

DURATOMIC™



GROOVING AND PARTING-OFF APPLICATIONS JUST GOT BETTER

SECO 

DURATOMIC™ – HOW TO INCREASE YOUR PRODUCTIVITY IN ONE EASY STEP

Increased cutting data, long and more predictable tool life, a wide working window and superior quality; this is what you are striving to achieve and this is what Seco Tools can deliver.

DURATOMIC COATING TECHNOLOGY

With improved mechanical and thermal properties far beyond the capabilities of any existing grade, Duratomic is the new insert coating technology that allows tailored design of the grade for optimal performance in every area of metal cutting.

As if that wasn't enough the Duratomic technology also offers a significant improvement in wear resistance, extreme versatility, a wide range of applications and great flexibility in cutting data.



INTRODUCING TGP25 AND TGP45 – NEW GRADES, NEW TECHNOLOGY, IMPRESSIVE RESULTS

Not only do these two grades feature the Duratomic coating technology, they also mark the beginning of a new generation for grooving and parting-off. Although designed for steel machining, these grades can also be used in cast iron and stainless steel with excellent results.



TGP25 – THE NEW GRADE FOR GROOVE TURNING

The unique and secure clamping system of Seco Multi Directional Turning (MDT) allows high speeds and feeds while securing long and consistent tool life. The rigidity of Seco MDT can be used to fully exploit the extended cutting data capability of TGP25. Available in all widths, corner radii and chipbreakers, TGP25 gives outstanding performance over a large application area and its superior edge integrity ensures an excellent surface finish too.



TGP45 – THE LATEST GRADE FOR PARTING-OFF

Team up the impressive stability of the HSS-blades for parting-off with 150.10 inserts and you can take full advantage of the cutting data capabilities of TGP45.

With superb performance in a wide application area, TGP45 is available in the most common widths and chipbreakers. It has a high level of wear resistance and allows high cutting data together with long tool life. The superior edge integrity will give you an excellent surface finish as well. TGP45 is also a good choice for milling when using 335.10 disc milling cutters.

FEATURES:

- Excellent level of heat resistance
- Wide working window
- Prolonged and more predictable tool life
- Extreme flank wear resistance
- Secure edge line

BENEFITS:





- Faster feeds and speeds now achievable
- Flexibility and versatility
- Unmanned production
- Accurately machined parts from the beginning
- Superior surface finish





WHAT'S IN IT FOR YOU?




- Exceptional levels of output from the beginning
- Fewer inventories and more money saving probabilities
- Application security and freed-up man power
- Minimised production costs and rapid machining
- Outstanding part quality

INSERT PROGRAMME


MDT, AVAILABLE IN GRADE TGP25 DURATOMIC™


	Part No.
LCMF-FT 	LCMF 130304-0300-FT
	LCMF 130404-0400-FT
LCMF-FT 	LCMF 160302-0300-FT 160304-0300-FT
	LCMF 160402-0400-FT 160404-0400-FT 160408-0400-FT
	LCMF 160504-0500-FT 160508-0500-FT
	LCMF 160604-0600-FT 160608-0600-FT 160610-0600-FT
	LCMF 300804-0800-FT 300808-0800-FT 300808-1000-FT 300812-0800-FT
LCMF-MC 	LCMF 130304-0300-MC
	LCMF 130404-0400-MC
LCMF-MC 	LCMF 160304-0300-MC
	LCMF 160404-0400-MC
	LCMF 160504-0500-MC
	LCMF 160604-0600-MC 160608-0600-MC


	Part No.
LCMF-MG 	LCMF 160304-0300-MG
	LCMF 160404-0400-MG
	LCMF 160504-0500-MG
	LCMF 160608-0600-MG
LCMF-MP 	LCMF 1303M0-0300-MP
	LCMF 1304M0-0400-MP
LCMF-MP 	LCMF 1603M0-0300-MP
	LCMF 1604M0-0400-MP
	LCMF 1605M0-0500-MP
	LCMF 1606M0-0600-MP
	LCMF 3008M0-0800-MP
	LCMF 3008M0-1000-MP
LCMF-MT 	LCMF 160302-0300-MT 160304-0300-MT
	LCMF 160404-0400-MT 160408-0400-MT
	LCMF 160504-0500-MT 160508-0500-MT
	LCMF 160604-0600-MT 160608-0600-MT 160610-0600-MT

	Part No.
LCMR-MT 	LCMR 160304-0300-FT
	LCMR 160404-0400-FT
	LCMR 160504-0500-FT
	LCMR 160608-0600-FT
	LCMR 300808-0800-FT
LCMR-MP 	LCMR 1603M0-0300-MP
	LCMR 1604M0-0400-MP
	LCMR 1605M0-0500-MP
	LCMR 1606M0-0600-MP
	LCMR 3008M0-0800-MP
	LCMR 3008M0-1000-MP
LCMR-MT 	LCMR 160304-0300-MT
	LCMR 160404-0400-MT
	LCMR 160504-0500-MT
	LCMR 160608-0600-MT

150.10, AVAILBLE IN GRADE TGP45 DURATOMIC™

	Part No.
150.10-12 	150.10 -2.5N-12
	-3N-12
	-4N-12

	Part No.
150.10-14 	150.10 -2.0N-14
	-2.25N-14
	-2.5N-14
	-2.5R6-14
	-3L6-14
	-3N-14
	-3R6-14
	-4N-14

	Part No.
150.10-16 	150.10 -1.4N-16
	150.10 -2.0N-16 -2.25N-16 -2.5N-16 -2.5R6-16
	150.10 -3L6-16 -3N-16 -3R6-16
	150.10 -4N-16
	150.10 -5N-16
	150.10 -6N-16

CUTTING DATA

Seco Material group No.	Cutting speed v_c (m/min)						Feed (mm/rev)
	TGP25 Insert width			TGP45 Insert width			
	3.0 – 4.0	4.5 – 6.0	8.0 – 10.0	1.4 – 2.5	3 – 4	5 – 6	
1	375	350	–	245	–	–	0,05
	340	315	–	220	230	210	0,10
	325	290	250	200	210	185	0,20
	300	265	230	–	185	170	0,30
	290	250	210	–	165	145	0,40
	–	235	195	–	–	135	0,50
2	320	285	–	220	–	–	0,05
	290	255	–	205	210	185	0,10
	255	235	210	180	185	170	0,20
	235	210	190	–	170	150	0,30
	205	190	175	–	145	135	0,40
	–	170	150	–	–	115	0,50
3	310	280	–	200	–	–	0,05
	280	250	–	180	190	160	0,10
	255	235	210	165	175	140	0,20
	230	210	195	–	150	125	0,30
	205	190	175	–	135	115	0,40
	–	175	160	–	–	–	0,50
4	295	275	–	170	–	–	0,05
	270	250	–	150	165	145	0,10
	250	235	220	140	145	135	0,20
	230	210	195	–	130	115	0,30
	205	195	180	–	115	105	0,40
	–	180	170	–	–	–	0,50
5	260	250	–	145	–	–	0,05
	240	230	–	135	140	130	0,10
	230	205	180	125	130	110	0,20
	205	190	175	–	110	100	0,30
	195	175	150	–	–	90	0,40
	–	160	145	–	–	–	0,50
6	230	210	–	140	–	–	0,05
	210	190	–	125	135	115	0,10
	190	175	160	110	115	105	0,20
	175	160	145	–	105	95	0,30
	160	145	130	–	–	85	0,40
	–	135	120	–	–	–	0,50
7	155	145	–	90	–	–	0,05
	145	135	–	85	90	75	0,10
	135	125	120	75	75	70	0,20
	125	120	110	–	70	65	0,30
	120	110	105	–	–	–	0,40
	–	105	100	–	–	–	0,50

Seco Material group No.	Cutting speed v_c (m/min)						Feed (mm/rev)
	TGP25 Insert width			TGP45 Insert width			
	3.0 – 4.0	4.5 – 6.0	8.0 – 10.0	1.4 – 2.5	3 – 4	5 – 6	
8	235	220	–	185	–	–	0,05
	220	205	–	165	180	160	0,10
	205	190	165	150	160	145	0,20
	190	165	145	–	145	130	0,30
	175	145	125	–	–	110	0,40
	–	135	105	–	–	–	0,50
9	210	195	–	165	–	–	0,05
	195	180	–	150	155	145	0,10
	180	160	140	135	145	130	0,20
	160	145	135	–	130	120	0,30
	145	130	110	–	–	100	0,40
	–	110	100	–	–	–	0,50
10	200	175	–	155	–	–	0,05
	190	165	–	145	145	135	0,10
	165	155	140	130	135	120	0,20
	155	135	130	–	–	105	0,30
	140	125	100	–	–	–	0,40
	–	105	90	–	–	–	0,50
11	–	–	–	135	–	–	0,05
	–	–	–	120	130	120	0,10
	–	–	–	105	120	105	0,20
	–	–	–	–	–	90	0,30
	–	–	–	–	–	–	0,40
	–	–	–	–	–	–	0,50
12	270	255	–	160	–	–	0,05
	245	230	–	145	150	140	0,10
	230	210	200	135	140	125	0,20
	210	185	165	–	120	110	0,30
	200	170	145	–	–	95	0,40
	–	165	135	–	–	–	0,50
13	230	215	–	135	–	–	0,05
	205	190	–	120	125	115	0,10
	190	170	150	110	115	100	0,20
	170	165	145	–	100	95	0,30
	150	145	135	–	–	85	0,40
	–	135	130	–	–	–	0,50
14	200	185	–	130	–	–	0,05
	180	165	–	110	115	105	0,10
	165	145	130	100	105	95	0,20
	145	135	125	–	95	85	0,30
	130	125	115	–	–	–	0,40
	–	105	95	–	–	–	0,50
15	200	185	–	120	–	–	0,05
	180	165	–	100	105	95	0,10
	165	145	130	95	95	85	0,20
	145	135	125	–	90	80	0,30
	130	125	115	–	–	–	0,40
	–	105	95	–	–	–	0,50



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