

Catalogue

Version 2018

Turning

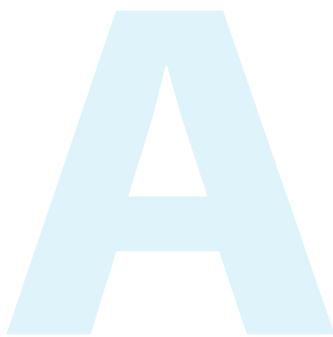


ZCC Cutting Tools Europe GmbH

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Parting & grooving

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Parting & grooving inserts

Double sided



ZT*D-MM	ZT*D-MG	ZT**-EG	ZP*D-MG	ZP*D-MG-R/L	Width	Page
2-8	2.5-6	1-6.5	2.5-6	2.35-2.85		
A351	A355	A357	A352	A354		



ZR*D-MG	ZR*D-EG	ZR*D-LH	ZILD-LC	Width	Page
2.5-6	3-6	6-8	8		
A360	A361	A364	A365		

Single sided



ZT*S-MG	ZP*S-MG	ZIMF-NM	ZIGQ-NM	Width	Page
5-6	2.5-6	3-6	3-6		
A356	A353	A362	A363		

Three cutting edges



QC**R/L	QC**R/L***R	Width	Page
0.75-4.8	1-4		
A367	A370		

External tool holders

				
GQC**R/L A397	QE**R/L A376	QE*S**N A382	QE*SR/L A381	QECDR/L A379

Page

				
QF**R/L A384	QF**RR/LL A386	QF*DR/L A390	QX*DR/L A380	QZS* A383

Page

Boring bars

			
C***-Q*DR/L A395	C16M-QBDR/L A375	C40X-Q*DR/L A394	S*K-QC**R/L A398

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Parting & grooving

System overview – parting & grooving

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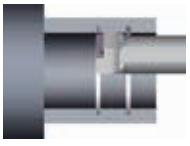
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Machining	Tool holders	Inserts	Tool features and parameters	Page
Parting			- Variable overhang, also in greater grooving depths. - Max. parting diameter 120.0 mm	A382-A383
			- Inserts with three different chip breakers for low cutting forces and good chip control. - Max. parting diameter 120.0 mm	A376-A378
				
Grooving & turning			- With this universal tooling system, and by using the different inserts, applications like parting, grooving, profiling and turning are possible - Max. groove depth 30.0 mm	A376-A378
				
				
Precision grooving			- Ground inserts for precision grooving. - Cutting edge width can be any size between 1.0–6.5 mm according to customers requirements. - ZT*D*-EG insert: when the groove width is between 1.0–2.4 mm the max. groove depth is 2.5 mm (in combination with QECD).	A379
			- Ground inserts for precision grooving. - Cutting edge width can be any size between 1.0–6.5 mm according to customers requirements. - ZT*D*-EG insert: when the groove width is 1.6 mm<S≤2.4 mm the max. groove depth is 3.4 mm when the groove width is 2.4 mm<S≤3.8 mm the max. groove depth is 17.0 mm when the groove width is 3.8 mm<S≤6.5 mm the max. groove depth is 22.0 mm	A376
Grooving			- Precision ground with high tolerances. - Sharp cutting edge for precise machining. - High efficiency through three cutting edges. - Finishing with groove width between 0.5 mm–4.8 mm - Max. groove depth 5.0 mm	A397
Internal machining			- Tooling system for groove turning and profiling. - Max. groove depth 13.0 mm - Min. diameter 27.0 mm	A375-A395
				

Machining		Tool holders	Inserts	Tool features and parameters	Page
Internal machining				<ul style="list-style-type: none"> - Fine ground insert for high precision. - Groove width 0.5–4.8 mm - Min. diameter 16.0 mm - Max. groove depth 4.0 mm 	A398
Grooving					
Axial grooving			ZT*D** ZR*D**	<ul style="list-style-type: none"> - Tooling system for groove turning and profiling. - Parting diameter 48.0–400.0 mm - Groove depth 10.0–30.0 mm 	A384-A389
			ZT*D** ZR*D**	<ul style="list-style-type: none"> - Tooling system for groove turning and profiling. - Parting diameter 48.0–400.0 mm - Groove depth 10.0–30.0 mm - 90° tool holder, top clamping 	A390-A392
Undercutting			ZT*D** ZR*D**	<ul style="list-style-type: none"> - Monoblock tool holder positioned at an angle (45°). - Tooling system for undercutting and turning. - Different turning operations like recesses, undercuts and copy turning. 	A380
Undercutting & turning					
Aluminium profile turning				<ul style="list-style-type: none"> - Special chip breakers for machining of aluminium. - Sharp and stable cutting edge for continuous to interrupted cut. - Profiling of aluminium rims. 	A394
Facing & longitudinal profile turning					
Tools for aerospace			ZIGQ** ZIMF**	<ul style="list-style-type: none"> - Precision insert with optimised seat and safe clamping. - Insert for heat-resistant alloys and special materials. 	A381
External machining					
Nonstandard tools		Nonstandard tools	Selection according to application	<ul style="list-style-type: none"> - Nonstandard solutions for machining of different workpieces. 	

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Parting & grooving

Chip breaker overview

Grooving

MM P M K S



Ground chip breaker with straight cutting edge for general machining of steel, stainless steel and heat-resistant alloys. Suitable for grooving, turning and parting.

MG P M K S



Universal chip breaker for general machining of steel, stainless steel and cast iron. Suitable for grooving, turning and parting.

MG P M K S



Universal chip breaker with round profile for general machining of steel, stainless steel and cast iron. Suitable for grooving and profiling.

EG M P S



Ground precision chip breaker for grooving and turning applications. Suitable for machining of stainless steel. E-tolerance for high repeatability.

EG M P S



Ground precision chip breaker with round profile for grooving and turning applications. Suitable for machining of stainless steel. E-tolerance for high repeatability.

NM S



Special chip breaker for machining of heat-resistant materials.

Grooving**LC****N**

Ground chip breaker for profile and turning applications of non-ferrous metals.

LH**N**

Ground chip breaker for profile and turning applications of non-ferrous metals.

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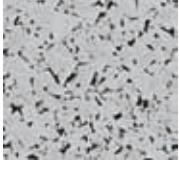
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Parting & grooving

Grade	ISO	Micro structure	Grade description
YBC152	P10–P20		CVD coated P10–P20 carbide grade for finishing to medium operation of steel and casting steel. Outstanding performance under higher cutting speed and temperature with excellent wear resistance.
YBC251	P20–P35		CVD coated P20–P35 carbide grade for medium operation to roughing of steel and casting steel in lower cutting speed.
YBC252	P20–P35		CVD coated P20–P35 carbide grade for medium operation to roughing of steel and casting steel. Optimal performance of wear resistance and toughness for a wide application field.
YBG102	S05–S15		PVD coated S05–S15 carbide substrate for finishing to medium application of super alloy material, stainless steel and aluminum. Good wear resistance in a wide application field.
YBG105	S05–S20		PVD multilayer coated S05–S20 carbide substrate for finishing to medium application of super alloy material but also stainless steel. Good wear resistance and thermal stability in a wide application field.
YB9320	P10–P30 M10–M25		PVD multilayer coated P10–P30/M10–M25 carbide substrate for finishing to medium application of stainless steel, super alloy and steel (grooving/milling). Optimized coating stability for higher wear resistance and thermal stability in a wide application field.
YBG202	P10–P30 M10–M25		PVD coated P10–P30/M10–M25 carbide substrate for finishing to medium application of stainless steel and steel (milling). Good wear resistance in a wide application field.

Parting & grooving

Grade	ISO	Micro structure	Grade description
YBG205	P10–P30 M20–M40 S15–S25		PVD multilayer coated P10–P30/M20–M40/S15–S25 carbide substrate for finishing to medium application of stainless steel, super alloy and steel (milling). Good wear resistance and thermal stability in a wide application field.
YBG302	P15–P30 M25–M40		PVD coated P15–P30/M25–M40 carbide substrate for medium roughing application of stainless steel and steel (milling). Good wear resistance and toughness.
YD101	K05–K20 N05–N20		Uncoated K05–K20/N05–N20 carbide substrate for fine to medium application in aluminum and other material.
YD201	K10–K30 N10–N30		Uncoated K10–K30/N10–N30 carbide substrate for medium application in aluminum and other material.

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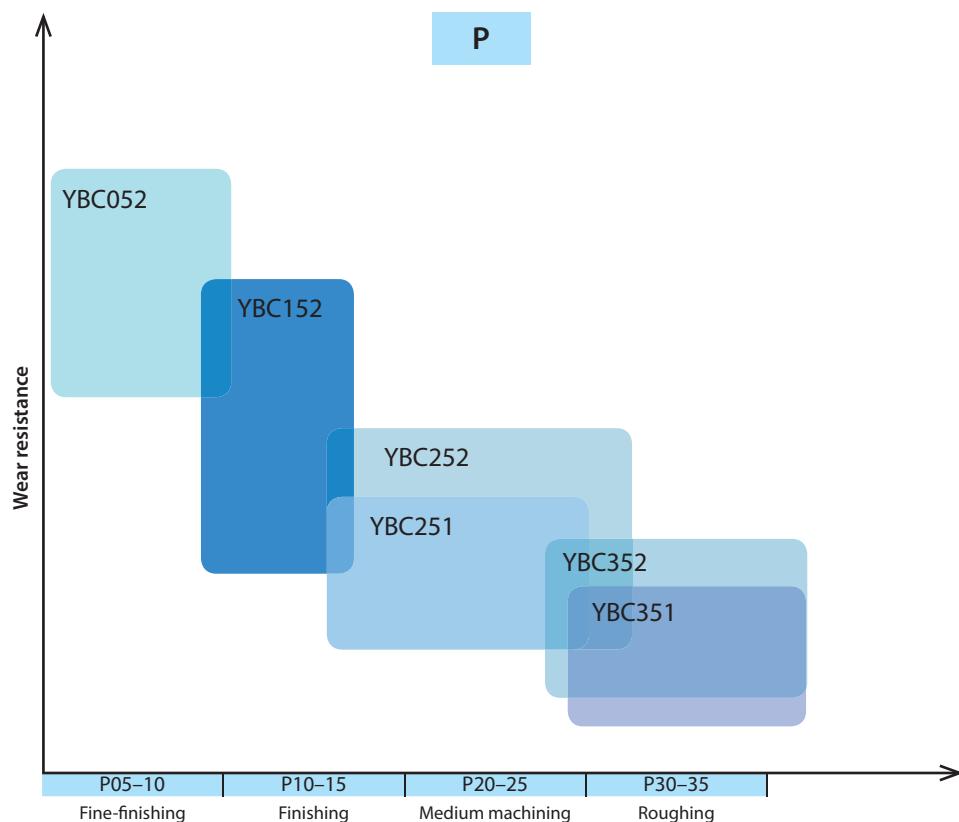
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CVD grades for steel, stainless steel and cast iron



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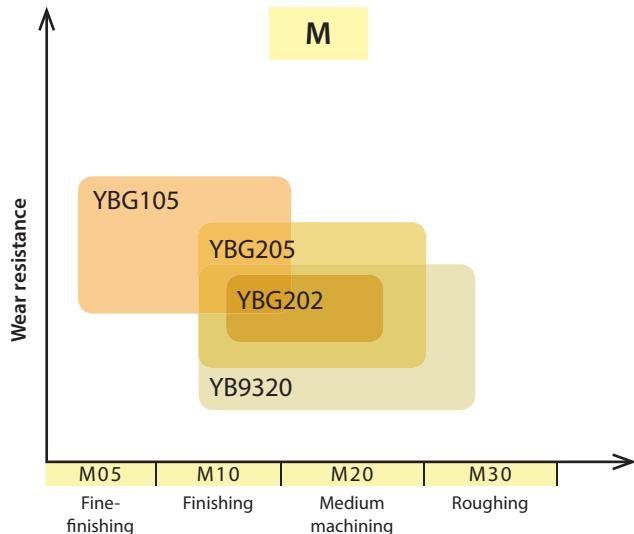
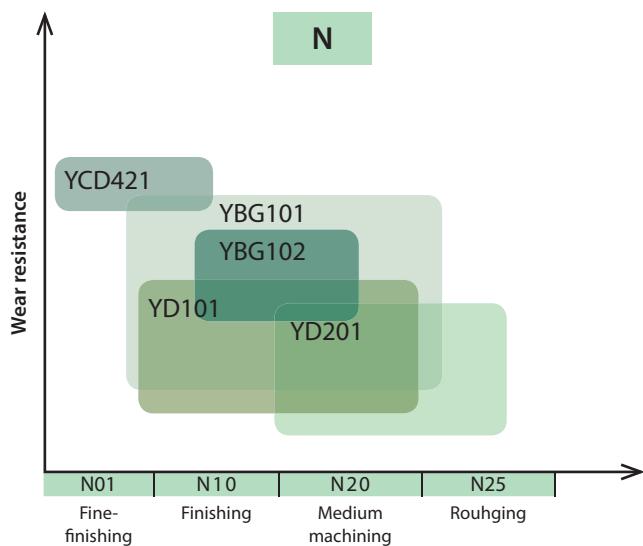
Drilling

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PVD grade for stainless steel and heat-resistant alloys**Turning grades for non-ferrous metals**

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Application fields of grades – Parting & grooving

	ISO	HC ¹ (CVD)	HC ¹ (PVD)	HT	HC ²	Ceramic	HW	CBN	PCD
P	P01								
	P10	YBC152							
	P20		YBC251						
	P30		YBC252						
	P40				YBG202				
M	M01								
	M10								
	M20				YBG202				
	M30				YB9320				
	M40				YBG302				
K	K01								
	K10								
	K20								
	K30								
N	N01								
	N10								
	N20								
	N30						YD101	YD102	
S	S01								
	S10								
	S20				YBG102				
	S30								
H	H01								
	H10								
	H20								
	H30								

P	Steel
M	Stainless steel
K	Cast iron

N	Non-ferrous metals
S	Heat-resistant alloys
H	Hardened materials

HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide

New

MM *chip breaker*



Ground chip breaker in combination with grade YB9320 for general machining of steel, stainless steel and heat-resistant alloys. Suitable for grooving, groove turning and parting.

Width 2.0 mm bis 8.0 mm



Parting & grooving

System code – inserts

ZP G D 04 04 – M G

1

2

3

4

5

6

7

Application	
Code	Description
ZP	Parting
ZT	Grooving & turning
ZR	Form turning

Insert seat size [mm]	
Groove width	
Code	Description
B	2.0
E	2.5
F	3.0
G	4.0
H	5.0
K	6.0
L	8.0

No. of cutting edges	
Code	Description
S	Single
D	Double

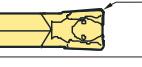
Insert thickness S [mm]	
Code	S
02	2.0
025	2.5
03	3.0
04	4.0
05	5.0
06	6.0
08	8.0

1

2

3

4

Nose radius r [mm]	
	
Code	r
02	0.2
03	0.3
04	0.4
08	0.8

Tolerance class [mm]	
Code	Description
M	± 0.13
E	± 0.025

Chip breaker	
Code	Description
G	General chip breaker
F	Special chip breaker
M	Straight edge

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Parting inserts

- Ideal machining conditions
- Normal machining conditions
- Unfavorable machining conditions

ZT** parting & grooving insert (double sided)					HC ¹ (CVD)	HC ¹ (PVD)	HW
	P	M	K	N	S	H	
Double cutting edge							
ISO	S	R±0.1	La max	f	YBC252 YBC251	YBG105 YBG102 YBG9320 YBG205 YBG202 YBG302	YD101 YD201
	ZTBD02002-MM ZTED02503-MM ZTFD0303-MM ZTGD0404-MM ZTHD0504-MM ZTKD0608-MM ZTLD0808-MM	2.0 2.5 3.0 4.0 5.0 6.0 8.0	0.2 0.3 0.3 0.4 0.4 0.8 0.8	13 17 17 22 22 22 28	0.02-0.07 0.03-0.1 0.04-0.13 0.06-0.18 0.08-0.23 0.12-0.27 0.13-0.29		

● Ex Stock ○ On demand

HC¹ Coated carbide
HW Uncoated carbide

Tool holders						
QE*D*R/L	QF*D*R/L-H	QF*D*RR-H	QF*D*LL-H	QF*D*R/L-L	*-QBDR/L	*-Q*DR/L
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- Ideal machining conditions
- Normal machining conditions
- Unfavorable machining conditions

Parting inserts

Parting & grooving insert (double sided)						HC ¹ (CVD)	HC ¹ (PVD)	HW
					P M K N S H	 	 	
Double cutting edge					H		 	
ISO		S±0.10	R±0.1	La max	f	YBC252 YBC251	YBG105 YBG102 YBG9320 YBG205 YBG202 YBG302	YD101 YD201
	ZPED02502-MG	2.5	0.2	17	0.03-0.1	●	● ● ● ●	
	ZPFD0302-MG	3.0	0.2	17	0.04-0.13	●	● ● ● ●	
	ZPGD0402-MG	4.0	0.2	22	0.07-0.18	●	● ● ● ●	○
	ZPHD0503-MG	5.0	0.3	22	0.1-0.24		● ● ● ●	
	ZPKD0604-MG	6.0	0.4	22	0.12-0.29	○	● ● ● ●	

• Ex Stock ○ On demand

HC¹ Coated carbide
HW Uncoated carbide

Tool holders					
QE*D*R/L	QF*D*R/L-H	QF*D*RR-H	QF*D*LL-H	QF*D*R/L-L	*-Q*DR/L
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Parting inserts

- Ideal machining conditions
- Normal machining conditions
- Unfavorable machining conditions

Parting & grooving insert (single sided)				P	HC ¹ (CVD)	HC ¹ (PVD)	HW
				M			
				K			
				N			
				S			
				H			
Single cutting edge							
ISO		S±0.10	R±0.1	f	YBC252 YBC251		
	ZPES02502-MG	2.5	0.2	0.03-0.1		YBG105 YBG102 YBG9320 YBG205 YBG202 YBG302	
	ZPFS0302-MG	3.0	0.2	0.04-0.13	●		
	ZPGS0402-MG	4.0	0.2	0.07-0.18	●		○
	ZPHS0503-MG	5.0	0.3	0.1-0.24		○	
	ZPKS0604-MG	6.0	0.4	0.12-0.29	○	●	

● Ex Stock ○ On demand

Single sided inserts only for parting blades

HC¹ Coated carbide
HW Uncoated carbide

Tool holders					
QZ**+QE**	QE*S*R/L	QF*S*R/L-H	QF*S*RR-H	QF*S*LL-H	QF*S*R/L-L
A382-A383	A381	A384	A389	A389	A390

-  Ideal machining conditions
-  Normal machining conditions
-  Unfavorable machining conditions

Parting inserts

ZT** parting & grooving insert (double sided)								HC ¹ (CVD)	HC ¹ (PVD)	HW
	P	● ●								
	M							● ● ● ●		
	K							● ● ● ●		
	N									
	S							● ● ● ●		
	H									
ISO		L	S	θ	R	La max	f	YBC252 YBC251	YBG105 YBG102 YBG9320 YBG205 YBG202 YBG302	YD101 YD201
	ZPED02502-MG-6L	20.0	2.35	6°	0.2	17	0.03-0.08		○ ●	○
	ZPED02502-MG-6R	20.0	2.35	6°	0.2	17	0.03-0.08		● ○ ●	○
	ZPED02502-MG-15L	20.0	2.35	15°	0.2	17	0.03-0.05		○ ●	○
	ZPED02502-MG-15R	20.0	2.35	15°	0.2	17	0.03-0.05		● ●	○
	ZPFD0302-MG-6L	20.0	2.85	6°	0.2	17	0.04-0.1		● ○ ○	○
	ZPFD0302-MG-6R	20.0	2.85	6°	0.2	17	0.04-0.1		● ○ ○ ○	○
	ZPFD0302-MG-15L	20.0	2.85	15°	0.2	17	0.04-0.08		● ○ ○	○
	ZPFD0302-MG-15R	20.0	2.85	15°	0.3	17	0.04-0.08	○	● ○ ○ ○	○

● Ex Stock ○ On demand

HC¹ Coated carbide

HW Uncoated carbide

Tool holders

OE*D*B/I



A376

Parting inserts

- Ideal machining conditions
- Normal machining conditions
- Unfavorable machining conditions

Parting & grooving insert (single sided)						HC ¹ (CVD)	HC ¹ (PVD)	HW
					P M K N S H			
Double cutting edge								
ISO	S±0.10	R±0.1	La max	f		YBC252 YBC251		
	ZTED02503-MG	2.5	0.3	17	0.03-0.11		YBG105 YBG102 YBG9320	
	ZTFD0303-MG	3.0	0.3	17	0.04-0.14		○	● ● ●
	ZTGD0404-MG	4.0	0.4	22	0.07-0.2	●	● ● ●	●
	ZTHD0504-MG	5.0	0.4	22	0.10-0.25		● ● ●	
	ZTKD0608-MG	6.0	0.8	22	0.13-0.30	○	○ ○ ● ●	YD101 YD201

• Ex Stock ○ On demand

HC¹ Coated carbide
HW Uncoated carbide

Tool holders					
QE*D*R/L	QF*D*R/L-H	QF*D*RR-H	QF*D*LL-H	QF*D*R/L-L	C*-Q*R/L*
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Parting inserts

Parting & grooving insert (single sided)					HC ¹ (CVD)	HC ¹ (PVD)	HW
P							
M							
K							
N							
S							
H							
Single cutting edge							
ISO		S±0.10	R±0.1	f	YBC252 YBC251	YBG105 YBG102 YBG9320 YBG205 YBG202 YBG302	YD101 YD201
	ZTHS0504-MG	5.0	0.4	0.10-0.25			
	ZTKS0608-MG	6.0	0.8	0.13-0.30		 	

● Ex Stock ○ On demand

HC¹ Coated carbide

HW Uncoated carbide

Tool holders					
QZ**+QE**	QE*S*R/L	QF*S*R/L-L	QF*S*R/L-H	QF*S*RR-H	QF*S*LL-H
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Parting inserts

- Ideal machining conditions
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Parting & grooving insert (double sided)					P	HC ¹ (CVD)	HC ¹ (PVD)	HW
ISO	S±0.025	R±0.05	La max	f		YBC252 YBC251		
ZTCD01002-EG	1.0	0,2	2,6	0.02-0.04			YBG105 YBG102	
ZTCD010500-EG	1.05	0	2,6	0.02-0.04			YBG9320	○
ZTCD011502-EG	1.15	0,2	2,6	0.02-0.04			YBG205	○
ZTCD012002-EG	1.20	0,2	2,6	0.02-0.04			YBG202	○
ZTCD0127502-EG	1.275	0,2	2,6	0.02-0.04			YBG302	
ZTCD01302-EG	1.3	0,2	2,6	0.02-0.04				○
ZTCD013802-EG	1.38	0,2	2,6	0.02-0.04				○
ZTCD01402-EG	1.4	0,2	2,6	0.02-0.04				○
ZTCD01500-EG	1.5	0	2,6	0.02-0.04				○
ZTCD01502-EG	1.5	0,2	2,6	0.02-0.04				○
ZTCD01503-EG	1.5	0,3	2,6	0.02-0.04				○
ZTCD015503-EG	1.55	0,3	2,6	0.02-0.04				○
ZTCD01602-EG	1.6	0,2	2,6	0.02-0.04				○
ZTCD01702-EG	1.7	0,2	3,4	0.02-0.08				○
ZTCD017503-EG	1.75	0,3	3,4	0.02-0.08				○
ZTCD017602-EG	1.76	0,2	3,4	0.02-0.08				○
ZTCD01802-EG	1.8	0,2	3,4	0.02-0.08				○
ZTCD018502-EG	1.85	0,2	3,4	0.02-0.08				○
ZTCD02000-EG	2.0	0	3,4	0.02-0.08				○
ZTCD02002-EG	2.0	0,2	3,4	0.02-0.08				○
ZTCD02003-EG	2.0	0,3	3,4	0.02-0.08				○
ZTCD020503-EG	2.05	0,3	3,4	0.02-0.08				○
ZTCD021502-EG	2.15	0,2	3,4	0.02-0.08				○
ZTCD022503-EG	2.25	0,3	3,4	0.02-0.08				○
ZTCD02302-EG	2.3	0,2	3,4	0.03-0.11				○
ZTCD02303-EG	2.3	0,3	3,4	0.03-0.11				○
ZTCD02402-EG	2.4	0,2	3,4	0.03-0.11				○
ZTED0247020-EG	2.47	0,2	17	0.03-0.11				○
ZTED02502-EG	2.5	0,2	17	0.03-0.11				○
ZTED026502-EG	2.6	0,2	17	0.03-0.11				○
ZTED02702-EG	2.7	0,2	17	0.03-0.11				○
ZTED02703-EG	2.7	0,3	17	0.03-0.11				○
ZTED02802-EG	2.8	0,2	17	0.04-0.13				○
ZTED02803-EG	2.8	0,3	17	0.04-0.13				○
ZTED02804-EG	2.8	0,4	17	0.04-0.13				○

● Ex Stock ○ On demand

HC¹ Coated carbide
HW Uncoated carbide

A

Turning

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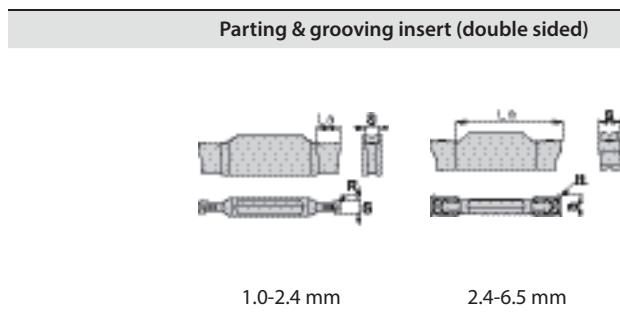
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- Ideal machining conditions
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Parting inserts

Parting & grooving insert (double sided)					HC ¹ (CVD)	HC ¹ (PVD)	HW
	P	M	K	N	S	H	
	1.0-2.4 mm	2.4-6.5 mm					
ISO	S±0.025	R±0.05	La max	f	YBC252 YBC251	YBG105 YBG102 YBG9320 YBG205 YBG202 YBG302	YD101 YD201
ZTED02903-EG	2.9	0.3	17	0.04-0.13			
ZTED03003-EG	3.0	0.3	17	0.04-0.13			○
ZTFD03001-EG	3.0	0.1	17	0.04-0.13			○
ZTFD03002-EG	3.0	0.2	17	0.04-0.13			○
ZTFD030038-EG	3.0	0.38	17	0.04-0.13			○
ZTFD03003-EG	3.0	0.3	17	0.04-0.13			○
ZTFD03004-EG	3.0	0.4	17	0.04-0.13			○
ZTFD03005-EG	3.0	0.5	17	0.04-0.13			○
ZTFD03008-EG	3.0	0.8	17	0.04-0.13			○
ZTFD031802-EG	3.18	0.2	17	0.04-0.13			○
ZTFD03203-EG	3.2	0.3	17	0.04-0.13			○
ZTFD0325024-EG	3.25	0.24	17	0.04-0.13			○
ZTFD03302-EG	3.3	0.2	17	0.04-0.13			○ ○
ZTFD03303-EG	3.3	0.3	17	0.04-0.13			○
ZTFD03403-EG	3.4	0.3	17	0.04-0.13			○
ZTFD035-EG	3.5	0	17	0.04-0.13			○
ZTFD03602-EG	3.6	0.2	17	0.04-0.13			○
ZTGD038048-EG	3.8	0.48	22	0.07-0.18			
ZTGD039602-EG	3.96	0.2	22	0.07-0.18			○
ZTGD04002-EG	4.0	0.2	22	0.07-0.18	○		○ ○
ZTGD04003-EG	4.0	0.3	22	0.07-0.18			○
ZTGD04004-EG	4.0	0.4	22	0.07-0.18			○
ZTGD04008-EG	4.0	0.8	22	0.07-0.18			○
ZTGD04202-EG	4.2	0.2	22	0.07-0.18			
ZTGD0423010-EG	4.23	0.1	22	0.07-0.18			○
ZTGD04503-EG	4.5	0.3	22	0.07-0.18			○
ZTGD04505-EG	4.5	0.5	22	0.07-0.18			○
ZTGD04803-EG	4.8	0.3	22	0.1-0.24			○
ZTGD04805-EG	4.8	0.5	22	0.1-0.24			○
ZTHD048058-EG	4.8	0.58	22	0.1-0.24			
ZTHD05003-EG	5.0	0.3	22	0.1-0.24			○
ZTHD05004-EG	5.0	0.4	22	0.1-0.24			○
ZTHD05008-EG	5.0	0.8	22	0.1-0.24			○
ZTHD05012-EG	5.01	0.12	22	0.1-0.24			○
ZTHD050508-EG	5.05	0.8	22	0.1-0.24			

• Ex Stock ○ On demand

HC¹ Coated carbide
HW Uncoated carbide

System code ➤

Grade selection ➤

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Cutting data ➤



Parting inserts

- Ideal machining conditions
- Normal machining conditions
- Unfavorable machining conditions

Parting & grooving insert (double sided)					P	HC ¹ (CVD)	HC ¹ (PVD)	HW
		M						
		K						
		N						
		S						
		H						
1.0-2.4 mm								
2.4-6.5 mm								
ISO		S±0.025	R±0.05	La max	f	YBC252 YBC251	YBG105 YBG102 YBG9320 YBG205 YBG202 YBG302	YD101 YD201
	ZTHD05202-EG	5.2	0,2	22	0.1-0.24			
	ZTHD052503-EG	5.25	0,3	22	0.1-0.24			
	ZTHD05403-EG	5.4	0,3	22	0.1-0.24			
	ZTHD05508-EG	5.5	0,8	22	0.1-0.24			
	ZTHD055603-EG	5.56	0,3	22	0.1-0.24			
	ZTKD06004-EG	6.0	0,4	22	0.12-0.29			
	ZTKD06008-EG	6.0	0,8	22	0.12-0.29			
	ZTKD063504-EG	6.35	0,4	22	0.12-0.29			
	ZTKD0635055-EG	6.35	0,55	22	0.12-0.29			
	ZTKD0635057-EG	6.35	0,57	22	0.12-0.29			
	ZTKD06504-EG	6.5	0,4	22	0.12-0.29		○	

• Ex Stock ○ On demand

HC¹ Coated carbide
HW Uncoated carbide

Tool holders	
QE*D*R/L	QECD
A376	A379

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Parting inserts

Parting & grooving insert (double sided)					HC ¹ (CVD)	HC ¹ (PVD)	HW	
				P M K N S H				
Double cutting edge				H				
ISO		S±0.10	La max	f	YBC252 YBC251			
	ZRED025-MG	2.5	17.5	0.03-0.11		YBG105 YBG102		
	ZRFD03-MG	3.0	17	0.04-0.14		YBG9320	● ● ●	
	ZRGD04-MG	4.0	21	0.07-0.2	○	YBG205	● ● ●	
	ZRHD05-MG	5.0	20	0.1-0.24		YBG202	● ● ●	
	ZRKD06-MG	6.0	19	0.12-0.29		YBG302	● ●	YD101 YD201

• Ex Stock ○ On demand

HC¹ Coated carbide

HW Uncoated carbide

Tool holders					
QE*D*R/L	QX*D*	QF*D*RR-H	QF*D*LL-H	QF*D*R/L-L	*-Q*DR/L
A376	A380	A386	A386	A390	A394

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Parting inserts

- Ideal machining conditions
- Normal machining conditions
- Unfavorable machining conditions

Parting & grooving insert (double sided)				HC ¹ (CVD)	HC ¹ (PVD)	HW
P		S				
M						
K						
N						
S						
H						
Double cutting edge						
ISO	S±0.025	La max	f	YBC252 YBC251	YBG105 YBG102 YBG9320 YBG205 YBG202 YBG302	YD101 YD201
ZRFD03-EG	3.0	17	0.04-0.14		●	
ZRGD04-EG	4.0	21	0.07-0.2		●	○
ZRHD05-EG	5.0	20	0.1-0.24		●	○
ZRKD06-EG	6.0	19	0.12-0.29		●	○

● Ex Stock ○ On demand

HC¹ Coated carbide
HW Uncoated carbide

Tool holders					
QE*D*R/L	QX*D*	QF*D*RR-H	QF*D*LL-H	QF*D*R/L-L	*-Q*DR/L
A376	A380	A386	A386	A390	A394

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Parting inserts

Parting & grooving insert (single sided)						HC ¹ (CVD)	HC ¹ (PVD)	HW
	P	M	K	N	S	H		

ISO	W±0.05	R±0.1	b	L	f	YBC252	YBC251	YBG105	YBG102	YBG9320	YBG205	YBG202	YBG302	YD101	YD201		
	ZIMF304N-NM	3	0.4	2.4	15.3	0.04-0.11		● ○	● ○	YBG105	YBG102	YBG9320	YBG205	YBG202	YBG302	YD101	YD201
	ZIMF406N-NM	4	0.6	3.2	15.3	0.07-0.16		● ○	● ○								
	ZIMF506N-NM	5	0.6	4	15.3	0.1-0.2		● ○	● ○								
	ZIMF608N-NM	6	0.8	4	15.3	0.12-0.23		● ○	● ○								

● Ex Stock ○ On demand

HC¹ Coated carbide

HW Uncoated carbide

Tool holders
QE*S*R/L-N

A381

System code ➞

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Parting inserts

- Ideal machining conditions
- Normal machining conditions
- Unfavorable machining conditions

Parting & grooving insert (single sided)					P	HC ¹ (CVD)	HC ¹ (PVD)	HW
ISO	W±0.05	b	L	f		YBC252 YBC251		
ZIGQ3N-NM	3.0	2.4	15.3	0.04-0.11		● ○	● ○	
ZIGQ4N-NM	4.0	3.2	15.3	0.07-0.16		● ○	● ○	
ZIGQ5N-NM	5.0	4.0	15.3	0.1-0.2		● ○	● ○	
ZIGQ6N-NM	6.0	5.0	15.3	0.13-0.24		● ○	● ○	

• Ex Stock ○ On demand

HC¹ Coated carbide
HW Uncoated carbide

Tool holders	
QE*S*R/L-N	
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Parting inserts

● Ex Stock ○ On demand

HC¹ Coated carbide
HW Uncoated carbide

Tool holders

C*-X-Q*DR/I



A394

Parting inserts

- Ideal machining conditions
- Normal machining conditions
- Unfavorable machining conditions

Parting & grooving insert (single sided)					HC ¹ (CVD)	HC ¹ (PVD)	HW
ISO	S \pm 0.025	La max	f				
ZILD08-LC	8.0	22.0	0.14-0.26	YBC252 YBC251	 	 	

● Ex Stock ○ On demand

HC¹ Coated carbide
HW Uncoated carbide

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Parting & grooving

System code – inserts – QC series

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Turning

QC 22 R 300 – R 03

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2

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4

5

6

Series

Cutting edge length [mm]	
Code	I.C
11	6.35
16	9.525
22	12.70

Cutting direction	
Code	Description
R	Right
L	Left

Groove width [mm]	
Code	Description
050	0.50
100	1.00
...	...
480	4.80

Edge shape	
Code	Description
R	Radius
C	Chamfer

1

2

3

4

5

6

C

Drilling

Radius/Chamfer [mm]	
Code	Description
005	0.05
02	0.2
03	0.3
04	0.4

Triangular inserts (round edge)

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QC 22 R 300 – R

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Series

Cutting edge length [mm]	
Code	I.C
11	6.35
16	9.525
22	12.70

Cutting direction	
Code	Description
R	Right
L	Left

Groove width [mm]	
Code	Description
050	0.50
100	1.00
...	...
480	4.80

Round

1

2

3

4

5

Parting inserts

- Ideal machining conditions
- Normal machining conditions
- Unfavorable machining conditions

QC** turning/milling insert								HC ¹ (CVD)	HC ¹ (PVD)	HW
							P M K N S H			
Right hand style										
ISO	S±0.025	La max	ØI.C	S1	Ød	f		YBC252 YBC251		
QC11R120-R02	1.2	1.5	6.35	3.18	2.8	0.02-0.03		YBG105 YBG102	● ○	
QC11L120-R02	1.2	1.5	6.35	3.18	2.8	0.02-0.03		YBG9320	● ○	
QC11R125-R02	1.25	1.5	6.35	3.18	2.8	0.02-0.03		YBG205	● ○	
QC11L125-R02	1.25	1.5	6.35	3.18	2.8	0.02-0.03		YBG202	● ○	
QC11R145-R02	1.45	1.5	6.35	3.18	2.8	0.02-0.05		YBG302	● ○	
QC11L145-R02	1.45	1.5	6.35	3.18	2.8	0.02-0.05			● ○	
QC11R150-R02	1.5	1.5	6.35	3.18	2.8	0.02-0.05			● ○	
QC11L150-R02	1.5	1.5	6.35	3.18	2.8	0.02-0.05			● ○	
QC11R200-R02	2	2	6.35	3.18	2.8	0.02-0.06			● ○	
QC11L200-R02	2	2	6.35	3.18	2.8	0.02-0.06			● ○	
QC11R225-R02	2.25	2	6.35	3.18	2.8	0.02-0.06			● ○	
QC11L225-R02	2.25	2	6.35	3.18	2.8	0.02-0.06			● ○	
QC16R075-R01	0.75	2	9.525	3.18	4.4	0.02-0.03			○	
QC16L075-R01	0.75	2	9.525	3.18	4.4	0.02-0.03			○	
QC16R080-R01	0.8	2	9.525	3.18	4.4	0.02-0.03			○	
QC16R095-R01	0.95	2	9.525	3.18	4.4	0.02-0.03			○	
QC16L095-R01	0.95	2	9.525	3.18	4.4	0.02-0.03			○	
QC16L100-R01	1	2	9.525	3.18	4.4	0.02-0.03			○	
QC16R110-R01	1.1	2	9.525	3.18	4.4	0.02-0.03			● ●	
QC16L110-R01	1.1	2	9.525	3.18	4.4	0.02-0.03			● ●	
QC16R115-R04	1.15	2	9.525	3.18	4.4	0.02-0.03			○ ○	
QC16R120-R01	1.2	2	9.525	3.18	4.4	0.02-0.03			○ ○	
QC16L120-R01	1.2	2	9.525	3.18	4.4	0.02-0.03			○ ○	
QC16R125-R02	1.25	2	9.525	3.18	4.4	0.02-0.03			● ○	
QC16L125-R02	1.25	2	9.525	3.18	4.4	0.02-0.03			●	
QC16R130-R02	1.3	2	9.525	3.18	4.4	0.02-0.06			● ○	
QC16L130-R02	1.3	2	9.525	3.18	4.4	0.02-0.06			● ○	
QC16R140-R02	1.4	2	9.525	3.18	4.4	0.02-0.06			○ ○	
QC16R145-R02	1.45	2	9.525	3.18	4.4	0.02-0.06			● ○	
QC16L145-R02	1.45	2	9.525	3.18	4.4	0.02-0.06			●	
QC16R150-R02	1.5	2	9.525	3.18	4.4	0.02-0.06			● ○	
QC16L150-R02	1.5	2	9.525	3.18	4.4	0.02-0.06			○	
QC16R160-R02	1.6	2	9.525	3.18	4.4	0.02-0.06			● ○	
QC16L160-R02	1.6	2	9.525	3.18	4.4	0.02-0.06			● ○	
QC16R165-R02	1.65	2	9.525	3.18	4.4	0.02-0.06			○	

● Ex Stock ○ On demand

HC¹ Coated carbide
HW Uncoated carbide



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Parting inserts

-  Ideal machining conditions
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QC** turning/milling insert								HC ¹ (CVD)	HC ¹ (PVD)	HW
							P M K N S H	HC ¹ (CVD) HC ¹ (PVD)	HW	
Right hand style										
ISO	S±0.025	La max	ØI.C	S1	Ød	f				
QC16L165-R02	1.65	2	9.525	3.18	4.4	0.02-0.06		YBG105 YBG102 YBG9320 YBG205 YBG202 YBG302	○	YD101
QC16R170-R02	1.7	2	9.525	3.18	4.4	0.02-0.06			○	YD201
QC16L170-R02	1.7	2	9.525	3.18	4.4	0.02-0.06			○	
QC16R175-R02	1.75	2	9.525	3.18	4.4	0.02-0.07			● ○	
QC16L175-R02	1.75	2	9.525	3.18	4.4	0.02-0.06			●	
QC16R180-R02	1.8	2	9.525	3.18	4.4	0.02-0.07			○	
QC16R185-R02	1.85	2.5	9.525	3.18	4.4	0.02-0.07			● ○	
QC16L185-R02	1.85	2.5	9.525	3.18	4.4	0.02-0.07			●	
QC16R200-R02	2	2.5	9.525	3.18	4.4	0.02-0.07			● ○	
QC16L200-R02	2	2.5	9.525	3.18	4.4	0.02-0.07			●	
QC16L210-R02	2.1	2.5	9.525	3.18	4.4	0.02-0.07			○	
QC16L210-R05	2.1	2.5	9.525	3.18	4.4	0.02-0.07			○	
QC16R220-R02	2.2	2.5	9.525	3.18	4.4	0.02-0.07			○	
QC16L220-R02	2.2	2.5	9.525	3.18	4.4	0.02-0.07			○	
QC16R225-R02	2.25	2.5	9.525	3.18	4.4	0.02-0.07			○	
QC16R250-R02	2.5	2.5	9.525	3.18	4.4	0.02-0.08			● ○	
QC16L250-R02	2.5	2.5	9.525	3.18	4.4	0.02-0.08			●	
QC16R300-R02	3	3	9.525	3.18	4.4	0.03-0.11			● ○	
QC16L300-R02	3	3	9.525	3.18	4.4	0.03-0.11			●	
QC22L100-R02	1	2	12.7	4.76	5.5	0.02-0.03			○	
QC22R125-R02	1.25	2	12.7	4.76	5.5	0.02-0.03			● ○	
QC22L125-R02	1.25	2	12.7	4.76	5.5	0.02-0.03			○ ○	
QC22R145-R02	1.45	2	12.7	4.76	5.5	0.02-0.06			○ ○	
QC22L145-R02	1.45	2	12.7	4.76	5.5	0.02-0.06			● ○	
QC22R150-R02	1.5	3.5	12.7	4.76	5.5	0.02-0.06			● ○	
QC22L150-R02	1.5	3.5	12.7	4.76	5.5	0.02-0.06			●	
QC22R163-R02	1.63	3.5	12.7	4.76	5.5	0.02-0.06			○	
QC22R163-R03	1.63	3.5	12.7	4.76	5.5	0.02-0.06			○	
QC22R175-R02	1.75	3.5	12.7	4.76	5.5	0.02-0.06			● ○	
QC22L175-R02	1.75	3.5	12.7	4.76	5.5	0.02-0.06			● ○	
QC22R185-R02	1.85	3.5	12.7	4.76	5.5	0.02-0.07			● ○	
QC22L185-R02	1.85	3.5	12.7	4.76	5.5	0.02-0.07			● ○	
QC22R195-R02	1.95	3.5	12.7	4.76	5.5	0.02-0.07			○	
QC22R200-R02	2	3.5	12.7	4.76	5.5	0.02-0.07			● ○	
QC22L200-R02	2	3.5	12.7	4.76	5.5	0.02-0.07			●	

● Ex Stock ○ On demand

HC¹ Coated carbide
HW Uncoated carbide



- Ideal machining conditions
- Normal machining conditions
- Unfavorable machining conditions

Parting inserts

QC** turning/milling insert							HC ¹ (CVD)	HC ¹ (PVD)	HW
							P M K N S H		
Right hand style									
ISO	S±0.025	La max	ØI.C	S1	Ød	f	YBC252 YBC251		
QC22R225-R02	2.25	3.5	12.7	4.76	5.5	0.02-0.07		YBG105 YBG102 YBG3320	
QC22R230-R02	2.3	3.5	12.7	4.76	5.5	0.02-0.07		YBG205 YBG202 YBG302	
QC22L230-R02	2.3	3.5	12.7	4.76	5.5	0.02-0.07			
QC22R250-R03	2.5	4	12.7	4.76	5.5	0.02-0.08			
QC22L250-R03	2.5	4	12.7	4.76	5.5	0.02-0.08			
QC22R265-R03	2.65	4	12.7	4.76	5.5	0.02-0.08			
QC22L265-R03	2.65	4	12.7	4.76	5.5	0.02-0.08			
QC22R280-R03	2.8	4	12.7	4.76	5.5	0.02-0.08			
QC22L280-R03	2.8	4	12.7	4.76	5.5	0.02-0.08			
QC22R300-R03	3	4	12.7	4.76	5.5	0.03-0.11			
QC22L300-R03	3	4	12.7	4.76	5.5	0.03-0.11			
QC22R320-R03	3.2	4	12.7	4.76	5.5	0.03-0.11			
QC22L320-R03	3.2	4	12.7	4.76	5.5	0.03-0.11			
QC22R330-R03	3.3	4	12.7	4.76	5.5	0.03-0.11			
QC22L330-R03	3.3	4	12.7	4.76	5.5	0.03-0.11			
QC22R350-R03	3.5	5	12.7	4.76	5.5	0.05-0.13			
QC22L350-R03	3.5	5	12.7	4.76	5.5	0.05-0.13			
QC22R400-R04	4	5	12.7	4.76	5.5	0.05-0.14			
QC22L400-R04	4	5	12.7	4.76	5.5	0.05-0.14			
QC22R430-R04	4.3	5	12.7	4.76	5.5	0.05-0.14		○ ○	
QC22L430-R04	4.3	5	12.7	4.76	5.5	0.05-0.14		● ●	
QC22R450-R04	4.5	5	12.7	4.76	5.5	0.06-0.18		○ ○	
QC22L450-R04	4.5	5	12.7	4.76	5.5	0.06-0.18		○ ○	○
QC22R480-R04	4.8	5	12.7	5.06	5.5	0.06-0.18		● ○	
QC22L480-R04	4.8	5	12.7	5.06	5.5	0.08-0.2		○ ○	

● Ex Stock ○ On demand

HC¹ Coated carbide
HW Uncoated carbide

Tool holders	
S***-QC**R/L	GQCR/L
A398	A397

A

Turning

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- Ideal machining conditions
- Normal machining conditions
- Unfavorable machining conditions

Parting inserts

QC** turning/milling insert								HC ¹ (CVD)	HC ¹ (PVD)	HW	
	P	M	K	N	S	H					
Right hand style											
ISO	S±0.025	La max	R/C	ØI.C	S1	Ød	f	YBC252 YBC251	YBG105 YBG102 YBG9320 YBG205 YBG202 YBG302	YD101 YD201	
	QC16R100R	1.0	2.0	0.5	12.7	3.18	4.4	0.05-0.14			
	QC16R120R	1.2	2.0	0.6	12.7	3.18	4.4	0.06-0.18		○	
	QC16R150R	1.5	2.0	0.75	12.7	3.18	4.4	0.08-0.2		○	
	QC16L200R	2.0	2.5	1.0	12.7	3.18	4.4	0.02-0.03		○ ○	
	QC16R200R	2.0	2.5	1.0	12.7	3.18	4.4	0.02-0.06		● ○	
	QC16L222R	2.22	2.5	1.11	12.7	3.18	4.4	0.02-0.06		○	
	QC16R222R	2.22	2.5	1.11	12.7	3.18	4.4	0.02-0.06		○	
	QC16R250R	2.5	2.5	1.25	12.7	3.18	4.4	0.02-0.06		○	
	QC16L280R	2.8	2.5	1.4	12.7	3.18	4.4	0.02-0.06		○	
	QC16R280R	2.8	2.5	1.4	12.7	3.18	4.4	0.02-0.07		○	
	QC16L300R	3.0	2.5	1.5	12.7	3.18	4.4	0.02-0.07		● ○	
	QC16R300R	3.0	2.5	1.5	12.7	3.18	4.4	0.02-0.07		● ○	
	QC22R100R	1.0	2.0	0.5	12.7	4.76	5.5	0.02-0.07		● ○	
	QC22L100R	1.0	2.0	0.5	12.7	4.76	5.5	0.02-0.07		○ ●	
	QC22R150R	1.5	3.5	0.75	12.7	4.76	5.5	0.02-0.08		● ○	
	QC22L150R	1.5	3.5	0.75	12.7	4.76	5.5	0.02-0.08		● ●	
	QC22R170R	1.7	3.5	0.85	12.7	4.76	5.5	0.02-0.08		○	
	QC22R200R	2.0	3.5	1.0	12.7	4.76	5.5	0.03-0.11		● ○	
	QC22L200R	2.0	3.5	1.0	12.7	4.76	5.5	0.03-0.11		● ○	
	QC22R250R	2.5	4.0	1.25	12.7	4.76	5.5	0.03-0.11		● ○	
	QC22L250R	2.5	4.0	1.25	12.7	4.76	5.5	0.05-0.13		● ○	
	QC22R300R	3.0	4.0	1.5	12.7	4.76	5.5	0.05-0.14		● ○	
	QC22L300R	3.0	4.0	1.5	12.7	4.76	5.5	0.05-0.14		● ○	
	QC22R320R	3.2	4.0	1.6	12.7	4.76	5.5	0.06-0.18		○	
	QC22R400R	4.0	5.0	2.0	12.7	4.76	5.5	0.06-0.18		● ○	
	QC22L400R	4.0	5.0	2.0	12.7	4.76	5.5	0.05-0.3		● ○	

• Ex Stock ○ On demand

 HC¹ Coated carbide

HW Uncoated carbide

Tool holders	
GQCR/L	S***-QC**R/L
A397	A398

System code ➤ A366

Grade selection ➤ A348

Technical info ➤ A445

Cutting data ➤ A400



Notes



Parting & grooving

System code – tool holders

External tool holders

Q F G D 2525 R 22 (S) – (130) (H)

1 2 3 4 5 6 7 8 9 10



1

Application	
Code	Description
E	External machining
F	Axial machining

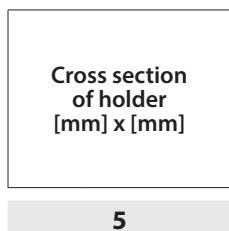
2

Insert seat size [mm]	
Holder/cutting width	
Code	Description
B	2.0
E	2.5
F	3.0
G	4.0
H	5.0
K	6.0
L	8.0

3

No. of cutting edges	
Code	Description
S	Single
D	Double

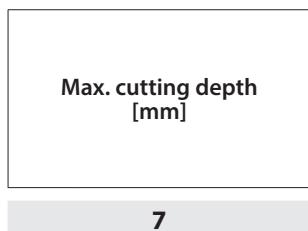
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5

Type	
Code	Description
R	Right
L	Left
N	Right and left

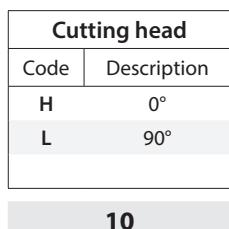
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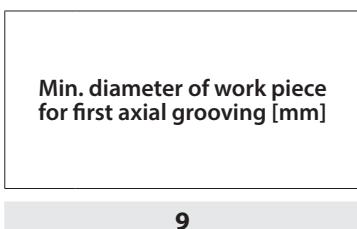
7

Extra	
Code	Description
S	Strengthened holder for deep cuts

8



10



9

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Turning

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Technical Information

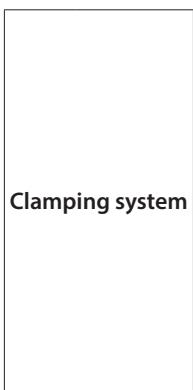
E

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Boring bars

C 32 S – Q G D R 11 – 44

1 2 3 4 5 6 7 8 9



Length [mm]	
Code	Description
Q	180
R	200
S	250
X	320



Insert seat size [mm]	
Holder/Cutting width	
Code	Description
B	2.0
E	2.5
F	3.0
G	4.0
H	5.0
K	6.0
L	8.0

1

2

3

4

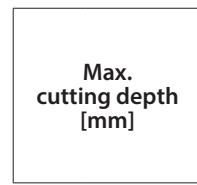
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No. of cutting edges	
Code	Description
S	Single
D	Double

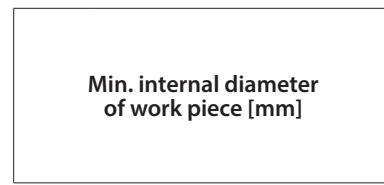
6

Type	
Code	Description
R	Right
L	Left
N	Right and left

7



Max.
cutting depth
[mm]



Min. internal diameter
of work piece [mm]

8

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Parting & grooving

System code – tool holders

Blade

Q E G D 32 N

1

2

3

4

5

6



1

Application	
Code	Description
E	External machining

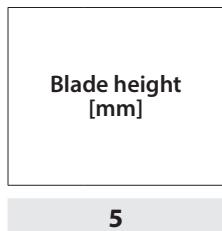
2

Insert seat size [mm]	
Holder/cutting width	
Code	Description
B	2.0
E	2.5
F	3.0
G	4.0
H	5.0
K	6.0
L	8.0

3

No. of cutting edges	
Code	Description
S	Single
D	Double

4



5

Type	
Code	Description
R	Right
L	Left
N	Right and left

6

Clamping block

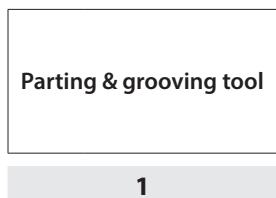
QZ S 32 32

1

2

3

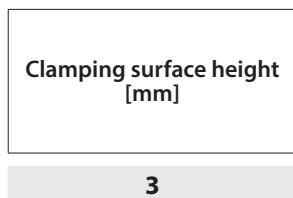
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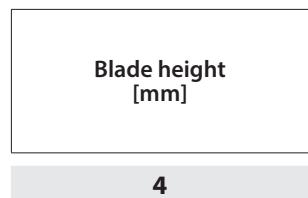
1

No. of cutting edges	
Code	Description
S	Single
D	Double

2



3



4

Parting & grooving tool holder (internal)

C16M-QBDR/L



Article	Stock	Dimensions [mm]							Inserts	
		R	L	ØD	ød	L	S	W		
C16M-QBDR/L04-20	● Ex stock	● On demand		20	16	150	12	2	4	ZTBD02002-MM

● Ex stock ○ On demand

✳ With internal cooling

Spare parts		
	Insert	ZTBD02002-MM
	H	16
	Screw	M5x10
	Wrench	WH30L

Insert	
A351	

System code > A373

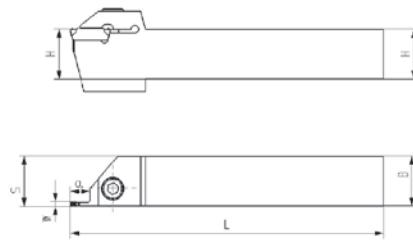
Grade selection > A348

Technical info > A445

Cutting data > A400

Parting & grooving tool holder (external)

QE**R/L



Article	Stock	Dimensions [mm]						Inserts
		*	R	L	HxB	L	S	W
QECD1616R/L04	● ●	16x16	150	16.17	2	4	Z*BD**	
QECD2020R/L07	● ●	20x20	150	20.17	2	7	Z*BD**	
QEED1616R/L10	● ●	16x16	125	15	2.5	10	Z*ED**	
QEED1616R/L17	● ●	16x16	125	15	2.5	17	Z*ED**	
QEED2020R/L17	● ●	20x20	125	19	2.5	17	Z*ED**	
QEED2020R/L10	● ●	20x20	150	10	2.5	10	Z*ED**	
QEED2525R/L10	● ●	25x25	150	19	2.5	10	Z*ED**	
QEED2525R/L17	● ●	25x25	150	19	2.5	17	Z*ED**	
QEFD1616R/L10	● ●	16x16	125	14.8	3	10	Z*FD**	
QEFD1616R/L17	● ●	16x16	125	14.8	3	17	Z*FD**	
QEFD2020R/L10	● ●	20x20	125	18.8	3	10	Z*FD**	
QEFD2020R/L17	● ●	20x20	125	18.8	3	17	Z*FD**	
QEFD2525R/L10	● ●	25x25	150	23.8	3	10	Z*FD**	
QEFD2525R/L17	● ●	25x25	150	23.8	3	17	Z*FD**	
QEGD2020R/L13	● ●	20x20	140	18.5	4	13	Z*GD**	
QEGD2020R/L22	● ●	20x20	140	18.5	4	22	Z*GD**	
QEGD2525R/L13	● ●	25x25	150	23.5	4	13	Z*GD**	
QEGD2525R/L22	● ●	25x25	150	23.5	4	22	Z*GD**	
QEGD3232R/L13	● ●	32x32	170	30.5	4	13	Z*GD**	
QEGD3232R/L22	● ●	32x32	170	30.5	4	22	Z*GD**	
QEHD2525R/L13	● ●	25x25	150	23	5	13	Z*HD**	
QEHD2525R/L22	● ●	25x25	150	23	5	22	Z*HD**	
QEHD3232R/L13	● ●	32x32	170	30	5	13	Z*HD**	
QEHD3232R/L22	● ●	32x32	170	30	5	22	Z*HD**	
QEKD2525R/L13	● ●	25x25	150	22.6	6	13	Z*KD**	
QEKD2525R/L22	● ●	25x25	150	22.6	6	22	Z*KD**	
QEKD3232R/L13	● ●	32x32	170	29.6	6	13	Z*KD**	
QEKD3232R/L22	● ●	32x32	170	29.6	6	22	Z*KD**	

● Ex stock ○ On demand

* With internal cooling

Parting & grooving tool holder (external)

Spare parts

	Insert	Z*BD**	Z*ED**	Z*ED**	Z*FD**	Z*FD**	Z*GD**	Z*HD**	Z*KD**
	H	16-20	16	20-32	16	20-32	20-32	20-32	20-32
	Screw	GB70-85-M5x16	GB70-85-M5x20	GB70-85-M6x20	GB70-85-M5x20	GB70-85-M6x20	GB70-85-M6x20	GB70-85-M6x20	GB70-85-M6x20
	Wrench	WH40L	WH40L	WH50L	WH40L	WH50L	WH50L	WH50L	WH50L

Insert



A351

A

Turning

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System code > A372

Grade selection > A348

Technical info > A445

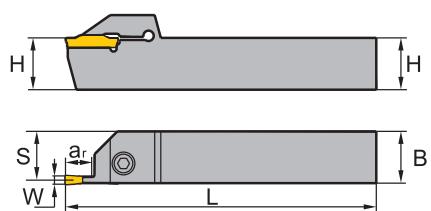
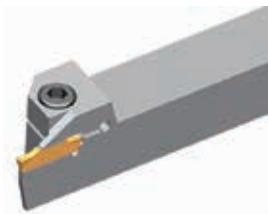
Cutting data > A400



A377

Parting & grooving tool holder (external)

QE*SN30



Article	Stock	Dimensions [mm]						Inserts
		HxB	L	S	W	ar _{max}		
QEHS2525N30	●	25x25	150	12.5	5	30	Z*HS**	
QEHS3232N30	●	32x32	170	16	5	30	Z*HS**	
QEKS2525N30	●	25x25	150	12.5	6	30	Z*KS**	
QEKS3232N30	○	32x32	170	16	6	30	Z*KS**	

● Ex stock ○ On demand

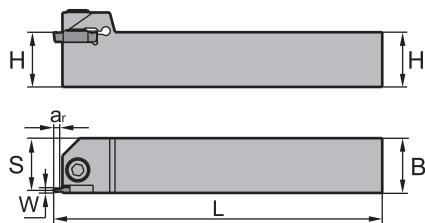
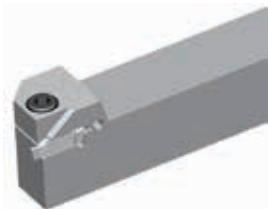
* With internal cooling

Spare parts			
	Insert	Z*HS**	Z*KS**
	H	25-32	25-32
	Screw	GB70-85-M6x20	GB70-85-M6x20
	Wrench	WH50L	WH50L

Insert
A353

Parting & grooving tool holder (external)

QECDR/L



Right hand style

Article	*	Stock		Dimensions [mm]					Inserts
		R	L	HxW	L	S	W	ar _{max}	
QECD1616R/L025		●	●	16x16	125	14.75		2.5	Z*CD**
QECD2020R/L025		●	●	20x20	125	18.75		2.5	Z*CD**
QECD2525R/L025		●	●	25x25	150	23.75		2.5	Z*CD**

● Ex stock ○ On demand

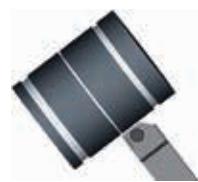
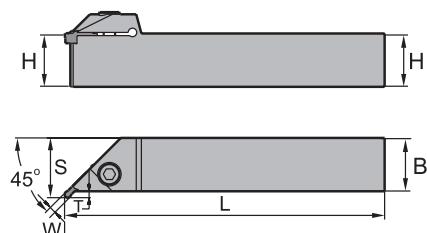
*With internal cooling

Spare parts			
	Insert	Z*CD**	Z*CD**
H		16	20-32
	Screw	GB70-85-M5x20	GB70-85-M6x20
	Wrench	WH40L	WH50L

Insert	
A357	

Parting & grooving tool holder (external)

QX*DR/L



Right hand style

Article	Stock	Dimensions [mm]						Inserts
		R	L	HxB	L	S	W	
QXFD2020R/L03-45	○ ○	20x20	125	23	3	3	Z*FD**	
QXFD2525R/L03-45	● ●	25x25	150	28	3	3	Z*FD**	
QXFD3232R/L03-45	○ ○	32x32	170	35	3	3	Z*FD**	
QXGD2020R/L03-45	○ ○	20x20	125	23	4	3	Z*GD**	
QXGD2525R/L03-45	○ ○	25x25	150	28	4	3	Z*GD**	
QXGD3232R/L03-45	○ ○	32x32	170	35	4	3	Z*GD**	
QXHD2020R/L04-45	○ ○	20x20	125	24	5	4	Z*HD**	
QXHD2525R/L04-45	○ ○	25x25	150	29	5	4	Z*HD**	
QXHD3232R/L04-45	○ ○	32x32	170	36	5	4	Z*HD**	
QXKD2020R/L04-45	○ ○	20x20	125	24	6	4	Z*KD**	
QXKD2525R/L04-45	○ ○	25x25	150	29	6	4	Z*KD**	
QXKD3232R/L04-45	○ ○	32x32	170	36	6	4	Z*KD**	

● Ex stock ○ On demand

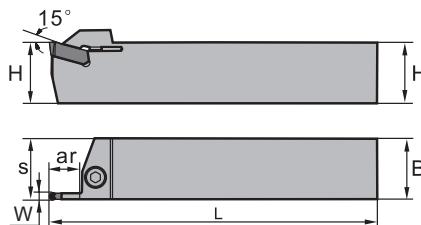
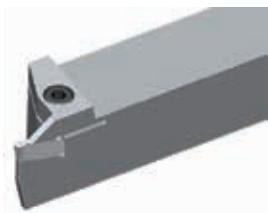
* With internal cooling

Spare parts					
	Insert	Z*FD** 20-32	Z*GD** 20-32	Z*HD** 20-32	Z*KD** 20-32
	Screw	GB70-85-M6x20	GB70-85-M6x20	GB70-85-M6x20	GB70-85-M6x20
	Wrench	WH50L	WH50L	WH50L	WH50L



Parting & grooving tool holder (external)

QE*SR/L



Right hand style

Article	*	Stock		Dimensions [mm]					Inserts
		R	L	HxW	L	S	W	ar _{max}	
QEFS2525R/L12-3N	● ○	25x25	150	25.3	3	12	ZI**		
QEGS2525R/L12-4N	○ ○	25x25	150	25.3	4	12	ZI**		
QEHS2525R/L12-5N	● ●	25x25	150	25.4	5	12	ZI**		
QEKS2525R/L12-6N	● ○	25x25	150	25.4	6	12	ZI**		
QEFS3232R/L22-3N	● ○	32x32	170	32.3	3	22	ZI**		
QEGS3232R/L22-4N	● ○	32x32	170	32.3	4	22	ZI**		
QEHS3232R/L22-5N	● ●	32x32	170	32.4	5	22	ZI**		
QEKS3232R/L22-6N	○ ○	32x32	170	32.4	6	22	ZI**		

● Ex stock ○ On demand

* With internal cooling

Spare parts		
	Insert H	ZI** 25-32
	Screw	GB70-85-M6x20
	Wrench	WH50L

Insert	
A362	

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Parting blade for external machining

QE*S**N



Article	Stock	Dimensions [mm]							Inserts
		H	L	h	B	W	ØDmax		
QEES26N	●	26	110	19	2	2.5	60	ZPES**	
QEES32N	●	32	150	24.6	2	2.5	100	ZPES**	
QEFS26N	●	26	110	19	2.4	3	60	ZPFS**	
QEFS32N	●	32	150	24.6	2.4	3	100	ZPFS**	
QEGS26N	●	26	110	19	3.2	4	70	ZPGS**	
QEGS32N	●	32	150	24.6	3.2	4	120	ZPGS**	
QEHS26N	●	26	110	19	4	5	70	ZPHS**	
QEHS32N	●	32	150	24.6	4	5	120	ZPHS**	
QEKS26N	●	26	110	19	5	6	70	ZPKS**	
QEKS32N	●	32	150	24.6	5	6	120	ZPKS**	

● Ex stock ○ On demand

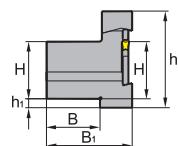
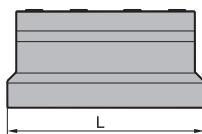
* With internal cooling

Spare parts						
	Insert	ZPES** 26-32	ZPFS** 26-32	ZPGS** 26-32	ZPHS** 26-32	ZPKS** 26-32
	Wrench	W50RL	W50RL	W50RL	W50RL	W50RL

Insert	
<hr/> A353 <hr/>	

Clamping block (external)

QZS*



Article	Stock	Dimensions [mm]							Inserts
		H	L	h ₁	h ₂	B	B1		
QZS2026	●	20	86	10	46.6	19	38	QE**26	
QZS2526	●	25	86	5	46.6	23	42	QE**26	
QZS3226	○	32	86	3	51.6	30	48	QE**26	
QZS2032	●	20	110	13	50	19	38	QE**32	
QZS2532	●	25	110	8	50	23	42	QE**32	
QZS3232	●	32	110	5	54	30	48	QE**32	

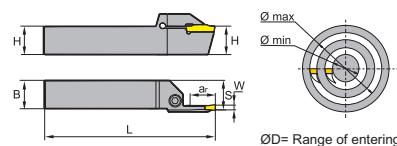
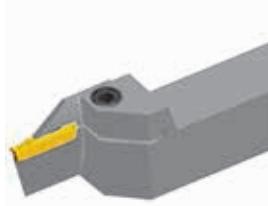
● Ex stock ○ On demand

*With internal cooling

Spare parts			
	Insert	QE**26	QE**32
H		20-32	20-32
	Clamp	QZC26	QZC32
	Screw	GB70-85-M6x20	GB70-85-M6x20
	Wrench	W50RL	W50RL

Parting & grooving tool holder (axial)

QF**R/L



Left hand style

Article	Stock	Dimensions [mm]							Inserts
		R	L	HxB	L	S	W	ar _{max}	
QFFD2020R/L7-48H	○ ○	20x20	150	21	3	7	48-66	Z*FD**	
QFFD2020R/L7-60H	○ ○	20x20	150	21	3	7	60-80	Z*FD**	
QFFD2020R/L7-74H	○ ○	20x20	150	21	3	7	74-110	Z*FD**	
QFFD2020R/L7-100H	○ ○	20x20	150	21	3	7	100-150	Z*FD**	
QFFD2020R/L10-48H	● ●	20x20	150	21	3	10	48-66	Z*FD**	
QFFD2020R/L10-60H	○ ○	20x20	150	21	3	10	60-80	Z*FD**	
QFFD2020R/L10-74H	● ●	20x20	150	21	3	10	74-110	Z*FD**	
QFFD2020R/L10-100H	○ ○	20x20	150	21	3	10	100-150	Z*FD**	
QFFD2525R/L10-48H	● ●	25x25	150	26	3	10	48-66	Z*FD**	
QFFD2525R/L10-60H	● ●	25x25	150	26	3	10	60-80	Z*FD**	
QFFD2525R/L10-74H	● ●	25x25	150	26	3	10	74-110	Z*FD**	
QFFD2525R/L10-100H	● ●	25x25	150	26	3	10	100-150	Z*FD**	
QFFD2525R/L17-48H	● ●	25x25	150	26	3	17	48-66	Z*FD**	
QFFD2525R/L17-60H	● ●	25x25	150	26	3	17	60-80	Z*FD**	
QFFD2525R/L17-74H	● ●	25x25	150	26	3	17	74-110	Z*FD**	
QFFD2525R/L17-100H	● ●	25x25	150	26	3	17	100-150	Z*FD**	
QFGD2020R/L10-52H	○ ○	20x20	150	19	4	10	52-72	Z*GD**	
QFGD2020R/L10-64H	○ ○	20x20	150	19	4	10	64-100	Z*GD**	
QFGD2020R/L10-90H	○ ●	20x20	150	19	4	10	90-140	Z*GD**	
QFGD2020R/L10-130H	○ ○	20x20	150	19	4	10	130-230	Z*GD**	
QFGD2020R/L15-52H	● ●	20x20	150	19	4	15	52-72	Z*GD**	
QFGD2020R/L15-64H	○ ○	20x20	150	19	4	15	64-100	Z*GD**	
QFGD2020R/L15-90H	● ○	20x20	150	19	4	15	90-140	Z*GD**	
QFGD2020R/L15-130H	● ○	20x20	150	19	4	15	130-230	Z*GD**	
QFGD2525R/L13-52H	● ●	25x25	150	24	4	13	52-72	Z*GD**	
QFGD2525R/L13-64H	● ●	25x25	150	24	4	13	64-100	Z*GD**	
QFGD2525R/L13-90H	● ●	25x25	150	24	4	13	90-140	Z*GD**	
QFGD2525R/L13-130H	● ●	25x25	150	24	4	13	130-230	Z*GD**	
QFGD2525R/L22-52H	● ●	25x25	150	24	4	22	52-72	Z*GD**	
QFGD2525R/L22-64H	● ●	25x25	150	24	4	22	64-100	Z*GD**	
QFGD2525R/L22-90H	● ●	25x25	150	24	4	22	90-140	Z*GD**	
QFGD2525R/L22-130H	● ●	25x25	150	24	4	22	130-230	Z*GD**	
QFHD2525R/L13-58H	● ●	25x25	150	23.5	5	13	58-96	Z*HD**	
QFHD2525R/L13-86H	● ●	25x25	150	23.5	5	13	86-140	Z*HD**	
QFHD2525R/L13-130H	● ●	25x25	150	23.5	5	13	130-200	Z*HD**	
QFHD2525R/L13-185H	● ●	25x25	150	23.5	5	13	185-400	Z*HD**	

Article	Stock *	Dimensions [mm]							Inserts
		R	L	HxB	L	S	W	a _r _{max}	
QFHD2525R/L22-58H	● ●	25x25	150	23,5	5	22	58-96	Z*HD**	
QFHD2525R/L22-86H	● ●	25x25	150	23,5	5	22	86-140	Z*HD**	
QFHD2525R/L22-130H	● ●	25x25	150	23,5	5	22	130-200	Z*HD**	
QFHD2525R/L22-185H	● ●	25x25	150	23,5	5	22	185-400	Z*HD**	
QFKD2525R/L13-60H	● ●	25x25	150	23	6	13	60-100	Z*KD**	
QFKD2525R/L13-88H	○ ●	25x25	150	23	6	13	88-180	Z*KD**	
QFKD2525R/L13-160H	● ●	25x25	150	23	6	13	160-400	Z*KD**	
QFKD2525R/L22-60H	● ●	25x25	150	23	6	22	60-100	Z*KD**	
QFKD2525R/L22-88H	● ●	25x25	150	23	6	22	88-180	Z*KD**	
QFKD2525R/L22-160H	● ●	25x25	150	23	6	22	160-400	Z*KD**	

● Ex stock ○ On demand

* With internal cooling

Spare parts					
	Insert	Z*FD** 20-25	Z*GD** 20-25	Z*HD** 20-25	Z*KD** 20-25
	Screw	GB70-85-M6x20	GB70-85-M6x20	GB70-85-M6x20	GB70-85-M6x20
	Wrench	W50RL	W50RL	W50RL	W50RL

Insert					
					

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A

Turning

B

Milling

C

Drilling

D

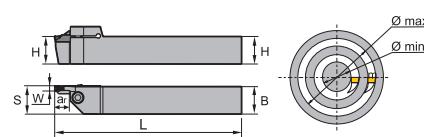
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Parting & grooving tool holder (axial)

QF**RR/LL



LL Version

Article	*	Stock		Dimensions [mm]						Inserts
		R	L	HxB	L	S	W	a _r max	ØD (min-max)	
QFFD2020LL7-48H	○	20x20	150	21	3	7	48-66	Z*FD**		
QFFD2020RR7-48H	○	20x20	150	21	3	7	48-66	Z*FD**		
QFFD2020LL7-60H	○	20x20	150	21	3	7	60-80	Z*FD**		
QFFD2020RR7-60H	○	20x20	150	21	3	7	60-80	Z*FD**		
QFFD2020LL7-74H	○	20x20	150	21	3	7	74-110	Z*FD**		
QFFD2020RR7-74H	○	20x20	150	21	3	7	74-110	Z*FD**		
QFFD2020LL10-100H	○	20x20	150	21	3	7	100-150	Z*FD**		
QFFD2020RR7-100H	○	20x20	150	21	3	7	100-150	Z*FD**		
QFFD2020LL10-48H	○	20x20	150	21	3	10	48-66	Z*FD**		
QFFD2020RR10-48H	●	20x20	150	21	3	10	48-66	Z*FD**		
QFFD2020LL10-60H	○	20x20	150	21	3	10	60-80	Z*FD**		
QFFD2020RR10-60H	○	20x20	150	21	3	10	60-80	Z*FD**		
QFFD2020LL10-74H	○	20x20	150	21	3	10	74-110	Z*FD**		
QFFD2020RR10-74H	○	20x20	150	21	3	10	74-110	Z*FD**		
QFFD2020LL10-100H	○	20x20	150	21	3	10	100-150	Z*FD**		
QFFD2020RR10-100H	○	20x20	150	21	3	10	100-150	Z*FD**		
QFFD2525LL10-48H	●	25x25	150	26	3	10	48-66	Z*FD**		
QFFD2525RR10-48H	●	25x25	150	26	3	10	48-66	Z*FD**		
QFFD2525LL10-60H	○	25x25	150	26	3	10	60-80	Z*FD**		
QFFD2525RR10-60H	●	25x25	150	26	3	10	60-80	Z*FD**		
QFFD2525LL10-74H	○	25x25	150	26	3	10	74-110	Z*FD**		
QFFD2525RR10-74H	○	25x25	150	26	3	10	74-110	Z*FD**		
QFFD2525LL10-100H	○	25x25	150	26	3	10	100-150	Z*FD**		
QFFD2525RR10-100H	○	25x25	150	26	3	10	100-150	Z*FD**		
QFFD2525LL17-48H	●	25x25	150	26	3	17	48-66	Z*FD**		
QFFD2525RR17-48H	○	25x25	150	26	3	17	48-66	Z*FD**		
QFFD2525LL17-60H	○	25x25	150	26	3	17	60-80	Z*FD**		
QFFD2525RR17-60H	●	25x25	150	26	3	17	60-80	Z*FD**		
QFFD2525LL17-74H	○	25x25	150	26	3	17	74-110	Z*FD**		
QFFD2525RR17-74H	○	25x25	150	26	3	17	74-110	Z*FD**		
QFFD2525LL17-100H	○	25x25	150	26	3	17	100-150	Z*FD**		
QFFD2525RR17-100H	●	25x25	150	26	3	17	100-150	Z*FD**		
QFGD2020LL10-52H	○	20x20	150	21	4	10	52-72	Z*GD**		
QFGD2020RR10-52H	○	20x20	150	21	4	10	52-72	Z*GD**		
QFGD2020LL10-64H	○	20x20	150	21	4	10	64-100	Z*GD**		
QFGD2020RR10-64H	○	20x20	150	21	4	10	64-100	Z*GD**		

Article	*	Stock		Dimensions [mm]						Inserts
		R	L	HxB	L	S	W	ar _{max}	ØD (min-max)	
QFGD2020LL10-90H	○	20x20	150	21	4	10	90-140	Z*GD**		
QFGD2020RR10-90H	○	20x20	150	21	4	10	90-140	Z*GD**		
QFGD2020LL10-130H	○	20x20	150	21	4	10	130-230	Z*GD**		
QFGD2020RR10-130H	○	20x20	150	21	4	10	130-230	Z*GD**		
QFGD2020LL15-52H	○	20x20	150	26	4	15	52-72	Z*GD**		
QFGD2020RR15-52H	○	20x20	150	26	4	15	52-72	Z*GD**		
QFGD2020LL15-64H	○	20x20	150	26	4	15	64-100	Z*GD**		
QFGD2020RR15-64H	○	20x20	150	26	4	15	64-100	Z*GD**		
QFGD2020LL15-90H	○	20x20	150	26	4	15	90-140	Z*GD**		
QFGD2020RR15-90H	●	20x20	150	26	4	15	90-140	Z*GD**		
QFGD2020LL15-130H	○	20x20	150	21	4	15	130-230	Z*GD**		
QFGD2020RR15-130H	●	20x20	150	26	4	15	130-230	Z*GD**		
QFGD2525LL13-52H	○	25x25	150	21	4	13	52-72	Z*GD**		
QFGD2525RR13-52H	●	25x25	150	21	4	13	52-72	Z*GD**		
QFGD2525LL13-64H	●	25x25	150	21	4	13	64-100	Z*GD**		
QFGD2525RR13-64H	○	25x25	150	21	4	13	64-100	Z*GD**		
QFGD2525LL13-90H	○	25x25	150	21	4	13	90-140	Z*GD**		
QFGD2525RR13-90H	○	25x25	150	21	4	13	90-140	Z*GD**		
QFGD2525LL13-130H	●	25x25	150	26	4	13	130-230	Z*GD**		
QFGD2525RR13-130H	○	25x25	150	21	4	13	130-230	Z*GD**		
QFGD2525LL22-52H	●	25x25	150	26	4	22	52-72	Z*GD**		
QFGD2525RR22-52H	●	25x25	150	26	4	22	52-72	Z*GD**		
QFGD2525LL22-64H	○	25x25	150	26	4	22	64-100	Z*GD**		
QFGD2525RR22-64H	●	25x25	150	26	4	22	64-100	Z*GD**		
QFGD2525LL22-90H	●	25x25	150	26	4	22	90-140	Z*GD**		
QFGD2525RR22-90H	○	25x25	150	26	4	22	90-140	Z*GD**		
QFGD2525LL22-130H	●	25x25	150	26	4	22	130-230	Z*GD**		
QFGD2525RR22-130H	●	25x25	150	26	4	22	130-230	Z*GD**		
QFHD2525LL13-58H	○	25x25	150	26	5	13	58-96	Z*HD**		
QFHD2525RR13-58H	○	25x25	150	26	5	13	58-96	Z*HD**		
QFHD2525LL13-86H	○	25x25	150	26	5	13	86-140	Z*HD**		
QFHD2525RR13-86H	○	25x25	150	26	5	13	86-140	Z*HD**		
QFHD2525LL13-130H	○	25x25	150	26	5	13	130-200	Z*HD**		
QFHD2525RR13-130H	○	25x25	150	26	5	13	130-200	Z*HD**		
QFHD2525LL13-185H	○	25x25	150	26	5	13	185-400	Z*HD**		
QFHD2525RR13-185H	○	25x25	150	26	5	13	185-400	Z*HD**		
QFHD2525LL22-58H	●	25x25	150	26	5	22	58-96	Z*HD**		
QFHD2525RR22-58H	●	25x25	150	26	5	22	58-96	Z*HD**		
QFHD2525LL22-86H	○	25x25	150	26	5	22	86-140	Z*HD**		
QFHD2525RR22-86H	○	25x25	150	26	5	22	86-140	Z*HD**		
QFHD2525LL22-130H	○	25x25	150	26	5	22	130-200	Z*HD**		
QFHD2525RR22-130H	●	25x25	150	26	5	22	130-200	Z*HD**		
QFHD2525LL22-185H	○	25x25	150	26	5	22	185-400	Z*HD**		
QFHD2525RR22-185H	○	25x25	150	26	5	22	185-400	Z*HD**		
QFKD2525LL13-60H	○	25x25	150	26	6	13	60-100	Z*KD**		
QFKD2525RR13-60H	○	25x25	150	26	6	13	60-100	Z*KD**		
QFKD2525LL13-88H	○	25x25	150	26	6	13	88-180	Z*KD**		
QFKD2525RR13-88H	○	25x25	150	26	6	13	88-180	Z*KD**		

Parting & grooving

Tool holders

A

Turning

B

Milling

C

Drilling

D

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Article	Stock	Dimensions [mm]							Inserts
		R	L	HxB	L	S	W	a _r _{max}	
QFKD2525LL13-160H	○	25x25	150	26	6	13	160-400	Z*KD**	
QFKD2525RR13-160H	○	25x25	150	26	6	13	160-400	Z*KD**	
QFKD2525LL22-60H	○	25x25	150	26	6	22	60-100	Z*KD**	
QFKD2525RR22-60H	○	25x25	150	26	6	22	60-100	Z*KD**	
QFKD2525LL22-88H	○	25x25	150	26	6	22	88-180	Z*KD**	
QFKD2525RR22-88H	○	25x25	150	26	6	22	88-180	Z*KD**	
QFKD2525LL22-160H	●	25x25	150	26	6	22	160-400	Z*KD**	
QFKD2525RR22-160H	○	25x25	150	26	6	22	160-400	Z*KD**	

● Ex stock ○ On demand

* With internal cooling

Spare parts					
	Insert	Z*FD**	Z*GD**	Z*HD**	Z*KD**
	H	20-25	20-25	20-25	20-25
	Screw	GB70-85-M6x20	GB70-85-M6x20	GB70-85-M6x20	GB70-85-M6x20
	Wrench	W50RL	W50RL	W50RL	W50RL



A351

System code A372

Grade selection A348

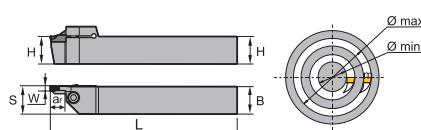
Technical info A445

Cutting data A400



Parting & grooving tool holder (axial)

QF*SRR/LL



LL Version

Article	Stock	Dimensions [mm]							Inserts
		R	L	HxB	L	S	W	ar _{max}	
QFHS2525LL30-185H	●	25x25	150	26	5	30	185-400	Z*HS**	
QFHS2525RR30-185H	○	25x25	150	26	5	30	185-400	Z*HS**	
QFKS2525RR30-160H	○	25x25	150	26	6	30	160-400	Z*KS**	
QFKS2525LL30-160H	○	25x25	150	26	6	30	160-400	ZT*S**	

● Ex stock ○ On demand

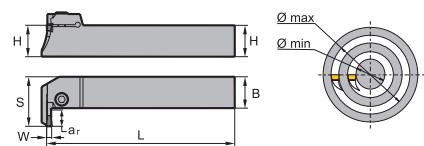
* With internal cooling

Spare parts				
	Insert	Z*HS**	Z*KS**	ZT*S**
		H	25	25
	Screw	GB70-85-M6x20	GB70-85-M6x20	GB70-85-M6x20
	Wrench	W50RL	W50RL	W50RL

Insert	
	A356

Parting & grooving tool holder (axial)

QF*DR/L



Left hand style

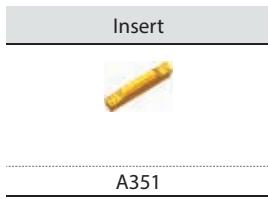
Article	*	Stock		Dimensions [mm]						Inserts
		R	L	HxB	L	S	W	ar _{max}	ØD (min-max)	
QFFD2020R/L7-48L	○ ○	20x20	150	28.5	3	7	48x66	Z*FD**		
QFFD2020R/L7-60L	○ ○	20x20	150	28.5	3	7	60x80	Z*FD**		
QFFD2020R/L7-74L	● ○	20x20	150	28.5	3	7	74x110	Z*FD**		
QFFD2020R/L7-100L	○ ○	20x20	150	28.5	3	7	100x150	Z*FD**		
QFFD2020R/L10-48L	● ●	20x20	150	31.5	3	10	48x66	Z*FD**		
QFGD2020R/L10-52L	○ ●	20x20	150	31.5	4	10	52x72	Z*GD**		
QFFD2020R/L10-60L	● ●	20x20	150	31.5	3	10	60x80	Z*FD**		
QFGD2020R/L10-64L	○ ○	20x20	150	31.5	4	10	64x100	Z*GD**		
QFFD2020R/L10-74L	● ●	20x20	150	31.5	3	10	74x110	Z*FD**		
QFGD2020R/L10-90L	● ●	20x20	150	31.5	4	10	90x140	Z*GD**		
QFFD2020R/L10-100L	○ ●	20x20	150	31.5	3	10	100x150	Z*FD**		
QFGD2020R/L10-130L	● ○	20x20	150	31.5	4	10	130x230	Z*GD**		
QFGD2020R/L15-52L	○ ●	20x20	150	36.5	4	15	52x72	Z*GD**		
QFGD2020R/L15-64L	● ○	20x20	150	36.5	4	15	64x100	Z*GD**		
QFGD2020R/L15-90L	○ ○	20x20	150	36.5	4	15	90x140	Z*GD**		
QFGD2020R/L15-130L	○ ○	20x20	150	36.5	4	15	130x230	Z*GD**		
QFFD2525R/L10-48L	● ●	25x25	150	36.5	3	10	48x66	Z*FD**		
QFFD2525R/L10-60L	● ○	25x25	150	36.5	3	10	60x80	Z*FD**		
QFFD2525R/L10-74L	○ ○	25x25	150	36.5	3	10	74x110	Z*FD**		
QFFD2525R/L10-100L	○ ○	25x25	150	36.5	3	10	100x150	Z*FD**		
QFGD2525R/L13-52L	○ ●	25x25	150	39.5	4	13	52x72	Z*GD**		
QFKD2525R/L13-60L	○ ○	25x25	150	39.5	6	13	60x100	Z*KD**		
QFGD2525R/L13-64L	● ●	25x25	150	39.5	4	13	64x100	Z*GD**		
QFKD2525R/L13-88L	○ ○	25x25	150	39.5	6	13	88x180	Z*KD**		
QFGD2525R/L13-90L	● ○	25x25	150	39.5	4	13	90x140	Z*GD**		
QFGD2525R/L13-130L	○ ○	25x25	150	39.5	4	13	130x230	Z*GD**		
QFFD2525R/L17-48L	● ●	25x25	150	43.5	3	17	48x66	Z*FD**		
QFFD2525R/L17-60L	● ○	25x25	150	43.5	3	17	60x80	Z*FD**		
QFFD2525R/L17-74L	● ○	25x25	150	43.5	3	17	74x110	Z*FD**		
QFFD2525R/L17-100L	● ●	25x25	150	43.5	3	17	100x150	Z*FD**		
QFGD2525R/L22-52L	● ○	25x25	150	48.5	4	22	52x72	Z*GD**		
QFKD2525R/L22-60L	● ●	25x25	150	48.5	6	22	60x100	Z*KD**		
QFGD2525R/L22-64L	● ●	25x25	150	48.5	4	22	64x100	Z*GD**		
QFKD2525R/L22-88L	○ ●	25x25	150	48.5	6	22	88x180	Z*KD**		
QFGD2525R/L22-90L	● ●	25x25	150	48.5	4	22	90x140	Z*GD**		
QFGD2525R/L22-130L	● ●	25x25	150	48.5	4	22	130x230	Z*GD**		

Article	*	Stock		Dimensions [mm]						Inserts
		R	L	HxB	L	S	W	a _r _{max}	ØD (min-max)	
QFHD2525R/L13-58L	○ ○	25x25	150	39.5	5	13	58x96	Z*HD**		
QFHD2525R/L13-86L	● ○	25x25	150	39.5	5	13	86x140	Z*HD**		
QFHD2525R/L13-130L	○ ○	25x25	150	39.5	5	13	130x200	Z*HD**		
QFHD2525R/L13-185L	○ ○	25x25	150	39.5	5	13	185x400	Z*HD**		
QFHD2525R/L22-58L	● ○	25x25	150	48.5	5	22	58x96	Z*HD**		
QFHD2525R/L22-86L	● ○	25x25	150	48.5	5	22	86x140	Z*HD**		
QFHD2525R/L22-130L	● ○	25x25	150	48.5	5	22	130x200	Z*HD**		
QFHD2525R/L22-185L	● ○	25x25	150	48.5	5	22	185x400	Z*HD**		

● Ex stock ○ On demand

* With internal cooling

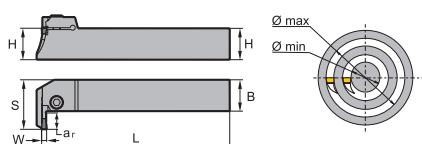
Spare parts					
	Insert	Z*FD**	Z*GD**	Z*HD**	Z*KD**
	H	20-25	20-25	20-25	20-25
	Screw	GB70-85-M6x20	GB70-85-M6x20	GB70-85-M6x20	GB70-85-M6x20
	Wrench	W50RL	W50RL	W50RL	W50RL



A351

Parting & grooving tool holder (axial)

QFHSDR/L



Right hand style

Article	Stock	Dimensions [mm]							Inserts
		R	L	HxB	L	S	W	ar _{max}	
QFHS2525R/L30-185L	●	○	25x25	150	56.5	5	30	185x400	Z*HS**

● Ex stock ○ On demand

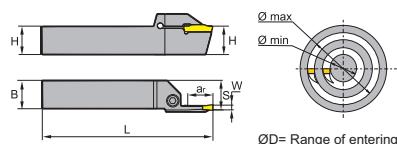
* With internal cooling

Spare parts		
	Insert	Z*HS**
	H	25
	Screw	GB70-85-M6x20
	Wrench	W50RL

Insert	
A356	

Parting & grooving tool holder (axial)

QF**R/L



Left hand style

Article	*	Stock		Dimensions [mm]					Inserts
		R	L	HxW	L	S	W	ØD (min-max)	
QFHS2525R/L30-185H		●	●	25x25	150	23.5	5	185-400	Z*HS**
QFKS2525R/L30-160H		●	●	25x25	150	23	6	160-400	Z*KS**

● Ex stock ○ On demand

* With internal cooling

Spare parts			
	Insert	Z*HS**	Z*KS**
	H	25	25
	Screw	GB70-85-M6x20	GB70-85-M6x20
	Wrench	W50RL	W50RL

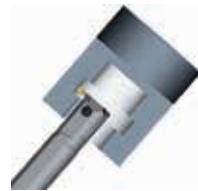
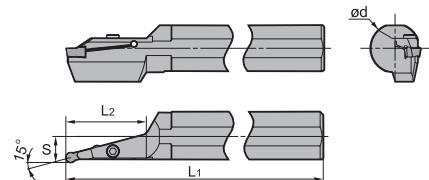
Insert



A356

Parting & grooving tool holder (external)

C40X-Q*DR/L



Right hand style

Article	Stock	Dimensions [mm]						Inserts
		R	L	ØD	ød	S	L ₁	L ₂
C40X-QKDR/L60-15A	● ○	160	40	20	320	60	Z*KD**	
C40X-QKDR/L75-15A	● ○	160	40	20	320	75	Z*KD**	
C40X-QLDR/L65-15A	○ ○	160	40	21	320	65	Z*LD**	
C40X-QLDR/L80-15A	○ ○	160	40	21	320	80	Z*LD**	

● Ex stock ○ On demand

* With internal cooling

Spare parts			
	Insert	Z*KD**	Z*LD**
	H	32-40	32-40
	Screw	GB70-85-M6x20	GB70-85-M6x20
	Wrench	WH50L	WH50L

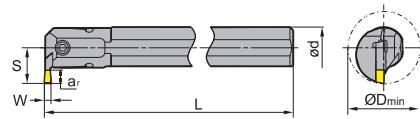
Insert



A364

Parting & grooving tool holder (internal)

C***-Q*DR/L



Right hand style

Article	Stock	Dimensions [mm]							Inserts
		R	L	ØDmin	ød	L	S	W	
C16M-QBDR/L04-20	● ●	20	16	150	12	2	4	Z*BD**	
C20Q-QEDR/L05-27	● ●	27	20	180	15,2	2,5	5	Z*ED**	
C25R-QEDR/L07-33	● ●	33	25	200	20,3	2,5	7	Z*ED**	
C32S-QEDR/L09-42	● ●	42	32	250	25,3	2,5	9	Z*ED**	
C20Q-QFDR/L05-27	● ●	27	20	0	15,2	3	5	Z*FD**	
C25R-QFDR/L07-33	● ●	33	25	200	20,3	3	7	Z*FD**	
C32S-QFDR/L09-42	● ●	42	32	250	25,3	3	9	Z*FD**	
C25R-QGDR/L08-35	● ●	35	25	200	21,5	4	8	Z*GD**	
C32S-QGDR/L11-44	● ●	44	32	250	27,5	4	11	Z*GD**	
C40T-QGDR/L13-54	● ●	5	40	300	33,5	4	13	Z*GD**	
C25R-QHDR/L08-35	● ●	35	25	200	21,5	5	8	Z*HD**	
C32S-QHDR/L11-44	● ●	44	32	250	27,5	5	11	Z*HD**	
C40T-QHDR/L13-54	● ●	54	40	300	33,5	5	13	Z*HD**	
C25R-QKDR/L08-35	● ●	35	25	200	21,5	6	8	Z*KD**	
C32S-QKDR/L11-44	● ●	44	32	250	27,5	6	11	Z*KD**	
C40T-QKDR/L13-54	● ●	54	40	300	33,5	6	13	Z*KD**	

● Ex stock ○ On demand

✳ With internal cooling

Spare parts													
	Insert	Z*ED**	Z*ED**	Z*ED**	Z*FD**	Z*FD**	Z*FD**	Z*GD**	Z*GD**	Z*HD**	Z*HD**	Z*KD**	Z*KD**
H		20	25	32-40	20	25	32-40	25	32-40	25	32-40	25	32-40
	Screw	GB70-85-M4x12	GB70-85-M5x16	GB70-85-M6x20	GB70-85-M4x12	GB70-85-M5x16	GB70-85-M6x20	GB70-85-M5x16	GB70-85-M6x20	GB70-85-M5x16	GB70-85-M6x20	GB70-85-M5x16	GB70-85-M6x20
	Wrench	WH30L	WH40L	WH50L	WH30L	WH40L	WH50L	WH40L	WH50L	WH40L	WH50L	WH40L	WH50L

Insert



A351

System code A373

Grade selection A348

Technical info A445

Cutting data A400

Parting & grooving

System code – tool holders – QC series

A

Turning

GQC R 20 20 K 22 – 15

1

2

3

4

5

6

7

Series

1

Type	
Code	Description
R	Right
L	Left

2

Height [mm]	
Code	Description
16	16
20	20
25	25

3

Width [mm]	
Code	Description
16	16
20	20
25	25

4

Length [mm]	
Code	Description
K	125
M	150

5

Cutting edge length [mm]	
Code	Description
	I.C
11	6.35
16	9.252
22	12.70

6

Cutting width range [mm]	
Code	Insert size
15	0.5≤S<1.8(QC16***)
25	1.8≤S<3.0(QC16***)
35	–

7

Boring bars – QC series

S 20 K – QC 16 15 R 25

1

2

3

4

5

6

7

8

Shank type	
Code	Material
S	Steel shank
C	Solid carbide shank
A	Solid carbide shank (I.C)

1

Diameter [mm]	
Code	Description
16	16
20	20
25	25

2

Length [mm]	
Code	Description
H	100
K	125
M	150

Series

4

Cutting edge length [mm]	
Code	Description
	I.C
11	6.35
16	9.252
22	12.70

5

Cutting width range [mm]	
Code	Insert size
15	0.5≤S<1.8(QC16***)
25	1.8≤S<3.0(QC16***)
35	–

6

Cutting direction	
Code	Description
R	Right
L	Left

7

Starting diameter [mm]			
Code	Ø	Code	Ø
16	16	25	25
20	20	35	35

8

A

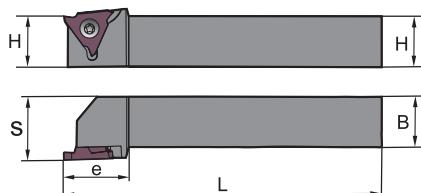
D

E

Index

Grooving (external)

GQC**R/L



Right hand style

Article	Stock	Dimensions [mm]							Inserts
		R	L	H	L	S	e	B	
GQCR/L1616K16-15	● ●	16	125	21	25.5	16	0.5-1.80	QC16R/L 050-180	
GQCR/L1616K16-25	● ●	16	125	21	25.5	16	1.8-3.0	QC16R/L 050-300	
GQCR/L2020K16-15	● ●	20	125	25	25.5	20	0.5-1.80	QC16R/L 050-180	
GQCR/L2020K16-25	● ●	20	125	25	25.5	20	1.8-3.0	QC16R/L 050-300	
GQCR/L2525M16-15	● ●	25	150	30	25.5	25	0.5-1.80	QC16R/L 050-180	
GQCR/L2525M16-25	● ●	25	150	30	25.5	25	1.8-3.0	QC16R/L 050-300	
GQCR/L2020K22-15	● ●	20	125	25	25.5	20	1.0-2.3	QC22R/L 100-230	
GQCR/L2020K22-25	● ●	20	125	25	25.5	20	2.3-3.3	QC22R/L 100-330	
GQCR/L2020K22-35	● ●	20	125	25	25.5	20	3.3-4.8	QC22R/L 100-480	
GQCR/L2525M22-15	● ●	25	150	30	25.5	25	1.0-2.3	QC22R/L 100-230	
GQCR/L2525M22-25	● ●	25	150	30	25.5	25	2.3-3.3	QC22R/L 100-330	
GQCR/L2525M22-35	● ●	25	150	30	25.5	25	3.3-4.8	QC22R/L 100-480	

● Ex stock ○ On demand

* With internal cooling

Spare parts

	Insert	QC16R/L 050-180	QC22R/L 100-230
		H 16-32	16-32
	Screw	I60M3.5x10	I60M5x13
	Wrench (shim)	WT15IP	WT20IP

Insert



Medium Cut

A367

A

Turning

B

Milling

C

Drilling

D

Technical Information

E

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Parting & grooving

Tool holders – QC series

A

Turning

B

Milling

C

Drilling

D

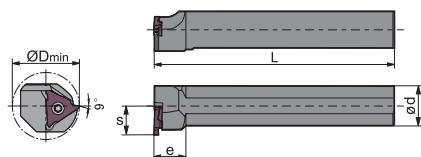
Technical Information

E

Index

S_QCR/L

S*K-QC**R/L



Right hand style

Article	Stock	Dimensions [mm]							Inserts
		R	L	ØDmin	ød	L	S	e	
S16H-QC1115R/L20	● ●	21	16	100	11.5	12	0.5-1.80	QC11R/L 050-180	
S16H-QC1125R/L20	● ●	21	16	100	11.5	12	1.8-3.0	QC11R/L 050-180	
S20K-QC1115R/L16	● ●	16	20	125	11.1	40	0.5-1.80	QC11R/L 050-180	
S20K-QC1125R/L16	● ●	16	20	125	11.1	40	1.8-3.0	QC11R/L 050-180	
S20M-QC1615R/L25	● ●	26	20	150	12.5	15	0.5-1.80	QC16R/L050-180	
S20M-QC1625R/L25	● ●	26	20	150	12.5	15	1.8-3.0	QC16R/L050-180	
S25M-QC2215R/L35	● ●	35	25	150	18.2	15	1.0-2.3	QC22R/L100-230	
S25M-QC2225R/L35	● ●	35	25	150	18.2	20	2.3-3.3	QC22R/L100-230	
S25M-QC2235R/L35	● ●	35	25	150	18.2	20	3.3-4.8	QC22R/L100-230	

● Ex stock ○ On demand

*With internal cooling

Spare parts					
	Insert	QC11R/L 050-180	QC16R/L050-180	QC16R/L050-180	QC22R/L100-230
	ød	16-20	20	25	25
	Screw	I60M2.5×6.5	I60M3.5×10	I60M5×13	I60M5×13
	Wrench (shim)	WT07IP	WT15IP	WT20IP	WT20IP

Insert



Medium Cut

A367

System code A396

Grade selection A348

Technical info A445

Cutting data A400

Notes



A

Turning

B

Milling

C

Drilling

D

Technical Information

E

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Parting & grooving Recommended cutting data

A

Turning

B

Milling

C

Drilling

D

Technical Information

E

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Parting & grooving inserts

Material group	Composition / structure / heat treatment	Brinell hardness HB	Machining group	Starting values for cutting speed v_c [m/min]			
				HC (CVD)		HC (PVD)	
				YBC252	YBG105	YB9320	
Unalloyed steel	ca. 0,15 % C	annealed	125	1	190	200	190
	ca. 0,45 % C	annealed	190	2	175	180	175
	ca. 0,45 % C	tempered	250	3	145	150	145
	ca. 0,75 % C	annealed	270	4	140	145	140
	ca. 0,75 % C	tempered	300	5	135	140	135
Low-alloyed steel		annealed	180	6	170	180	170
		tempered	275	7	125	130	125
		tempered	300	8	115	120	115
		tempered	350	9	105	110	105
High-alloyed steel and high-alloyed tool steel		annealed	200	10	125	130	125
		hardened and tempered	325	11	95	100	95
Stainless steel	ferritic/martensitic	annealed	200	12	165	170	165
	martensitic	tempered	240	13	135	140	135
	austenitic	quench hardened	180	14	155	160	155
	austenitic-ferritic		230	15	135	140	135
Grey cast iron	perlitic/ferritic		180	16	240	250	240
	perlitic (martensitic)		260	17	185	190	185
Cast iron with spheroidal graphite	ferritic		160	18	220	230	220
	perlitic		250	19	165	170	165
Malleable cast iron	ferritic		130	20	175	180	175
	perlitic		230	21	165	170	165
Aluminium wrought alloys	cannot be hardened		60	22			
	hardenable	hardened	100	23			
Cast aluminium alloys	≤ 12% Si, cannot be hardened		75	24			
	≤ 12% Si, hardenable	hardened	90	25			
	> 12% Si, cannot be hardened		130	26			
Copper and copper alloys (bronze/brass)	machining steel, PB>1%		110	27			
	CuZn, CuSnZn		90	28			
	CuSn, Pb-free copper, electrolytic copper		100	29			
Heat-resistant alloys	Fe-based alloys	annealed	200	30		100	95
		hardened	280	31		50	50
	Ni or Co base	annealed	250	32		80	80
		hardened	350	33		70	70
		cast	320	34		70	70
Titanium alloys	pure titanium		R _m 400	35		150	145
	α and β alloys	hardened	R _m 1050	36		50	50
Hardened steel		hardened and tempered	55 HRC	37			
		hardened and tempered	60 HRC	38			
Hard cast iron		cast	400	39			
Hardened cast iron		hardened and tempered	55 HRC	40			
Non-metallic materials	Thermoplasts			41			
	Thermosetting plastics			42			
	Plastic, glass-fibre reinforced GFRP			43			
	Plastic, carbon fibre reinforced CFRP			44			
	Graphite			45			
	Wood			46			

Note: The given cutting values are guide values, which were determined under ideal conditions.

The values have to be adapted in individual cases.

For examples of material for cutting tool groups view page D22.

HC Coated carbide

HW Uncoated carbide, main component (WC)

