09A D80 A27 Z06-H	✓	80	6	27	50	5	
SM01620	TK45 XN09A D100 A32 Z08-H	✓	100	8	32	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 - D100	XNMMU 0705..	 SSV M3.5x10-9511	 STK-T15-9910	 2,7
D63 - D100	XNMMU 0906..	 SSV M5x13-9519	 STK-T20-9911	 5,5

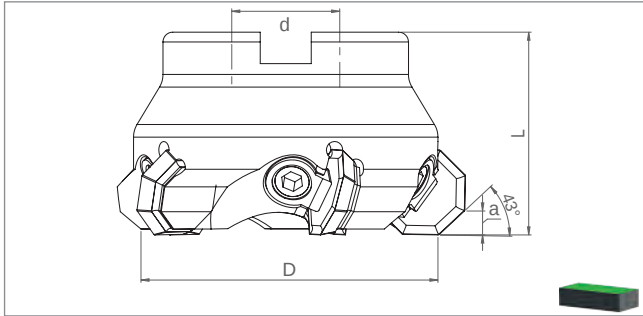
*Suitable Insert brand is SCO
**Suitable Insert brand is ACHTK



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK45 OD.. 0504..		D	Z	d	L	a	
SM28814	TK45 OD05 D40 A16 Z04-H	✓	40	4	16	40	3.5	OD.. 0504..
SM28807	TK45 OD05 D50 A22 Z05-H	✓	50	5	22	40	3.5	
SM28791	TK45 OD05 D63 A22 Z06-H	✓	63	6	22	40	3.5	
SM28784	TK45 OD05 D80 A27 Z07-H	✓	80	7	27	50	3.5	
SM28777	TK45 OD05 D100 A32 Z08-H	✓	100	8	32	50	3.5	

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
D40 - D100	OD.. 0504..	SSV M3.5x10- 9511	STK-T15- 9910	3,9

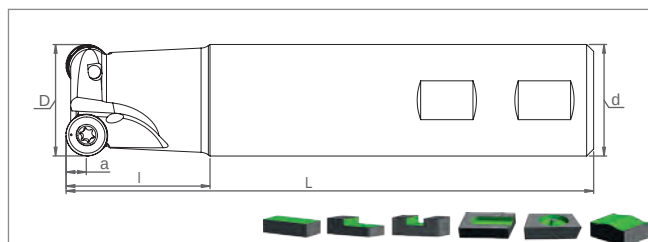


Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK43 OF.. 07T3..		D	Z	d	L	a	
SM25172	TK43 OF07T3 D63 A22 Z05	-	63	5	22	40	3	OF.. 07T3..
SM25189	TK43 OF07T3 D80 A27 Z06	-	80	6	27	50	3	
SM25196	TK43 OF07T3 D100 A32 Z07	-	100	7	32	50	3	
SM25202	TK43 OF07T3 D125 B40 Z09	-	125	9	40	63	3	

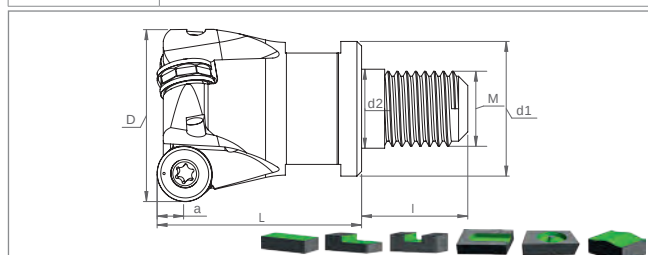
Size Designation	Master Insert*	Spare Parts		
		Clamp Part 	Screw 	Allen Key
D63 - D125	OF.. 07T3..	TKBP 9116	TKSV M8x1x18 9227	SAK-AA5- 9904

*Suitable Insert brand is PRMT

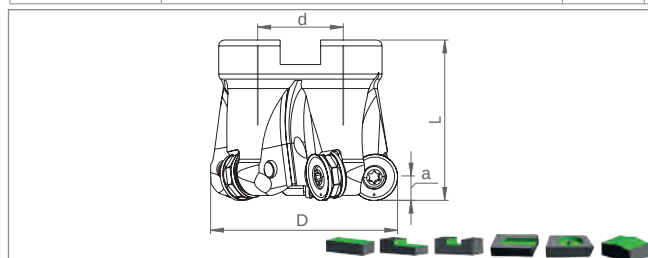
**Suitable Insert brand is ISO



Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
	ST RNMU 1004../1205..		D	d	Z	L	l	a	
SM45446	ST RN10 D25 W25 L150 Z02-H	✓	25	25	2	150	40	5	RNMU 1004..
SM45453	ST RN10 D32 W32 L150 Z03-H	✓	32	32	3	150	40	5	
SM47624	ST RN12 D32 W32 L150 Z02-H	✓	32	32	2	150	40	6	RNMU 1205..
SM47631	ST RN12 D40 W32 L150 Z03-H	✓	40	32	3	150	30	6	

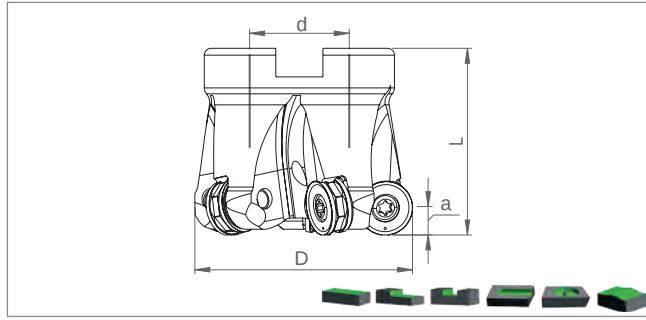


Ordering Code	Item Designation	Dimensions (mm)									Master Insert*
	MT RNMU 1004../1205..		D	Z	d1	d2	L	l	M	a	
SM48959	MT RN10 D25 M12 L35 Z02-H	✓	25	2	21	12.5	35	23	12	5	RNMU 1004..
SM48966	MT RN10 D32 M16 L43 Z03-H	✓	32	3	29	17	43	23	16	5	
SM48973	MT RN12 D32 M16 L43 Z02-H	✓	32	2	29	17	43	23	16	6	RNMU 1205..
SM40151	MT RN12 D40 M16 L43 Z03-H	✓	40	3	29	17	43	23	16	6	



Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
	TK RNMU 1004../1205../1606..		D	Z	d	L	a	
SM43060	TK RN10 D40 A16 Z04-H	✓	40	4	16	40	5	RNMU 1004..
SM43077	TK RN10 D50 A22 Z05-H	✓	50	5	22	40	5	
SM43084	TK RN12 D40 A16 Z04-H	✓	40	4	16	40	6	RNMU 1205..
SM40168	TK RN12 D50 A22 Z05-H	✓	50	5	22	40	6	
SM43091	TK RN12 D63 A22 Z06-H	✓	63	6	22	40	6	RNMU 1606..
SM43107	TK RN16 D50 A22 Z04-H	✓	50	4	22	40	8	
SM43114	TK RN16 D63 A22 Z05-H	✓	63	5	22	40	8	
SM43121	TK RN16 D80 A27 Z06-H	✓	80	6	27	50	8	

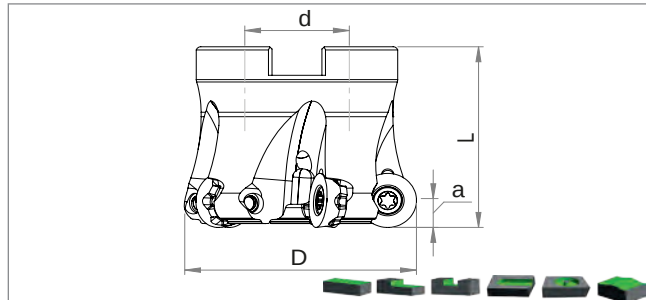
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D25 - D50	RNMU 1004..	SSV M3.5x10- 9511	STK-T15- 9910	2,7
D32 - D40	RNMU 1205..	SSV M4x9x5- 9528		3,9
D50 - D80	RNMU 1606..	SSV M5x13- 9519	STK-T20- 9911	



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK ROMU 1204.. / 1605..		D	Z	d	L	a	
SM69831	TK ROMU1204 D50 A22 Z05-H	✓	50	5	22	40	6	ROMU 1204..
SM69848	TK ROMU1204 D63 A22 Z06-H	✓	63	6	22	40	6	
SM69855	TK ROMU1204 D66 A27 Z06-H	✓	66	6	27	50	6	
SM69862	TK ROMU1204 D80 A27 Z08-H	✓	80	8	27	50	6	
SM69879	TK ROMU1605 D63 A22 Z05-H	✓	63	5	22	40	8	ROMU 1605..
SM69886	TK ROMU1605 D80 A27 Z06-H	✓	80	6	27	50	8	
SM69893	TK ROMU1605 D100 A32 Z08-H	✓	100	8	32	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.

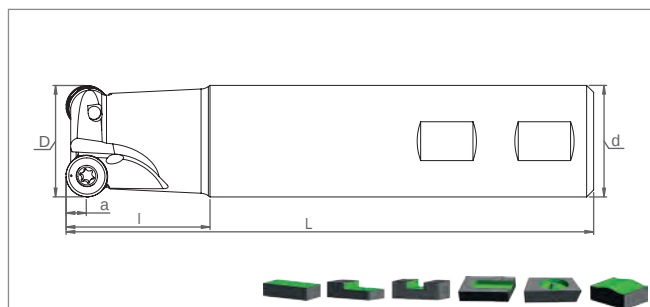
Size Designation	Master Insert*	Spare Parts		
		Screw	Torx Key	Screw Torque Value
				N-m
D50 - D80	ROMU 1204..	SSV M4x9- 9542	STK-T15- 9910	3,9
D63 - D100	ROMU 1605..	SSV M5x18- 9530	STK-T20- 9911	5,5



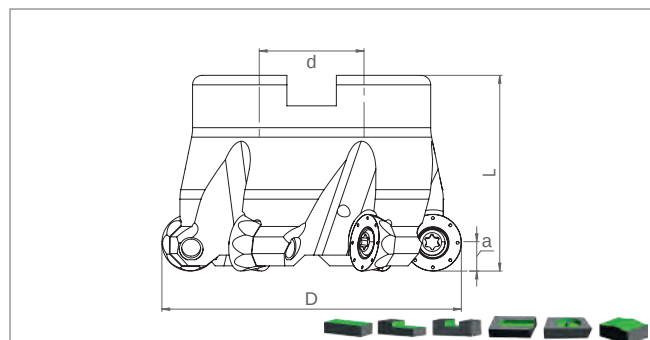
Ordering Code	Item Designation		Dimensions (mm)					Master Insert**
	TK RQMT 10T3.. / 1204..		D	Z	d	L	a	
SM71940	TK RQ10 D40 A16 Z05-H	✓	40	5	16	40	5	RQMT 10T3..
SM71957	TK RQ10 D50 A22 Z06-H	✓	50	6	22	40	5	
SM71964	TK RQ10 D52 A22 Z06-H	✓	52	6	22	40	5	
SM71971	TK RQ12 D50 A22 Z05-H	✓	50	5	22	40	6	RQMT 1204..
SM71988	TK RQ12 D63 A22 Z06-H	✓	63	6	22	40	6	
SM71995	TK RQ12 D66 A27 Z06-H	✓	66	6	27	50	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
				N-m
D40 - D52	RQMT 10T3..	SSV M3.5x10- 95111	STK-T15- 9910	2,7
D50 - D66	RQMT 1204..	SSV M4x10- 9514		3,9



Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST RPMT 1204..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM69497	ST RP1204A D26 W25 L150 Z02-H	✓	26	25	2	150	30	6	RPMT 1204..
SM69503	ST RP1204A D33 W32 L150 Z03-H	✓	33	32	3	150	30	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.

Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
TK RPMT 1204..			<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM69510	TK RP1204A D40 A16 Z04-H		40	4	16	40	6	RPMT 1204..
SM62603	TK RP1204A D50 A22 Z05-H		50	5	22	40	6	
SM62610	TK RP1204A D63 A22 Z06-H		63	6	22	40	6	

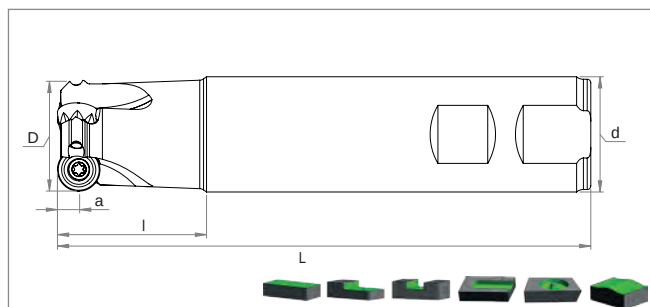
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D26 - D63	RPMT 1204..	SSV M4x10-9514	STK-T15-9910	3,9

Milling Tools

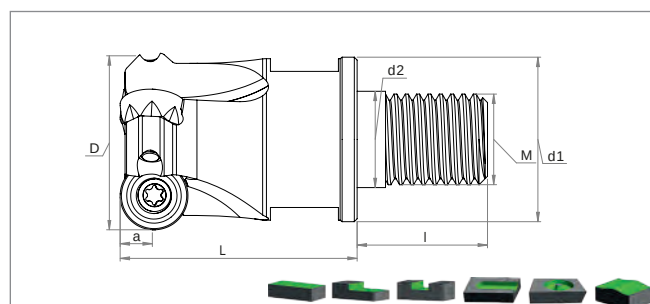


F

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

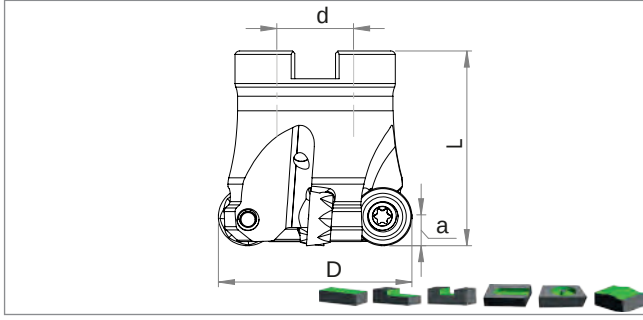


Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
<i>ST RYMX 1004.. / 1205..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM71445	ST RY10 D21 W20 L150 Z02-H	✓	21	20	2	150	30	5	RYMX 1004..
SM71452	ST RY10 D25 W25 L150 Z03-H	✓	25	25	3	150	40	5	
SM71469	ST RY10 D26 W25 L150 Z03-H	✓	26	25	3	150	30	5	
SM71476	ST RY10 D33 W32 L150 Z-04H	✓	33	32	3	150	40	5	
SM71483	ST RY12 D32 W32 L150 Z-03H	✓	32	32	3	150	40	6	RYMX 1205..
SM71490	ST RY12 D33 W32 L150 Z-03H	✓	33	32	3	150	30	6	



Ordering Code	Item Designation	Dimensions (mm)										Master Insert*
MT RYMX 1004.. / 1205..			<i>D</i>	<i>Z</i>	<i>d1</i>	<i>d2</i>	<i>L</i>	<i>l</i>	<i>M</i>	<i>a</i>		
SM71506	MT RY10 D25 M12 L35 Z03-H		25	3	21	12.5	35	23	12	5	RYMX 1004..	
SM71513	MT RY10 D32 M16 L43 Z04-H		32	4	29	17	43	23	16	5		
SM71520	MT RY10 D40 M16 L43 Z05-H		40	5	29	17	43	23	16	5		
SM71537	MT RY12 D32 M16 L43 Z03-H		32	3	29	17	43	23	16	6	RYMX 1205..	
SM71544	MT RY12 D40 M16 L43 Z04-H		40	4	29	17	43	23	16	6		

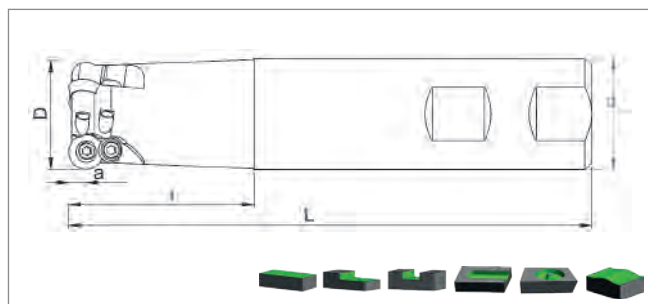
Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D21 - D40	RYMX 1004..	SSV M3.5x8-9510	STK-T15-9910	2,7
D32 - D40	RYMX 1205..	SSV M4x10-9514		3,9



Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
	<i>TK RYMX 1004.. / 1205..</i>		<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM71551	TK RY10 D40 A16 Z04-H	✓	40	4	16	40	5	RYMX 1004..
SM71568	TK RY10 D50 A22 Z05-H	✓	50	5	22	40	5	
SM71575	TK RY10 D63 A22 Z06-H	✓	63	6	22	40	5	
SM71582	TK RY12 D40 A16 Z04-H	✓	40	4	16	40	6	RYMX 1205..
SM71599	TK RY12 D50 A22 Z05-H	✓	50	5	22	40	6	
SM71605	TK RY12 D63 A22 Z06-H	✓	63	6	22	40	6	
SM71612	TK RY12 D80 A27 Z07-H	✓	80	7	27	50	6	
SM71629	TK RY12 D100 A32 Z08-H	✓	100	8	32	50	6	

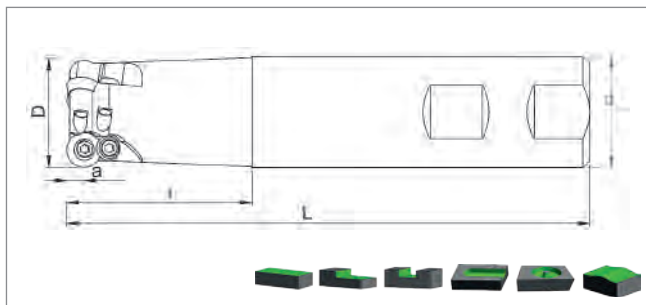
Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D40 - D63	RYMX 1004..	SSV M3.5x8-9510	STK-T15-9910	2,7
D40 - D100	RYMX 1205..	SSV M4x10-9514		3,9



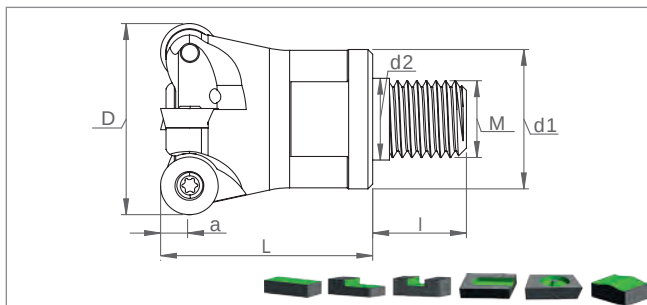
Ordering Code	Item Designation	Dimensions (mm)								Master Insert*
	<i>ST RD.. 0501.. / 0702.. / 0803..</i>		<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>		
SM58972	ST RD05 D08 W10 L100 Z01-H	✓	8	10	1	100	20	2.5	RDMX 0501..*	
SM58989	ST RD05 D10 W12 L100 Z02-H	✓	10	12	2	100	20	2.5		
SM58996	ST RD05 D12 W12 L100 Z02-H	✓	12	12	2	100	20	2.5		
SM59009	ST RD05 D14 W12 L100 Z03-H	✓	14	12	3	100	20	2.5		
SM45415	ST RD07 D16 W16 L120 Z02	-	16	16	2	120	30	3.5	RDKW 0702..**	
SM45422	ST RD07 D20 W20 L120 Z02	-	20	20	2	120	30	3.5		
SM54400	ST RD07 D20 W20 L120 Z03	-	20	20	3	120	30	3.5		
SM45439	ST RD07 D25 W25 L120 Z03	-	25	25	3	120	30	3.5		
SM54417	ST RD07 D25 W25 L120 Z04	-	25	25	4	120	30	3.5	RD.. 0803..**	
SM13124	ST RD08 D16 W16 L120 Z02	-	16	16	2	120	30	4		
SM13162	ST RD08 D16 W16 L150 Z02	-	16	16	2	150	40	4		
SM13131	ST RD08 D20 W20 L120 Z02	-	20	20	2	120	30	4		
SM13179	ST RD08 D20 W20 L150 Z02	-	20	20	2	150	40	4		
SM13209	ST RD08 D20 C20 L200 Z02	-	20	20	2	200	50	4		
SM13148	ST RD08 D25 W25 L120 Z03	-	25	25	3	120	30	4		
SM13186	ST RD08 D25 W25 L150 Z03	-	25	25	3	150	40	4		
SM13216	ST RD08 D25 C25 L200 Z03	-	25	25	3	200	50	4		
SM13155	ST RD08 D32 W32 L120 Z04	-	32	32	4	120	30	4		
SM13193	ST RD08 D32 W32 L150 Z04	-	32	32	4	150	40	4		
SM13223	ST RD08 D32 C32 L200 Z04	-	32	32	4	200	50	4		

Size Designation	Master Insert*	Spare Parts				
		Screw	Torx Key	Wedge Clamp	Clamp Screw	Screw Torque Value
						 N·m
D10 - D14	RDMX 0501.. [*]	SSV M2x4-9521	STK-T06-9906	-	-	0,4
D16 - D25	RDKW 0702.. ^{**}	SSV M2.5x5-9505	STK-T08-9908			1,0
D16 - D32	RD.. 0803.. ^{**}	SSV M3x6-9507				1,9



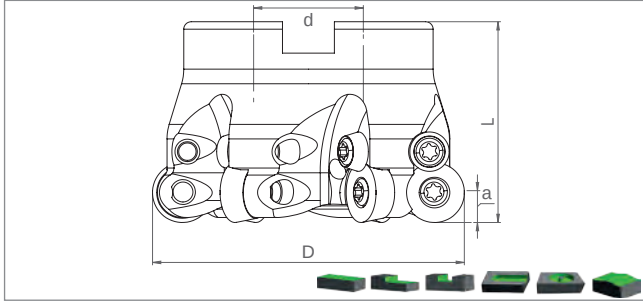
Ordering Code	Item Designation	Dimensions (mm)								Master Insert*
	<i>ST RD.. 1003../12T3..</i>		<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>		
SM13230	ST RD1003 D20 W20 L120 Z02	-	20	20	2	120	30	5	RD.. 1003..	
SM13261	ST RD1003 D20 W20 L150 Z02	-	20	20	2	150	40	5		
SM13292	ST RD1003 D20 C20 L200 Z02	-	20	20	2	200	50	5		
SM13247	ST RD1003 D25 W25 L120 Z03	-	25	25	3	120	30	5		
SM13278	ST RD1003 D25 W25 L150 Z03	-	25	25	3	150	40	5		
SM13308	ST RD1003 D25 C25 L200 Z03	-	25	25	3	200	50	5		
SM37113	ST RD1003 D32 W25 L120 Z03	-	32	25	3	120	30	5		
SM13254	ST RD1003 D32 W32 L120 Z03	-	32	32	3	120	30	5		
SM13285	ST RD1003 D32 W32 L150 Z03	-	32	32	3	150	40	5		
SM37120	ST RD1003 D32 W25 L150 Z03	-	32	25	3	150	30	5		
SM13315	ST RD1003 D32 C32 L200 Z03	-	32	32	3	200	50	5		
SM37137	ST RD1003 D32 C25 L200 Z03	-	32	25	3	200	30	5		
SM13322	ST RD1003 D40 W32 L120 Z04	-	40	32	4	120	30	5		
SM13339	ST RD1003 D40 W32 L150 Z04	-	40	32	4	150	30	5		
SM13346	ST RD1003 D40 C32 L200 Z04	-	40	32	4	200	30	5		
SM13353	ST RD12T3 D25 W25 L120 Z02	-	25	25	2	120	30	6	RD.. 12T3..	
SM13360	ST RD12T3 D25 W25 L150 Z02	-	25	25	2	150	40	6		
SM13377	ST RD12T3 D25 C25 L200 Z02	-	25	25	2	200	50	6		
SM37168	ST RD12T3 D32 W25 L120 Z03	-	32	25	3	120	30	6		
SM13391	ST RD12T3 D32 W32 L150 Z03	-	32	32	3	150	40	6		
SM37182	ST RD12T3 D32 W25 L150 Z03	-	32	25	3	150	30	6		
SM13407	ST RD12T3 D32 C32 L200 Z03	-	32	32	3	200	50	6		
SM39087	ST RD12T3 D32 C25 L200 Z03	-	32	25	3	200	30	6		
SM13414	ST RD12T3 D40 W32 L120 Z04	-	40	32	4	120	30	6		
SM13421	ST RD12T3 D40 W32 L150 Z04	-	40	32	4	150	30	6		
SM13438	ST RD12T3 D40 C32 L200 Z04	-	40	32	4	200	30	6		

Size Designation	Master Insert*	Spare Parts				
		Screw	Torx Key	Wedge Clamp	Clamp Screw	Screw Torque Value
						 N-m
D20	RD.. 1003..	SSV M3.5x8 SC 9510	STK-T15-9910	RDTP 9124	SSV M3.5x11 9532	2,7
D25 - D40		SSV M3.5x10-9511				
D25 - D40	RD.. 12T3					



Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	MT RD.. 0702../0803../1003../12T3.. ISO		D	Z	d1	d2	L	l	M	a	
SM56602	MT RD07 D16 M08 L25 Z02-H	✓	16	2	15	8.5	25	17	8	3.5	RDKW 0702..
SM56619	MT RD07 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	3.5	
SM56626	MT RD07 D25 M12 L35 Z04-H	✓	25	4	21	12.5	35	23	12	3.5	
SM25783	MT RD08 D16 M08 L25 Z02-H	✓	16	2	15	8.5	25	17	8	4	RD.. 0803..
SM39544	MT RD08 D20 M10 L30 Z02-H	✓	20	2	18	10.5	30	19	10	4	
SM23970	MT RD08 D20 M10 L30 Z03-H	✓	20	3	18	10.5	30	19	10	4	
SM39551	MT RD08 D25 M12 L35 Z03-H	✓	25	3	21	12.5	35	23	12	4	
SM23987	MT RD08 D25 M12 L35 Z04-H	✓	25	4	21	12.5	35	23	12	4	
SM39537	MT RD08 D35 M16 L43 Z04-H	✓	35	4	29	17	43	23	16	4	RD.. 1003..
SM15654	MT RD1003 D20 M10 L30 Z02-H	✓	20	2	18	10.5	30	19	10	5	
SM15661	MT RD1003 D25 M12 L35 Z03-H	✓	25	3	21	12.5	35	23	12	5	
SM15678	MT RD1003 D30 M16 L43 Z03-H	✓	30	3	29	17	43	23	16	5	
SM15685	MT RD1003 D32 M16 L43 Z04-H	✓	32	4	29	17	43	23	16	5	
SM15692	MT RD1003 D35 M16 L43 Z04-H	✓	35	4	29	17	43	23	16	5	
SM15647	MT RD1003 D40 M16 L43 Z04-H	✓	40	4	29	17	43	23	16	5	
SM15708	MT RD1003 D42 M16 L43 Z05-H	✓	42	5	29	17	43	23	16	5	RD.. 12T3..
SM15715	MT RD12T3 D24 M12 L35 Z02-H	✓	24	2	21	12.5	35	23	12	6	
SM15722	MT RD12T3 D25 M12 L35 Z02-H	✓	25	2	21	12.5	35	23	12	6	
SM15739	MT RD12T3 D32 M16 L43 Z03-H	✓	32	3	29	17	43	23	16	6	
SM15746	MT RD12T3 D35 M16 L43 Z03-H	✓	35	3	29	17	43	23	16	6	
SM62092	MT RD12T3 D35 M16 L43 Z04-H	✓	35	4	29	17	43	23	16	6	
SM15753	MT RD12T3 D40 M16 L43 Z04-H	✓	40	4	29	17	43	23	16	6	
SM15760	MT RD12T3 D42 M16 L43 Z04-H	✓	42	4	29	17	43	23	16	6	

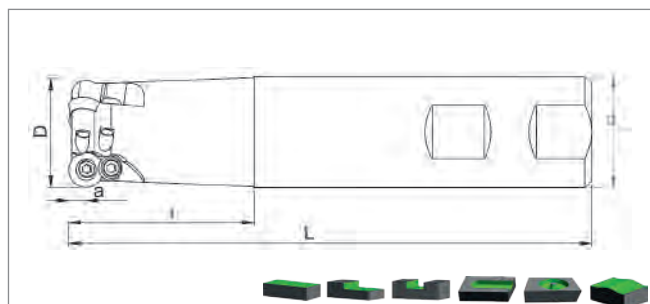
Size Designation	Master Insert*	Spare Parts				
		Screw 	Torx Key 	Wedge Clamp 	Clamp Screw 	Screw Torque Value N·m
D16 - D25	RDKW 0702..	SSV M2.5x5-9505	STK-T08-9908	-	-	1,0
D16 - D35	RD.. 0803..	SSV M3x6-9507				1,9
D20 - D42	RD.. 1003..	SSV M3.5x8-SC-9513	STK-T10-9909			2,7
D24 - D42	RD.. 12T3..	SSV M3.5x10-9511	STK-T15-9910			



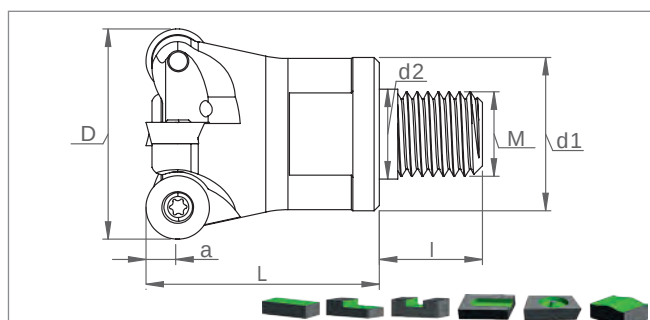
Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK RD.. 1003../12T3../1604.. ISO		<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM28180	TK RD1003 D40 A16 Z04-H	✓	40	4	16	40	5	RD.. 1003..
SM28173	TK RD1003 D50 A22 Z05-H	✓	50	5	22	40	5	
SM50242	TK RD1003 D52 A22 Z05-H	✓	52	5	22	40	5	
SM28166	TK RD1003 D63 A22 Z06-H	✓	63	6	22	40	5	
SM50259	TK RD1003 D66 A27 Z06-H	✓	66	6	27	50	5	
SM28159	TK RD1003 D80 A27 Z07-H	✓	80	7	27	50	5	
SM28142	TK RD1003 D100 A32 Z08-H	✓	100	8	32	50	5	
SM26032	TK RD1003 D125 B40 Z09	-	125	9	40	63	5	RD.. 12T3..
SM28135	TK RD12T3 D40 A16 Z04-H	✓	40	4	16	40	6	
SM28128	TK RD12T3 D50 A22 Z05-H	✓	50	5	22	40	6	
SM50266	TK RD12T3 D52 A22 Z05-H	✓	52	5	22	40	6	
SM28111	TK RD12T3 D63 A22 Z06-H	✓	63	6	22	40	6	
SM50273	TK RD12T3 D66 A27 Z06-H	✓	66	6	27	50	6	
SM28104	TK RD12T3 D80 A27 Z07-H	✓	80	7	27	50	6	
SM28098	TK RD12T3 D100 A32 Z08-H	✓	100	8	32	50	6	RD.. 1604..
SM21051	TK RD12T3 D125 B40 Z09	-	125	9	40	63	6	
SM60814	TK RD1604 D63 A22 Z04-H	✓	63	4	22	40	8	
SM33320	TK RD1604 D63 A22 Z05-H	✓	63	5	22	40	8	
SM33368	TK RD1604 D80 A27 Z06-H	✓	80	6	27	50	8	
SM33382	TK RD1604 D100 A32 Z07-H	✓	100	7	32	50	8	
SM54394	TK RD1604 D125 B40 Z08	-	125	8	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 	Wedge Clamp 	Clamp Screw 	Screw Torque Value N.m
D40 - D125	RD.. 1003..	SSV M3.5x8-SC-9513	STK-T10-9909	RDTP 9124	SSV M3.5x11 9532	2,7
D40 - D125	RD.. 12T3..	SSV M3.5x10-9511	STK-T15-9910			
D63 - D100	RD.. 1604..	SSV M4.5x11-9518	STK-T20-9911			4,7

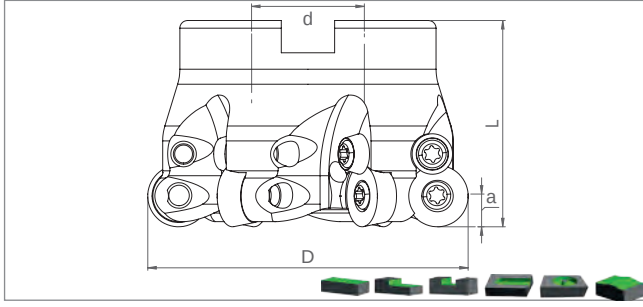


Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
	ST RD.. 10T3.. / 1204..		<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM54424	ST RD10T3 D20 W20 L150 Z02	-	20	20	2	150	40	5	RD.. 10T3..
SM54431	ST RD10T3 D25 W25 L150 Z02	-	25	25	2	150	40	5	
SM54448	ST RD10T3 D32 W32 L150 Z03	-	32	32	3	150	40	5	
SM52802	ST RD1204 D25 W25 L150 Z02	-	25	25	2	150	40	6	RD.. 1204..
SM54455	ST RD1204 D26 W25 L150 Z02	-	26	25	2	150	25	6	
SM54462	ST RD1204 D32 W32 L150 Z03	-	32	32	3	150	40	6	
SM54479	ST RD1204 D33 W32 L150 Z03	-	33	32	3	150	30	6	



Ordering Code	Item Designation	Dimensions (mm)									Master Insert*
	MT RD.. 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>	
SM54486	MT RD10T3 D20 M10 L30 Z02-H	✓	20	2	18	10.5	30	19	10	5	RD.. 10T3..
SM54493	MT RD10T3 D25 M12 L35 Z02-H	✓	25	2	21	12.5	35	23	12	5	
SM54509	MT RD10T3 D32 M16 L43 Z03-H	✓	32	3	29	17	43	23	16	5	
SM52819	MT RD1204 D32 M16 L43 Z03-H	✓	32	3	29	17	43	23	16	6	RD.. 1204..
SM54516	MT RD1204 D35 M16 L43 Z03-H	✓	35	3	29	17	43	23	16	6	
SM54523	MT RD1204 D40 M16 L43 Z04-H	✓	40	4	29	17	43	23	16	6	
SM52826	MT RD1204 D42 M16 L43 Z04-H	✓	42	4	29	17	43	23	16	6	

Size Designation	Master Insert*	Spare Parts				
		Screw 	Torx Key 	Wedge Clamp 	Clamp Screw 	Screw Torque Value N·m
D20	RD.. 10T3	SSV M3.5x8-9510	STK-T15-9910	-	-	2,7
D25 - D32		SSV M3.5x10-9511				
D32 - D42	RD.. 1204..					

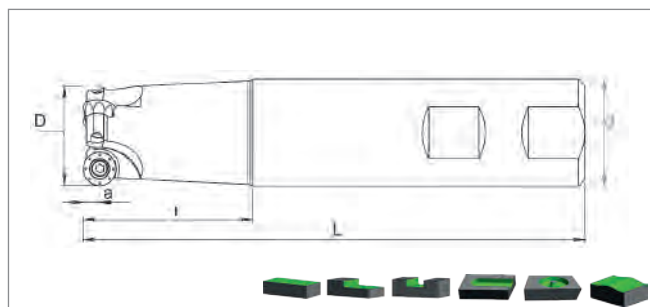


Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
	TK RD.. 10T3../1204		<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM32958	TK RD10T3 D40 A16 Z04-H	✓	40	4	16	40	5	RD.. 10T3..
SM32934	TK RD10T3 D50 A22 Z05-H	✓	50	5	22	40	5	
SM32941	TK RD10T3 D63 A22 Z06-H	✓	63	6	22	40	5	
SM32972	TK RD1204 D40 A16 Z04-H	✓	40	4	16	40	6	RD.. 1204..
SM32989	TK RD1204 D50 A22 Z05-H	✓	50	5	22	40	6	
SM33252	TK RD1204 D63 A22 Z06-H	✓	63	6	22	40	6	
SM33276	TK RD1204 D80 A27 Z07-H	✓	80	7	27	50	6	
SM33290	TK RD1204 D100 A32 Z08-H	✓	100	8	32	50	6	

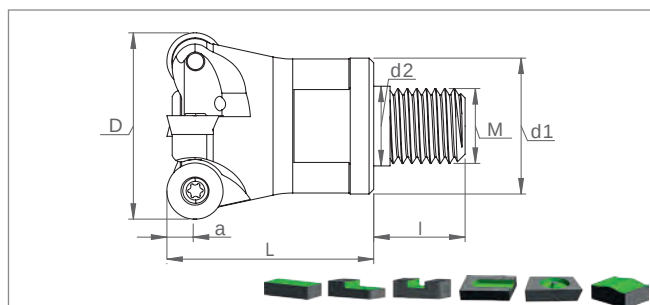
Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.



Size Designation	Master Insert*	Spare Parts				
		Screw 	Torx Key 	Wedge Clamp 	Clamp Screw 	Screw Torque Value N·m
D40 - D63	RD.. 10T3..	SSV M3.5x10-9511	STK-T15-9910	RDTP 9124	SSV M3.5x11 9532	2,7
D40 - D100	RD.. 1204..					

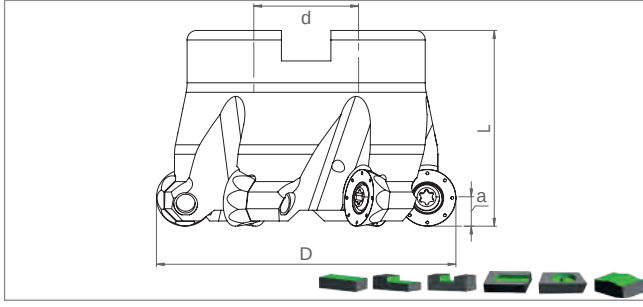


Ordering Code	Item Designation	Dimensions (mm)							Master Insert*
	ST RPMT 10T3.. / 1204..		<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM51577	ST RP10T3 D25 W25 L150 Z03-H	✓	25	25	3	150	40	5	RPMT 10T3..
SM51584	ST RP10T3 D32 W32 L150 Z04-H	✓	32	32	4	150	40	5	
SM51591	ST RP1204 D25 W25 L150 Z02-H	✓	25	25	2	150	40	6	RPMT 1204..



Ordering Code	Item Designation	Dimensions (mm)									Master Insert*
	MT RPMT 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>	
SM49888	MT RP10T3 D25 M12 L35 Z03-H	✓	25	3	21	12.5	35	23	12	5	RPMT 10T3..
SM49895	MT RP10T3 D32 M16 L43 Z04-H	✓	32	4	29	17	43	23	16	5	
SM49901	MT RP10T3 D35 M16 L43 Z04-H	✓	35	4	29	17	43	23	16	5	
SM49918	MT RP10T3 D40 M16 L43 Z04-H	✓	40	4	29	17	43	23	16	5	
SM49925	MT RP10T3 D42 M16 L43 Z05-H	✓	42	5	29	17	43	23	16	5	
SM49932	MT RP1204 D25 M12 L35 Z02-H	✓	25	2	21	12.5	35	23	12	6	RPMT 1204..
SM49949	MT RP1204 D32 M16 L43 Z03-H	✓	32	3	29	17	43	23	16	6	
SM49956	MT RP1204 D35 M16 L43 Z03-H	✓	35	3	29	17	43	23	16	6	
SM49963	MT RP1204 D40 M16 L43 Z04-H	✓	40	4	29	17	43	23	16	6	
SM49970	MT RP1204 D42 M16 L43 Z04-H	✓	42	4	29	17	43	23	16	6	

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D25 - D42	RPMT 10T3..	SSV M3.5x10- 9511	STK-T15- 9910	2,7
D25 - D42	RPMT 1204..	SSV M4x9x5- 9528		3,9

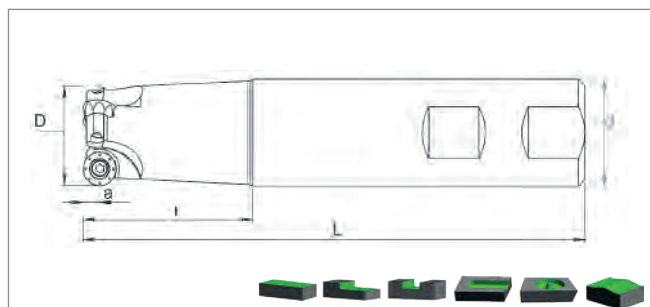


Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
	TK RPMT 10T3.. / 1204..		D	Z	d	L	a	
SM50372	TK RP10T3 D40 A16 Z04-H	✓	40	4	16	40	5	RPMT 10T3..
SM50389	TK RP10T3 D50 A22 Z05-H	✓	50	5	22	40	5	
SM50396	TK RP10T3 D52 A22 Z05-H	✓	52	5	22	40	5	
SM50402	TK RP10T3 D63 A22 Z06-H	✓	63	6	22	40	5	
SM50419	TK RP10T3 D66 A27 Z06-H	✓	66	6	27	50	5	
SM50426	TK RP10T3 D80 A27 Z07-H	✓	80	7	27	50	5	
SM50433	TK RP10T3 D100 A32 Z08-H	✓	100	8	32	50	5	RPMT 1204..
SM33764	TK RP1204 D40 A16 Z04-H	✓	40	4	16	40	6	
SM33788	TK RP1204 D50 A22 Z05-H	✓	50	5	22	40	6	
SM50334	TK RP1204 D52 A22 Z05-H	✓	52	5	22	40	6	
SM33801	TK RP1204 D63 A22 Z06-H	✓	63	6	22	40	6	
SM50341	TK RP1204 D66 A27 Z06-H	✓	66	6	27	50	6	
SM33825	TK RP1204 D80 A27 Z07-H	✓	80	7	27	50	6	
SM50365	TK RP1204 D100 A32 Z08-H	✓	100	8	32	50	6	
SM00678	TK RP1204 D125 B40 Z09	-	125	9	40	63	6	

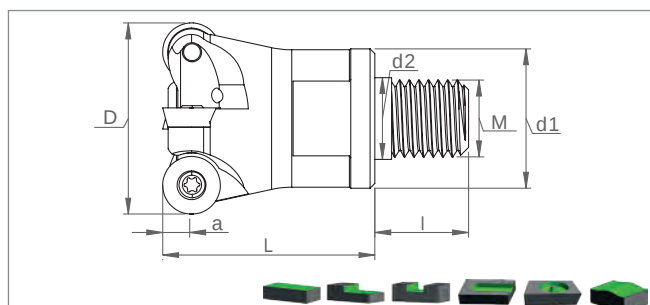
Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" içten su vermeli montaj vidaları için.



Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D40 - D100	RPMT 10T3..	SSV M3.5x10-9511	STK-T15-9910	2,7
D40 - D125	RPMT 1204..	SSV M4x9x5-9528		3,9

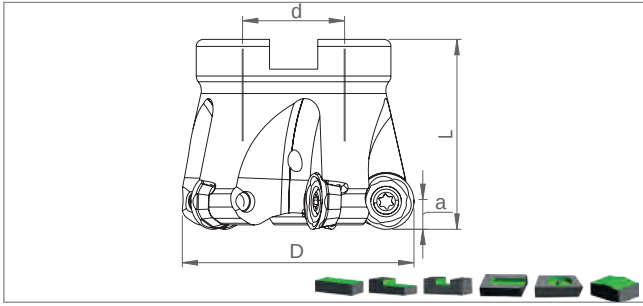


Ordering Code	Item Designation	Dimensions (mm)								Master Insert*
	<i>ST R.P.T.</i> <i>10T3../1204..</i>		<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>		
SM47105	ST RPMT10 D25 W25 L150 Z02-H	✓	25	25	2	150	40	5	RPMT 10T3..	
SM47112	ST RPMT10 D32 W32 L150 Z03-H	✓	32	32	3	150	40	5		
SM47129	ST RPMT10 D35 W32 L150 Z03-H	✓	35	32	3	150	30	5		
SM47136	ST RPMT12 D32 W32 L150 Z03-H	✓	32	32	3	150	40	6	R.P.T 1204..	
SM47143	ST RPMT12 D40 W32 L150 Z04-H	✓	40	32	4	150	30	6		



Ordering Code	Item Designation	Dimensions (mm)										Master Insert*
	<i>MT R.P.T.</i> <i>10T3../1204..</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>		
SM47068	MT RPMT10 D25 M12 L35 Z02-H	✓	25	2	21	12.5	35	23	12	5	RPMT 10T3..	
SM47075	MT RPMT10 D32 M16 L43 Z03-H	✓	32	3	29	17	43	23	16	5		
SM47082	MT RPMT12 D32 M16 L43 Z03-H	✓	32	3	29	17	43	23	16	6		
SM47099	MT RPMT12 D40 M16 L43 Z04-H	✓	40	4	29	17	43	23	16	6	RPMT 1204..	

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D25 - D35	RPMT 10T3..	SSV M3x8- 9508	STK-T08- 9908	1,9
D32 - D40	RPMT 1204..	SSV M4x10- 9514	STK-T15- 9910	3,9

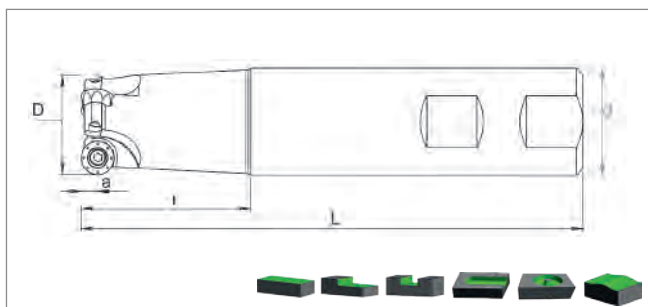


Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
	TK RPMT 10T3.. / 1204.. / 1605..		<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM46603	TK RPMT10 D40 A16 Z04-H	✓	40	4	16	40	5	RPMT 10T3..
SM46610	TK RPMT10 D50 A22 Z05-H	✓	50	5	22	40	5	
SM46627	TK RPMT10 D63 A22 Z06-H	✓	63	6	22	40	5	
SM46559	TK RPMT12 D40 A16 Z04-H	✓	40	4	16	40	6	RPMT 1204..
SM46566	TK RPMT12 D50 A22 Z05-H	✓	50	5	22	40	6	
SM46573	TK RPMT12 D52 A22 Z05-H	✓	52	5	22	40	6	
SM46580	TK RPMT12 D63 A22 Z06-H	✓	63	6	22	40	6	
SM46597	TK RPMT12 D80 A27 Z07-H	✓	80	7	27	50	6	RPMT 1605..
SM54110	TK RPMT16 D63 A22 Z04-H	✓	63	4	22	40	8	
SM54127	TK RPMT16 D80 A27 Z05-H	✓	80	5	27	50	8	
SM54134	TK RPMT16 D100 A32 Z06-H	✓	100	6	32	50	8	
SM54141	TK RPMT16 D125 B40 Z07	-	125	7	40	63	8	

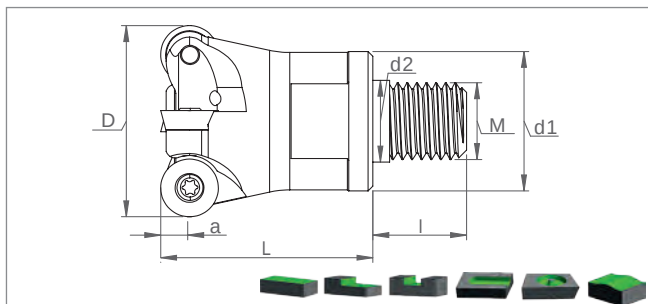
Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" İçten su vermeli montaj vidaları için.



Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D40 - D63	RPMT 10T3..	SSV M3x8- 9508	STK-T08- 9908	1,9
D40 - D80	RPMT 1204..	SSV M4x10- 9514	STK-T15- 9910	3,9
D63 - D125	RPMT 1605..	SSV M5x13- 9519	STK-T20- 9911	5,5

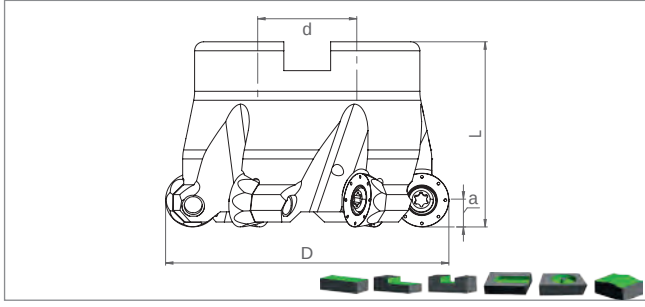


Ordering Code	Item Designation	Dimensions (mm)								Master Insert*
ST QPMT 10T3../1204..			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>		
SM22935	ST QP10 D25 W25 L150 ZO2	-	25	25	2	150	40	5	QPMT 10T3..	
SM22959	ST QP10 D32 W32 L150 ZO3	-	32	32	3	150	40	5		
SM22942	ST QP10 D25 C25 L200 ZO2	-	25	25	2	200	50	5		
SM22966	ST QP10 D32 C32 L200 ZO3	-	32	32	3	200	50	5		
SM22973	ST QP12 D25 W25 L150 ZO2	-	25	25	2	150	40	6	QPMT 1204..	



Ordering Code	Item Designation	Dimensions (mm)									Master Insert*
<i>MT QPMT 10T3..</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>	
SM23932	MT QP10T3 D25 M12 L35 Z03-H	✓	25	3	21	12.5	35	23	12	5	QPMT 10T3..
SM23949	MT QP10T3 D32 M16 L43 Z03-H	✓	32	3	29	17	43	23	16	5	
SM23956	MT QP10T3 D40 M16 L43 Z04-H	✓	40	4	29	17	43	23	16	5	

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D25 - D32	QPMT 10T3..	SSV M3.5x10-9511	STK-T15-9910	2,7
D25	QPMT 1204..	SSV M4x10-9514		3,9

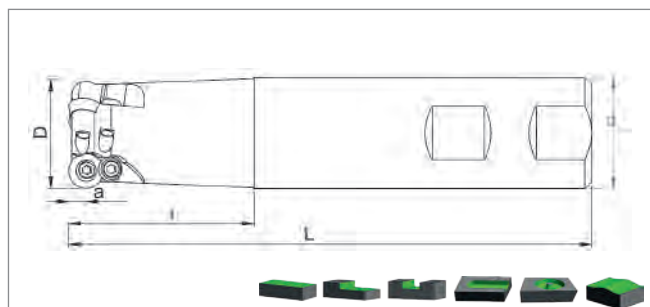


Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
	TK QPMT 10T3.. / 1204..		D	Z	d	L	a	
SM28326	TK QP10T3 D40 A16 Z04-H	✓	40	4	16	40	5	QPMT 10T3..
SM28319	TK QP10T3 D50 A22 Z05-H	✓	50	5	22	40	5	
SM28302	TK QP10T3 D63 A22 Z06-H	✓	63	6	22	40	5	
SM22652	TK QP10T3 D80 A27 Z07-H	✓	80	7	27	50	5	
SM22669	TK QP1204 D63 A22 Z06-H	✓	63	6	22	40	6	QPMT 1204..
SM22676	TK QP1204 D80 A27 Z07-H	✓	80	7	27	50	6	
SM22683	TK QP1204 D100 A32 Z09-H	✓	100	9	32	50	6	

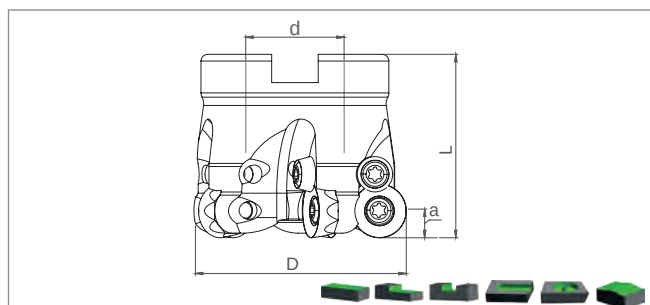
Cooling mounting screw is optional / See Page "526" for cooling mounting screws.
İçten su vermeli montaj vidaları opsiyoneldir. / Bkz. Sayfa "526" içten su vermeli montaj vidaları için.



Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D40 - D80	QPMT 10T3..	SSV M3.5x10- 9511	STK-T15- 9910	2,7
D63 - D100	QPMT 1204..	SSV M4x10- 9514		3,9



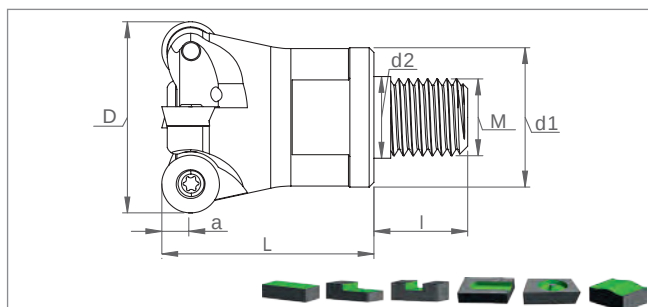
Ordering Code	Item Designation		Dimensions (mm)						Master Insert*
<i>ST RCKT 1204..</i>			<i>D</i>	<i>d</i>	<i>Z</i>	<i>L</i>	<i>l</i>	<i>a</i>	
SM51539	ST RC1204S D28 W25 L150 Z02-H	✓	28	25	2	150	30	6	RCKT 1204..
SM51546	ST RC1204S D32 W32 L150 Z03-H	✓	32	32	3	150	40	6	
SM39940	ST RC1204S D33 W32 L150 Z03	-	33	32	3	150	30	6	
SM51553	ST RC1204S D35 W32 L150 Z03-H	✓	35	32	3	150	30	6	



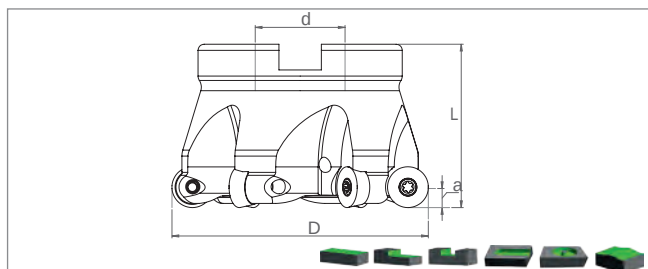
Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
<i>TK RCKT 1204..</i>			<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM33696	TK RC1204S D50 A22 Z05-H	✓	50	5	22	40	6	RCKT 1204..
SM33719	TK RC1204S D63 A22 Z06-H	✓	63	6	22	40	6	
SM33733	TK RC1204S D80 A27 Z07-H	✓	80	7	27	50	6	

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 	Wedge Clamp 	Clamp Screw 	Screw Torque Value N.m
D28 - D80	RCKT 1204..	SSV M3.5x10-9511	STK-T15-9910	RDTP 9124	SSV M3.5x11 9532	2,7

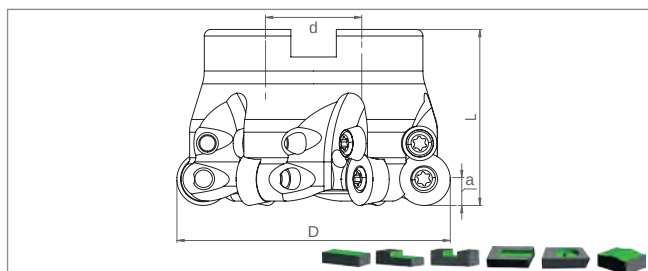


Ordering Code	Item Designation		Dimensions (mm)								Master Insert*
	MT RPNX 10T3../1204..		D	Z	d1	d2	L	l	M	a	
SM38936	MT RP10 D25 M12 L35 Z02-H	✓	25	2	21	12.5	35	23	12	5	RPNX 10T3..
SM38943	MT RP10 D30 M16 L43 Z03-H	✓	30	3	29	17	43	23	16	5	
SM38981	MT RP10 D32 M16 L43 Z03-H	✓	32	3	29	17	43	23	16	5	
SM38998	MT RP10 D35 M16 L43 Z04-H	✓	35	4	29	17	43	23	16	5	
SM39001	MT RP10 D40 M16 L43 Z04-H	✓	40	4	29	17	43	23	16	5	
SM39018	MT RP10 D42 M16 L43 Z04-H	✓	42	4	29	17	43	23	16	5	
SM39032	MT RP12 D32 M16 L43 Z03-H	✓	32	3	29	17	43	23	16	6	RPNX 1204..
SM39049	MT RP12 D35 M16 L43 Z03-H	✓	35	3	29	17	43	23	16	6	
SM39056	MT RP12 D40 M16 L43 Z04-H	✓	40	4	29	17	43	23	16	6	
SM39063	MT RP12 D42 M16 L43 Z04-H	✓	42	4	29	17	43	23	16	6	



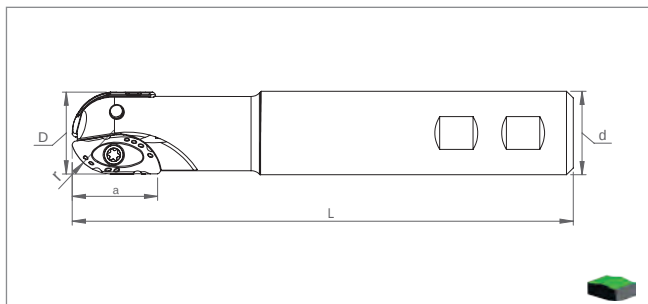
Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK RPNX 10T3../1204..		D	Z	d	L	a	
SM33535	TK RP10 D40 A16 Z04-H	✓	40	4	16	40	5	RPNX 10T3..
SM33559	TK RP10 D50 A22 Z05-H	✓	50	5	22	40	5	
SM33573	TK RP10 D63 A22 Z06-H	✓	63	6	22	40	5	
SM33597	TK RP10 D80 A27 Z07-H	✓	80	7	27	50	5	
SM33610	TK RP12 D50 A22 Z05-H	✓	50	5	22	40	6	RPNX 1204..
SM61972	TK RP12 D52 A22 Z05-H	✓	52	5	22	40	6	
SM33634	TK RP12 D63 A22 Z06-H	✓	63	6	22	40	6	
SM33658	TK RP12 D80 A27 Z07-H	✓	80	7	27	50	6	
SM33672	TK RP12 D100 A32 Z08-H	✓	100	8	32	50	6	

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N-m
D25 - D80	RPNX 10T3..	SSV M3x8- 9508	STK-T08- 9908	1,9
D32 - D100	RPNX 1204..	SSV M3.5x10- 9511	STK-T15- 9910	2,7



Ordering Code	Item Designation		Dimensions (mm)					Master Insert*
	TK RCKT 10T3.. / 1204..		<i>D</i>	<i>Z</i>	<i>d</i>	<i>L</i>	<i>a</i>	
SM33429	TK RC10 D40 A16 Z04-H	✓	40	4	16	40	5	RCKT 10T3..
SM34747	TK RC10 D50 A22 Z05-H	✓	50	5	22	40	5	
SM33450	TK RC10 D63 A22 Z06-H	✓	63	6	22	40	5	
SM33474	TK RC12 D50 A22 Z05-H	✓	50	5	22	40	6	RCKT 1204..
SM33498	TK RC12 D63 A22 Z06-H	✓	63	6	22	40	6	
SM33511	TK RC12 D80 A27 Z07-H	✓	80	7	27	50	6	

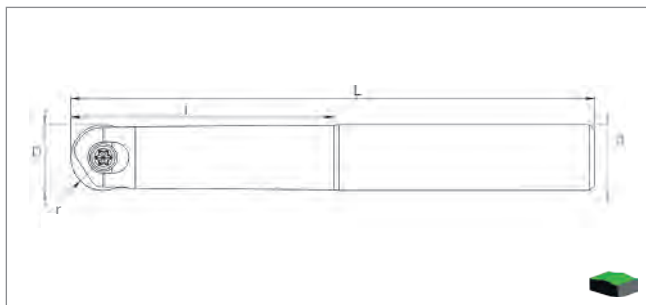
Size Designation	Master Insert*	Spare Parts				
		Screw 	Torx Key 	Wedge Clamp 	Clamp Screw 	Screw Torque Value N·m
D40 - D63	RCKT 10T3..	SSV M3.5x10- 9511	STK-T15- 9910	RDTP 9124	SSV M3.5x11- 9532	2,7
D50 - D80	RCKT 1204					



Ordering Code	Item Designation		Dimensions (mm)							Master Insert*
	SRT XPHT16R0803 / 20R10T3 / 25R1204		<i>D</i>	<i>R</i>	<i>L</i>	<i>d</i>	<i>l</i>	<i>a</i>	<i>Z</i>	
SM60821	SRT XP16 D16 C16 L150 Z02-H	✓	16	8	150	16	40	16	2	XPHT16R0803
SM60838	SRT XP20 D20 C20 L150 Z02-H	✓	20	10	150	20	45	20	2	XPHT20R10T3
SM60845	SRT XP25 D25 C25 L150 Z02-H	✓	25	12.5	150	25	55	25	2	XPHT25R1204

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Screw Torque Value N·m
D16	XPHT16R0803	SSV M2.5x6- 9505	STK-T08- 9908	1,0
D20	XPHT20R10T3	SSV M3.5x8- 9513	STK-T10- 9909	2,7
D25	XPHT25R1204	SSV M4x9x5- 9528	STK-T15- 9910	3,9

BALL NOSE END MILLS



Ordering Code	Item Designation	Dimensions (mm)						Master Insert*
	<i>SRT</i> <i>P3208 / P3210 / P3212</i> <i>P3216 / P3220 / P3225 / P3232</i>		<i>D</i>	<i>r</i>	<i>L</i>	<i>d</i>	<i>l</i>	
SM19898	SRT P3208 D08 L110 d10	-	8	4	110	10	25	P3208
SM39599	SRT P3210 D10 L130 d10	-	10	5	130	10	30	P3210
SM14886	SRT P3210 D10 L130 d12	-	10	5	130	12	30	
SM14893	SRT P3212 D12 L130 d12	-	12	6	130	12	32	P3212
SM14909	SRT P3216 D16 L175 d16	-	16	8	175	16	60	P3216
SM14916	SRT P3220 D20 L200 d20	-	20	10	200	20	75	P3220
SM14923	SRT P3225 D25 L200 d25	-	25	12.5	200	25	75	P3225
SM14930	SRT P3232 D32 L200 d32	-	32	16	200	32	75	P3232

Size Designation	Master Insert*	Spare Parts		
		Screw 	Torx Key 	Allen Key
D08	P3208	TC170 M3x0.5x7-9801	STK-T08-9908	-
D10	P3210	TC172 M4x0.5x8-9802	STK-T15-9910	-
D12	P3212	TC174 M5x0.5x9-9803	STK-T20-9911	-
D16	P3216	TC176 M5x0.5x13-9804	STK-T20-9911	-
D20	P3220	TC178 M5x0.5x17-9805	STK-T20-9911	-
D25	P3225	TC181 M6x0.75x22-9806	-	SAK-AA3-9902
D32	P3232	TC184M 8x0.75x28-9807	-	SAK-AA4-9903

