2017 Master Catalog

WIDIA™

WMT™ System •

One Platform for Grooving,
Face Grooving, Cut-Off, and Profiling

WMT

The WMT platform is the economical and reliable option for all your grooving, cut-off, turning, and profiling applications. Trust the WMT system to ensure precise insert positioning and provide only the most accurate machining with exceptionally fast cycle times and superior performance.

Versatile and Well-Constructed

- Specifically designed to increase speeds and feeds.
- Excellent geometry for even your most demanding deep grooving applications.
- The WMT system enables heavy stock removal in turning applications.
- Ensures finer surface finishes and a long, reliable tool life.

WMT™ Toolholders

- Outstanding system rigidity and clamping capabilities.
- Guarantees fast cycle times and limited turret indexes.
- Precise insert positioning for accurate machining.
- Double-V shape means operator-friendly insert indexing and optimum insert positioning.
- Choice of integral or modular holders.

The Most Advanced Turning Solutions in the Industry

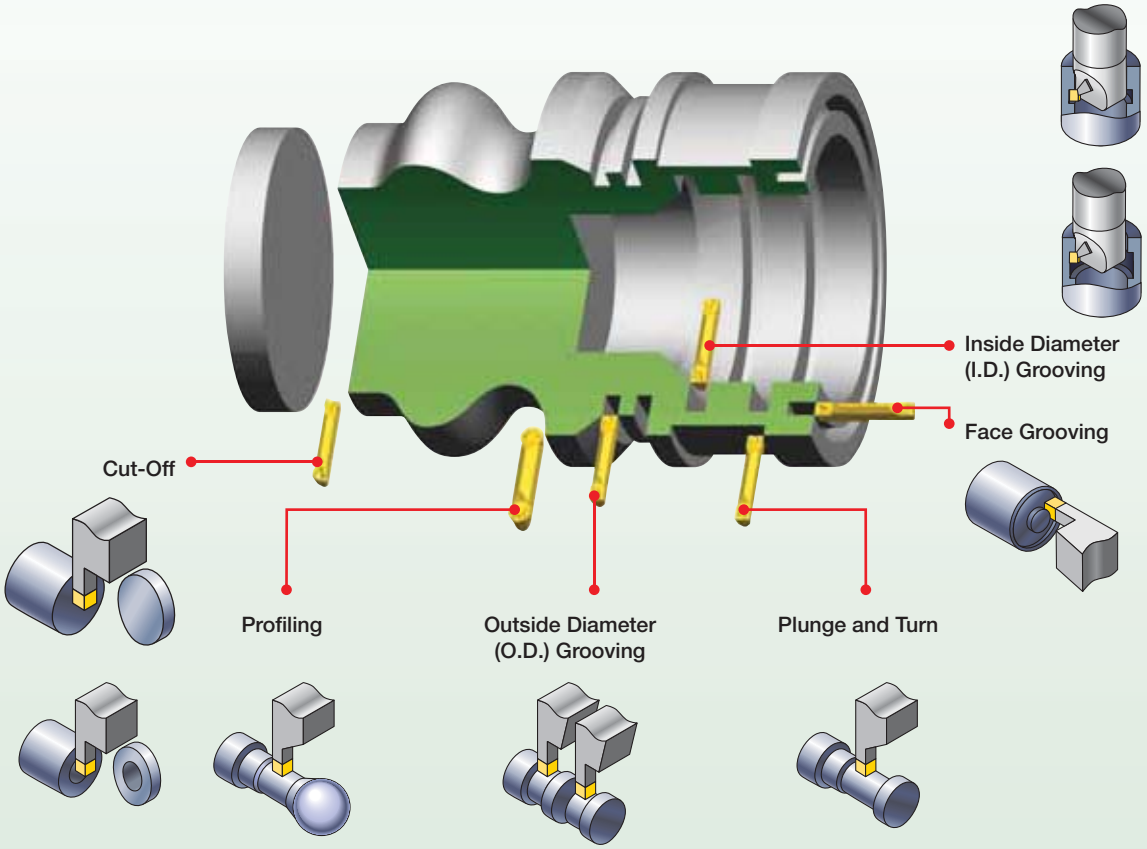
For unsurpassed quality, value, and performance, look no further than the WIDIA™ comprehensive line of specially engineered and dependable grooving and cut-off solutions. All the tools you need from the reliable name you can trust!

The WMT system, with its extra-long clamping area and precise insert positioning, ensures exceptionally fast and accurate machining, all-in-one tool, for your most demanding grooving, cut-off, turning, and profiling applications.

It is perfect for all general-purpose operations, including both shallow and deep grooving.

Utilize this handy, easy-to-use guide to identify and select the appropriate grooving and cut-off tools for your specific needs.

1 Choose the application to be performed:
Groove depth, width, and profile.



2 Identify the material to be machined:
Each tool has a material grid marked with a letter indicating the materials that can be machined.

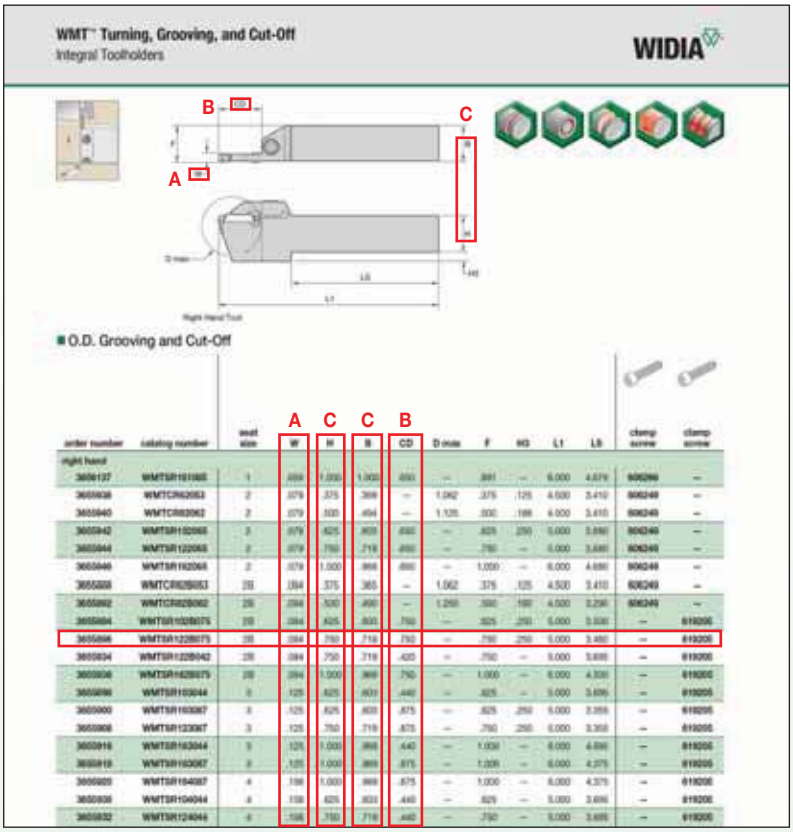
P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

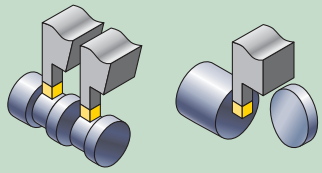
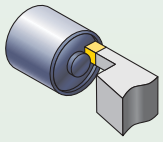
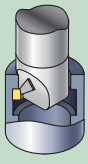
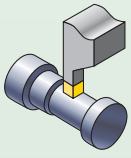
3 Select your toolholder based on the application:

A Choose the appropriate width "W" required for the application.

B Choose the shortest cutting depth "CD" dimension for increased tool rigidity.

C Select the largest toolholder shank "H" and "B" dimensions for maximum rigidity.

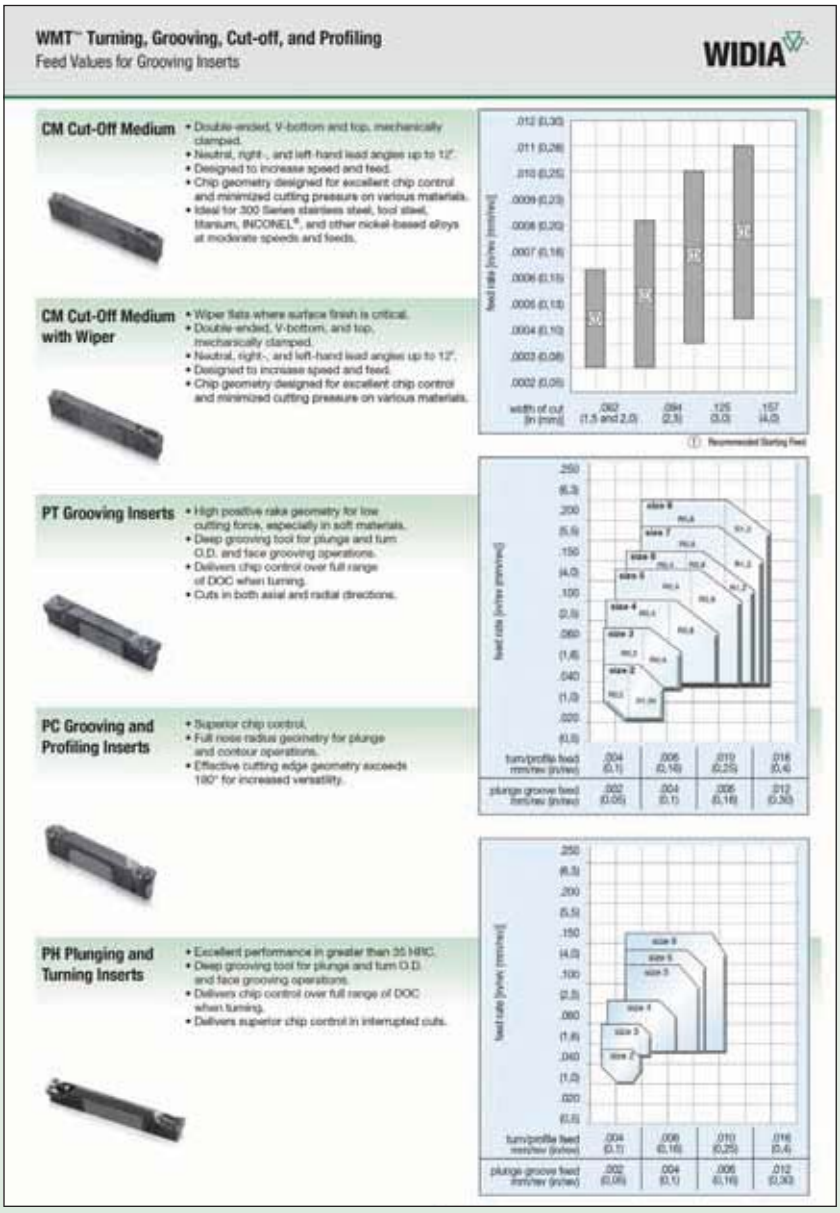


	application	conventional toolholders	modular blades
	O.D. Grooving and Cut-Off	pages E30–E33	page E39
	Face Grooving	pages E34–E35	page E40
	I.D. Grooving	page E36	–
	Plunge and Turn	pages E30–E33	page E39

4 Select chipbreaker style for the application:

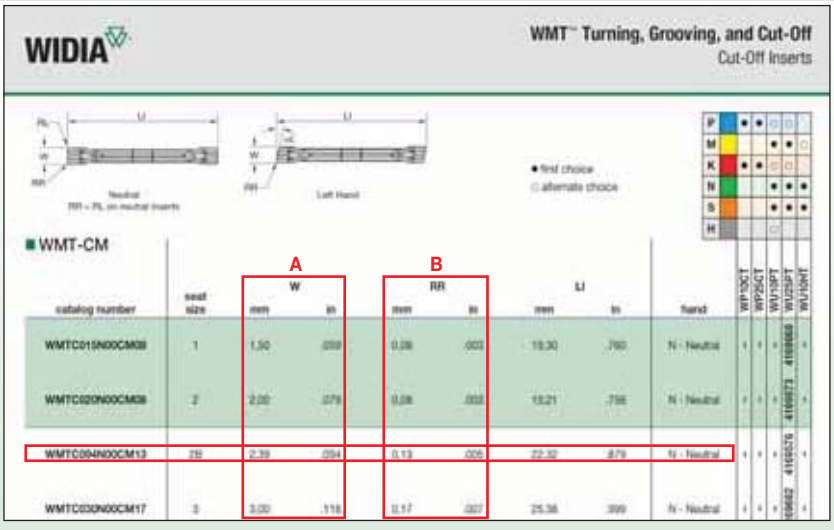
CM	Cut-Off Medium
CM-W	Cut-Off Medium with Wiper
PT	Groove, Plunge, and Turn
PC	Plunge and Contour
PH	Groove, Plunge, and Turn

NOTE: Chart shows recommended starting feed rates.



A Choose the appropriate insert width "W" for your specific application.

B Select the required corner radius value "RR".



5 Select grade:

Grooving cutting condition		Recommended Grades: steel	stainless steel	cast iron	non-ferrous metals	high-temp alloys	hardened materials
heavily interrupted cut		WU25PT	WU25PT	WU25PT	WU25PT	WU25PT	–
lightly interrupted cut		WP25CT/ WU25PT	WU25PT	WP25CT/ WU25PT	WU25PT	WU25PT	–
varying depth of cut, casting, or forging skin		WU10PT	WU10PT	WP10CT/ WU10PT	WU10PT	WU10HT/ WU10PT	WU10PT
smooth cut, pre-turned surface		WP10CT/ WU10PT	WU10PT	WP10CT/ WU10PT	WU10PT	WU10HT/ WU10PT	WU10PT

Cut-Off cutting condition		Recommended Grades: steel	stainless steel	cast iron	non-ferrous metals	high-temp alloys	hardened materials
heavily interrupted cut		WU25PT	WU25PT	WU25PT	WU25PT	WU25PT	–
lightly interrupted cut		WU25PT	WU25PT	WU25PT	WU25PT	WU25PT	–
varying depth of cut, casting, or forging skin		WU25PT	WU25PT	WU25PT	WU25PT	WU25PT	WU25PT
smooth cut, pre-turned surface		WU25PT	WU25PT	WU25PT	WU25PT	WU25PT	WU25PT

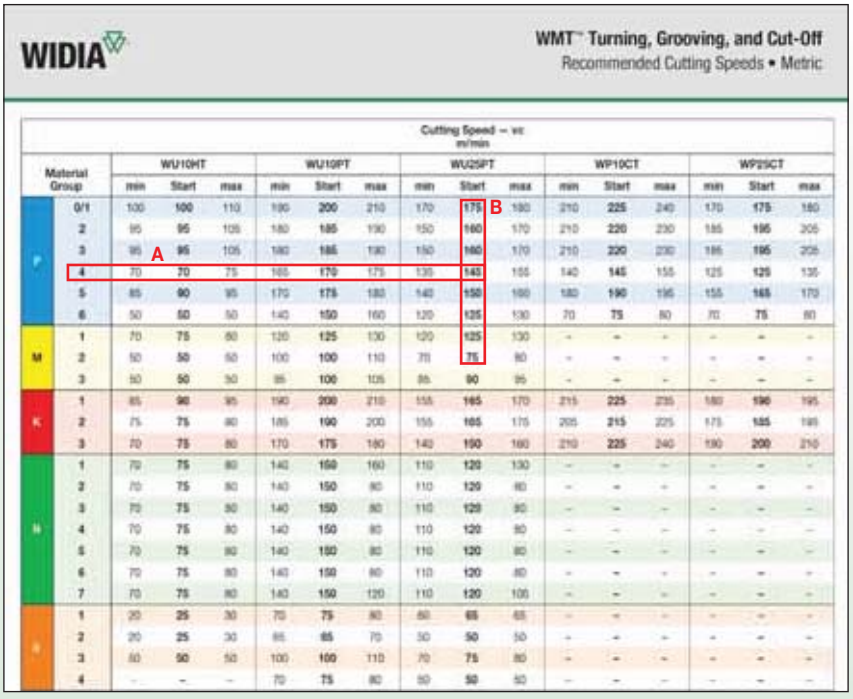
NOTE: See page E11 for Grades and Grade Descriptions.

6 Determine cutting data:

A Based on material group and grade, identify starting speed (vc).

B First choice starting speed is in **bold**.

NOTE: See pages E13–E14 for cutting data.


WIDIA

WMT™ Turning, Grooving, and Cut-Off
Recommended Cutting Speeds • Metric

Cutting Speed – vc m/min

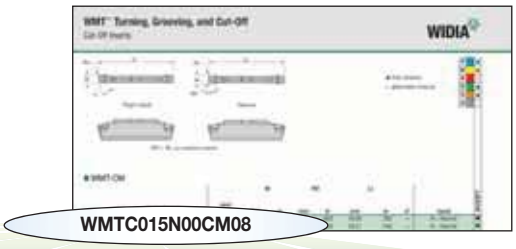
Material Group		WU10HT min	WU10HT Start	WU10HT max	WU10PT min	WU10PT Start	WU10PT max	WU25PT min	WU25PT Start	WU25PT max	WP10CT min	WP10CT Start	WP10CT max	WP25CT min	WP25CT Start	WP25CT max
P	0/1	100	**100**	110	190	**200**	210	170	**175**	180	210	**225**	240	170	**175**	180
	2	95	**95**	105	180	**185**	190	150	**160**	170	210	**220**	230	185	**195**	205
	3	95	**95**	105	180	**185**	190	150	**160**	170	210	**220**	230	185	**195**	205
	4	70	**70**	75	165	**170**	175	135	**140**	155	140	**145**	155	125	**125**	135
	5	85	**90**	95	170	**175**	180	140	**150**	160	180	**190**	195	155	**165**	170
	6	50	**50**	50	140	**150**	160	120	**125**	130	70	**75**	80	70	**75**	80
M	1	70	**75**	80	120	**125**	130	120	**125**	130	–	–	–	–	–	–
	2	50	**50**	50	100	**100**	110	70	**75**	80	–	–	–	–	–	–
	3	50	**50**	50	85	**100**	105	85	**90**	95	–	–	–	–	–	–
K	1	85	**90**	95	190	**200**	210	155	**165**	170	215	**225**	235	180	**190**	195
	2	75	**75**	80	185	**190**	200	155	**165**	175	205	**215**	225	175	**185**	195
	3	70	**75**	80	170	**175**	180	140	**150**	160	210	**225**	240	190	**200**	210
N	1	70	**75**	80	140	**150**	160	110	**120**	130	–	–	–	–	–	–
	2	70	**75**	80	140	**150**	80	110	**120**	80	–	–	–	–	–	–
	3	70	**75**	80	140	**150**	80	110	**120**	80	–	–	–	–	–	–
	4	70	**75**	80	140	**150**	80	110	**120**	80	–	–	–	–	–	–
	5	70	**75**	80	140	**150**	80	110	**120**	80	–	–	–	–	–	–
	6	70	**75**	80	140	**150**	80	110	**120**	80	–	–	–	–	–	–
	7	70	**75**	80	140	**150**	120	110	**120**	100	–	–	–	–	–	–
S	1	20	**25**	30	70	**75**	80	60	**65**	65	–	–	–	–	–	–
	2	20	**25**	30	65	**65**	70	50	**50**	50	–	–	–	–	–	–
	3	50	**50**	50	100	**100**	110	70	**75**	80	–	–	–	–	–	–
	4	–	–	–	70	**75**	80	50	**50**	50	–	–	–	–	–	–

A

B

WMT Identification System

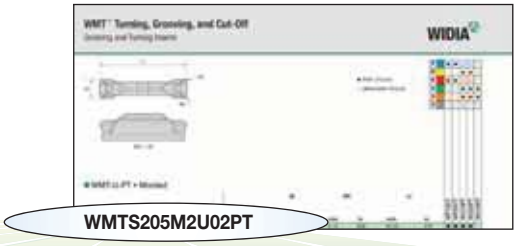
Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



WMTC015N00CM08

Cut-Off

WMT	C	015	N	00	CM	08
Tooling System	Cut-Off	W in mm* 10 inch* 1000	Hand of Insert	Main Cutting Edge Lead Angle	Chipbreaker Geometry **CM** = Cut-Off Medium **CM-W** = Cut-Off Medium with Wiper	Corner Radius in mm* 10



WMTS205M2U02PT

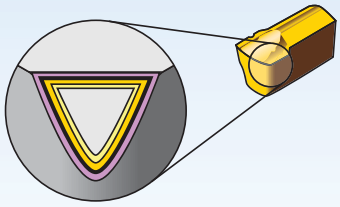
Groove, Plunge, Turn, and Contour Inserts

WMT	S	205	M	2	U	02	PT
Tooling System	Square	mm* 10 inch* 1000	Unit of Measurement for Width **M** = mm **I** = inch	Seat Size	Insert Tolerance	Corner Radius in mm* 10	Chipbreaker Geometry **PT** = Groove, Plunge, and Turn **PH** = Groove Plunge, and Turn **PC** = Plunge and Contour

P = Precision ground grooving width tolerance:
± .001" (0,025mm)

U = Utility molded grooving width tolerance:

3,05–4,05:	+ .006" / -0	(+0,15mm) / -0
5,05–10,05:	+ .010" / -0	(+0,25mm) / -0

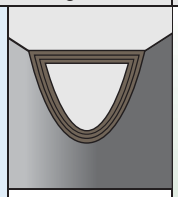
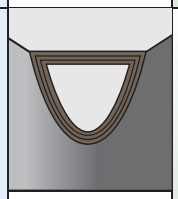
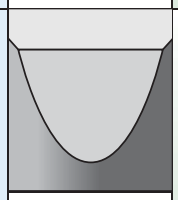
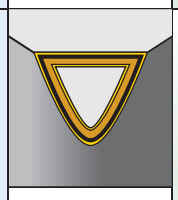
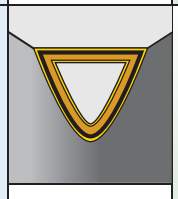


Coatings provide high-speed capability and are engineered for finishing to heavy roughing.

P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous
S	High-Temp Alloys
H	Hardened Materials

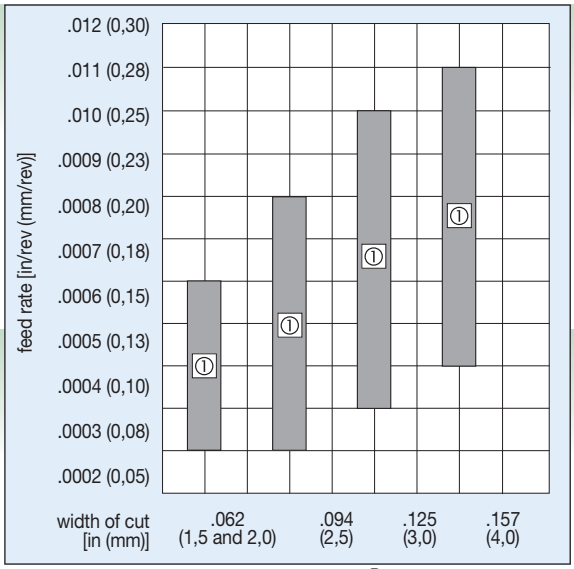
wear resistance ← → toughness

Grade

Coating	Grade Description	05	10	15	20	25	30	35	40	45
WU10PT  **HC-P15**	An advanced PVD-TiAlN coating over a very deformation-resistant unalloyed carbide substrate. The WU10PT™ grade's new and improved coating enables speeds to be increased by 50–100%. The WU10PT grade is ideal for finishing to general machining of most workpiece materials at higher speeds. Excellent for machining most steels, stainless steels, cast irons, non-ferrous materials, and super alloys under stable conditions. It also performs well machining hardened and short chipping materials.			P, M, K, N, S, H	P, M, K, N, S	P, M, K, N, S				
WU25PT  **HC-P30**	An advanced PVD-TiAlN-coated grade with a tough, ultra-fine-grain, unalloyed substrate. For general-purpose machining of most steels, stainless steels, high-temperature alloys, titanium, irons, and non-ferrous materials. Speeds may vary from low to medium and will handle interruptions and high feed rates.			P, M, K, N, S, H	P, M, K, N, S	P, M, K, N, S	P, M, K, N, S			
WU10HT  **HW-K15**	A hard, low binder content, unalloyed WC/Co fine-grained uncoated grade. Exceptional edge wear resistance combined with very high strength for machining titanium, cast irons, austenitic stainless steels, non-ferrous metals, non-metals, and most high-temperature alloys. Superior thermal deformation and depth-of-cut notch resistance. The grain structure is well controlled for minimal pits and flaws, which contributes to long, reliable service.		M, K, N, S	M, K, N, S	M, K, N, S					
WP10CT  **HC-P10**	A specially engineered, proprietary, cobalt-enriched carbide grade with thick K-MTCVD-TiCN coating layer, an Al_2O_3 layer of controlled grain size, and outer layers of TiCN and TiN for maximum wear resistance. An excellent finishing to medium machining grade for a variety of workpiece materials including most steels, ferritic and martensitic stainless steels, and cast irons. The specially engineered cobalt-enriched substrate offers a balanced combination of deformation resistance and edge toughness, while the thick coating layers offer outstanding abrasion resistance and crater wear resistance for high-speed machining. The smooth coating provides good resistance to edge build-up and microchipping and produces excellent surface finishes.			P, K	P, K	P, K				
WP25CT  **HC-P25**	A tough cobalt-enriched carbide grade with a newly designed multilayer K-MTCVD TiCN-Al_2O_3-TiCNTiN coating with superior interlayer adhesion. This is the industry's best general-purpose turning grade for most steels and ferritic and martensitic stainless steels. The substrate design, with cobalt-enrichment, ensures adequate deformation resistance along with excellent bulk toughness and insert edge strength. The coating layers offer good wear resistance over a wide range of machining conditions. The smoothness of the coating leads to reduced frictional heat, minimizes microchipping, and improves workpiece surface finishes.			P, K	P, K	P, K	P, K			

CM Cut-Off Medium

- Double-ended, V-bottom and top, mechanically clamped.
- Neutral, right-, and left-hand lead angles up to 12°.
- Designed to increase speed and feed.
- Chip geometry designed for excellent chip control and minimized cutting pressure on various materials.
- Ideal for 300 Series stainless steel, tool steel, titanium, INCONEL®, and other nickel-based alloys at moderate speeds and feeds.

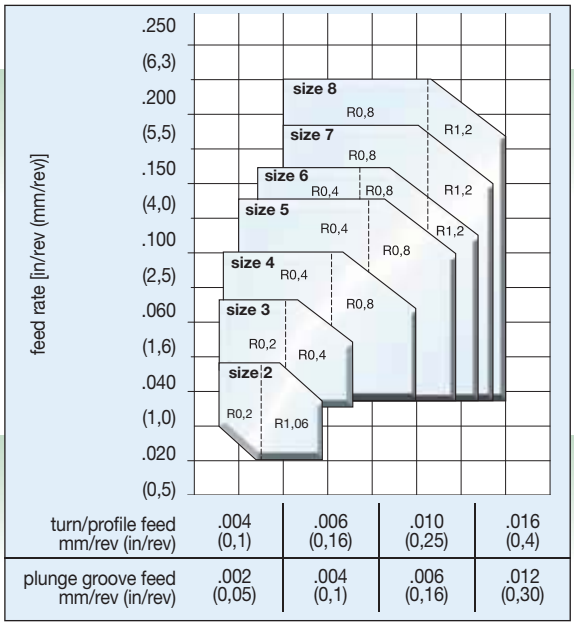


CM-W Cut-Off Medium with Wiper

- Wiper flats where surface finish is critical.
- Double-ended, V-bottom, and top, mechanically clamped.
- Neutral, right-, and left-hand lead angles up to 12°.
- Designed to increase speed and feed.
- Chip geometry designed for excellent chip control and minimized cutting pressure on various materials.

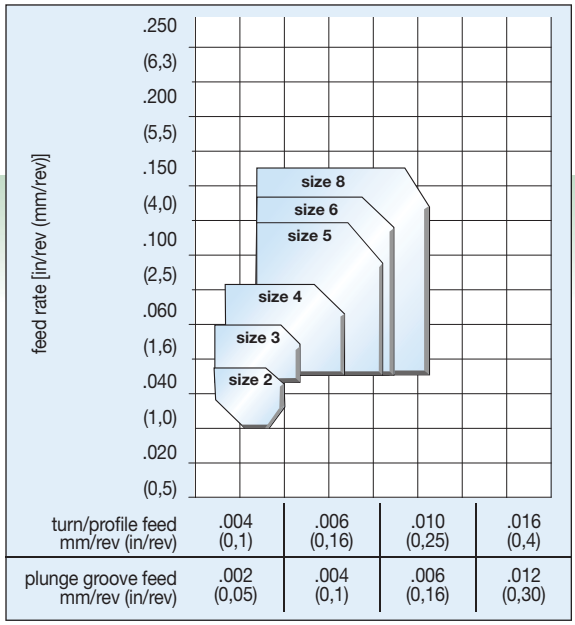
PT Plunge, Groove, and Turn Inserts

- High positive rake geometry for low cutting force, especially in soft materials.
- Deep grooving tool for plunge and turn O.D. and face grooving operations.
- Delivers chip control over full range of DOC when turning.
- Cuts in both axial and radial directions.



PC Grooving and Profiling Inserts

- Superior chip control.
- Full nose radius geometry for plunge and contour operations.
- Effective cutting edge geometry exceeds 180° for increased versatility.

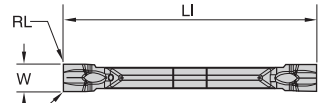


PH Plunge, Groove, and Turn Inserts

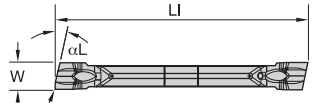
- Excellent performance in greater than 35 HRC.
- Deep grooving tool for plunge and turn O.D. and face grooving operations.
- Delivers chip control over full range of DOC when turning.
- Delivers superior chip control in interrupted cuts.

Material Group		Cutting Speed — vc m/min														
		WU10HT			WU10PT			WU25PT			WP10CT			WP25CT		
		min	Start	max	min	Start	max	min	Start	max	min	Start	max	min	Start	max
P	0/1	100	**100**	110	190	**200**	210	170	**175**	180	210	**225**	240	170	**175**	180
	2	95	**95**	105	180	**185**	190	150	**160**	170	210	**220**	230	185	**195**	205
	3	95	**95**	105	180	**185**	190	150	**160**	170	210	**220**	230	185	**195**	205
	4	70	**70**	75	165	**170**	175	135	**145**	155	140	**145**	155	125	**125**	135
	5	85	**90**	95	170	**175**	180	140	**150**	160	180	**190**	195	155	**165**	170
	6	50	**50**	50	140	**150**	160	120	**125**	130	70	**75**	80	70	**75**	80
M	1	70	**75**	80	120	**125**	130	120	**125**	130	–	**–**	–	–	**–**	–
	2	50	**50**	50	100	**100**	110	70	**75**	80	–	**–**	–	–	**–**	–
	3	50	**50**	50	95	**100**	105	85	**90**	95	–	**–**	–	–	**–**	–
K	1	85	**90**	95	190	**200**	210	155	**165**	170	215	**225**	235	180	**190**	195
	2	75	**75**	80	185	**190**	200	155	**165**	175	205	**215**	225	175	**185**	195
	3	70	**75**	80	170	**175**	180	140	**150**	160	210	**225**	240	190	**200**	210
N	1	70	**75**	80	140	**150**	160	110	**120**	130	–	**–**	–	–	**–**	–
	2	70	**75**	80	140	**150**	80	110	**120**	80	–	**–**	–	–	**–**	–
	3	70	**75**	80	140	**150**	80	110	**120**	80	–	**–**	–	–	**–**	–
	4	70	**75**	80	140	**150**	80	110	**120**	80	–	–	–	–	–	–
	5	70	**75**	80	140	**150**	80	110	**120**	80	–	**–**	–	–	**–**	–
	6	70	**75**	80	140	**150**	80	110	**120**	80	–	**–**	–	–	**–**	–
	7	70	**75**	80	140	**150**	120	110	**120**	105	–	**–**	–	–	**–**	–
S	1	20	**25**	30	70	**75**	80	60	**65**	65	–	**–**	–	–	**–**	–
	2	20	**25**	30	65	**65**	70	50	**50**	50	–	**–**	–	–	**–**	–
	3	50	**50**	50	100	**100**	110	70	**75**	80	–	**–**	–	–	**–**	–
	4	–	**–**	–	70	**75**	80	50	**50**	50	–	**–**	–	–	**–**	–
H	1	–	**–**	–	15	**30**	60	15	**30**	60	–	**–**	–	–	**–**	–
	2	–	**–**	–	15	**30**	60	15	**30**	60	–	**–**	–	–	**–**	–
	3	–	**–**	–	15	**30**	60	15	**30**	60	–	**–**	–	–	**–**	–
	4	–	**–**	–	15	**30**	60	15	**30**	60	–	**–**	–	–	**–**	–

Material Group		Cutting Speed — vc SFM														
		WU10HT			WU10PT			WU25PT			WP10CT			WP25CT		
		min	Start	max	min	Start	max	min	Start	max	min	Start	max	min	Start	max
P	0/1	290	**300**	320	620	**650**	680	520	**550**	580	670	**700**	740	590	**625**	660
	2	310	**325**	345	570	**600**	630	520	**545**	575	680	**720**	760	595	**625**	655
	3	310	**325**	345	570	**600**	630	520	**545**	575	680	**720**	760	595	**625**	655
	4	195	**205**	220	520	**545**	575	475	**495**	520	445	**470**	495	385	**405**	430
	5	265	**275**	290	520	**550**	580	480	**500**	530	580	**615**	645	510	**540**	565
	6	120	**125**	130	480	**500**	530	430	**450**	470	260	**275**	290	240	**250**	260
M	1	240	**250**	260	430	**450**	470	400	**425**	450	–	**–**	–	–	**–**	–
	2	140	**150**	160	310	**325**	340	290	**300**	320	–	**–**	–	–	**–**	–
	3	155	**165**	170	310	**325**	340	285	**300**	315	–	**–**	–	–	**–**	–
K	1	240	**250**	265	595	**625**	660	550	**575**	605	690	**725**	760	595	**625**	655
	2	225	**235**	245	610	**640**	675	555	**585**	615	665	**700**	735	570	**600**	630
	3	240	**250**	260	520	**550**	580	480	**500**	530	710	**750**	790	620	**650**	680
N	1	240	**250**	260	480	**500**	530	380	**400**	420	–	**–**	–	–	**–**	–
	2	240	**250**	260	480	**500**	530	380	**400**	420	–	**–**	–	–	**–**	–
	3	240	**250**	260	480	**500**	530	380	**400**	420	–	**–**	–	–	**–**	–
	4	240	**250**	260	480	**500**	530	380	**400**	420	–	–	–	–	–	–
	5	240	**250**	260	480	**500**	530	380	**400**	420	–	**–**	–	–	**–**	–
	6	240	**250**	260	480	**500**	530	380	**400**	420	–	**–**	–	–	**–**	–
	7	240	**250**	260	480	**500**	530	380	**400**	420	–	**–**	–	–	**–**	–
S	1	110	**115**	120	235	**250**	265	215	**225**	235	–	**–**	–	–	**–**	–
	2	55	**60**	60	195	**210**	220	195	**210**	220	–	**–**	–	–	**–**	–
	3	190	**200**	210	310	**325**	340	290	**300**	320	–	**–**	–	–	**–**	–
	4	100	**100**	110	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–
H	1	–	**–**	–	60	**100**	200	60	**100**	200	–	**–**	–	–	**–**	–
	2	–	**–**	–	60	**100**	200	60	**100**	200	–	**–**	–	–	**–**	–
	3	–	**–**	–	60	**100**	200	60	**100**	200	–	**–**	–	–	**–**	–
	4	–	**–**	–	60	**100**	200	60	**100**	200	–	**–**	–	–	**–**	–



Neutral
RR = RL on neutral inserts



Left Hand

● first choice
○ alternate choice

P	●	●	○	○		
M			●	●	○	
K	●	●	○	○		
N			●	●	●	
S			●	●	●	
H			○			

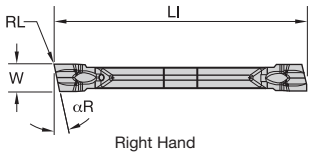
WMT-CM

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	hand	WP10CT	WP25CT	WU10PT	WU25PT	WU10HT
WMTC015N00CM08	1	1,50	.059	0,08	.003	19,30	.760	N - Neutral	'	'	'	4169668	'
WMTC020N00CM08	2	2,00	.079	0,08	.003	19,21	.756	N - Neutral	'	'	'	4169673	'
WMTC094N00CM13	2B	2,39	.094	0,13	.005	22,32	.879	N - Neutral	'	'	'	4169576	'
WMTC030N00CM17	3	3,00	.118	0,17	.007	25,40	1.000	N - Neutral	'	'	'	4169682	'
WMTC125N00CM17	3	3,17	.125	0,17	.007	25,41	1.000	N - Neutral	'	'	'	4169582	'
WMTC040N00CM17	4	4,00	.157	0,17	.007	25,40	1.000	N - Neutral	'	'	'	4169692	'

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	αL	hand	WP10CT	WP25CT	WU10PT	WU25PT	WU10HT
WMTC015L05CM08	1	1,50	.059	0,08	.003	19,31	.760	5	L - Left	'	'	'	4169671	'
WMTC020L05CM08	2	1,99	.079	0,08	.003	19,21	.756	5	L - Left	'	'	'	4169677	'
WMTC020L12CM08	2	2,00	.079	0,08	.003	19,25	.758	12	L - Left	'	'	'	4169680	'
WMTC030L12CM17	3	3,00	.118	0,17	.007	25,40	1.000	12	L - Left	'	'	'	4169690	'
WMTC030L05CM17	3	3,00	.118	0,17	.007	25,40	1.000	5	L - Left	'	'	'	4169686	'
WMTC040L12CM17	4	4,00	.157	0,17	.007	25,40	1.000	12	L - Left	'	'	'	4169697	'
WMTC040L05CM17	4	4,00	.157	0,17	.007	25,40	1.000	5	L - Left	'	'	'	4169695	'

(continued)

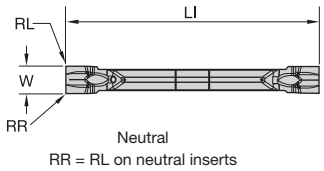
(WMT-CM — continued)



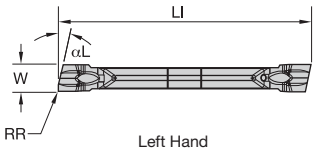
● first choice
○ alternate choice

P		●	●	○	○										
M				●	●	○									
K		●	●	○	○										
N				●	●	●									
S				●	●	●									
H				○											

catalog number	seat size	W mm	W in	RL mm	RL in	LI mm	LI in	αR	hand	WP10CT	WP25CT	WU10PT	WU25PT	WU10HT
WMTC015R12CM08	1	1,50	.059	0,08	.003	19,28	.759	12	R - Right	■	■	■	4169672	■
WMTC015R05CM08	1	1,50	.059	0,08	.003	19,31	.760	5	R - Right	■	■	■	4169670	■
WMTC020R05CM08	2	2,00	.079	0,08	.003	19,26	.758	5	R - Right	■	■	■	4169675	■
WMTC020R12CM08	2	2,00	.079	0,08	.003	19,26	.758	12	R - Right	■	■	■	4169678	■
WMTC094R12CM13	2B	2,39	.094	0,13	.005	22,28	.877	12	R - Right	■	■	■	4169580	■
WMTC094R05CM13	2B	2,39	.094	0,13	.005	22,32	.879	5	R - Right	■	■	■	4169578	■
WMTC030R05CM17	3	3,00	.118	0,17	.007	25,40	1.000	5	R - Right	■	■	■	4169684	■
WMTC030R12CM17	3	3,00	.118	0,17	.007	25,40	1.000	12	R - Right	■	■	■	4169688	■
WMTC125R05CM17	3	3,17	.125	0,17	.007	25,40	1.000	5	R - Right	■	■	■	4169664	■
WMTC125R12CM17	3	3,18	.125	0,17	.007	25,40	1.000	12	R - Right	■	■	■	4169666	■
WMTC040R12CM17	4	4,00	.157	0,17	.007	25,40	1.000	12	R - Right	■	■	■	4169696	■
WMTC040R05CM17	4	4,00	.157	0,17	.007	25,40	1.000	5	R - Right	■	■	■	4169694	■



Neutral
RR = RL on neutral inserts



Left Hand

● first choice
○ alternate choice

P		●	●	○	○	
M				●	●	○
K		●	●	○	○	
N				●	●	●
S				●	●	●
H				○		

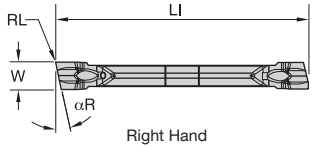
WMT-CM-W

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	hand	WP10CT	WP25CT	WU10PT	WU25PT	WU10HT
WMTC015N00CMW08	1	1,50	.059	0,08	.003	19,30	.760	N - Neutral	'	'	'	4169669	'
WMTC020N00CMW08	2	2,00	.079	0,08	.003	19,21	.756	N - Neutral	'	'	'	4169674	'
WMTC094N00CMW13	2B	2,39	.094	0,13	.005	22,32	.879	N - Neutral	'	'	'	4169577	'
WMTC030N00CMW17	3	3,00	.118	0,17	.007	25,40	1.000	N - Neutral	'	'	'	4169683	'
WMTC125N00CMW17	3	3,18	.125	0,17	.007	25,41	1.000	N - Neutral	'	'	'	4169663	'
WMTC040N00CMW17	4	4,00	.157	0,17	.007	25,40	1.000	N - Neutral	'	'	'	4169693	'

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	αL	hand	WP10CT	WP25CT	WU10PT	WU25PT	WU10HT
WMTC020L12CMW08	2	2,00	.079	0,08	.003	19,27	.758	12	L - Left	'	'	'	4169681	'
WMTC030L12CMW17	3	3,00	.118	0,17	.007	25,40	1.000	12	L - Left	'	'	'	4169691	'
WMTC030L05CMW17	3	3,00	.118	0,17	.007	25,40	1.000	5	L - Left	'	'	'	4169687	'

(continued)

(WMT-CM-W — continued)

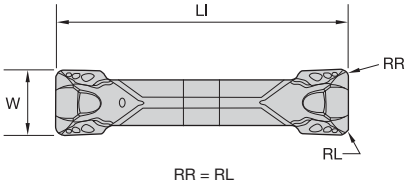


Right Hand

● first choice
○ alternate choice

P		●	●	○	○										
M				●	●	○									
K		●	●	○	○										
N				●	●	●									
S				●	●	●									
H				○											

catalog number	seat size	W mm	W in	RL mm	RL in	LI mm	LI in	αR	hand	WP10CT	WP25CT	WU10PT	WU25PT	WU10HT
WMTC020R05CMW08	2	2,00	.079	0,08	.003	19,20	.756	5	R - Right	■	■	■	4169676	■
WMTC020R12CMW08	2	2,00	.079	0,08	.003	19,27	.758	12	R - Right	■	■	■	4169679	■
WMTC094R12CMW13	2B	2,39	.094	0,13	.005	22,29	.877	12	R - Right	■	■	■	4169581	■
WMTC094R05CMW13	2B	2,39	.094	0,13	.005	22,32	.879	5	R - Right	■	■	■	4169579	■
WMTC030R05CMW17	3	3,00	.118	0,17	.007	25,40	1.000	5	R - Right	■	■	■	4169685	■
WMTC030R12CMW17	3	3,00	.118	0,17	.007	25,40	1.000	12	R - Right	■	■	■	4169689	■
WMTC125R05CMW17	3	3,17	.125	0,17	.007	25,41	1.000	5	R - Right	■	■	■	4169665	■
WMTC125R12CMW17	3	3,17	.125	0,17	.007	25,41	1.000	12	R - Right	■	■	■	4169667	■

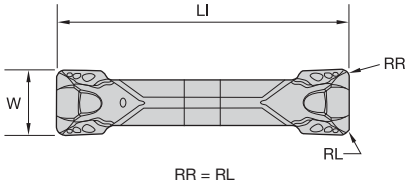


● first choice
○ alternate choice

		WP10CT	WP25CT	WU10PT	WU25PT	WU10HT
P		●	●	○	○	
M				●	●	○
K		●	●	○	○	
N				●	●	●
S				●	●	●
H				○		

■ WMT-U-PT • Molded

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in					
WMTS205M2U02PT	2	2,05	.081	0,15	.006	19,23	.757	4169554	4169555	4116131	4116132	-
WMTS305M3U03PT	3	3,05	.120	0,31	.012	25,81	1.016	4169556	4169557	4113568	4113569	-
WMTS305M3U06PT	3	3,05	.120	0,61	.024	25,78	1.015	4169558	4169559	4113570	4113571	-
WMTS405M4U03PT	4	4,05	.159	0,31	.012	25,53	1.005	4169560	4169561	4113577	4113578	-
WMTS405M4U06PT	4	4,05	.159	0,61	.024	25,53	1.005	4169562	4169563	4113579	4113580	-
WMTS505M5U03PT	5	5,05	.199	0,30	.012	28,76	1.320	4169564	4169565	4116148	4116149	-
WMTS505M5U06PT	5	5,05	.199	0,61	.024	28,76	1.320	4169566	4169567	4116150	4116151	-
WMTS605M6U03PT	6	6,05	.238	0,30	.012	28,76	1.320	4169568	4169569	4117253	4117254	-
WMTS605M6U06PT	6	6,05	.238	0,59	.023	28,76	1.320	4169570	4169571	4117255	4117256	-
WMTS805M8U06PT	8	8,05	.317	0,61	.024	28,70	1.130	4169572	4169573	4117261	4117262	-
WMTS805M8U15PT	8	8,05	.317	1,50	.059	28,71	1.130	4169574	4169575	4117263	4117264	-



● first choice
○ alternate choice

P	●	●	○	○		
M			●	●	○	
K	●	●	○	○		
N			●	●	●	
S			●	●	●	
H			○			

■ WMT-P-PT • Precision

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	WP10CT	WP25CT	WU10PT	WU25PT	WU10HT
WMTS200M2P02PT	2	2,00	.079	0,15	.006	19,10	.752	■	■	4116129	4116130	■
WMTS094I2BP02PT	2B	2,38	.094	0,15	.006	22,15	.872	■	■	4118451	4118452	■
WMTS094I2BP04PT	2B	2,38	.094	0,38	.015	22,14	.872	■	■	4118583	4118584	■
WMTS300M3P03PH	3	3,00	.118	0,30	.012	25,65	1.010	■	■	5346412	5346413	5346414
WMTS300M3P03PT	3	3,00	.118	0,31	.012	25,65	1.010	■	■	4113563	4113564	4113566
WMTS300M3P06PH	3	3,00	.118	0,60	.024	25,65	1.010	■	■	5346415	5346416	5346417
WMTS300M3P06PT	3	3,00	.118	0,61	.024	25,65	1.010	■	■	4113565	4113567	■
WMTS125I3P03PT	3	3,17	.125	0,23	.009	25,40	1.000	■	■	4118585	4118586	■
WMTS125I3P08PT	3	3,17	.125	0,76	.030	25,40	1.000	■	■	4118587	4118588	■
WMTS125I3P03PH	3	3,18	.125	0,25	.010	25,40	1.000	■	■	5345914	5291300	■
WMTS125I3P08PH	3	3,18	.125	0,75	.030	25,40	1.000	■	■	5345915	5331093	■
WMTS156I4P03PH	4	3,95	.156	0,30	.012	25,40	1.000	■	■	5345916	5345917	■
WMTS156I4P08PH	4	3,96	.156	0,75	.030	25,40	1.000	■	■	5345918	5345919	■
WMTS400M4P03PH	4	4,00	.157	0,30	.012	25,40	1.000	■	■	5346418	5346419	5346420
WMTS400M4P03PT	4	4,00	.157	0,31	.012	25,40	1.000	■	■	4113572	4113574	4113573
WMTS400M4P06PH	4	4,00	.157	0,60	.024	25,40	1.000	■	■	5346421	5346422	5346423

(continued)

(WMT-P-PT • Precision — continued)

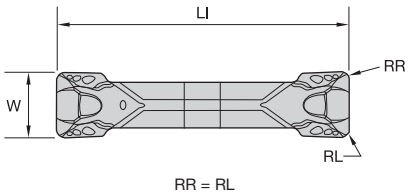
● first choice
○ alternate choice

P		●	●	○	○							
M				●	●	○						
K		●	●	○	○							
N				●	●	●						
S				●	●	●						
H				○								

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	WP10CT	WP25CT	WU10PT	WU25PT	WU10HT
WMTS400M4P06PT	4	4,00	.157	0,60	.024	25,40	1.000	●	●	4113575	4113576	●
WMTS188I5P03PT	5	4,76	.188	0,26	.010	28,63	1.127	●	●	4118589	4118590	●
WMTS188I5P03PH	5	4,77	.188	0,25	.010	28,63	1.127	●	●	5345980	5331095	●
WMTS188I5P08PH	5	4,77	.188	0,75	.030	28,63	1.127	●	●	5345981	5331097	●
WMTS188I5P08PT	5	4,77	.188	0,76	.030	28,63	1.127	●	●	4118591	4118592	●
WMTS500M5P03PH	5	5,00	.197	0,30	.012	28,63	1.127	●	●	5346424	5346425	5346426
WMTS500M5P03PT	5	5,00	.197	0,30	.012	28,63	1.127	●	●	4116143	4116144	4116145
WMTS500M5P06PH	5	5,00	.197	0,60	.024	28,63	1.127	●	●	5346427	5346428	5346429
WMTS500M5P06PT	5	5,00	.197	0,61	.024	28,63	1.127	●	●	4116146	4116147	●
WMTS600M6P03PH	6	6,00	.236	0,30	.012	28,63	1.127	●	●	5346430	5346431	●
WMTS600M6P03PT	6	6,00	.236	0,30	.012	28,63	1.127	●	●	4117239	4117240	●
WMTS600M6P06PT	6	6,00	.236	0,58	.022	28,63	1.127	●	●	4117241	4117242	●
WMTS600M6P06PH	6	6,00	.236	0,60	.024	28,63	1.127	●	●	5346432	5346433	●
WMTS250I6P08PH	6	6,32	.249	0,75	.030	28,63	1.127	●	●	5345984	5327621	●
WMTS250I6P08PT	6	6,34	.250	0,76	.030	28,63	1.127	●	●	4118595	4118596	●
WMTS250I6P03PH	6	6,35	.250	0,25	.010	28,63	1.127	●	●	5345983	5327620	●

(continued)

(WMT-P-PT • Precision — continued)

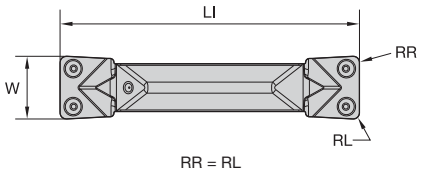


RR = RL

● first choice
○ alternate choice

P		●	●	○	○							
M				●	●	○						
K		●	●	○	○							
N				●	●	●						
S				●	●	●						
H				○								

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	WP10CT	WP25CT	WU10PT	WU25PT	WU10HT
WMTS250I6P03PT	6	6,35	.250	0,25	.010	28,63	1.127	'	'	4118593	4118594	'
WMTS312I8P03PH	8	7,92	.312	0,25	.010	28,57	1.125	'	'	5345985	5345986	'
WMTS312I8P08PH	8	7,92	.312	0,75	.030	28,57	1.125	'	'	5345987	5345988	'
WMTS800M8P03PH	8	8,00	.315	0,30	.012	28,57	1.125	'	'	5346436	5346437	'
WMTS800M8P06PH	8	8,00	.315	0,60	.024	28,57	1.125	'	'	5346434	5346435	'
WMTS800M8P06PT	8	8,00	.315	0,61	.024	28,57	1.125	'	'	4117257	4117258	'
WMTS800M8P15PT	8	8,00	.315	1,50	.059	28,57	1.125	'	'	4117259	4117260	'

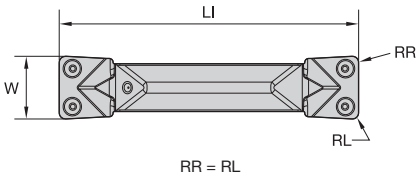


● first choice
○ alternate choice

P	●	●	○	○		
M			●	●	○	
K	●	●	○	○		
N			●	●	●	
S			●	●	●	
H			○			

■ WMT-U-PH • Molded

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	WP10CT	WP25CT	WU10PT	WU25PT	WU10HT
WMTS305M3U03PH	3	3,05	.120	0,30	.012	25,81	1.016	■	■	5346392	5346393	■
WMTS305M3U06PH	3	3,05	.120	0,60	.024	25,81	1.016	■	■	5346394	5346395	■
WMTS405M4U03PH	4	4,05	.159	0,30	.012	25,53	1.005	■	■	5346396	5346397	■
WMTS405M4U06PH	4	4,05	.159	0,60	.024	25,53	1.005	■	■	5346398	5346399	■
WMTS505M5U03PH	5	5,05	.199	0,30	.012	28,76	1.320	■	■	5346400	5346401	■
WMTS505M5U06PH	5	5,05	.199	0,60	.024	28,76	1.320	■	■	5346402	5346403	■
WMTS605M6U03PH	6	6,05	.238	0,30	.012	28,76	1.320	■	■	5346404	5346405	■
WMTS605M6U06PH	6	6,05	.238	0,60	.024	28,76	1.320	■	■	5346406	5346407	■
WMTS805M8U03PH	8	8,05	.317	0,30	.012	28,70	1.130	■	■	5346410	5346411	■
WMTS805M8U06PH	8	8,05	.317	0,60	.024	28,70	1.130	■	■	5346408	5346409	■



● first choice
○ alternate choice

P	●	●	○	○		
M			●	●	○	
K	●	●	○	○		
N			●	●	●	
S			●	●	●	
H			○			

■ WMT-P-PH • Precision

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	WP10CT	WP25CT	WU10PT	WU25PT	WU10HT
WMTS300M3P03PH	3	3,00	.118	0,30	.012	25,65	1.010	▪	▪	5346412	5346413	5346414
WMTS300M3P06PH	3	3,00	.118	0,60	.024	25,65	1.010	▪	▪	5346415	5346416	5346417
WMTS125I3P03PH	3	3,18	.125	0,25	.010	25,40	1.000	▪	▪	5345914	5291300	▪
WMTS125I3P08PH	3	3,18	.125	0,75	.030	25,40	1.000	▪	▪	5345915	5331093	▪
WMTS156I4P03PH	4	3,95	.156	0,30	.012	25,40	1.000	▪	▪	5345916	5345917	▪
WMTS156I4P08PH	4	3,96	.156	0,75	.030	25,40	1.000	▪	▪	5345918	5345919	▪
WMTS400M4P03PH	4	4,00	.157	0,30	.012	25,40	1.000	▪	▪	5346418	5346419	5346420
WMTS400M4P06PH	4	4,00	.157	0,60	.024	25,40	1.000	▪	▪	5346421	5346422	5346423
WMTS188I5P03PH	5	4,77	.188	0,25	.010	28,63	1.127	▪	▪	5345980	5331095	▪
WMTS188I5P08PH	5	4,77	.188	0,75	.030	28,63	1.127	▪	▪	5345981	5331097	▪
WMTS500M5P03PH	5	5,00	.197	0,30	.012	28,63	1.127	▪	▪	5346424	5346425	5346426
WMTS500M5P06PH	5	5,00	.197	0,60	.024	28,63	1.127	▪	▪	5346427	5346428	5346429

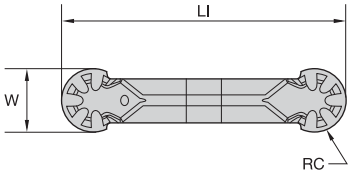
(continued)

(WMT-P-PH • Precision — continued)

P	●	●	○	○	
M			●	●	○
K	●	●	○	○	
N			●	●	●
S			●	●	●
H			○		

● first choice
○ alternate choice

catalog number	seat size	W mm	W in	RR mm	RR in	LI mm	LI in	WP10CT	WP25CT	WU10PT	WU25PT	WU10HT
WMTS600M6P03PH	6	6,00	.236	0,30	.012	28,63	1.127	'	'	5346430	5346431	'
WMTS600M6P06PH	6	6,00	.236	0,60	.024	28,63	1.127	'	'	5346432	5346433	'
WMTS250I6P08PH	6	6,32	.249	0,75	.030	28,63	1.127	'	'	5345984	5327621	'
WMTS250I6P03PH	6	6,35	.250	0,25	.010	28,63	1.127	'	'	5345983	5327620	'
WMTS312I8P03PH	8	7,92	.312	0,25	.010	28,57	1.125	'	'	5345985	5345986	'
WMTS312I8P08PH	8	7,92	.312	0,75	.030	28,57	1.125	'	'	5345987	5345988	'
WMTS800M8P03PH	8	8,00	.315	0,30	.012	28,57	1.125	'	'	5346436	5346437	'
WMTS800M8P06PH	8	8,00	.315	0,60	.024	28,57	1.125	'	'	5346434	5346435	'

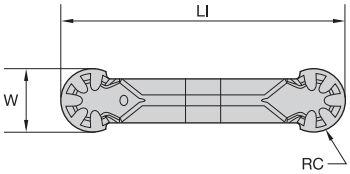


● first choice
○ alternate choice

P		●	●	○	○		
M				●	●	○	
K		●	●	○	○		
N				●	●	●	
S				●	●	●	
H				○			

■ WMT-U-PC • Molded

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	WP10CT	WP25CT	WU10PT	WU25PT	WU10HT
WMTR305M3UPC	3	3,05	.120	1,53	.060	25,53	1.005	4170174	-	4170172	4170173	-
WMTR405M4UPC	4	4,05	.163	2,03	.080	25,58	1.007	4170179	-	4170177	4170178	-
WMTR505M5UPC	5	5,05	.202	2,53	.099	29,01	1.142	4170184	-	4170182	4170183	-
WMTR605M6UPC	6	6,05	.238	3,03	.119	28,77	1.133	4170189	-	4170187	4170188	-
WMTR805M8UPC	8	8,05	.317	4,03	.159	29,22	1.150	4170194	-	4170192	4170193	-



● first choice
○ alternate choice

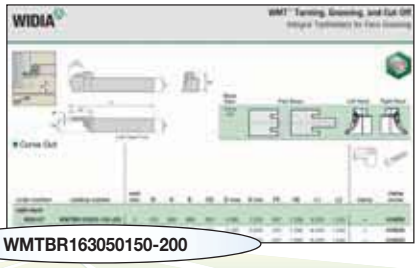
P	●	●	○	○		
M			●	●	○	
K	●	●	○	○		
N			●	●	●	
S			●	●	●	
H			○			

■ WMT-P-PC • Precision

catalog number	seat size	W mm	W in	RC mm	RC in	LI mm	LI in	WP10CT	WP25CT	WU10PT	WU25PT	WU10HT
WMTR300M3PPC	3	3,00	.118	1,50	.059	25,40	1.000	■	■	4170170	4170171	4170195
WMTR400M4PPC	4	4,00	.158	2,00	.079	25,45	1.002	■	■	4170175	4170176	4170196
WMTR188I5PPC	5	4,78	.188	2,39	.094	28,65	1.128	■	■	4170119	4170120	■
WMTR500M5PPC	5	5,00	.197	2,50	.098	28,88	1.137	■	■	4170180	4170181	■
WMTR600M6PPC	6	6,00	.236	3,00	.118	28,65	1.128	■	■	4170185	4170186	■
WMTR250I6PPC	6	6,36	.250	3,18	.125	29,01	1.142	■	■	4170121	4170122	■
WMTR312I8PPC	8	7,94	.312	3,96	.156	29,00	1.142	■	■	4170163	4170164	■
WMTR800M8PPC	8	8,00	.315	4,00	.158	29,08	1.145	■	■	4170190	4170191	■

WMT System

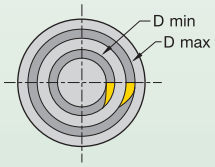
Our WMT toolholders now have a smart new naming system. Here are some examples of the improved nomenclature for our WMT Toolholders.

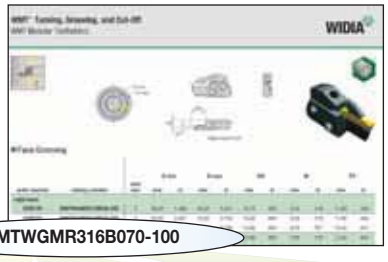


WMTBR163050150-200

Integral Toolholders

WMT	B	R	16	3	050	—	150–200
Tooling System	Tool Style	Hand	Shank Size	Seat Size	Max Grooving Depth		Face Grooving Diameter
WMT = Groove and Turn (WMT Insert)	**S** = Straight **C** = Straight with circular support **E** = End mount **A** = Straight, face grooving, curve in **B** = Straight, face grooving, curve out	**R** = Right hand **L** = Left hand	For square shanks, the number indicates the height and width in 1/16" increments. For rectangular shanks, the first digit indicates the number of eighths of width "B" and the second digit indicates the number of quarters of height "H".	1 2 2B 3 4 5 6 8	CD max in 1/100" *NOTE: Values <1.00" use a preceding zero (e.g., 075 = .75" max groove depth)*	D min – D max in 1/100" e.g., 275–400 = 2.75" D min 4.00" D max	Diameters are min and max for outer face groove diameter 999 = unlimited D max

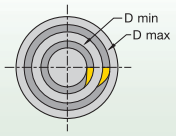




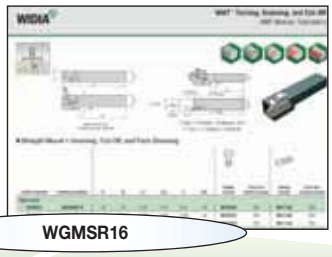
WMTWGMR316B070-100

Modular Blades

WMT	WGM	R	3	16	B	070-100
Tooling System	Connection Type	Hand	Seat Size	Max Grooving Depth	Tool Style	Face Grooving Diameter
		R = Right hand **L** = Left hand			**A** = Curve In **B** = Curve Out	



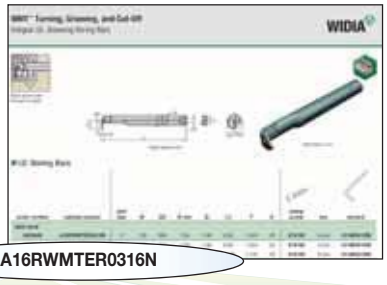
WIDIA VICTORY



WGMSR16

Modular Toolholders

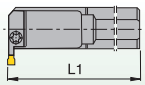
WGM	S	R	16
Tooling System	Tool Style	Hand	Shank Size
MDG = Modular Deep Grooving **WGM** = Modular Serrated Locking System	**S** = Straight **E** = End mount	**R** = Right hand **L** = Left hand	For square shanks, the number indicates the height and width in 1/16" increments. For rectangular shanks, the first digit indicates the number of eighths of width "B" and the second digit indicates the number of quarters of height "H".



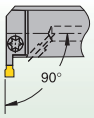
A16RWMTER0316N

Integral Boring Bars

A	16	R	WMT	E	R	03	16	N
Steel Bar with Coolant	Bar Diameter	Bar Length	WMT™ Groove and Turn System	Tool Style	Hand	Seat Size	Max Grooving Depth	Tool Units



inch bars:	metric bars:
R = 8"	R = 200mm
S = 10"	S = 150mm
T = 12"	T = 300mm

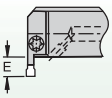


E = End mounted (90°)

R = Right hand
L = Left hand

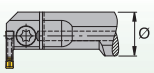
N = Inch
M = Metric

pocket seat size	cutting width (mm)
02	2,00–2,62
2B	2,39–2,62
03	3,0–3,05
04	4,0–4,05
05	5,0–5,05
06	6,0–6,05
08	8,0–8,05
10	10,0–10,05

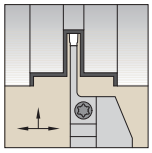


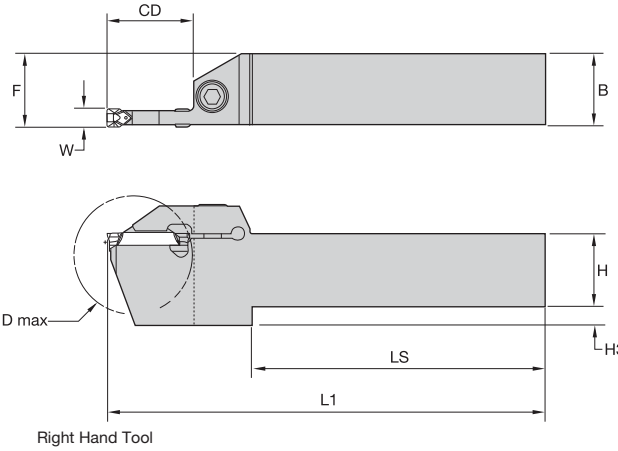
conversions:

mm	inch
7mm	.28"
10mm	.39"
12mm	.47"
16mm	.63"

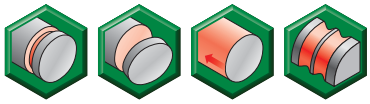


inch bars:	metric bars:
A two-digit number which indicates the bar diameter in 1/16" increments.	Bar diameter in millimeters





Right Hand Tool



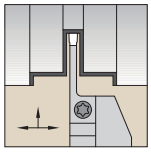
O.D. Grooving and Cut-Off

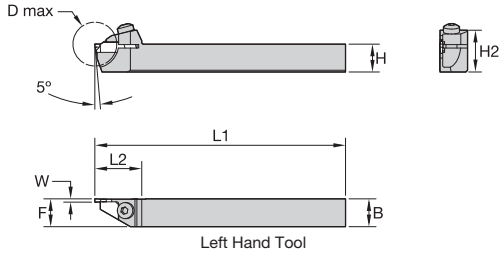
order number	catalog number	seat size	W	H	B	CD	D max	F	H3	L1	LS	clamp screw	clamp screw
right hand													
3656137	WMTSR161065	1	.059	1.000	1.000	.650	–	.991	–	6.000	4.679	606266	–
3655938	WMTCR62053	2	.079	.375	.375	–	1.062	.375	.125	4.500	3.410	606249	–
3655940	WMTCR82062	2	.079	.500	.500	–	1.125	.500	.188	4.500	3.410	606249	–
3655942	WMTSR102065	2	.079	.625	.625	.650	–	.625	.250	5.000	3.680	606249	–
3655944	WMTSR122065	2	.079	.750	.750	.650	–	.750	–	5.000	3.680	606249	–
3655946	WMTSR162065	2	.079	1.000	1.000	.650	–	1.000	–	6.000	4.680	606249	–
3655888	WMTCR62B053	2B	.094	.375	.375	–	1.062	.375	.125	4.500	3.410	606249	–
3655892	WMTCR82B062	2B	.094	.500	.500	–	1.250	.500	.190	4.500	3.290	606249	–
3655894	WMTSR102B075	2B	.094	.625	.625	.750	–	.625	.250	5.000	3.500	–	619205
3655896	WMTSR122B075	2B	.094	.750	.750	.750	–	.750	.250	5.000	3.480	–	619205
3655934	WMTSR122B042	2B	.094	.750	.750	.420	–	.750	–	5.000	3.695	–	619205
3539156	WMTSR162B042	2B	.094	1.000	1.000	.420	–	1.000	–	6.000	4.700	–	619205
3655936	WMTSR162B075	2B	.094	1.000	1.000	.750	–	1.000	–	6.000	4.500	–	619205
3655900	WMTSR103087	3	.125	.625	.625	.875	–	.625	.250	5.000	3.355	–	619205
3539113	WMTSR123044	3	.125	.750	.750	.440	–	.750	–	5.000	3.695	–	–
3655908	WMTSR123087	3	.125	.750	.750	.875	–	.750	.250	5.000	3.355	–	619205
3655916	WMTSR163044	3	.125	1.000	1.000	.440	–	1.000	–	6.000	4.695	–	619205
3655918	WMTSR163087	3	.125	1.000	1.000	.875	–	1.000	–	6.000	4.375	–	619205
3655920	WMTSR164087	4	.156	1.000	1.000	.875	–	1.000	–	6.000	4.375	–	619205
3655930	WMTSR104044	4	.156	.625	.625	.440	–	.625	–	5.000	3.695	–	619205
3655932	WMTSR124044	4	.156	.750	.750	.440	–	.750	–	5.000	3.695	–	619205
3655902	WMTSR105056	5	.188	.625	.625	.560	–	.629	–	5.000	3.562	–	619168
3655904	WMTSR105100	5	.188	.625	.625	1.000	–	.629	.250	5.500	3.655	–	619168
3655910	WMTSR125056	5	.188	.750	.750	.560	–	.750	–	5.000	3.562	–	619168
3655912	WMTSR125100	5	.188	.750	.750	1.000	–	.750	.250	5.500	3.655	–	619168
3655922	WMTSR165056	5	.188	1.000	1.000	.560	–	1.000	–	6.000	4.562	–	619168
3655924	WMTSR165100	5	.188	1.000	1.000	1.000	–	1.000	–	6.000	4.175	–	619168
3655914	WMTSR126056	6	.250	.750	.750	.560	–	.754	–	5.000	3.562	–	619168
3655926	WMTSR166056	6	.250	1.000	1.000	.560	–	1.004	–	6.000	4.562	–	619168
3655928	WMTSR166100	6	.250	1.000	1.000	1.000	–	1.002	–	6.000	4.174	–	619168
3539139	WMTSR168056	8	.312	1.000	1.000	.560	–	1.000	–	6.000	4.553	–	–

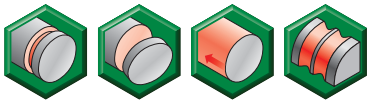
(continued)

(O.D. Grooving and Cut-Off — continued)

order number	catalog number	seat size	W	H	B	CD	D max	F	H3	L1	LS	 clamp screw	 clamp screw
3539141	**WMTSR168100**	8	.312	1.000	1.000	1.000	—	1.000	—	6.000	4.174	**—**	**MS1575**
3539143	**WMTSR208056**	8	.312	1.250	1.250	.560	—	1.250	—	6.000	4.553	**—**	**619168**
3539145	**WMTSR208100**	8	.312	1.250	1.250	1.000	—	1.250	—	6.000	4.174	**—**	**619168**
left hand													
3656138	**WMTSL161065**	1	.059	1.000	1.000	.650	—	.991	—	6.000	4.679	**606249**	**—**
3655939	**WMTCL62053**	2	.079	.375	.375	—	1.062	.375	.125	4.500	3.410	**606249**	**—**
3655941	**WMTCL82062**	2	.079	.500	.500	—	1.125	.500	.188	4.500	3.410	**606249**	**—**
3655943	**WMTSL102065**	2	.079	.625	.625	.650	—	.625	.250	5.000	3.680	**606249**	**—**
3655945	**WMTSL122065**	2	.079	.750	.750	.650	—	.750	—	5.000	3.680	**606249**	**—**
3655947	**WMTSL162065**	2	.079	1.000	1.000	.650	—	1.000	—	6.000	4.680	**606249**	**—**
3655893	**WMTCL82B062**	2B	.094	.500	.500	—	1.250	.500	.190	4.500	3.290	**606249**	**—**
3655895	**WMTSL102B075**	2B	.094	.625	.625	.750	—	.625	.250	5.000	3.480	**—**	**619205**
3655897	**WMTSL122B075**	2B	.094	.750	.750	.750	—	.750	.250	5.000	3.480	**—**	**619205**
3655935	**WMTSL122B042**	2B	.094	.750	.750	.420	—	.750	—	5.000	3.700	**—**	**619205**
3655937	**WMTSL162B075**	2B	.094	1.000	1.000	.750	—	1.000	—	6.000	4.500	**—**	**619205**
3655899	**WMTSL103044**	3	.125	.625	.625	.440	—	.625	—	5.000	3.695	**—**	**619205**
3655901	**WMTSL103087**	3	.125	.625	.625	.875	—	.625	.250	5.000	3.355	**—**	**619205**
3655907	**WMTSL123044**	3	.125	.750	.750	.440	—	.750	—	5.000	3.695	**—**	**619205**
3655909	**WMTSL123087**	3	.125	.750	.750	.875	—	.750	.250	5.000	3.355	**—**	**619205**
3655917	**WMTSL163044**	3	.125	1.000	1.000	.440	—	1.000	—	6.000	4.695	**—**	**619205**
3655919	**WMTSL163087**	3	.125	1.000	1.000	.875	—	1.000	—	6.000	4.375	**—**	**619205**
3655921	**WMTSL164087**	4	.156	1.000	1.000	.875	—	1.000	—	6.000	4.375	**—**	**619205**
3655931	**WMTSL104044**	4	.156	.625	.625	.440	—	.625	—	5.000	3.695	**—**	**619205**
3655933	**WMTSL124044**	4	.156	.750	.750	.440	—	.750	—	5.000	3.697	**—**	**619205**
3655905	**WMTSL105100**	5	.188	.625	.625	1.000	—	.629	.250	5.500	3.655	**—**	**619168**
3655911	**WMTSL125056**	5	.188	.750	.750	.560	—	.750	—	5.000	3.562	**—**	**619168**
3655913	**WMTSL125100**	5	.188	.750	.750	1.000	—	.750	.250	5.500	3.655	**—**	**619168**
3655925	**WMTSL165100**	5	.188	1.000	1.000	1.000	—	1.000	—	6.000	4.175	**—**	**619168**
3655915	**WMTSL126056**	6	.250	.750	.750	.560	—	.754	—	5.000	3.562	**—**	**619168**
3655927	**WMTSL166056**	6	.250	1.000	1.000	.560	—	1.004	—	6.000	4.562	**—**	**619168**
3655929	**WMTSL166100**	6	.250	1.000	1.000	1.000	—	1.004	—	6.000	4.174	**—**	**619168**
3539140	**WMTSL168056**	8	.312	1.000	1.000	.560	—	.998	—	6.000	4.553	**—**	**MS1575**
3539142	**WMTSL168100**	8	.312	1.000	1.000	1.000	—	—	—	6.000	4.174	**—**	**MS1575**
3539144	**WMTSL208056**	8	.312	1.250	1.250	.560	—	1.250	—	6.000	4.553	**—**	**619168**
3539146	**WMTSL208100**	8	.312	1.250	1.207	1.000	—	1.250	—	6.000	4.174	**—**	**619168**







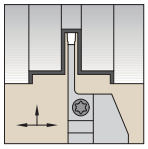
Swiss Grooving and Cut-Off • Inch

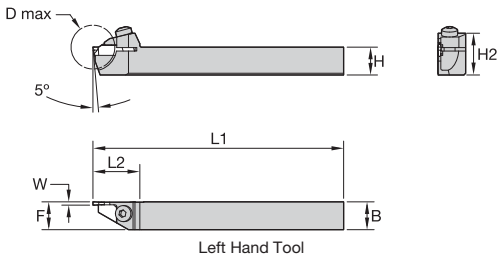
order number	catalog number	seat size	W	H	B	D max	F	H2	L1	L2	clamp screw
right hand											
3655948	**WMTCR061039**	1	.059	.375	.375	.787	.375	.625	4.500	.842	**606249**
3655949	**WMTCR081039**	1	.059	.500	.500	.787	.500	.750	4.500	.842	**606249**
3656135	**WMTCR121051**	1	.059	.750	.750	1.024	.750	1.050	5.000	.952	**606266**
3656133	**WMTCR101051**	1	.059	.625	.625	1.024	.626	.925	5.000	.952	**606266**
3656141	**WMTCR082039**	2	.079	.500	.500	.787	.500	.750	4.500	.843	**606249**
3656143	**WMTCR102051**	2	.079	.625	.625	1.024	.625	.925	5.000	.953	**606266**
3656139	**WMTCR062039**	2	.079	.375	.375	.787	.375	.625	4.500	.843	**606249**
3656145	**WMTCR122051**	2	.079	.750	.750	1.024	.750	1.050	5.000	.953	**606266**
left hand											
3656186	**WMTCL061039**	1	.059	.375	.375	.787	.375	.625	4.500	.842	**606249**
3656101	**WMTCL081039**	1	.059	.500	.500	.787	.500	.750	4.500	.842	**606249**
3656134	**WMTCL101051**	1	.059	.625	.625	1.024	.626	.925	5.000	.952	**606266**
3656136	**WMTCL121051**	1	.059	.750	.750	1.024	.750	1.050	5.000	.952	**606266**
3656140	**WMTCL062039**	2	.079	.375	.375	.787	.375	.625	4.500	.843	**606249**
3656142	**WMTCL082039**	2	.079	.500	.500	.787	.500	.750	4.500	.843	**606249**
3656144	**WMTCL102051**	2	.079	.625	.625	1.024	.625	.925	5.000	.953	**606266**
3656146	**WMTCL122051**	2	.079	.750	.750	1.024	.750	1.050	5.000	.953	**606266**

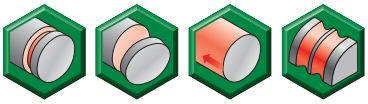
NOTE: Insert exterior edge in line with toolholder edge for .375" and .500" shank toolholders.

Update to our latest style cut-off inserts for use in the above style toolholders.
These holders can be used in many machines including Stars, Citizens, Tsugami, and Tonos/DECO.

Insert Width	Lead Angle	Old Manchester Catalog Number	Old Manchester Grade	WMT Cut-Off Insert	WMT Insert Grade	WIDIA™ Order Number
1.5 mm	Neutral	583-165	M443B	WMTC015N00CM08	WU25PT	4169668
1.5 mm	Right - 5°	583-166	M443B	WMTC015R05CM08	WU25PT	4169670
1.5 mm	Right - 12°	583-168	M443B	WMTC015R12CM08	WU25PT	4169672
1.5 mm	Left - 5°	583-167	M443B	WMTC015L05CM08	WU25PT	4169671
2.0 mm	Neutral	583-170	M443B	WMTC020N00CM08	WU25PT	4169673
2.0 mm	Right - 5°	583-170	M443B	WMTC020R05CM08	WU25PT	4169675
2.0 mm	Right - 12°	583-173	M443B	WMTC020R12CM08	WU25PT	4169678
2.0 mm	Left - 5°	583-172	M443B	WMTC020L05CM08	WU25PT	4169677
2.0 mm	Left - 12°	583-174	M443B	WMTC020L12CM08	WU25PT	4169680
2.0 mm	Neutral - Groove	583-129	M45 / M43	WMTS200M2P02PT	WU25PT	4116130
2.0 mm	Neutral	583-125	M45 / M43	WMTC020N00CMW08	WU25PT	4169674
2.0 mm	Right - 5°	583-126	M45 / M43	WMTC020R05CMW08	WU25PT	4169676
2.0 mm	Right - 12°	583-128	M45 / M43	WMTC020R12CMW08	WU25PT	4169679
2.0 mm	Left - 12°	583-129	M45 / M43	WMTC020L12CMW08	WU25PT	4169681

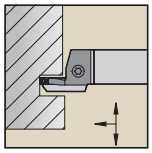


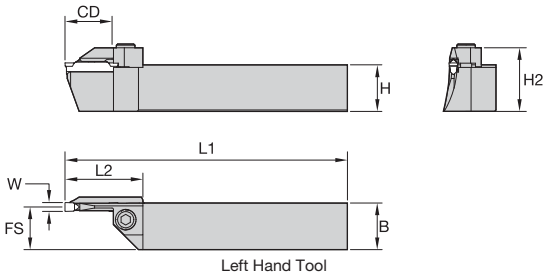


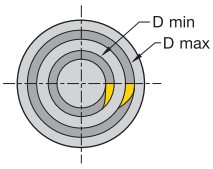


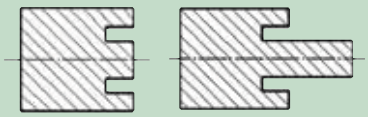
Swiss Grooving and Cut-Off • Metric

order number	catalog number	seat size	W	H	B	F	D max	H2	H3	L1	L2	clamp screw
right hand												
3650508	**WMTCR1010H110**	1	1,50	10,0	10,0	10,0	20	16	—	100	21	**606249**
3650510	**WMTCR1212H110**	1	1,50	12,0	12,0	12,0	20	18	—	100	21	**606249**
3650512	**WMTCR1616K113**	1	1,50	16,0	15,9	16,0	26	24	—	125	24	**606266**
3650514	**WMTCR2020K113**	1	1,50	20,0	19,9	20,0	26	28	—	125	24	**606266**
3653413	**WMTCR1010H210**	2	2,00	10,0	10,0	10,0	20	16	—	100	21	**606249**
3653415	**WMTCR1212H210**	2	2,00	12,0	12,0	12,0	20	18	—	100	21	**606249**
3653417	**WMTCR1616K213**	2	2,00	16,0	15,8	16,0	26	24	—	125	24	**606266**
3653419	**WMTCR2020K213**	2	2,00	20,0	19,8	20,0	26	28	—	125	24	**606266**
left hand												
3650509	**WMTCL1010H110**	1	1,50	10,0	10,0	10,0	20	16	—	100	21	**606249**
3650511	**WMTCL1212H110**	1	1,50	12,0	12,0	12,0	20	18	—	100	21	**606249**
3650513	**WMTCL1616K113**	1	1,50	16,0	15,9	16,0	26	24	—	125	24	**606266**
3650515	**WMTCL2020K113**	1	1,50	20,0	19,9	20,0	26	28	—	125	24	**606266**
3653414	**WMTCL1010H210**	2	2,00	10,0	10,0	10,0	20	16	—	100	21	**606249**
3653416	**WMTCL1212H210**	2	2,00	12,0	12,0	12,0	20	18	—	100	21	**606249**
3653418	**WMTCL1616K213**	2	2,00	16,0	15,8	16,0	26	24	—	125	24	**606266**
3653420	**WMTCL2020K213**	2	2,00	20,0	19,8	20,0	26	28	—	125	24	**606266**
3539171	**WMTCL1212H2B16**	2B	2,38	12,0	11,7	11,9	32	23	5	100	30	**606249**





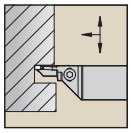


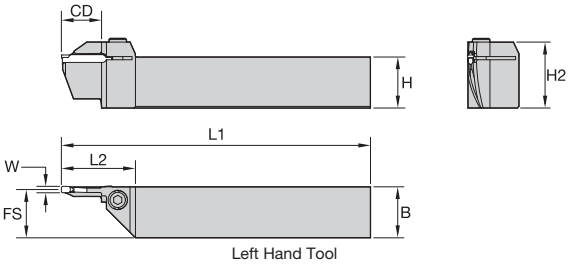
Blade Style	Part Shape	Left Hand	Right Hand
Curve Out			

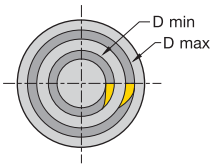
Curve Out

order number	catalog number	seat size	W	H	B	CD	D max	D min	FS	H2	L1	L2	clamp	clamp screw
right hand														
3656147	**WMTBR163050-150-200**	3	.125	.990	.990	.500	2.000	1.500	.937	1.280	6.000	1.343	**—**	**619205**
3656149	**WMTBR163063-200-275**	3	.125	.990	.990	.625	2.750	2.000	.937	1.280	6.000	1.343	**—**	**619205**
3656151	**WMTBR163063-275-400**	3	.125	.990	.990	.625	4.000	2.750	.937	1.280	6.000	1.343	**—**	**619205**
3656153	**WMTBR163075-400-800**	3	.125	.990	.990	.750	8.000	4.000	.937	1.280	6.000	1.438	**—**	**619205**
3656155	**WMTBR165063-150-200**	5	.188	.990	.990	.625	2.000	1.500	.906	1.355	6.000	1.500	**446102**	**619168**
3656157	**WMTBR165075-200-275**	5	.188	.990	.990	.750	2.750	2.000	.906	1.352	6.000	1.500	**446102**	**619168**
3656159	**WMTBR165075-275-400**	5	.188	.990	.990	.750	4.000	2.750	.906	1.352	6.000	1.655	**446104**	**619168**
3656165	**WMTBR166075-200-275**	6	.250	.990	.990	.750	2.750	2.000	.875	1.372	6.000	1.500	**446102**	**619168**
3656168	**WMTBR166100-400-800**	6	.250	.990	.990	1.000	8.000	4.000	.875	1.372	6.000	1.655	**446104**	**619168**
3656187	**WMTBR166075-275-400**	6	.251	.990	.990	.750	4.000	2.750	.875	1.372	6.000	1.655	**446104**	**619168**
left hand														
3656152	**WMTBL163063-275-400**	3	.125	.990	.990	.625	4.000	2.750	.937	1.280	6.000	1.343	**—**	**619205**
3656154	**WMTBL163075-400-800**	3	.125	.990	.990	.750	8.000	4.000	.937	1.280	6.000	1.438	**—**	**619205**
3656156	**WMTBL165063-150-200**	5	.188	.990	.990	.625	2.000	1.500	.906	1.355	6.000	1.500	**446101**	**619168**
3656158	**WMTBL165075-200-275**	5	.188	.990	.990	.750	2.750	2.000	.906	1.352	6.000	1.500	**446101**	**619168**
3656164	**WMTBL166063-150-200**	6	.250	.990	.990	.625	2.000	1.500	.875	1.377	6.000	1.500	**446101**	**619168**
3656166	**WMTBL166075-200-275**	6	.250	.990	.990	.750	2.750	2.000	.875	1.372	6.000	1.500	**446101**	**619168**
3656167	**WMTBL166075-275-400**	6	.250	.990	.990	.750	4.000	2.750	.875	1.372	6.000	1.655	**446103**	**619168**
3656169	**WMTBL166100-400-800**	6	.250	.990	.990	1.000	8.000	4.000	.875	1.372	6.000	1.655	**446103**	**619168**

NOTE: Initial cut of tool must be between D min and D max. Due to the insert being positioned .030" above center, minimum diameter after initial cut is .850".
Tool Holders that accept .125" width inserts have an integral clamp.
Tool Holders that accept .187" and .250" width inserts are supplied with a detachable clamp.





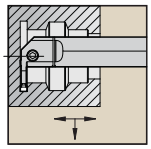


Blade Style	Part Shape	Left Hand	Right Hand
Curve In			

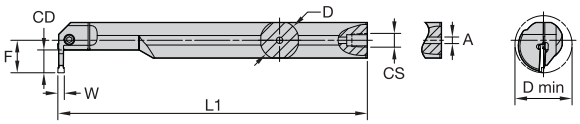
Curve In

order number	catalog number	seat size	W	H	B	CD	D max	D min	FS	H2	L1	L2	clamp	clamp screw
right hand														
3539321	**WMTAR163063-275-400**	3	.125	.990	.990	.625	4.000	2.750	.937	1.280	6.000	1.343	**—**	**MS326**
3539323	**WMTAR163075-400-800**	3	.125	.990	.990	.750	8.000	4.000	.937	1.280	6.000	1.438	**—**	**MS326**
3539325	**WMTAR165075-275-400**	5	.187	.990	.990	.750	4.000	2.750	.906	1.336	6.000	1.655	**446104**	**619168**
3539327	**WMTAR165100-400-800**	5	.187	.990	.990	1.000	8.000	4.000	.906	1.336	6.000	1.655	**446104**	**619168**
3539329	**WMTAR166075-275-400**	6	.250	.990	.990	.765	4.000	2.750	.875	1.336	6.000	1.655	**446104**	**619168**
3539331	**WMTAR166100-400-800**	6	.250	.990	.990	1.000	8.000	4.000	.875	1.336	6.000	1.655	**446104**	**619168**
left hand														
3539322	**WMTAL163063-275-400**	3	.125	.990	.990	.625	4.000	2.750	.937	1.280	6.000	1.343	**—**	**MS326**
3539324	**WMTAL163075-400-800**	3	.125	.990	.990	.750	8.000	4.000	.937	1.280	6.000	1.438	**—**	**MS326**
3539326	**WMTAL165075-275-400**	5	.187	.990	.990	.750	4.000	2.750	.906	1.336	6.000	1.655	**446103**	**619168**
3539328	**WMTAL165100-400-800**	5	.187	.990	.990	1.000	8.000	4.000	.906	1.336	6.000	1.655	**446103**	**619168**
3539330	**WMTAL166075-275-400**	6	.250	.990	.990	.765	4.000	2.750	.875	1.336	6.000	1.655	**446103**	**619168**
3539332	**WMTAL166100-400-800**	6	.250	.990	.990	1.000	8.000	4.000	.875	1.336	6.000	1.655	**446103**	**619168**

NOTE: Initial cut of tool must be between D min and D max. Due to the insert being positioned .030" above center, minimum diameter after initial cut is .850".
Tool Holders that accept .125" width inserts have an integral clamp.
Tool Holders that accept .187" and .250" width inserts are supplied with a detachable clamp.



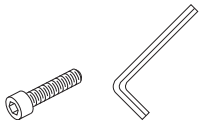
Steel shank with through coolant.



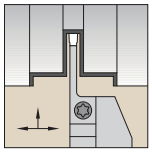
Right Hand Tool

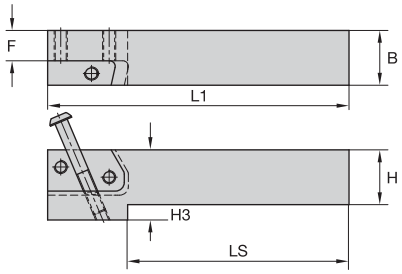
Right Hand Tool

I.D. Boring Bars

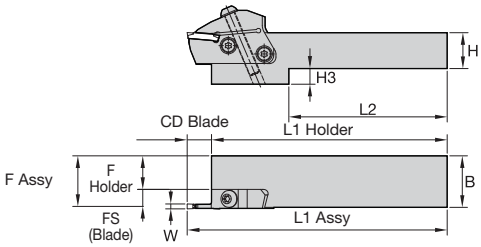


order number	catalog number	seat size	W	CD	D min	D	L1	F	A	clamp screw	hex
right hand											
5423448	**A16RWMTER0316N**	3	.125	.630	1.59	1.00	8.00	1.024	.25	**619168**	5 mm
5423840	**A16RWMTER0416N**	4	.156	.630	1.59	1.00	8.00	1.024	.25	**619168**	5 mm
5423449	**A20SWMTER0319N**	3	.125	.748	1.85	1.25	10.00	1.142	.25	**619168**	5 mm
5423841	**A20SWMTER0419N**	4	.156	.748	1.85	1.25	10.00	1.142	.25	**619168**	5 mm
5423842	**A20SWMTER0519N**	5	.188	.748	1.85	1.25	10.00	1.142	.25	**619168**	5 mm
5423844	**A20SWMTER0619N**	6	.250	.748	1.85	1.25	10.00	1.142	.25	**619168**	5 mm
5423843	**A24TWMTER0522N**	5	.188	.866	2.13	1.50	12.00	1.260	.25	**619168**	5 mm
5423845	**A24TWMTER0622N**	6	.250	.866	2.13	1.50	12.00	1.260	.25	**619168**	5 mm
left hand											
5423846	**A16RWMTEL0316N**	3	.125	.630	1.59	1.00	8.00	1.024	.25	**619168**	5 mm
5423848	**A16RWMTEL0416N**	4	.156	.630	1.59	1.00	8.00	1.024	.25	**619168**	5 mm
5423847	**A20SWMTEL0319N**	3	.125	.748	1.85	1.25	10.00	1.142	.25	**619168**	5 mm
5423849	**A20SWMTEL0419N**	4	.156	.748	1.85	1.25	10.00	1.142	.25	**619168**	5 mm
5423870	**A20SWMTEL0519N**	5	.188	.748	1.85	1.25	10.00	1.142	.25	**619168**	5 mm
5423872	**A20SWMTEL0619N**	6	.250	.748	1.85	1.25	10.00	1.142	.25	**619168**	5 mm
5423871	**A24TWMTEL0522N**	5	.188	.866	2.13	1.50	12.00	1.260	.25	**619168**	5 mm
5423873	**A24TWMTEL0622N**	6	.250	.866	2.13	1.50	12.00	1.260	.25	**619168**	5 mm





Right Hand Tool
2 blade screws required



F Assy = F (Holder) + FS (Blade) + W/2
L1 Assy = L1 (Holder) + CD (Blade)

■ Straight Mount • Grooving, Cut-Off, and Face Grooving

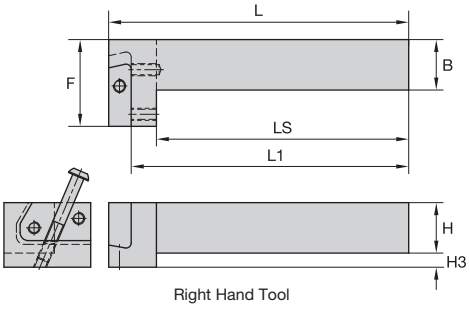
order number	catalog number	H	B	L1	LS	F	H3	blade screw	Torx for blade screw	clamp screw	Torx for clamp screw
right hand											
5349621	**WGMSR12**	.75	.75	4.30	2.75	0.31	.49	**MS2002**	T25	**MS1162**	T25
5349622	**WGMSR16**	1.00	1.00	5.05	3.86	0.56	.24	**MS2002**	T25	**MS1162**	T25
5349624	**WGMSR20**	1.25	1.25	5.05	—	0.81	—	**MS2002**	T25	**MS1162**	T25
left hand											
5349609	**WGMSL12**	.75	.75	4.30	2.75	0.31	.49	**MS2002**	T25	**MS1162**	T25
5349620	**WGMSL16**	1.00	1.00	5.05	3.86	0.56	.24	**MS2002**	T25	**MS1162**	T25
5349623	**WGMSL20**	1.25	1.25	5.05	—	0.81	—	**MS2002**	T25	**MS1162**	T25

NOTE: Use the larger seat size toolholder for optimal performance.
Blade screws and clamp screw included with holder.

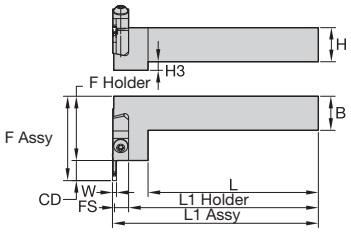
Toolholder Style	Hand of Holder	Hand of Blade
WGMS — Straight Mount	Right	Right
	Left	Left
WGME — End Mount	Right	Left
	Left	Right

Grooving and Cut-Off Blade found on page E39.

Face Grooving Blades found on page E40.



Right Hand Tool



F Assy = F (Holder) + CD (Blade)
L1 Assy = L1 (Holder) + FS (Blade) + W/2

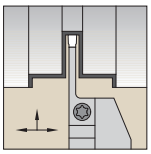
End Mount • Grooving, Cut-Off, and Face Grooving

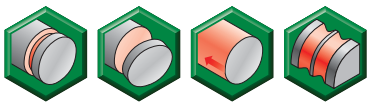
order number	catalog number	H	B	L	L1	LS	F	H3
right hand								
5514977	**WGMER16**	1.00	1.00	5.96	5.53	4.96	1.70	.24
5515022	**WGMER2050**	1.25	1.25	5.96	5.53	4.96	1.70	—
left hand								
5514976	**WGMEL16**	1.00	1.00	5.96	5.53	4.96	1.70	.24
5515023	**WGMEL2050**	1.25	1.25	5.96	5.53	4.96	1.70	—

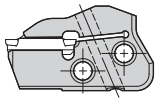
Toolholder Style	Hand of Holder	Hand of Blade
WGMS — Straight Mount	Right	Right
	Left	Left
WGME — End Mount	Right	Left
	Left	Right

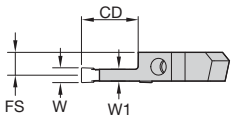
Grooving and Cut-Off Blades found on page E39.

Face Grooving Blades found on page E40.









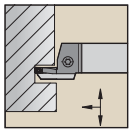
Right Hand Blade

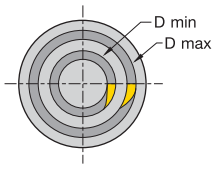
Grooving and Cut-Off

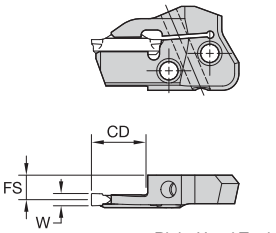
order number	catalog number	seat size	CD mm	CD in	W mm	W in	FS mm	FS in	W1 mm	W1 in
right hand										
5359127	**WMTWGMR114S**	1	14,00	.551	1,50	.059	11,04	.435	1,22	.048
5359128	**WMTWGMR213S**	2	13,00	.512	2,00	.079	10,81	.426	1,68	.066
5359129	**WMTWGMR2B16S**	2B	16,50	.650	2,39	.094	10,71	.422	1,88	.074
5359130	**WMTWGMR319S**	3	19,00	.748	3,00	.118	10,38	.409	2,54	.100
5359131	**WMTWGMR419S**	4	19,00	.748	4,00	.157	10,00	.394	3,30	.130
5359132	**WMTWGMR522S**	5	22,00	.866	5,00	.197	9,82	.387	3,66	.144
5359133	**WMTWGMR622S**	6	22,00	.866	6,00	.236	9,26	.365	4,78	.188
left hand										
5359120	**WMTWGML114S**	1	14,00	.551	1,50	.059	11,04	.435	1,22	.048
5359121	**WMTWGML213S**	2	13,00	.512	2,00	.079	10,81	.426	1,68	.066
5359122	**WMTWGML2B16S**	2B	16,50	.650	2,39	.094	10,71	.422	1,88	.074
5359123	**WMTWGML319S**	3	19,00	.748	3,00	.118	10,38	.409	2,54	.100
5359124	**WMTWGML419S**	4	19,00	.748	4,00	.157	10,00	.394	3,30	.130
5359125	**WMTWGML522S**	5	22,00	.866	5,00	.197	9,82	.387	3,66	.144
5359126	**WMTWGML622S**	6	22,00	.866	6,00	.236	9,26	.365	4,78	.188

NOTE: Blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).

Toolholder Style	Hand of Holder	Hand of Blade
WGMS — Straight Mount	Right	Right
	Left	Left
WGME — End Mount	Right	Left
	Left	Right







Right Hand Tool

Face Grooving

order number	catalog number	seat size	D min mm	D min in	D max mm	D max in	CD mm	CD in	W mm	W in	FS mm	FS in
right hand												
5359150	**WMTWGMR313B038-052**	3	38,00	1.496	52,00	2.047	12,70	.500	3,00	.118	11,00	.433
5359151	**WMTWGMR316B052-070**	3	52,00	2.047	70,00	2.756	15,88	.625	3,00	.118	11,00	.433
5359154	**WMTWGMR416B052-070**	4	52,00	2.047	70,00	2.756	15,88	.625	4,00	.157	10,50	.413
5359152	**WMTWGMR316B070-100**	3	70,00	2.756	100,00	3.937	15,88	.625	3,00	.118	11,00	.433
5359155	**WMTWGMR416B070-100**	4	70,00	2.756	100,00	3.937	15,88	.625	4,00	.157	10,50	.413
5359153	**WMTWGMR319B100-205**	3	100,00	3.937	205,00	8.071	19,05	.750	3,00	.118	11,00	.433
5359156	**WMTWGMR419B100-205**	4	100,00	3.937	205,00	8.071	19,05	.750	4,00	.157	10,50	.413
5359157	**WMTWGMR522B100-205**	5	100,00	3.937	205,00	8.071	22,00	.866	5,00	.197	10,00	.394
5359158	**WMTWGMR622B100-205**	6	100,00	3.937	205,00	8.071	22,00	.866	6,00	.236	10,00	.394
left hand												
5359146	**WMTWGML616B030-052**	6	30,00	1.181	52,00	2.047	15,88	.625	6,00	.236	10,00	.394
5359134	**WMTWGML313B038-052**	3	38,00	1.496	52,00	2.047	12,70	.500	3,00	.118	11,00	.433
5359138	**WMTWGML413B038-052**	4	38,00	1.496	52,00	2.047	12,70	.500	4,00	.157	10,50	.413
5359142	**WMTWGML516B038-052**	5	38,00	1.496	52,00	2.047	15,88	.625	5,00	.197	10,00	.394
5359135	**WMTWGML316B052-070**	3	52,00	2.047	70,00	2.756	15,88	.625	3,00	.118	11,00	.433
5359139	**WMTWGML416B052-070**	4	52,00	2.047	70,00	2.756	15,88	.625	4,00	.157	10,50	.413
5359143	**WMTWGML519B052-070**	5	52,00	2.047	70,00	2.756	19,05	.750	5,00	.197	10,00	.394
5359147	**WMTWGML619B052-070**	6	52,00	2.047	70,00	2.756	19,05	.750	6,00	.236	10,00	.394
5359136	**WMTWGML316B070-100**	3	70,00	2.756	100,00	3.937	15,88	.625	3,00	.118	11,00	.433
5359140	**WMTWGML416B070-100**	4	70,00	2.756	100,00	3.937	15,88	.625	4,00	.157	10,50	.413
5359144	**WMTWGML519B070-100**	5	70,00	2.756	100,00	3.937	19,05	.750	5,00	.197	10,00	.394
5359148	**WMTWGML619B070-100**	6	70,00	2.756	100,00	3.937	19,05	.750	6,00	.236	10,00	.394
5359137	**WMTWGML319100-205**	3	100,00	3.937	205,00	8.071	19,05	.750	3,00	.118	11,00	.433
5359141	**WMTWGML419B100-205**	4	100,00	3.937	205,00	8.071	19,05	.750	4,00	.157	10,50	.413
5359145	**WMTWGML522B100-205**	5	100,00	3.937	205,00	8.071	22,00	.866	5,00	.197	10,00	.394
5359149	**WMTWGML622B100-205**	6	100,00	3.937	205,00	8.071	22,00	.866	6,00	.236	10,00	.394

NOTE: Blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).

Toolholder Style	Hand of Holder	Hand of Blade
WGMS — Straight Mount	Right	Right
	Left	Left
WGME — End Mount	Right	Left
	Left	Right