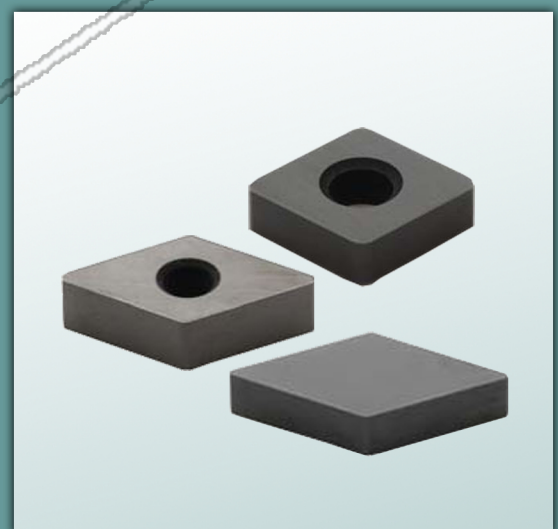
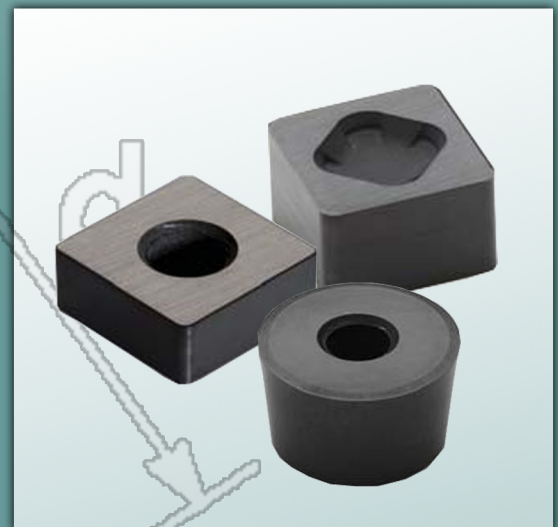
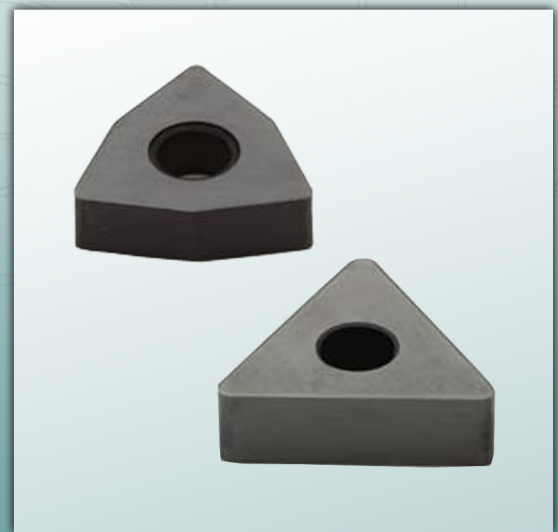
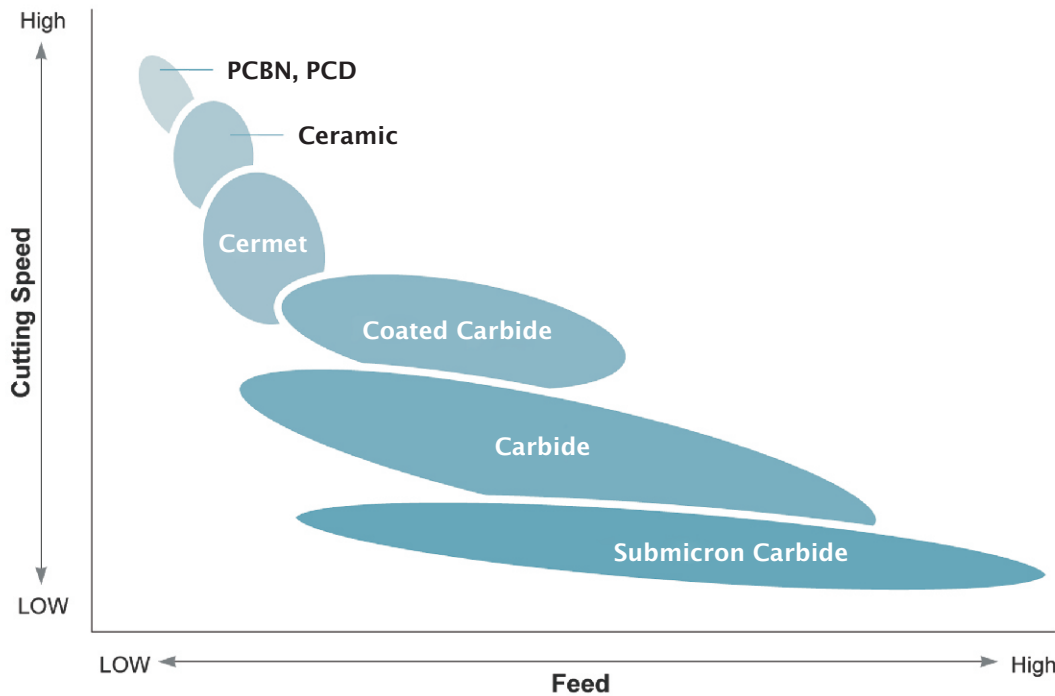


brisloy

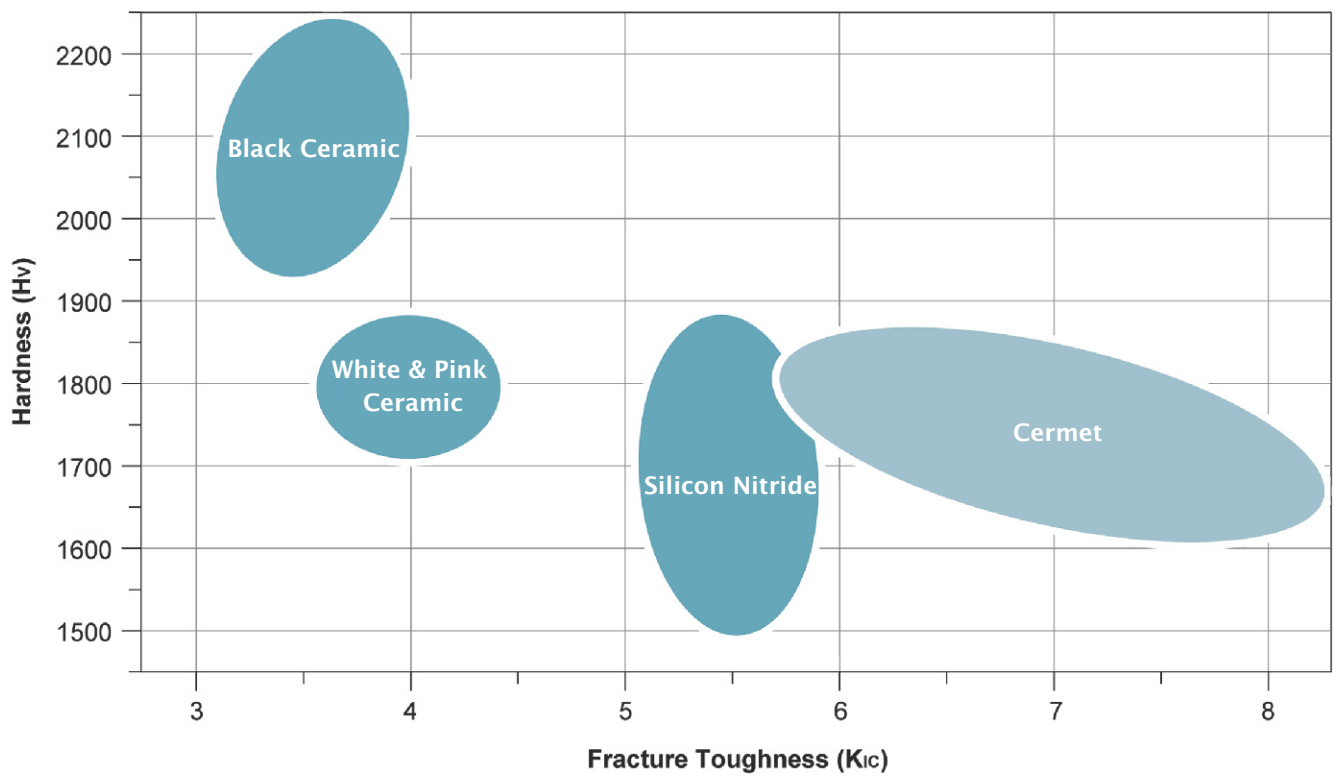


CERAMIC

Application Range



Mechanical Properties



Ceramic Grades

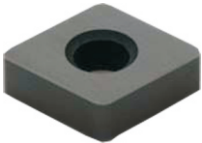
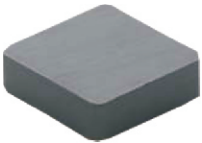
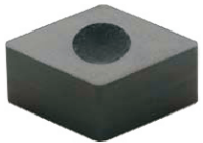
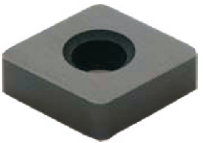
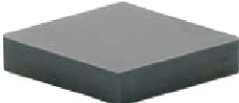
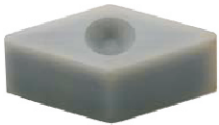
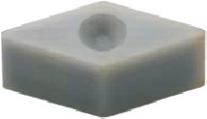
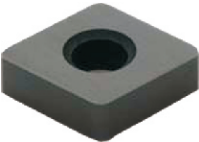
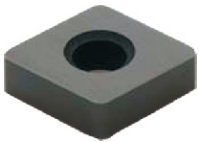
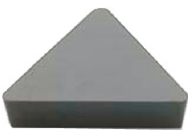
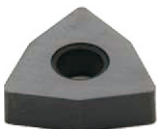
- WCR 100 Standard black ceramic grade is a composite with Alumina Matrix containing Titanium Carbide with excellent wear, crater and strength characteristics.
- WCR 100C Coated Standard black ceramic grade is a composite with Alumina Matrix containing Titanium Carbide with excellent wear, crater and strength characteristics.
- WCR 200 Black ceramic grade for cutting high hardness metals with Rc 55 and above, chilled cast iron and powdered metals. This insert has replaced some grinding operations in hardened steel (Rc 60-62).
- WCR 200C Coated Black ceramic grade for cutting high hardness metals with Rc 55 and above, chilled cast iron and powdered metals. This insert has replaced some grinding operations in hardened steel (Rc 60-62).

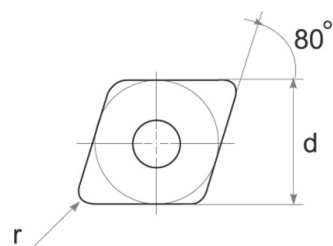
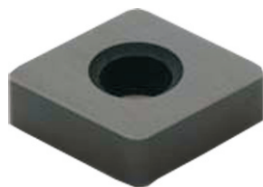
Silicon Nitride Grades

- WCR 300 A high speed, low cost silicon nitride grade with excellent wear resistance.
- WCR 300C Coated A high speed, low cost silicon nitride grade with excellent wear resistance.
- WCR 400 Best overall grade with very good wear resistance & excellent shock resistance. Excellent for hard materials & interrupted cuts at high speeds.
- WCR 500 Silicon nitride grade for cutting exotic aerospace metals such as Inconel, Waspaloy, Hastelloy, Renee, etc. For roughing and finishing. A cost-effective alternative to the "whiskered" ceramic.

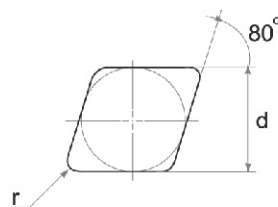
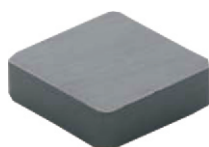
Application Index

CERAMIC

CNGA  Page 1	CNGN  Page 1	CNGX  Page 2	CNMA  Page 2
CNVX  Page 2	DNGA  Page 3	DNGN  Page 3	DNGX  Page 4
DNMX  Page 4	RCGX  Page 4	RNGA  Page 5	RNGN  Page 5
SNGA  Page 6	SNGN  Page 7	SNGX  Page 8	SNMA  Page 8
TNGA  Page 9	TNGN  Page 10	TPGN  Page 11	VNGA  Page 11
WNGA  Page 12	RCMA  Page 12		

CNGA


ISO Description	dimensions (mm)				WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	r	D								
CNGA 120404	12.70	4.76	0.4	5.16	●		●		●		●	●
CNGA 120408	12.70	4.76	0.8	5.16	●	●	●	●	●		●	●
CNGA 120412	12.70	4.76	1.2	5.16	●		●		●		●	●
CNGA 120416	12.70	4.76	1.6	5.16	●	●	●	●	●		●	●
CNGA 160404	15.87	4.76	0.4	5.16	●		●		●		●	●
CNGA 160408	15.87	4.76	0.8	5.16	●		●		●		●	●
CNGA 160412	15.87	4.76	1.2	5.16	●		●		●		●	●
CNGA 160416	15.87	4.76	1.6	5.16	●		●		●		●	●
CNGA 190604	19.05	6.35	0.4	6.35	●		●		●		●	●
CNGA 190608	19.05	6.35	0.8	6.35	●		●		●		●	●
CNGA 190612	19.05	6.35	1.2	6.35	●		●		●		●	●
CNGA 190616	19.05	6.35	1.6	6.35	●		●		●		●	●

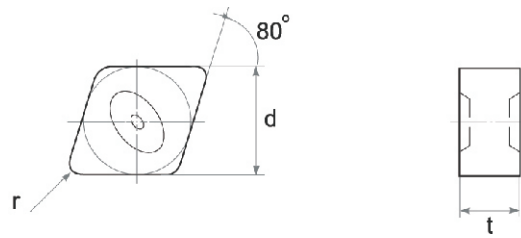
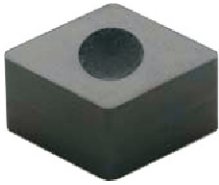
CNGN


ISO Description	dimensions (mm)			WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	r								
CNGN 120404	12.70	4.76	0.4	●		●	●	●		●	●
CNGN 120408	12.70	4.76	0.8	●		●	●	●	●	●	●
CNGN 120412	12.70	4.76	1.2	●		●	●	●	●	●	●
CNGN 120416	12.70	4.76	1.6	●		●		●		●	●
CNGN 120704	12.70	7.94	0.4	●		●		●		●	●
CNGN 120708	12.70	7.94	0.8	●		●	●	●	●	●	●
CNGN 120712	12.70	7.94	1.2	●		●	●	●	●	●	●
CNGN 120716	12.70	7.94	1.6	●		●		●		●	●
CNGN 160604	15.87	6.35	0.4	●		●		●		●	●
CNGN 160608	15.87	6.35	0.8	●		●		●		●	●
CNGN 160612	15.87	6.35	1.2	●		●		●		●	●
CNGN 160616	15.87	6.35	1.6	●		●		●		●	●
CNGN 190604	19.05	6.35	0.4	●		●		●		●	●
CNGN 190608	19.05	6.35	0.8	●		●		●		●	●
CNGN 190612	19.05	6.35	1.2	●		●		●		●	●
CNGN 190616	19.05	6.35	1.6	●		●		●		●	●
CNGN 190704	19.05	7.94	0.4	●		●		●		●	●
CNGN 190708	19.05	7.94	0.8	●		●		●		●	●
CNGN 190712	19.05	7.94	1.2	●		●		●		●	●
CNGN 190716	19.05	7.94	1.6	●		●		●		●	●

Turning Insert

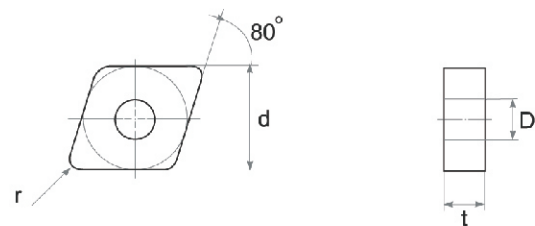
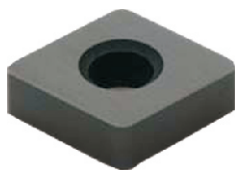
CERAMIC

CNGX



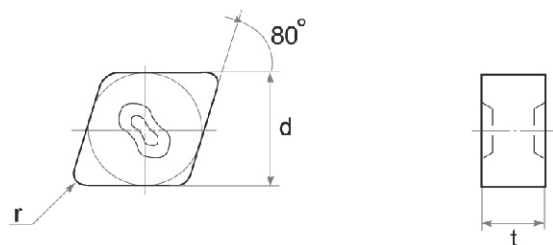
ISO Description	dimensions (mm)			WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	r								
CNGX 120708	12.70	7.94	0.8					●		●	●
CNGX 120712	12.70	7.94	1.2					●		●	●
CNGX 120716	12.70	7.94	1.6					●		●	●
CNGX 160708	15.87	7.94	0.8					●		●	●
CNGX 160712	15.87	7.94	1.2					●		●	●
CNGX 160716	15.87	7.94	1.6					●		●	●

CNMA



ISO Description	dimensions (mm)				WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	r	D								
CNMA 120408	12.70	4.76	0.8	5.16					●		●	●
CNMA 120412	12.70	4.76	1.2	5.16					●		●	●
CNMA 120416	12.70	4.76	1.6	5.16					●		●	●
CNMA 160616	15.87	6.35	1.6	6.35					●		●	●

CNVX

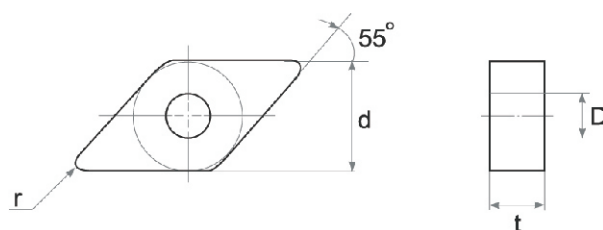


ISO Description	dimensions (mm)			WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	r								
CNVX 150404	14.76	4.76	0.4								
CNVX 150408	14.76	4.76	0.8								
CNVX 150412	14.76	4.76	1.2								

CERAMIC

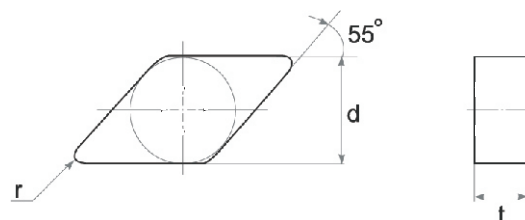
Turning Insert

DNGA



ISO Description	dimensions (mm)				WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	r	D								
DNGA 150404	12.70	4.76	0.4	5.16	●		●		●		●	●
DNGA 150408	12.70	4.76	0.8	5.16	●	●	●		●		●	●
DNGA 150412	12.70	4.76	1.2	5.16	●		●		●		●	●
DNGA 150416	12.70	4.76	1.6	5.16	●		●		●		●	●
DNGA 150604	12.70	6.35	0.4	5.16	●		●		●		●	●
DNGA 150608	12.70	6.35	0.8	5.16	●		●		●		●	●
DNGA 150612	12.70	6.35	1.2	5.16	●		●		●		●	●
DNGA 150616	12.70	6.35	1.6	5.16	●		●		●		●	●
DNGA 190604	15.87	6.35	0.4	6.35	●		●		●		●	●
DNGA 190608	15.87	6.35	0.8	6.35	●		●		●		●	●
DNGA 190612	15.87	6.35	1.2	6.35	●		●		●		●	●
DNGA 190616	15.87	6.35	1.6	6.35	●		●		●		●	●

DNGN

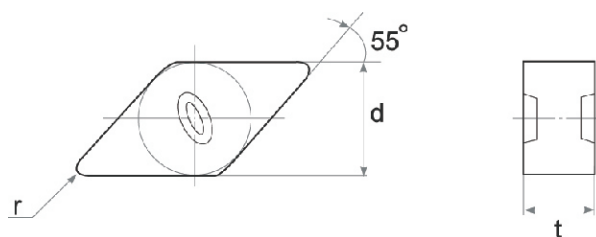
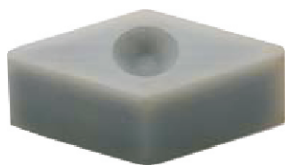


ISO Description	dimensions (mm)			WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	r								
DNGN 150404	12.70	4.76	0.4	●		●		●		●	●
DNGN 150408	12.70	4.76	0.8	●		●		●		●	●
DNGN 150412	12.70	4.76	1.2	●		●		●		●	●
DNGN 150416	12.70	4.76	1.6	●		●		●		●	●
DNGN 150604	12.70	6.35	0.4	●		●		●		●	●
DNGN 150608	12.70	6.35	0.8	●		●		●		●	●
DNGN 150612	12.70	6.35	1.2	●		●		●		●	●
DNGN 150616	12.70	6.35	1.6	●		●		●		●	●
DNGN 190604	15.87	6.35	0.4	●		●		●		●	●
DNGN 190608	15.87	6.35	0.8	●		●		●		●	●
DNGN 190612	15.87	6.35	1.2	●		●		●		●	●
DNGN 190616	15.87	6.35	1.6	●		●		●		●	●

Turning Insert

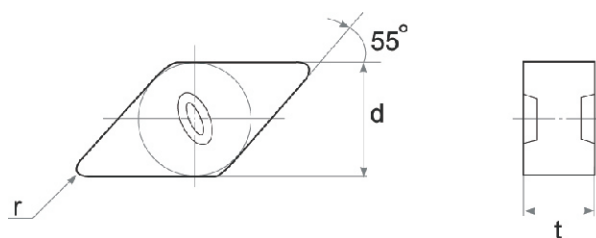
CERAMIC

DNGX



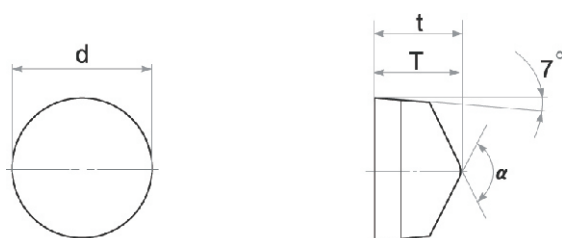
ISO Description	dimensions (mm)			WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	r								
DNGX 120708	10.00	7.94	0.8					●		●	●
DNGX 120712	10.00	7.94	1.2					●		●	●
DNGX 120716	10.00	7.94	1.6					●		●	●
DNGX 150708	12.70	7.94	0.8					●		●	●
DNGX 150712	12.70	7.94	1.2					●		●	●
DNGX 150716	12.70	7.94	1.6					●		●	●

DNMX

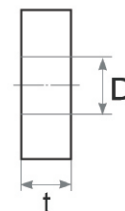
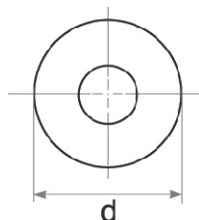


ISO Description	dimensions (mm)			WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	r								
DNMX 150604	10.00	7.94	0.4					●		●	●
DNMX 150608	10.00	7.94	0.8					●		●	●
DNMX 150612	10.00	7.94	1.2					●		●	●
DNMX 150616	10.00	7.94	1.6					●		●	●

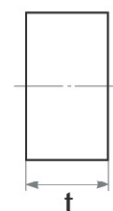
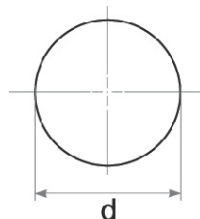
RCGX



ISO Description	dimensions (mm)				WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	T	a								
RCGX 060400	6.35	4.76	4.57	120°	●		●					
RCGX 060600	6.35	6.35	6.20	120°	●		●					
RCGX 060700	6.35	7.94	7.70	120°	●		●		●		●	●
RCGX 090700	9.52	7.94	7.70	120°	●		●		●		●	●
RCGX 120700	12.70	7.94	7.70	120°	●		●		●		●	●
RCGX 151000	15.87	10.0	9.77	120°	●		●		●		●	●
RCGX 191000	19.05	10.0	9.77	120°	●		●		●		●	●
RCGX 251200	25.40	12.0	11.85	140°	●		●		●		●	●

RNGA


ISO Description	dimensions (mm)			WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	D								
RNGA 120400	12.70	4.76	5.16	●		●		●		●	●
RNGA 120700	12.70	7.94	5.16	●		●		●		●	●

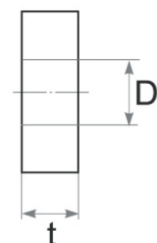
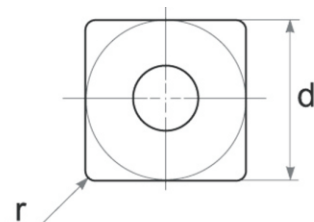
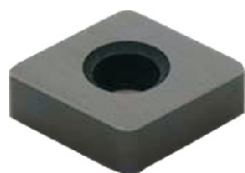
RNGN


ISO Description	dimensions (mm)		WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t								
RNGN 060200	6.4	2.35	●		●		●		●	●
RNGN 060400	6.4	4.76	●		●		●		●	●
RNGN 080700	8.5	7.94	●		●		●		●	●
RNGN 090400	9.5	4.76	●		●		●		●	●
RNGN 100700	10.6	7.94	●		●		●		●	●
RNGN 120300	12.7	3.72	●		●		●		●	●
RNGN 120400	12.7	4.76	●		●	●	●		●	●
RNGN 120600	12.7	6.89	●		●		●		●	●
RNGN 120700	12.7	7.94	●		●	●	●		●	●
RNGN 150700	15.8	7.94	●		●		●		●	●
RNGN 190600	19.05	6.89	●		●		●		●	●
RNGN 190700	19.05	7.94	●		●		●		●	●
RNGN 250900	25.4	9.82	●		●		●		●	●

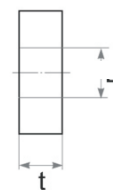
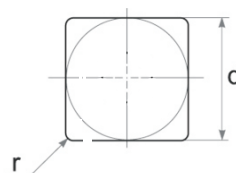
Turning Insert

CERAMIC

SNGA



ISO Description	dimensions (mm)				WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	r	D								
SNGA 090304	9.52	3.18	0.4	3.81	●		●		●		●	●
SNGA 090308	9.52	3.18	0.8	3.81	●		●		●		●	●
SNGA 090312	9.52	3.18	1.2	3.81	●		●		●		●	●
SNGA 090316	9.52	3.18	1.6	3.81	●		●		●		●	●
SNGA 090404	9.52	4.76	0.4	5.16	●		●		●		●	●
SNGA 090408	9.52	4.76	0.8	5.16	●		●		●		●	●
SNGA 090412	9.52	4.76	1.2	5.16	●		●		●		●	●
SNGA 090416	9.52	4.76	1.6	5.16	●		●		●		●	●
SNGA 120404	12.7	4.76	0.4	5.16	●		●		●		●	●
SNGA 120408	12.7	4.76	0.8	5.16	●		●		●	●	●	●
SNGA 120412	12.7	4.76	1.2	5.16	●		●		●	●	●	●
SNGA 120416	12.7	4.76	1.6	5.16	●		●		●		●	●
SNGA 120704	12.7	7.94	0.4	5.16	●		●		●		●	●
SNGA 120708	12.7	7.94	0.8	5.16	●		●		●		●	●
SNGA 120712	12.7	7.94	1.2	5.16	●		●		●		●	●
SNGA 120716	12.7	7.94	1.6	5.16	●		●		●		●	●
SNGA 150604	15.88	6.35	0.4	5.16	●		●		●		●	●
SNGA 150608	15.88	6.35	0.8	5.16	●		●		●		●	●
SNGA 150612	15.88	6.35	1.2	5.16	●		●		●		●	●
SNGA 150616	15.88	6.35	1.6	5.16	●		●		●		●	●
SNGA 190604	19.05	6.35	0.4	5.16	●		●		●		●	●
SNGA 190608	19.05	6.35	0.8	5.16	●		●		●		●	●
SNGA 190612	19.05	6.35	1.2	5.16	●		●		●		●	●
SNGA 190616	19.05	6.35	1.6	5.16	●		●		●		●	●

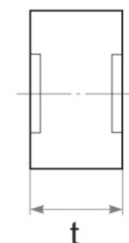
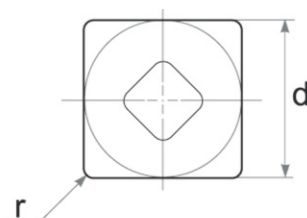
SNGN


ISO Description	dimensions (mm)			WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	r								
SNGN 090304	9.52	3.18	0.4	●		●		●		●	●
SNGN 090308	9.52	3.18	0.8	●		●		●		●	●
SNGN 090312	9.52	3.18	1.2	●		●		●		●	●
SNGN 090316	9.52	3.18	1.6	●		●		●		●	●
SNGN 090404	9.52	4.76	0.4	●		●		●		●	●
SNGN 090408	9.52	4.76	0.8	●		●		●		●	●
SNGN 090412	9.52	4.76	1.2	●		●		●		●	●
SNGN 090416	9.52	3.18	1.6	●		●		●		●	●
SNGN 120404	12.7	4.76	0.4	●		●		●		●	●
SNGN 120408	12.7	4.76	0.8	●		●	●	●	●	●	●
SNGN 120412	12.7	4.76	1.2	●		●	●	●	●	●	●
SNGN 120416	12.7	4.76	1.6	●		●	●	●		●	●
SNGN 120424	12.7	4.76	2.4	●		●		●		●	●
SNGN 120432	12.7	4.76	3.2	●		●		●		●	●
SNGN 120704	12.7	7.94	0.4	●		●	●	●		●	●
SNGN 120708	12.7	7.94	0.8	●		●	●	●		●	●
SNGN 120712	12.7	7.94	1.2	●		●	●	●		●	●
SNGN 120716	12.7	7.94	1.6	●		●		●		●	●
SNGN 150604	15.88	6.35	0.8	●		●		●		●	●
SNGN 150608	15.88	6.35	1.2	●		●		●		●	●
SNGN 150612	15.88	6.35	1.6	●		●		●		●	●
SNGN 150616	15.88	6.35	1.6	●		●		●		●	●
SNGN 150704	15.88	7.94	0.4	●		●		●		●	●
SNGN 150708	15.88	7.94	0.8	●		●		●		●	●
SNGN 150712	15.88	7.94	1.2	●		●		●		●	●
SNGN 150716	15.88	7.94	1.6	●		●		●		●	●
SNGN 190404	19.05	4.76	0.4	●		●		●		●	●
SNGN 190408	19.05	4.76	0.8	●		●		●		●	●
SNGN 190412	19.05	4.76	1.2	●		●		●		●	●
SNGN 190416	19.05	6.35	1.6	●		●		●		●	●
SNGN 190604	19.05	6.35	0.4	●		●		●		●	●
SNGN 190608	19.05	6.35	0.8	●		●		●		●	●
SNGN 190612	19.05	6.35	1.2	●		●		●		●	●
SNGN 190616	19.05	6.35	1.6	●		●		●		●	●
SNGN 190704	19.05	7.94	0.4	●		●		●		●	●
SNGN 190708	19.05	7.94	0.8	●		●		●		●	●
SNGN 190712	19.05	7.94	1.2	●		●		●		●	●
SNGN 190716	19.05	7.94	1.6	●		●		●		●	●
SNGN 250704	25.4	7.94	0.4	●		●		●		●	●
SNGN 250708	25.4	7.94	0.8	●		●		●		●	●
SNGN 250712	25.4	7.94	1.2	●		●		●		●	●
SNGN 250716	25.4	7.94	1.6	●		●		●		●	●
SNGN 250904	25.4	9.89	0.4	●		●		●		●	●
SNGN 250908	25.4	9.89	0.8	●		●		●		●	●
SNGN 250912	25.4	9.89	1.2	●		●		●		●	●
SNGN 250916	25.4	9.89	1.6	●		●		●		●	●

Turning Insert

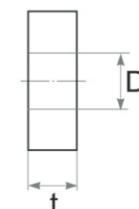
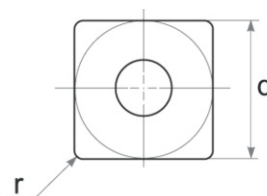
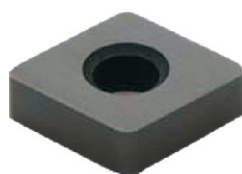
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SNGX

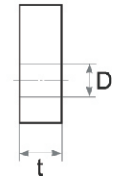
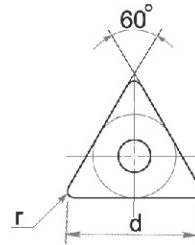


ISO Description	dimensions (mm)			WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	r								
SNGX 120708	12.70	7.94	0.8					●		●	●
SNGX 120712	12.70	7.94	1.2					●		●	●
SNGX 120716	12.70	7.94	1.6					●		●	●
SNGX 150708	15.87	7.94	0.8					●		●	●
SNGX 150712	15.87	7.94	1.2					●		●	●
SNGX 150716	15.87	7.94	1.6					●		●	●

SNMA



ISO Description	dimensions (mm)				WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	r	D								
SNMA 120404	12.70	4.76	0.4	5.16					●		●	●
SNMA 120408	12.70	4.76	0.8	5.16					●		●	●
SNMA 120412	12.70	4.76	1.2	5.16					●		●	●
SNMA 120416	12.70	4.76	1.6	5.16					●		●	●

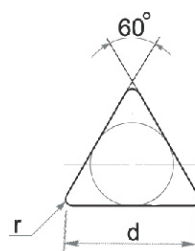
TNGA


ISO Description	dimensions (mm)				WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	r	D								
TNGA 160304	16.5	3.18	0.4	3.81	●		●		●		●	●
TNGA 160308	16.5	3.18	0.8	3.81	●		●		●		●	●
TNGA 160312	16.5	3.18	1.2	3.81	●		●		●		●	●
TNGA 160316	16.5	3.18	1.6	3.81	●		●		●		●	●
TNGA 160404	16.5	4.76	0.4	3.81	●		●		●		●	●
TNGA 160408	16.5	4.76	0.8	3.81	●	●	●	●	●	●	●	●
TNGA 160412	16.5	4.76	1.2	3.81	●		●		●		●	●
TNGA 160416	16.5	4.76	1.6	3.81	●		●		●		●	●
TNGA 220404	22.0	4.76	0.4	5.16	●		●		●		●	●
TNGA 220408	22.0	4.76	0.8	5.16	●	●	●		●		●	●
TNGA 220412	22.0	4.76	1.2	5.16	●		●		●		●	●
TNGA 220416	22.0	4.76	1.6	5.16	●	●	●		●		●	●
TNGA 270604	27.4	6.35	0.4	6.35	●		●		●		●	●
TNGA 270608	27.4	6.35	0.8	6.35	●		●		●		●	●
TNGA 270612	27.4	6.35	1.2	6.35	●		●		●		●	●
TNGA 270616	27.4	6.35	1.6	6.35	●		●		●		●	●

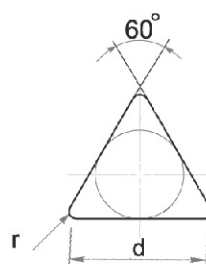
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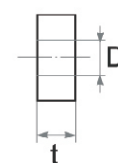
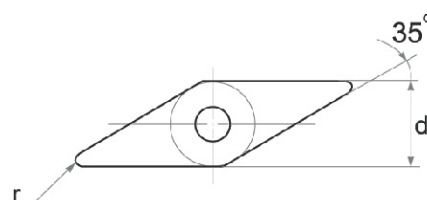
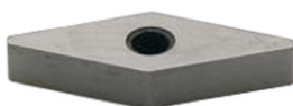
TNGN



ISO Description	dimensions (mm)			WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	r								
TNGN 110304	11.0	3.18	0.4	●		●		●		●	●
TNGN 110308	11.0	3.18	0.8	●		●		●		●	●
TNGN 110312	11.0	3.18	1.2	●		●		●		●	●
TNGN 110316	11.0	3.18	1.6	●		●		●		●	●
TNGN 160304	16.5	3.18	0.4	●		●		●		●	●
TNGN 160308	16.5	3.18	0.8	●		●		●		●	●
TNGN 160312	16.5	3.18	1.2	●		●		●		●	●
TNGN 160316	16.5	3.18	1.6	●		●		●		●	●
TNGN 160404	16.5	4.76	0.4	●		●	●	●		●	●
TNGN 160408	16.5	4.76	0.8	●		●	●	●	●	●	●
TNGN 160412	16.5	4.76	1.2	●		●	●	●		●	●
TNGN 160416	16.5	4.76	1.6	●		●		●		●	●
TNGN 160704	16.5	7.94	0.4	●		●		●		●	●
TNGN 160708	16.5	7.94	0.8	●		●		●		●	●
TNGN 160712	16.5	7.94	1.2	●		●		●		●	●
TNGN 160716	16.5	7.94	1.6	●		●		●		●	●
TNGN 220404	22.0	4.76	0.4	●		●		●		●	●
TNGN 220408	22.0	4.76	0.8	●		●		●		●	●
TNGN 220412	22.0	4.76	1.2	●		●		●		●	●
TNGN 220416	22.0	4.76	1.6	●		●		●		●	●
TNGN 270604	27.4	6.35	0.4	●		●		●		●	●
TNGN 270608	27.4	6.35	0.8	●		●		●		●	●
TNGN 270612	27.4	6.35	1.2	●		●		●		●	●
TNGN 270616	27.4	6.35	1.6	●		●		●		●	●

TPGN


ISO Description	dimensions (mm)			WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	r								
TPGN 110304	11.0	3.18	0.4	●		●		●		●	●
TPGN 110308	11.0	3.18	0.8	●		●		●		●	●
TPGN 110312	11.0	3.18	1.2	●		●		●		●	●
TPGN 110316	11.0	3.18	1.6	●		●		●		●	●
TPGN 160304	16.5	3.18	0.4	●		●		●		●	●
TPGN 160308	16.5	3.18	0.8	●		●		●		●	●
TPGN 160312	16.5	3.18	1.2	●		●		●		●	●
TPGN 160316	16.5	3.18	1.6	●		●		●		●	●
TPGN 220404	22.0	4.76	0.4	●		●		●		●	●
TPGN 220408	22.0	4.76	0.8	●		●		●		●	●
TPGN 220412	22.0	4.76	1.2	●		●		●		●	●
TPGN 220416	22.0	4.76	1.6	●		●		●		●	●

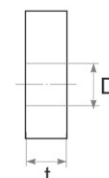
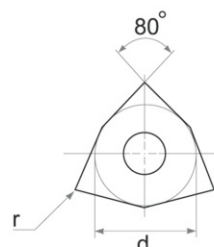
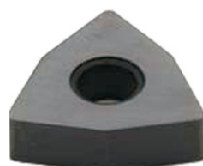
VNGA


ISO Description	dimensions (mm)				WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	r	D								
VNGA 160404	9.52	4.76	0.4	3.81	●		●		●		●	●
VNGA 160408	9.52	4.76	0.8	3.81	●		●		●		●	●
VNGA 160412	9.52	4.76	1.2	3.81	●		●		●		●	●
VNGA 160416	9.52	4.76	1.6	3.81	●		●		●		●	●
VNGA 220404	12.70	4.76	0.4	5.16	●		●		●		●	●
VNGA 220408	12.70	4.76	0.8	5.16	●		●		●		●	●
VNGA 220412	12.70	4.76	1.2	5.16	●		●		●		●	●
VNGA 220416	12.70	4.76	1.6	5.16	●		●		●		●	●

Turning Insert

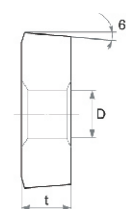
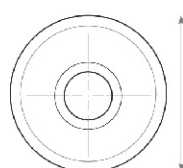
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WNGA



ISO Description	dimensions (mm)				WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	r	D								
WNGA 080404	12.70	4.76	0.4	5.16	●		●		●		●	●
WNGA 080408	12.70	4.76	0.8	5.16	●		●		●		●	●
WNGA 080412	12.70	4.76	1.2	5.16	●		●		●		●	●

RCMA



ISO Description	dimensions (mm)			WCR 100	WCR 100C	WCR 200	WCR 200C	WCR 300	WCR 300C	WCR 400	WCR 500
	d	t	D								
RCMA 120600	12.70	6.35	3.18	●		●		●		●	●
RCMA 190400	19.05	4.16	6.35	●		●		●		●	●
RCMA 190900	19.05	9.52	6.35	●		●		●		●	●
RCMA 191200	19.05	12.70	6.35	●		●		●		●	●
RCMA 251200	25.40	12.70	6.75	●		●		●		●	●
RCMA 251900	25.40	19.05	6.75	●		●		●		●	●
RCMA 320900	31.75	9.52	10.00	●		●		●		●	●
RCMA 321900	31.75	19.05	10.00	●		●		●		●	●

